

REQUEST FOR INFORMATION (RFI)

Title of the RFI:	Taxonomy and Analytics - Green Climate Fund
Date of this RFI:	16 April 2021
Closing Date for the Receipt of RFI:	14 May 2021 17:00 KST
Reference Number:	RFI 2021 016
Attention to:	Procurement Manager
Email:	procurement@gcfund.org cc: mkishi@gcfund.org

Background Information

[The Green Climate Fund](#) (GCF) was established in 2010 with the purpose of making a significant and ambitious contribution to combatting climate change. GCF is governed and supervised by a Board that is responsible for funding decisions and is supported by a Secretariat that executes the day-to-day operations of the Fund. As GCF has increased its operational scale, the Secretariat's responsibilities and activities have increased both in number and complexity. To address this challenge, the Secretariat is seeking ways to improve its delivery capacity and organize its structure to deliver on its mandate. The Fund currently has over 200 staff, 173 projects and total of committed financing of 8.4 billion USD. It is headquartered in Songdo, Incheon, South Korea.

Knowledge Management (KM) has become increasingly important as GCF grows and generates more information that needs to be captured, abstracted, categorized and channeled to the stakeholders adequately. To support the Green Climate Fund's (GCF) partners, stakeholders, and secretariat to better navigate and engage with the fund, an overarching taxonomy has been established. The taxonomy seeks to standardize the fund's definitions of terms in order to guide the user through the technicalities of the fund's language and terminology. In turn, the taxonomy will support better-informed and more efficient decision making and response to investment opportunities that contribute to achieving the GCF's objectives. The taxonomy seeks to accurately reflect the latest developments of the funds programmes, processes, policies, and engagements.

In addition to providing the GCF stakeholders and secretariat with a consistent overview of the fund's terminology, it is envisioned that the taxonomy will be applied to advanced technology applications. Such applications are powered by artificial intelligence (AI) and can automatically classify content based on the standardised taxonomy structure. Moreover, By utilising the fundamental metadata layer provided by the automatic classification of content, other types of applications can provide services such as powerful search engines, virtual assistants and recommender systems to the GCF secretariat and stakeholders.

Description of Requirements

The Green Climate Fund (GCF) is seeking information on how an interested vendor could help the fund increase its effectiveness and efficiency making the best use of a GCF Taxonomy and data analytics.

This section below provides a summary of the taxonomy related services that the GCF is seeking to introduce. The purpose of this exercise is to familiarize the potential Vendors with the concept and solicit their feedback.

1. GCF stores information in different platforms, namely SharePoint, Drupal and other ad hoc applications and databases developed in house. It is GCF intention to implement a powerful, integrated, and user-friendly search engine that could help to easily retrieve information based on the taxonomy.
2. The number of documents and file archived constitutes a challenge for search but an opportunity for analysis. GCF intends to perform analysis and text mining based on the taxonomy to identify trends, patterns, and useful information to boost efficiency and effectiveness in delivering on its mandate.
3. The GCF taxonomy is a fundamental step in developing a system capable of search for specific thematic areas and automatically perform analysis. The Fund is interested in exploring additional uses and technologies that could help to provide support in analyzing and classifying documents, report writing, and visualization. Furthermore, a glossary that can display concepts in their hierarchical order and respective definition is being developed.

Vendor Response Form

The Vendor Response Form must be submitted to the Green Climate Fund Procurement Department via procurement@gcfund.org no later than **14 May 2021**.

Submission Date:	
To:	Procurement Manager
Email:	procurement@gcfund.org cc: mkishi@gcfund.org
From:	(Name of the company)
RFI Number:	RFI 2021 016
Subject:	Taxonomy and Analytics - Green Climate Fund

Company Information

Legal Company Name:

Company Contact Person:

Address:

Telephone Number:

Email Address:

Company Website:

Response

Questions pertaining to the Qualifications of your company:

- Please list a few projects you have developed and implemented in the area of Taxonomy, Data Analytics, and Artificial Intelligence Techniques (e.g Text Mining, Text Analysis, and Natural Language Processing). Please include, dates, project, client's name, and links. Please provide at least one detailed example.
- Please describe the most relevant **development languages/environments and ICT Systems** used in projects you have implemented in the above-mentioned areas.

Questions pertaining to Taxonomy uses, Data Analytics, and Artificial Intelligence Techniques.

Questions in this section correspond to the numbers under the **Description of Requirements**.

1. Intuitive and integrated search engine:

GCF Taxonomy runs on MS-SharePoint websites that are used as repositories for the whole organization. Each Office/Division has its own MS-SharePoint website.

(a) How would you implement an integrated search engine taking into consideration UX aspects and that can search for documents from all the MS-SharePoint sites available/selected?

(b) What would be your suggestion to improve the quality of the search and the user experience when searching?

2. Data Analytics and Reporting:

In addition to a better search and usability of documents, it is GCF's intention to make use of the GCF Taxonomy and tagged documents for data analysis and identification of specific patterns and trends that can be useful to report writing, take actions, and supporting decision making.

- (a) What approach would you take to develop a meaningful analysis of tagged documents?
- (b) Would you be able to support data visualization and reporting? Which tools/libraries would you suggest for this scope?
- (c) What technologies could you bring in to refine and provide accurate analysis and reporting?
- (d) How would you improve the tagging with an unsupervised process?

3. Artificial Intelligence Techniques:

Most of the content gathered by GCF during project implementation is provided in written documents (non-structured data). An Artificial Intelligence (e.g. Text Mining and Natural Language Processing) solution would use semantic text mining to rapidly analyze documents to find unknown patterns, for example associations between different funding modalities, countries, and regions.

- (a) Which approach would you suggest to examine large collections of documents to discover new information or to extract relevant information from those documents and support distilling lessons from the operations?
- (b) Would it be possible to support analysis in multiple languages and multiple formats?
- (c) How the GCF Taxonomy could be leveraged when working with different approaches for Artificial Intelligence Solutions?

4. Further development:

GCF wants to make the best use of the GCF Taxonomy in exploring additional uses and technologies that could help to provide support in analyzing and classifying documents, report writing, and visualization. Furthermore, a glossary that can display concepts in their hierarchical order and respective definition is being developed.

- (a) What other uses of the GCF Taxonomy do you envision?
- (b) How would you evolve the GCF Taxonomy into an Ontology?
- (c) Would you suggest other approaches and tools for further developing the GCF taxonomy?
- (d) Which visual solutions would you be able to provide to display the glossary?

5. Technology

GCF uses mostly MS-SharePoint websites and MS-Teams to store information and Drupal for the public website. Recently, new platforms, in the form of databases, have been developed and are under development.

- (a) Can you provide technologies that can be integrated to the platforms currently used by GCF?
- (b) Would you be able to provide a technology capable of tagging, classifying and filtering databases which are not document libraries?
- (c) Please provide relevant information and examples.

6. Which other tools and solutions that were not mentioned above would you be able to provide to deliver on the mentioned goals?

Generic Questions:

- What human resources will be needed to perform these tasks (from both GCF and you)?
- What challenges and limitations do you foresee for the above-mentioned tasks?
- Will you be willing to receive clarification inquiries from the GCF, if needed?

Next Steps

THIS IS A REQUEST FOR INFORMATION (RFI) ONLY. This RFI is issued solely for information and planning purposes and it does not constitute a Request for Proposal (RFP) or a promise to issue an RFP in the future. This request for information does not commit the GCF to contract for any supply or service whatsoever. Not responding to this RFI does not preclude participation in any future RFP, if any is issued. All submissions become GCF property and will not be returned.

GCF representatives may choose to consult with the Vendors. Such discussions would only be intended to get further clarification on the submissions.

Emails for clarification will be accepted by 30 April 2021. Responses to all the questions will be circulated among the parties who will have made inquiries by the deadline.

Please note that the costs of submitting the information and of any related actions to the RFI shall be borne by the Proposer.