

ANNEX A

Washington, DC

IFD/ICS

Consultant to compile a Datalake and Statistical Module

TERMS OF REFERENCE

Background

The Inter-American Development Bank (IDB) is the leading source of development financing for Latin America and the Caribbean, with a strong commitment to achieve measurable results, increased integrity, transparency and accountability. It supports efforts by Latin America and the Caribbean countries to reduce poverty and inequality and bring about development in a sustainable, environmentally friendly way.

The Transparency and Integrity Cluster as part of the Innovation in Citizen Services Division supports (i) transparency, integrity, control of corruption, and governance reforms in accordance with international standards; (ii) open government and transparency innovations enabled by new technologies and big data; (iii) emphasizing transparency and integrity in sector operations and public-private partnerships; and (iv) strengthening internal coordination between the operational and fiduciary arms of the IDB Group. The cluster actively seeks to deepen policy research to close knowledge gaps and to provide better policy advice to all member countries. The Transparency and Integrity Cluster knowledge agenda will contribute to debates, evidence and an understanding of alternative policies for structural reforms that may reduce corruption and, thus, contribute to a more efficient use of resources for productivity, growth, and social development in Latin America and the Caribbean (LAC). The Transparency and Integrity Research Agenda is seeking for high quality research, with policy relevance and from different profiles, including but not limited to: Law, Political Science, International Affairs, Economics and Data Science applied to public policy.

Consultancy objective(s)

The objective of this consultancy is to produce a high-quality research -Working Paper or Technical Notes- investigating in detail a topic of interest, within the following key areas for the present and near future demand for policy change:

- Illicit Financial Flows (IFF) from the Transparency & Integrity Perspective. IFFs are usually quantified or studied from the fiscal or finance perspective. While this is important, it has not been thoroughly explored to address the institutional changes and legal reforms that may transform coordination of public organisms and, thus, influence favorably the behavior of all the relevant economic agents (public servant, private sector, financial sector, etc).
- Integrity of the Extractive Industries with focus in LAC. This sector is a key contributor to many of LAC's economies. Yet, is also one of the most vulnerable to irregular practices and conflict of interests leading to corruption and economic/fiscal losses. Deepening knowledge to integrate elements of institutional governance, public ethics or the integrity of the public-private relationship with the economic losses (quantify its value) still has important gaps to be closed.
- Transparency and Public Resources. We seek to close knowledge gaps by answering, for instance: does more transparency create more savings? or does access to information provide a better environment for accountability in the use of public resources? Different studies explore how transparency policies are being designed or enacted in countries of LAC. Yet, there exists important gaps to link together (either via correlation or causation) policy actions with economic impact or

indicators related to better use of public resources. This is important for multiple reasons but of particular importance for public finances: they allow for the reduction of public resources losses.

Main activities

- Work Plan. As a first step, the consultant will produce a detailed work plan with a proposal detailing the various phases of the research project.
- Data preparation and treatment. Identify with team members universe of variables (internal and external) to explore and compile datasets
- Statistical Module preparation. Document code and develop tests to ensure data is clean and processes are replicable
- Draft of a Technical Note: Paper for general audience (leverage previous documentation)
- Final Versions and Final Document. Code documentation should include all fixes and automated updating of software. The dataset should reflect the most updated information. Final document should include any feedback received by the team.

Reports / Deliverables

1. Work plan: One week after contract signature.
2. Compiled Dataset or Datasets: 7 weeks after contract signature.
3. Statistical Module: 15 weeks after contract signature.
4. Final Documentation: 16 weeks after contract signature.

Payment Schedule

- 10% upon delivered the work plan
- 30% upon delivery of the compiled dataset or datasets
- 35% upon delivery of Statistical Module
- 25% upon delivery of Final Documentation

Qualifications

- Academic Degree: Master Degree or PhD in economics, data science or system engineer. Minimum 5 years of experience in the area of programming and algorithm designs.
- Languages: English, Spanish
- Areas of Expertise: financial markets, public debt, macroeconomics, public policy, econometrics, machine learning methodologies.

Characteristics of the Consultancy

- Consultancy category and modality: Products and External Services Contractual, Lump Sum
- Contract duration: 16 weeks
- Place(s) of work: the consultant will work from his/her place of residence, with at least 1 trip to the Bank's headquarters in Washington DC.
- Coordinators: Guillermo Lagarda, Roberto de Michele, Francesco De Simone

Payment and Conditions: Compensation will be determined in accordance with Bank's policies and procedures. In addition, candidates must be citizens of an IDB member country.

Consanguinity: Pursuant to applicable Bank policy, candidates with relatives (including the fourth degree of consanguinity and the second degree of affinity, including spouse) working for the Bank as staff members or Complementary Workforce contractuels, will not be eligible to provide services for the Bank.

Diversity: The Bank is committed to diversity and inclusion and to providing equal opportunities to all candidates. We embrace diversity on the basis of gender, age, education, national origin, ethnic origin, race, disability, sexual orientation, religion, and HIV/AIDs status. We encourage women, Afro-descendants and persons of indigenous origins to apply.

ANNEX A

Washington, DC

IFD/ICS

Consultant to Design and Implement the Dashboard

TERMS OF REFERENCE

Background

The Inter-American Development Bank (IDB) is the leading source of development financing for Latin America and the Caribbean, with a strong commitment to achieve measurable results, increased integrity, transparency and accountability. It supports efforts by Latin America and the Caribbean countries to reduce poverty and inequality and bring about development in a sustainable, environmentally friendly way.

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Consultancy objective(s)

The objective of this consultancy is to design and implement a dashboard to exploit the available data resources for improving policy design, contribute to operational work in the bank, and to provide information tools for knowledge production. More specifically, the objectives of this consultancy are:

- To define requirements for an integrated online (web-based) dashboard accessible to different stakeholders with varying levels of access, to enhance the ability of ICS Cluster on Transparency and Integrity, Country Economists as well as other IDB teams to track or monitor periodically changes on different indices, ranks, and other selected indicators;
- To design and develop the system for visual and text reporting, exporting them in a friendly format and export the databases that are behind such reports; and
- To build the capacity of the relevant staff to manage the system on a sustainable basis through specific training, help documents and tutorials.

More specifically, the Dashboard should have the following functionality:

- Planning - data entry and notifications system;
- Monitoring – data entry, export in various formats;
- Reporting – reports, graphs and ad-hoc custom reporting capability;

- Role-based user dashboards that cumulate data, for easy-to-use data visualization and highlighting projects and tasks that require attentions; and
- Key automated updates and custom fields for complete data collection.

The system should also:

- Ensure data retrieval/exchange capability with other national and regional structures systems and databases as agreed in the first part of the assignment;
- Have relevant import / export capabilities to pre-designed templates or databases;
- Display summary pages showing data from all available sources, aggregate statistics and summary visuals which illuminate what is and is not working;
- Provide administrators with intuitive tools for reconciling discrepancies between different data sources, and a clear indication in the event that any link between systems becomes inoperable or offline;
- Provide administrators with tools for defining core headline indicators and defining the relationship between those indicators and higher-level programme objectives;
- Provide a database administration module, allowing for advanced user management, with a staggered set of privileges for different users as well as user authorization, tracking/authorizing changes to results hierarchy, database download, online backup and other necessary features.

Sustainability is an important aspect of the assignment and it is important that relevant staff are fully trained and engaged with the system developed. With this in mind, the consultant will be expected to hold multiple planning and review dialogues with key stakeholders in order to ensure that the system is both relevant and useful to partners and that a sustainability plan is in place. All installation steps and steps for linking database systems to the Dashboard must be documented and communicated to staff clearly. Further to this, the consultant will be expected to:

- Develop training handbooks and Dashboard “How to Guides”;
- Develop video tutorials and other help systems;
- Develop technical documents including requirements analysis, design documents and user/admin manuals;
- Conduct specific training to relevant staff and partners on each area of the assignment; and
- Ensure relevant staff are in a position to manage all components of the system upon inception and modify them as needs arise.

Main activities

- Work Plan. As a first step, the consultant will produce a detailed work plan with a proposal detailing the various phases of the project.
- Prototype. Proposed design should be agreed before implementation phase
- Dashboard Implementation. platform developed and operational
- Training: Staff training, training modules, help systems and technical documents, and handover completed
- Final testing Offline and Online release. Test offline for a period of time and then online release.

Reports / Deliverables

5. Work plan: One week after contract signature.
6. Prototype: 15 weeks after contract signature.
7. Dashboard: 20 weeks after contract signature.

8. Documentation and Release: 24 weeks after contract signature.

Payment Schedule

- 10% upon delivered the work plan
- 25% upon approval of the Prototype
- 35% upon approval of the Dashboard
- 30% upon delivery of Final Documentation and online release

Qualifications

- Academic Degree: Master's degree or PhD in IT, information management, data science or system engineer. Minimum 5 years of experience in the areas of interest:
- Languages: English, Spanish
- Areas of Expertise: i) developing IT solutions and providing IT support and maintenance services; ii) developing and managing databases; web technologies, including their development and deployment, and development of web-based information systems; and good understanding of statistics, machine learning, economic and social indicators.

Characteristics of the Consultancy

- Consultancy category and modality: Products and External Services Contractual, Lump Sum
- Contract duration: 24 weeks
- Place(s) of work: the consultant will work from his/her place of residence, with at least 1 trip to the Bank's headquarters in Washington DC.
- Coordinators: Guillermo Lagarda, Roberto de Michele, Francesco De Simone

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ANNEX A

Washington, DC

IFD/ICS

Consultant to develop a Working Paper or Technical Note on Economic Effects of Transparency and Integrity

TERMS OF REFERENCE

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gaps to link together (either via correlation or causation) policy actions with economic impact or indicators related to better use of public resources. This is important for multiple reasons but of particular importance for public finances: they allow for the reduction of public resources losses.

- **Transparency and Investment & Financial Markets.** Particular relevance to developing countries is the possibility that corruption or deficiencies on transparency and integrity standards might reduce the effectiveness of investments including public and the originated in the private sector as well as aid flows through the diversion of funds. Lack of control of irregularities in the public investment may be behind of its effectiveness, thus contributing to lower investment multipliers. Aid, being fungible, may ultimately help support unproductive and wasteful government expenditures. Finally, private sector, may perceive too costly (risk-return assessment, poor credit rating, etc) to invest in a country highly exposed to corruption or lack of integrity.

Main activities

- Work Plan. As a first step, the consultant will produce a detailed work plan with a proposal detailing the various phases of the research project.
- Literature Review. The consultant will conduct a thorough literature on corruption and sovereign rating and related topics, to provide adequate context to the proposed research.
- Core research. The consultant will conduct research on the methodologies particularly with a focus on identifying the mechanisms through which corruption, transparency or integrity indicators are involved in the outcomes of economic and financial variables.
- Draft Working Paper or Technical Note: The consultant will prepare a draft Technical Note organizing the main findings of the research. This document will be validated with the Bank team.
- Final Document: The consultant will prepare a final version of the document, to incorporate comments received in the previous phase.

Reports / Deliverables

9. Draft: 16 weeks after contract signature.
10. Final:: 17 weeks after contract signature.

Payment Schedule

- 40% upon delivery of first draft
- 60% upon receipt and approval of the Final document

Qualifications

- Academic Degree: PhD in economics. Minimum 12 years of experience in the area of macroeconomics, financial markets, public debt, and other related fields. Previous experience researching issues related to sovereign rating and/or corruption is a strong plus.
- Languages: English
- Areas of Expertise: financial markets, public debt, macroeconomics, public policy, econometrics, machine learning methodologies.

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