

## ***Template RS Consultant SOW***

***Consult the RS budgeting guidance to inform SOW costing***

## **Timeline & Location**

Start date: Projected start

End date: Projected end

Location: Remote or particular location

## **Purpose of the Project**

This project is intended to directly support Program Name in monitoring (example: change in areas where it is conducting programming that targets farmers, agricultural value chain actors, or other food system actors).

The goals of the project are:

1. Goal 1
2. Goal 2

## **Background & Relevant Documents**

Describe any background relevant to the need for the RS analysis, including context specifics, reduced access conditions, MEL data that can be made available to the analyst, and intended decisions the RS analysis will inform.

You should ideally have already conducted a Feasibility Assessment and set Analysis Objectives using the RAAM Matrix Tool. Link this as a background document if it can be shared.

## **Project Activities**

Working closely with the (relevant teams, partners or points of contact), the contractor will:

1. Familiarize themselves with the project theory of change, the project logframe, and the remote sensing analysis objectives set by the team.
2. Meet with the project team to agree on remote sensing-based analytics that can fulfill each objective, and set the analysis plan, including clear roles & responsibilities for the contractor and the project team.
3. Create Python scripts to calculate each analytic using the Google Earth Engine data catalog and APIs, including necessary comments to explain calculation steps.
   1. Example data for necessary inputs such as study area location will be provided.
4. Diagram the process flow for the scripts in a separate user guide as appropriate, including analysis environment setup, and all user-initiated steps and inputs.
5. Conduct quality assurance checks to ensure the scripts perform as expected when run by MEL analysts.
6. Conduct a webinar for the project team explaining the process flow and demonstrating at least one indicator calculation using the created scripts.

## **Deliverables**

1. Final workplan submitted and approved
2. Source files for each analytic script
3. Process flow diagram and user guide
4. Final webinar

## **Notes on Data**

The contractor should consider the calculation of each indicator in at least the Medium (10m - 50m) and High (less than 10m) spatial resolution levels, framing the possibilities for insight with each level (where appropriate) and considering these factors in the cost analysis. Other types of satellite data products including thermal and radar may be explored as possibilities, but spatial and temporal resolution as well as the granularity of insight should also be considered with this data.

If calibration or validation data is required for any calculation, the contracting organization shall be responsible for providing such data. Validation data may also be considered from widely authoritative sources (i.e. spectral libraries, reference endmembers).

## **Estimated LOE**

For this project, the estimated LOE is (input time in days or hours).

## **Required Skills & Experience**

* Demonstrated expertise in working with remote sensing datasets and developing geospatial analysis required.
* Statistical programming capabilities in Python or alternative programming language required.
* Experience in programming for Google Earth Engine highly preferred.
* Expertise in (particular sector, e.g. agricultural/ecological) analysis highly preferred.

## **Roles & Responsibilities**

The Project Lead will report to: *Insert*