USER MANUAL

LivWell Visualization Platform

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FLARE's Livelihoods and Well-being tool

The LivWell tool consists of a survey instrument, a data visualization and analyses platform, and user manuals for organizations and enumerators. The survey and manuals can be accessed freely here: http://www.forestlivelihoods.org/resources/livwell/

If you have already collected your own data using the LivWell survey, please contact the LivWell team to register and get your data uploaded to the visualization and analysis platform (livwell.help@gmail.com). If you are interested in using the tool and haven't yet begun data collection, we strongly encourage users to REGISTER first. The benefits of registering include the ability to contribute to and access a growing database of global livelihood and well-being data. When you register, you will be assigned a project ID, and you will be asked if you are willing to make your data publicly available.

The LivWell tool platform allows users collect, manage, visualize and analyze household data (see figure 1). The questionnaire is categorised into demographics, education, income and expenditure, assets, credit and savings, household shocks and impacts, forest information, health and nutrition, forest governance, and subject wellbeing. These broad categories of data are foundational to assessing well-being and are comparable with data collected from the following nationally representative surveys: Demographic Health Surveys (DHS), Living Standards Measurement Surveys (LSMS), and Multiple Indicator Cluster Surveys (MICS)

Figure 1: LivWell data visualization platform

Figure 1

1. Data collection platform

The LivWell Data collection survey instrument was developed using ONA, an open source data collection tool. Features of data collection platform are as follows:

- [Data collection](#) on various aspects of well-being and forests
- Offline data collection on a tablet or smart phone
- Automatic data uploads when connected to internet
- Backend Database management at project level
- Semi-automated backend data preparation for data visualization tool
- [Guide](#) for enumerators and organizations

Figure 2: LivWell data collection platform preview

2. Data visualization platform

This platform allows user to visualize and analyse household data. Salient features of data visualization platform are as follows

- Provision of existing household survey data for comparative analyses
- Univariate, Bi-variate and Spatial analysis of existing and collected data
- Visualization of performance between Pre- intervention and Post-intervention
- Ability to handle both Panel and Cross-sectional data

The data visualization tool can be accessed here: http://flare-livwell.forgov.org/

Below we describe the function of each platform tab (Overview, Category, Cross Tabulation, and Spatial Analysis)

Overview

The Overview tab is the landing page of FLARE's data visualization platform. This tab describes about the FLARE's Livelihoods and Well-being tool (LivWell).

Figure 3: LivWell data visualization platform - Overview

Category

The category tab allows the user to perform univariate analysis by data category.

The user can visualize the data using filter by Data type, Country, and Project id.

For example, one might examine the distribution of %HH headed by sex, and compare with the distribution of %HH Migrated for a selected project.

Step 1. Select the category of data you are interested in visualizing.

Note: Upon selection of the Category and when Filter Options are selected, the platform will automatically adjust to include only the datasets that have that kind of data.

Step 2. Adjust your filtering options
- Data type
  - Panel data –These data contain observations of multiple phenomena obtained over multiple time periods

- o Cross-sectional – These data contain observations at the same point in time
- ● Country
  - o Data available for Ethiopia, Tanzania, Ghana, and Indonesia
- ● Project id
  - o Filter and visualize data by project ID (if applicable. Some countries may only have one project)
- ● Variables
  - o Select up to two variables of interest. A graph will be produced for each analysis
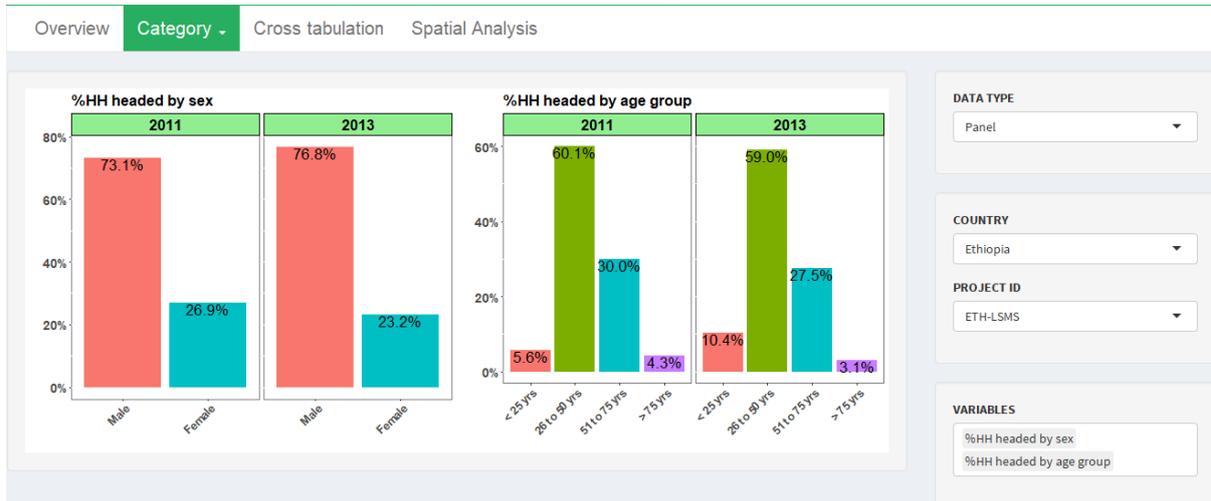

Figure 4: LivWell data visualization platform - Category

Cross Tabulation

Cross tabulation tab is designed to help the user to examine the relationship between two variables of his / her choice.

For example, one might examine the relationship between cash remittances and number of income sources.

Step 1. Adjust your filtering options is the same manner as you would in the Category tab

- ● Data type
  - o Panel data –These data contain observations of multiple phenomena obtained over multiple time periods
  - o Cross-sectional – These data contain observations at the same point in time
- ● Country
  - o Data available for Ethiopia, Tanzania, Ghana, and Indonesia
- ● Project id
  - o Filter and visualize data by project ID (if applicable. Some countries may only have one project)
- ● Variables
  - o Select up to two variables of interest. Select variables by typing the variable name into the window labelled "Variables." You will then see the available visualization options. You can select up to two variables in this manner.
  - o A graph will be produced for selection
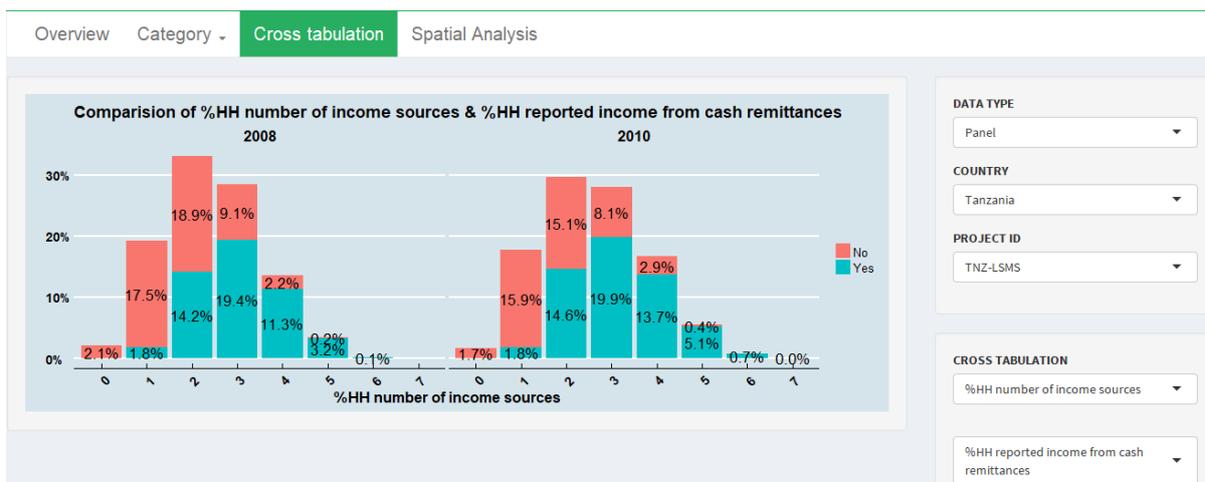
Figure 5: LivWell data visualization platform – Cross Tabulation

Spatial Analysis

The Spatial Analysis tab allows you to visualize certain variables across projects for a selected country. For example, one might examine %HH migrated (the percent of households with one or more members working outside the village) for Ghana during GLSS 4, GLSS 5, and GLSS 6. (Currently, spatial data is only available for 6 variables for Ghana).

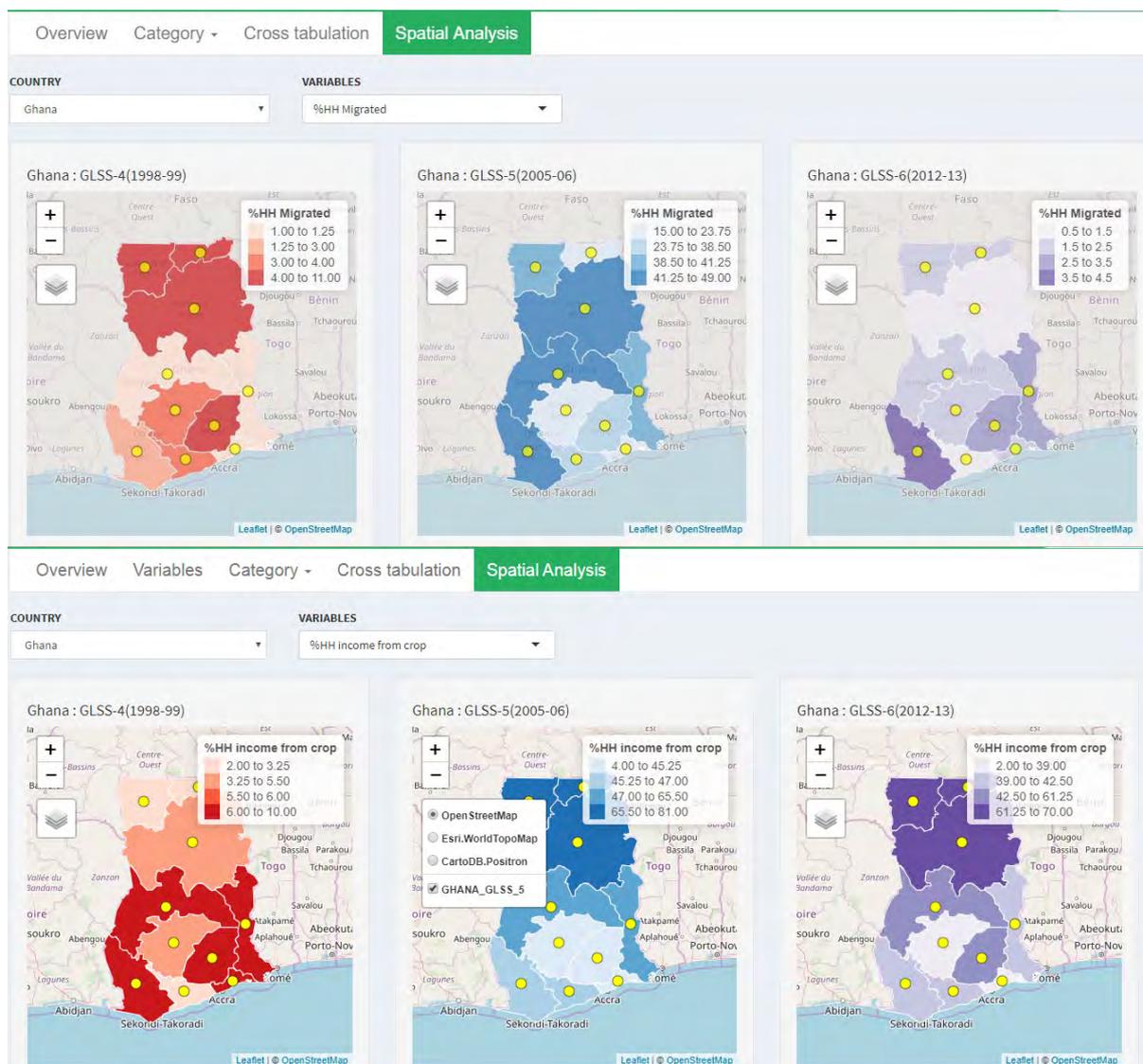*Figure 6: LivWell data visualization platform – Spatial Analysis*

Complete list of Possible Categories and Variables

Demographic

- %HH headed by sex
- %HH headed by age group
- %HH head by primary occupation
- %HH gender ratio (Female: Male)
- %HH dependent ratio
- %HH migrated
- %HH by number of income sources

Education

- %HH by child school attendance
- %HH members with 5+yrs educational achievement

- %HH household head completed years of education

Income sources
- %HH reported income from sales of crop
- %HH reported income from sales of livestock
- %HH reported income from sales of livestock products
- %HH reported income from On-farm wage
- %HH reported income from Off-farm wage
- %HH reported income from Off-farm salaried employment
- %HH reported income from Off-farm business
- %HH reported income from cash remittances
- %HH reported income from fishing
- %HH reported income from sale of timber products
- %HH reported income from sale of non-timber products
- %HH reported income from firewood and charcoal
- %HH reported income from milling/wood working
- %HH reported income from other artisan
- %HH reported income from rent
- %HH reported income from government support

Income and Expenditures
- Household Cash Income (last one year)
- Household Non-cash Income (last one year)
- Household Expenditure

Assets
- %HH own Small livestock,
- %HH own Medium livestock,
- %HH own Large livestock,
- %HH own Radio,
- %HH own Television,
- %HH own Refrigerator,
- %HH own Computer,
- %HH own Mobile phone,
- %HH own Motorbike or motorized boat,
- %HH own Car or truck,
- %HH own Tractor

Credit and Savings
- %HH own bank account
- %HH applied loan
- %HH used loan for Subsistence needs
- %HH used loan for Agricultural land
- %HH used loan for Agricultural machinery
- %HH used loan for Agricultural inputs
- %HH used loan for Livestock
- %HH used loan for Business
- %HH used loan for Housing
- %HH used loan for Education and Training

- %HH used loan for Health
- %HH used loan for ceremonies
- %HH used loan for vehicle
- %HH used loan for Other consumer goods
- %HH used loan for Other purposes

Shocks and Impacts
- %HH affected by Droughts
- %HH affected by Floods/storms/hurricanes
- %HH affected by Crop or livestock disease
- %HH affected by Economic shocks
- %HH affected by War/violence
- %HH affected by Other
- %HH experienced Loss of crops
- %HH experienced Loss of livestock
- %HH experienced Loss of employment
- %HH experienced Loss of land
- %HH experienced Dwelling damaged
- %HH experienced Loss of other assets
- %HH coped by harvesting forest products
- %HH coped by harvesting non-forest products
- %HH coped by harvesting agricultural products
- %HH coped by savings cash
- %HH coped by selling assets
- %HH coped by doing extra casual labor
- %HH coped by taking assistance from friends
- %HH coped by taking assistance community
- %HH coped by getting loan
- %HH coped by reducing household spend
- %HH coped by reducing food consumption
- %HH coped by purchasing product
- %HH coped by migrating other location
- %HH coped by changing occupation
- %HH coped by doing nothing
- %HH coped by other means

Health and Nutrition
- %HH lost work days owing to illness (last 12 months)
- %HH lost life (last 12 months)
- %HH not been able to satisfy food need (last 12 months)
- %HH visited to health facility (last 12 months)
- %HH difficulty seeing
- %HH difficulty hearing
- %HH difficulty walking
- %HH difficulty concentrating

Forest Information
- %HH accessed non-private forest

- %HH accessed private forest
- %HH hours spent in harvesting products (in a year)
- %HH involved in rules making
- %HH rated forest management
- %HH rated forest condition

Governance
- %HH attended village meeting (last 12 months)
- %HH attended Forest meeting (last 12 months)
- %HH attended district meetings (last 12 months)
- %HH attended Religious meetings (last 12 months)
- %HH attended associations meetings (last 12 months)
- %HH attended credit group meetings (last 12 months)
- %HH attended other meetings (last 12 months)

Dwelling Information
- HH% dwelling by walls types
- HH% dwelling by roof types
- HH% dwelling by floor types
- HH% with toilet facility
- HH% with sharing toilet facility
- HH% by main water sources
- HH% by primary sources of fuel

Well-being
- HH% Reported Happiness

Appendix
Variable definitions
Please refer the variable description in the data visualization tool (http://flare-livwell.forgov.org/)

Overview	Variables	Category ▾	Cross tabulation	Spatial Analysis

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	Variable	Variable.description	Derived.variable	Category
1	MHSEX	Gender of the Household Head	%HH headed by sex	Demographic
2	MHAGE	Age of Household Head	%HH headed by age group	Demographic
3	MHOCC	Primary Occupation of Household Head	Primary Occupation of Household Head	Demographic
4	MMBEL	Male(s) below 14 years old are there in your household	%HH gender ratio (Female : Male)	Demographic
5	MFBEL	Female(s) below 14 years old are there in your household	%HH dependent ratio	Demographic
6	MMABOV	Male(s) above 14 years old are there in your household	Number of Male(s) above 14 years old are there in your household	Demographic
7	MFABOV	Female(s) above 14 years old are there in your household	Number of Female(s) above 14 years old are there in your household	Demographic
8	MMIGRN	Household Members who have Migrated	%HH migrated	Demographic
9	MHEDU	Years of formal education has the Household Head completed	%HH household head completed years of formal education	Education
10	MHMEDU	Household Ratio of Educational Achievement (5+ years)	%HH members with 5+yrs educational achievement	Education

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