

Template: Sample terms of Reference- GIS, agronomy and value chain experts

Priof docorintion	This template contains sample terms of reference that set out the
Brief description	This template contains sample terms of reference that set out the
	profile of experts on: GIS, agronomy, and value chains, and their
	roles and responsibilities. The terms of reference may be adapted
	and used in the recruitment of experts.
Fundated autooma	The project team members have an environ viete teachnical profile to
Expected outcome	The project team members have an appropriate technical profile to
	develop the CRFS assessment and action plan.
Expected output	Terms of reference
Scale of application	Project level
Expertise required	Project management
Examples of application	Antananarivo, Madagascar
Year of development	2020
Author(s)	Carmen Zuleta Ferrari
Relevant CRFS Handbook	Inception module
modules; related tools,	
examples and activities	

GIS expert – Sample terms of reference

1) General description

The Consultant will only support the assessment phase using GIS and spatial analysis. As a GIS expert he/she will produce the necessary products for the rest of the consultants to better perform the CRFS rapid scan and in-depth assessment. His/her tasks will be developed under the close supervision of the project coordination.

2) Tasks and responsibilities

More specifically, he/she will have the following responsibilities:

- Develop a GIS database to harmonize the existing data, define the baseline with reliable resolution (raster images and vectorial) to facilitate the development of the assessment;
- In collaboration with the agronomist and value chain expert, define the spatial criteria for the CRFS boundaries, based on the collected data;
- Contribute to the characterization of the CRFS (analysis of food flows, main commodities, products of food security and nutrition in the city region) and the main climate-related risks affecting its components/livelihoods;

- Submit a proposal of the CRFS boundary scenarios using maps;
- Through the use of spatial analyses, contribute to the understanding of the most important impacts of climate hazards and to the assessment of the exposure and vulnerabilities of the CRFS communities;
- Develop a series of food flow maps to understand the location of main commodities' production basins, supply circuits, processing areas, sale, distribution and waste management infrastructure, including those components being impacted by main climate hazards (e.g. flood prone areas).
- Contribute to the definition of sample areas for the development of the in-depth survey for primary data collection;
- Participate to interviews and focus group discussions with key informants to help complete the existing spatial datasets;
- Complete the spatial information that will help to better identify the key points of vulnerability from the CRFS (blocking points, inefficient infrastructure, risk prone areas, etc).
- Based on the priorities, maps may be modified during the in-depth phase. New maps can be integrated during this phase of the analysis.
- Support the presentation of the results of the in-depth assessment;
- Collect the inputs and recommendations from the participants using participatory maps;
- Guide the participatory exercises developing the scenarios of vulnerability identified during the assessment to establish priorities.

Agronomist and value chain expert – Terms of Reference

1) General description

Under the supervision of the project coordinator and in close collaboration with the GIS consultant, the agronomist and value chain expert will be responsible for analyzing the state of the main value chains of the CRFS.

2) Tasks and responsibilities

More specifically, he/she will have the following responsibilities:

- Develop a rapid scan diagnosis with the characteristics of the main value chains in the CRFS;
- Develop a map of the key players involved in each value chain;
- In collaboration with the GIS expert, determine the boundaries of the CRFS area, taking into account the characterization of main value chains developed in the rapid scan;
- Conduct a rapid climate vulnerability analysis, including the critical points from each value chain (including actors and infrastructure) in the project area;
- Within the in-depth assessment, deepen the identified climate risks and analyze the existing resilience capacities of the value chain nodes;
- Guide the SAG working groups into the development of the strategy and action plan to improve the CRFS;
- Develop the in-depth assessment report with an input on the identification of priority investment opportunities.