



AYITI Pi Djanm

Scope of Work

Statistical expert | Data analyst Consultant

Project Overview

Ayiti Pi Djanm (“a Stronger Haiti”) is a five-year project that is reaching nearly 90,000 participants and more than 17,000 households across 12 communes in the Sud and Nord-Est departments: to improve food and nutrition security and resilience to shocks. Recognizing that families exist in a larger social environment and do not build resilience alone, the consortium led by Catholic Relief Services (CRS) is partnering with communities to build resilience capacities at the household and community levels, as well as transformative capacity at structural levels. The project features an innovative market system approach that uses Title II commodities to catalyze private sector investments that will help develop locally produced foods and create new agricultural livelihood opportunities.

The project features an innovative market system approach that uses Title II commodities to catalyze private sector investments that will help develop locally produced foods and create new agricultural livelihood opportunities. This strategy will close the consumption gaps of vulnerable households and individuals, enhance impact across all three RFSA purposes, maximize efficiency of US Government resources, and create transformational change by driving demand and increasing the supply of nutritious foods in local markets. In tandem, *Ayiti pi Djanm* will prioritize the most vulnerable households for layered, targeted and sequenced programming designed to **strengthen the agency and capacities of all household members** with complementary skills and thus strengthen the whole household’s food security and resilience.

Purpose

By the end of the fiscal year, August to September a participant base survey will be conducted to measure the progress made by Ayiti Pi Djanm since the inception workshop to date, i.e., from April 22 to September 23 against the set annual targets outlined in the project’s indicators table. The focus of the survey is on achievement of outcome indicators. The specific objectives of the Participant based sample survey are:

- a) Determine the percent or total values of the outcome indicators that are measured at the participant level.
- b) To establish the indicators performance and progress towards realization of Ayiti Pi Djanm ’s intended outcomes.

To capture evidence from Ayiti Pi Djanm implementation that will guide review of theory of change and identify learning that can be scaled within the project.

The annual survey will be a descriptive survey design in support of annual monitoring. The survey comprises of two distinct, but related data collection processes as follows:

1. Routine participant-based survey: This targets KAP and agriculture indicators and will be collected regularly at the end of each cohort participant.
2. Annual participant-based survey: This targets other sample frames whose outcome changes are expected annually and will be collected in August |September of each year.

Geographic scope of survey

The annual survey will focus on the implementation area, 4 communes in south: Roche a bateau, Coteaux, Port a Piment Chardonniere, and 8 Communes in Nort East: Grand Bassin-Terrier Rouge, Sainte Suzanne, Fort Liberte, Mont Organise, Carice, Monbin Crochu, Valliere.

Survey population of participants

The study population of PaBS will be the Ayiti Pi Djanm beneficiaries who have received the intervention from the project inception to date. The sampling frame for the survey will be taken from the updated list of beneficiary registration from Commcare. Beneficiaries targeted by Ayiti Pi Djanm interventions can be categorized into key sector: Community wide services including provision of Cash and food vouchers food vouchers, ii) Individuals who are enrolled into groups of common interests (farmers group: FLCs, health and nutrition community consultancy group: Care group) individual who are enrolled in women and youth empowerment activities: Household dialogue beneficiaries, and Youth entrepreneur training. Participants targeted by Ayiti Pi Djanm interventions can be categorized into key sector: Community wide services including provision of cash and food vouchers, ii) Individuals who are enrolled into groups of common interests (FLCs, Care Groups), and iii) individuals who are enrolled in women and youth empowerment activities (Household dialogue beneficiaries, and Youth entrepreneur training).

Table I PaBS sample frames

Key interventions	# of participants enrolled in Y2
All project beneficiaries	2800
Farmer Learning Communities [Male aged 15-29 and 29+; and female aged 15-29 and 29+]	928
Sorghum farmers [Male aged 15-29 and 29+; and female aged 15-29 and 29+]	900
Integrated Care Group members [Male and Female]	2400
Household dialogue beneficiaries [Female aged <19 and 19+]	400
Safe Space Club and Household Dialogue beneficiaries [Male and Female]	360
Youth entrepreneurs [Male and Female]	300

Indicators Under Study

The tables below show the indicators measured through the PaBS. It shows indicator type, and interventions for each indicator under the survey. Please Annex V with all the PIRS for these selected indicators.

Table 2 1: List of Annual PaBS Indicators under the survey

Indicator #	Indicator	Indicator reference	Intervention
12	PM36: Index of social capital at the household level	BHA	All
14	PM09: Number of hectares under improved management practices or technologies with USG assistance	BHA	FLC, Sorghum farmers
15	PM16: Number of individuals in the agri-food system who have applied improved management practices or technologies with USG assistance	BHA	FLC, sorghum farmers
16	C1: Mean and median Reduced Coping Strategy Index (rCSI) score	BHA	ALL
19	PM12: Number of hectares under improved management practices or technologies that promote improved climate risk reduction and/or natural resources management with USG assistance	BHA	FLC
24	C5: Number of farmers reporting adequate access to resources to implement sustainable production strategies	Custom	FLC, Sorghum farmers
30	C6: Percentage of individuals with adequate knowledge and positive attitudes towards key natural resource management and agricultural production practices [Knowledge; NRM]	Custom	FLC,
35	C8: Percent of women of reproductive age consuming a diet of minimum diversity (MDD-W)	Custom	ICG
39	C9: Percent of children 6–23 months receiving a minimum acceptable diet (MAD)	Custom	ICG
40	C10: Prevalence of exclusive breastfeeding of children under six months of age	Custom	ICG
41	C11: Percentage of individuals with adequate knowledge and positive attitudes and practices of key nutrition and IYCF behaviors promoted by APD [Knowledge; IYCF]	Custom	ICG
48	C14: Percentage of caregivers who reported an adequate access to resources for practicing key nutritional behaviors	Custom	ICG
49	C15: Percentage of individuals with adequate knowledge and positive attitudes and practices related to gender dynamics and women's empowerment [Practices, Shared division of household tasks]	Custom	HHD
50	PM15: Yield of targeted agricultural commodities among program participants with USG assistance	BHA	FLC, Sorghum
52	C17: Percentage of women and adolescent girls reporting a decrease in physical stress and illness as a result of APD activities	Custom	HHD, SSC
53	C18: Percentage of women who reported a decrease of SGBV within the community as a result of APD activities	Custom	HHD, SSC
55	C20: (GNDR-7) Percentage of participants that view Gender-Based	Custom	HHD, SSC

Indicator #	Indicator	Indicator reference	Intervention
	Violence (SGBV) as less acceptable after participating in or being exposed to USG programming		
79	PM14: Number of farmers who practiced value chain activities with USG assistance:	BHA	FLC, sorghum farmers
83	C23: Percent of participants reporting an increase in income as a result of USG assistance	Custom	Youth entrepreneur
85	C24: Percentage of households with an adequate knowledge and positive attitudes and practices related to financial services and entrepreneurship	Custom	Youth entrepreneur

Objectives

APD is seeking for a data analyst consultant to support with The primary goal of the assignment is to manage, process, and analysis the data that will be collected. The task involves data treatment explicitly, cleaning, processing, analyzing (descriptive, cross-tabulation, correlation, bivariate, multivariate, and regression analysis, weighting, etc.), and conducting various statistical tests such as confidence intervals and significance tests, p-value tests, standard deviations that generate accurate outputs.

The table below shows consultant responsibility.

Table 3: Scope of Work for Data analyst Consultant

No.	Activities	Responsibility
	Data analysis, production of estimates, and report writing	
	o Responding to all data queries during analysis and reporting	Consultant
	o Calculation and use of sampling weights	Consultant
	o Production of estimates and disaggregates of indicators that ensure complex sample design considered	Consultant
	o Production of confidence intervals and standard errors of indicator estimates	Consultant
	o Development of dashboard in Power BI by sector	Consultant
	o Submission of the report with findings to CRS	Consultant
	o Submission of documented data sets and syntax/do files to CRS	Consultant
	o Share of documented data sets where the identity of individual participant respondents has been anonymized or otherwise had their confidentiality protected	Consultant

Deliverables include:

- o All data files in R or STATA format (sampling frame[s], raw data sets, transformed data sets and syntax, edit rules, code book/data dictionary, sampling weights). The data sets must have all personally identifiable information removed. A version of the data sets must be provided in CSV format in accordance with the USAID Open Data Policy; data sets should not be provided in a format generated by proprietary software.
- o A power BI dashboard developed by sector that show indicators results and appropriate desegregation.

The duration of performance of this consultancy will be 2 months: August and September

Activity	Month 1				Month 2			
	w1	w2	w3	w4	w1	w2	w3	w4
Contact signature								
Familiarization with key documents (IPTT and PIRS)								
Review data quality control protocol								
Develop a data analysis Plan								
Data cleaning								
Data processing and analysis								
Draft Report and develop the dashboard								
Report Submission								

Required application documents for individuals.

- Letter of intent
- Detailed technical proposal including workplan and methodology.
- Detailed proposed budget for the service.
- CV with relevant diplomas

Essential Qualifications are required.

- Master's degree in statistics
- Proven strong experience in systematic data testing.
- Proven strong experience in experience in data processing and analysis of complex datasets on socio-economic, Agriculture and livelihoods and health and nutrition, anthropometric-related quantitative.
- Proven strong experience on using Power BI for accurate data visualization.
- Fluency in French & English