



## **Global Biodiversity Data and Analytics**

### **Part I: Project Information**

**GEF ID**

**Project Type**

MSP

**Type of Trust Fund**

GET

**CBIT/NGI**

**CBIT No**

**NGI No**

**Project Title**

Global Biodiversity Data and Analytics

**Countries**

Global

**Agency(ies)**

World Bank

**Other Executing Partner(s)**

World Bank

**Executing Partner Type**

GEF Agency

**GEF Focal Area**

Biodiversity

**Taxonomy**

Focal Areas, Biodiversity, Influencing models, Strengthen institutional capacity and decision-making, Convene multi-stakeholder alliances, Demonstrate innovative approaches, Stakeholders, Type of Engagement, Information Dissemination, Consultation, Communications, Public Campaigns, Awareness Raising,

Education, Gender Equality, Capacity, Knowledge and Research, Knowledge Generation, Capacity Development, Knowledge Exchange, Learning, Enabling Activities, Innovation

**Sector**

**Rio Markers**

**Climate Change Mitigation**

Climate Change Mitigation 0

**Climate Change Adaptation**

Climate Change Adaptation 0

**Submission Date**

5/5/2022

**Expected Implementation Start**

6/1/2022

**Expected Completion Date**

12/30/2024

**Duration**

31 In Months

**Agency Fee(\$)**

171,000.00

**A. FOCAL/NON-FOCAL AREA ELEMENTS**

<b>Objectives/Programs</b>	<b>Focal Area Outcomes</b>	<b>Trust Fund</b>	<b>GEF Amount(\$)</b>	<b>Co-Fin Amount(\$)</b>
BD-1-1	Mainstream biodiversity across sectors as well as landscapes and seascapes through biodiversity mainstreaming in priority sectors	GET	1,800,000.00	11,000,000.00
<b>Total Project Cost(\$)</b>			<b>1,800,000.00</b>	<b>11,000,000.00</b>

## B. Project description summary

### Project Objective

Facilitate development, curation and use of free, public-domain biodiversity data and analytics to facilitate investment assessments

Project Component	Component Type	Expected Outcomes	Expected Outputs	Trust Fund	GEF Project Financing(\$)	Confirmed Co-Financing(\$)
Foundational Activities	Technical Assistance	Stocktaking Completed: Existing data, services, tools, platforms, emerging technologies related to biodiversity monitoring and spatial planning  Professional Network Established : Key stakeholders who can provide or use modern free biodiversity data and analytics identified and networked	- Stocktaking (institutions)  - Professional Network (incl. with use of virtual meetings and communication )	GET	200,000.00	1,000,000.00

<b>Project Component</b>	<b>Component Type</b>	<b>Expected Outcomes</b>	<b>Expected Outputs</b>	<b>Trust Fund</b>	<b>GEF Project Financing(\$)</b>	<b>Confirmed Co-Financing(\$)</b>
Data Services	Technical Assistance	Terrestrial and aquatic biodiversity data and analytic services	<ul style="list-style-type: none"> <li>- Free Public Domain Global Biodiversity Online Data Services</li> <li>- Data Services Catalog of existing and new services</li> </ul>	GET	700,000.00	2,000,000.00
Data & Analytics Platforms	Technical Assistance	Integration of new data services into existing platform efforts to facilitate access	- Tools for online analysis and visualization platforms (web portal, mobile App, VR) to showcase biodiversity and other data and analytics in a spatial, multi-sectoral context	GET	500,000.00	6,476,200.00

Project Component	Component Type	Expected Outcomes	Expected Outputs	Trust Fund	GEF Project Financing(\$)	Confirmed Co-Financing(\$)
Knowledge & Learning	Technical Assistance	Facilitating effective use of systems developed (with case studies, training, outreach) and appreciation of emerging relevant technology and systems	- Knowledge Products (interactive documentation incl. case studies and training material related to both protected areas and development project environmental due-diligence)  - Training & Outreach (knowledge exchange virtual events, training, competitions incl. Biodiversity data hackathon)	GET	314,290.00	1,000,000.00
<b>Sub Total (\$)</b>					<b>1,714,290.00</b>	<b>10,476,200.00</b>
<b>Project Management Cost (PMC)</b>						
			GET	85,710.00	523,800.00	
			<b>Sub Total(\$)</b>	<b>85,710.00</b>	<b>523,800.00</b>	
			<b>Total Project Cost(\$)</b>	<b>1,800,000.00</b>	<b>11,000,000.00</b>	

Please provide justification

**C. Sources of Co-financing for the Project by name and by type**

<b>Sources of Co-financing</b>	<b>Name of Co-financier</b>	<b>Type of Co-financing</b>	<b>Investment Mobilized</b>	<b>Amount(\$)</b>
GEF Agency	World Bank	In-kind	Recurrent expenditures	11,000,000.00
<b>Total Co-Financing(\$)</b>				<b>11,000,000.00</b>

**Describe how any "Investment Mobilized" was identified**

N/A

**D. Trust Fund Resources Requested by Agency(ies), Country(ies), Focal Area and the Programming of Funds**

<b>Agency</b>	<b>Trust Fund</b>	<b>Country</b>	<b>Focal Area</b>	<b>Programming of Funds</b>	<b>Amount(\$)</b>	<b>Fee(\$)</b>	<b>Total(\$)</b>
World Bank	GET	Global	Biodiversity	BD Global/Regional Set-Aside	1,800,000	171,000	1,971,000.00
<b>Total Grant Resources(\$)</b>					<b>1,800,000.00</b>	<b>171,000.00</b>	<b>1,971,000.00</b>

**E. Non Grant Instrument**

NON-GRANT INSTRUMENT at CEO Endorsement

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Includes Non grant instruments? **No**

Includes reflow to GEF? **No**

**F. Project Preparation Grant (PPG)**

PPG Required **false**

PPG Amount (\$)

PPG Agency Fee (\$)

Agency	Trust Fund	Country	Focal Area	Programming of Funds	Amount(\$)	Fee(\$)	Total(\$)
<b>Total Project Costs(\$)</b>					<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

## Core Indicators

### Indicator 11 Number of direct beneficiaries disaggregated by gender as co-benefit of GEF investment

	Number (Expected at PIF)	Number (Expected at CEO Endorsement)	Number (Achieved at MTR)	Number (Achieved at TE)
<b>Female</b>		1,000		
<b>Male</b>		1,000		
<b>Total</b>	0	2000	0	0

Provide additional explanation on targets, other methodologies used, and other focal area specifics (i.e., Aichi targets in BD) including justification where core indicator targets are not provided

This work will contribute significantly to the spirit of the earlier Aichi targets for biodiversity, including contributing to: - Improving awareness of the values of biodiversity - Helping integrate biodiversity into national and local development and poverty reduction strategies and planning processes - Helping multiple stakeholders (incl. governments, business and stakeholders at all levels) for planning to keep the impacts of use of natural resources well within safe ecological limits And especially - Knowledge, the science base and technologies relating to biodiversity, its values, functioning, status and trends, and the consequences of its loss, are improved, widely shared and transferred and applied. The work is also critical for the achievement of the Kunming declaration intentions, especially contributing to: - Appropriate mechanisms for monitoring, reporting and review, to reverse the current loss of biodiversity - Promote integration or 'mainstreaming' of the conservation and sustainable use of biodiversity into decision making - Support for spatial planning tools to protect species and genetic diversity and reduce or eliminate threats to biodiversity - Further develop communication, education and public awareness tools on biodiversity to support changes in behavior towards the conservation and sustainable use of biodiversity - Increase the provision of financial technological and capacity building support to developing countries necessary to implement the post 2020 global biodiversity framework and in line with the provisions of the Convention

## **Part II. Project Justification**

### **1b. Project Map and Coordinates**

**Please provide geo-referenced information and map where the project interventions will take place.**

Global project - N/A

### **1c. Child Project?**

**If this is a child project under a program, describe how the components contribute to the overall program impact.**

N/A

### **2. Stakeholders**

**Select the stakeholders that have participated in consultations during the project identification phase:**

**Civil Society Organizations**

**Indigenous Peoples and Local Communities**

**Private Sector Entities**

**If none of the above, please explain why: Yes**

Consultations were held to define the data, interest and potential users with the key stakeholders defined at this stage, including ProBlue & ProGreen teams. Extensive consultation and outreach is proposed to both improve identification of new public-domain data sources and tools as well as to engage with multiple stakeholders interested in contributing to, and using, the products and services developed by this work.

**Please provide the Stakeholder Engagement Plan or equivalent assessment.**

**Stakeholder Engagement plan found in "Additional Concept Information" document - page 22.**

The key stakeholders to be engaged as part of this activity include:

Multilateral and National Biodiversity Agencies: This includes the GEF, UN (incl. UNEP/WCMC, UN Biodiversity Lab, FAO), Group on Earth Observation, European Space Agency, NASA, EU JRC, NICFI, AFD, World Bank and other MDBs, etc.

Biodiversity-related Organizations (incl. CSOs): This includes BirdLife International, CBD, CI, GBIF, IUCN, Fishbase, Map of Life, DOPA/BIOPAMA, WRI, WWF, TNC, etc.

Private Sector: Google, ESRI, Microsoft, firms incl. startups with innovative biodiversity monitoring technologies and services (e.g. leveraging acoustics, DNA, etc.)

Academia: Universities around the world (e.g. Yale, U Queensland, etc.) that contribute to open data and knowledge services related to biodiversity

This project seeks to engage key relevant stakeholder groups in all aspects of its development and operationalization. This builds on the [GEF Stakeholder Engagement Policy](#) to build partnerships and harness the skills, experiences, and knowledge of a wide range of stakeholders.

It seeks to meaningfully engage a broad range of stakeholders for all key activities at all stages of the proposal as indicated below:

Activity	Purpose of Engagement	Relevant Activities
Foundation	Strengthened professional networks across relevant stakeholders	? Stakeholder Meetings ? Stocktaking
Online Services	Leveraging data, services, and analytics from various stakeholder organizations	? Identification of existing open online services (with online surveys and discussions) ? Enhancement/creation of additional services
Data & Analytics Platforms	Input into agile design of platforms and customized use of data/analytics services	? Open services catalog ? Illustrative Platform ? Visualizations/Analytics
Knowledge & Learning Platforms	Multi-stakeholder participation in knowledge compilations (e.g. case studies) and knowledge-sharing	? Knowledge and training materials (incl. use cases) ? Interactive/multi-media e-publications (incl. a global e-report) ? Knowledge-sharing events events (incl. webinars, multi-media e-packaging, podcasts, in-person events, hackathons, special events for women and indigenous communities) ? Facilitating use of services within the World Bank and externally (working with Bank teams, Biodiversity-related Global Solutions groups and communities of practice, ESF training) ? Satisfaction surveys

There is increasing global recognition that, just as in the case of climate, biodiversity and ecosystems needs everyone to be involved and there is a need to build on the knowledge, skills, and perspectives of different stakeholder groups. Special efforts will be made as part of this MSP to engage particular

groups of stakeholders during this work to better leverage all types of stakeholders, including governments, private sector (related to both biodiversity and technology), Civil Society Organizations, and special groups (youth, women in accordance with the [guidelines](#), indigenous communities) to broaden the engagement for design and impact of this activity. Outreach will leverage the public systems facilitated by the Bank's Information & Technology Services and Open Learning Campus.

In addition, provide a summary on how stakeholders will be consulted in project execution, the means and timing of engagement, how information will be disseminated, and an explanation of any resource requirements throughout the project/program cycle to ensure proper and meaningful stakeholder engagement.

Multiple methods of communication will be leveraged, including interaction (virtual webinars, in-person workshops, online surveys), e-packaging (e.g. e-newsletters, interactive e-books, storymaps, presentations, videos), and electronic outreach (e.g. website, blogs, social media, communities of practice).

Improved biodiversity conservation requires open access to high-resolution, regularly-updated information to inform:

- ? Resource-constrained **public agencies** that develop, monitor and enforce protective measures for critical species and biomes
- ? **Investment Stakeholders** (e.g. Multilateral institutions including the World Bank itself, NGOs, private firms) whose activities affect biodiversity conservation
  - ? Directly, through their own operations and advisory services
  - ? Indirectly, through participation in public conservation decisions
- ? **Educators, students and other researchers** who are the future knowledge stewards of global biodiversity

The MSP will engage with stakeholders throughout the project, initially to help the stocktaking process and solicit suggestions for the work and feedback on the prototypes developed, and later to help facilitate roll-out, and share expertise in the knowledge-sharing and outreach sessions. The stakeholder networking will focus not only among the more like-minded biodiversity professionals, but interfacing these with development professionals, developing country experts, and targeted communities and associated institutions in the public, private, academia, and CSO fields to facilitate ?mainstreaming? biodiversity in a data-driven manner. The stakeholders participating will also be surveyed on their ?satisfaction? for the products and services delivered as part of the monitoring for the MSP activities.

The stakeholders will be engaged virtually recognizing the global nature of this work as well as the pragmatic considerations of the ongoing pandemic. This will be through a combination of approaches

including virtual meetings (with breakout rooms, polls, and other facilitation), online discussion, virtual knowledge exchange events organized through the Bank's Open Learning Campus, organization of competitions (e.g. hackathons), as well as production of a range of virtual products and services (including open-access biodiversity data and analytic services and platforms, interactive and multi-media documentation, etc. A few in-person events are also planned as conditions allow.

**Select what role civil society will play in the project:**

**Consulted only;**

**Member of Advisory Body; Contractor;**

**Co-financier;**

**Member of project steering committee or equivalent decision-making body;**

**Executor or co-executor;**

**Other (Please explain) Yes**

Participation in consultations to provide inputs into biodiversity data and analytics needs, available sources of data and tools, case studies, participation in knowledge sharing and outreach, feedback on overall activity outputs

### **3. Gender Equality and Women's Empowerment**

**Provide the gender analysis or equivalent socio-economic assesment.**

**Gender Action Plan found in "Additional Concept Information" document - page 24**

Special efforts will be made to include women (who are often under-represented in these efforts) in the discussions and outreach. As part of this, special events are planned only for women to improve this engagement, along with special efforts to feature and engage women in the activities.

Globally, women and other vulnerable populations are often directly dependent on natural resources for their livelihood, and are often disproportionately impacted by biodiversity loss especially when this is considered in the larger ecosystem, climate, and development context. For example, in the Sunderbans delta, loss of mangroves combined with sea level rise impacts the quality of fish available that not only impacts livelihoods of women but impacts the nutritional status of the family, including children (including girls). The MSP seeks to augment the knowledge base of the dependence of women and vulnerable/poor populations on biodiversity and ecosystem services for their livelihood and threats that they may face due to climate change and development. It would improve capacity of women to access

relevant biodiversity data and participate in, and contribute to, consultations and learning/outreach events. As required by the GEF Gender Policy, activities to reduce the gender gap and empowerment of women involved with helping shape the platform and its use, case study on gender aspects of biodiversity driven by data/analytics supported by this work, and sex-disaggregated indicators have been included in the results framework. Please see more in the Gender Action Plan section of the additional info document.

**Does the project expect to include any gender-responsive measures to address gender gaps or promote gender equality and women empowerment?**

Yes

**Closing gender gaps in access to and control over natural resources;**

**Improving women's participation and decision making** Yes

**Generating socio-economic benefits or services or women**

**Will the project's results framework or logical framework include gender-sensitive indicators?**

Yes

**4. Private sector engagement**

**Elaborate on private sector engagement in the project, if any**

The private sector will be engaged to:

1. Be part of multi-stakeholder group for this work
2. Provide inputs to biodiversity monitoring tools (especially based on evolving modern technologies) and private sector generated datasets/subscriptions
3. Provide inputs to IT tools and platforms for modern analytics (e.g. cloud analytics, visualization systems, platforms, mobile apps, AR/VR) for the biodiversity data processing, visualization, access, and outreach
4. Explore using the public-domain products (data services, platforms, knowledge products, learning and outreach frameworks) developed ? increasingly, private firms have committed to sustainable operations in ecologically-sensitive areas, and need higher-resolution information about endangered and endemic species, critical habitat, and encroachment threats within their areas of operation to ensure sustainability, accountability, and transparency.

The private sector involvement would be to leverage expertise to showcase advances in biodiversity data (e.g. using new sensors, e-DNA and other modern approaches) as well as on information and analytics systems (e.g. modern data analytics, visualization, and cloud services, earth observation, outreach platforms) in the development of the products and services envisaged in the MSP. The other role envisaged for the private sector is on the actual USE of the systems, products, and training developed that would help both private investors in improving consideration of biodiversity as part of

environmental due-diligence as well as private consultants engaged to do such analytics for public investments.

## 5. Environmental and Social Safeguard (ESS) Risks

Provide information on the identified environmental and social risks and potential impacts associated with the project/program based on your organization's ESS systems and procedures

### Overall Project/Program Risk Classification\*

PIF	CEO Endorsement/Approval	MTR	TE
Low			

#### Measures to address identified risks and impacts

Elaborate on the types and risk classifications/ratings of any identified environmental and social risks and impacts (considering the GEF ESS Minimum Standards) and any measures undertaken as well as planned management measures to address these risks during implementation.

Risks	Mitigation
Platform does not include key free accessible data inputs	Intensive research and outreach to a broad range of stakeholders during early stocktaking to identify free available data and services; Facilitate resolution of any partner concerns (e.g. on resolution) of data to be shared.
Inadequate platforms for data/analytics	Consultation and research to explore modern systems to support open data services and modern visualization. Improve awareness of evolving technologies.
Delayed implementation	Use an 'agile' approach to develop and refine early prototypes that will help set up early framework for updating. The team already has expertise with this work and is already working with all key internal and many external partners.
Misuse of the data/analytics	Improved knowledge/learning/outreach systems to build capacity to use the data in a responsible manner. Focus on public-domain data. Documentation of case studies.

**Supporting Documents**

Upload available ESS supporting documents.

**Title**

**Module**

**Submitted**





<p><b>Consultants (Individuals and Firms)</b></p>	<p>Consultants (individuals and firms) to: (i) conduct stocktaking of available data, analytical tools, data services, new technologies for biodiversity monitoring, as well as key stakeholders and data needs; (ii) collate existing data services and facilitate the creation of high-resolution biodiversity data services; (iii) support development of online visualization and analytics platform leveraging new and existing services in the data and analytics catalog and integration with other development data services; (iv) support creation of a</p>	<p>75,000</p>	<p>450,000</p>	<p>300,000</p>	<p>164,290</p>			<p>989,290</p>	<p>World Bank</p>
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<b>Consultants (Individuals and Firms)</b>	Support to project management							30,710	30,710	World Bank
<b>Salary and benefits / Staff costs</b>	World Bank staff*	75,000	100,000	110,000	50,000			55,000	390,000	World Bank
<b>Trainings, Workshops, Meetings</b>	Stakeholder workshops and meetings; training and seminars to facilitate use of services and platforms developed.	50,000	50,000	40,000	75,000				215,000	World Bank
<b>Travel</b>	?		25,000		25,000				50,000	World Bank
<b>Office Supplies</b>										
<b>Other Operating Costs</b>										
	?									
<b>Grand Total</b>		200,000	700,000	500,000	314,290			85,710	1,800,000	

[1] In exceptional cases where GEF Agency receives funds for execution, Terms of Reference for specific activities are reviewed by GEF Secretariat

\* The World Bank will carry out the following execution services:

Component 1: Convene and chair the meetings, coordinate stakeholders' engagement, supervise production of meeting reports

Component 2: Conceptualization of data and analytic services, drafting of consultants' ToR and procurement of consultants, supervision of consultants, development of methodology and use case examples, and supervision of stakeholders' engagement at the local level.

Component 3: Integration of the data services on IT Infrastructure, for example Development Data Hub, Geospatial platform, beta testing with user focus groups, finalization incorporating user feedback

Component 4: Planning and supervision of production of outreach materials and dissemination

**ANNEX F: (For NGI only) Termsheet**

Instructions. Please submit an finalized termsheet in this section. The NGI Program Call for Proposals provided a template in Annex A of the Call for Proposals that can be used by the Agency. Agencies can use their own termsheets but must add sections on Currency Risk, Co-financing Ratio and Financial Additionality as defined in the template provided in Annex A of the Call for proposals. Termsheets submitted at CEO endorsement stage should include final terms and conditions of the financing.

**ANNEX G: (For NGI only) Reflows**

Instructions. Please submit a reflows table as provided in Annex B of the NGI Program Call for Proposals and the Trustee excel sheet for reflows (as provided by the Secretariat or the Trustee) in the Document Section of the CEO endorsement. The Agency is required to quantify any expected financial return/gains/interests earned on non-grant instruments that will be transferred to the GEF Trust Fund as noted in the Guidelines on the Project and Program Cycle Policy. Partner Agencies will be required to comply with the reflows procedures established in their respective Financial Procedures Agreement with the GEF Trustee. Agencies are welcomed to provide assumptions that explain expected financial reflow schedules.

**ANNEX H: (For NGI only) Agency Capacity to generate reflows**

Instructions. The GEF Agency submitting the CEO endorsement request is required to respond to any questions raised as part of the PIF review process that required clarifications on the Agency Capacity to manage reflows. This Annex seeks to demonstrate Agencies' capacity and eligibility to administer NGI resources as established in the Guidelines on the Project and Program Cycle Policy, GEF/C.52/Inf.06/Rev.01, June 9, 2017 (Annex 5).