

From LogFrame to Database MEAL plan to Data Model

Starting shortly, please wait!

Presented by the ActivityInfo Team

All in one information management software for humanitarian and development operations

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Our key features \rightarrow Mobile data collection \rightarrow Data entry \rightarrow Data management \rightarrow Analysis & visualization	H2 Hunter Baltimburg Citega



BeDataDriven Mission



Provide the UN and NGOs with a standard, easy-to-use and comprehensive data management platform so that as many organizations as possible can become data-driven to achieve better outcomes for rights holders worldwide.

BeDataDriven pursues this mission by building and helping organizations implement ActivityInfo.



ActivityInfo An end-to-end solution for M&E data management





....built on a relational data model 4

ActivityInfo is your integrated solution for managing your data across the data lifecycle.



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From Logframe to Database





Meet your instructors





Eliza Avgeropoulou Senior Implementation Specialist BeDataDriven

Firas El Kurdi Implementation Specialist BeDataDriven



Outline

Introduction to case study

The importance of data model

How can we transform the MEAL to a data model?

Q&A

Setting the scene

How to adopt a Database ?



Identify the roles in terms of database adoption



Are we ready to design the database?



Understand the purpose and objectives: Theory of change Do we have a ToC? Do we have a pathway of change?



Understand data requirements: MEAL plan Do we have detailed implementation plan? Do we have MEAL plan? Have we checked the donor compliance, country and global compliance policies?



Gather requirements from stakeholders

Do we have data flow map? Do we have data collection forms and instructions?



Introduction to Case study

Food for Progress Project - USDA







Developing countries and emerging democracies



Modernize and strengthen the agricultural sector



Donated agricultural commodities are sold on the local market and the proceeds are used to support agricultural, economic, or infrastructure development programs.



Theory of change

Provide a stable source of fruits and vegetables for Mauritanians			
SO1: Mauritanians Increase productivity in mangoes, tomatoes, carrots, potatoes, and onions.	SO2: Mauritanians and Partners of the Americas create a more sustainable agricultural sector in the long-term		
IR 1.1 Mauritanians access agriculture related financing	IR 2.2 Mauritanians use of regenerative agricultural approaches		
Partners of the Americas provide targeted commodities	Partners of the Americas support the design of technologies and practices		
Partners of the Americas provide targeted agricultures with related financing			
XC IR Partners of Americas facilitate acce	ss to better support services for farmers		

Implementation process

How

- ✓ Provision of two different services type
 - Beneficiaries will receive targeted commodities and related financing
 - Beneficiaries will get access to generative agricultural approaches
- Beneficiaries will self registered in the project and then field teams will review and add the respective farm over remote and on site registration

Where

- ✓ Across various admin areas of Mauritania
- ✓ Information will need to be monitored up to forth admin level





Figure 30: Performance management plan template

Performance Management Plan								
Objectives Indicators statements (with definition as needed	Indicators (with	Data collection			Means of analysis		Use of information	
	as needed)	Method	Frequency	Person who will collect data	Respondents (who to talk to)	Type of analysis	Subgroups (strata)	for communication and decision- making
Strategic objective 1								
Strategic objective 2								
Intermediat e result 1.1								
Intermediat e result 2.1								
Output 1.1							a	
Output 2.1							10 12	
Key assumptions								
Assumption 1.								
Assumption 2.								

A guide to the MEAL DPro <u>https://mealdpro.org/</u>1

Overview of MEAL Plan

	Indicators	Calculation	Responsibilities	Data Use
SO 1	Yield of targeted agricultural commodities among program participants with USDA assistance	Yield per hectare=Total Production (PT) / Total Production Units (PU) PT: Metric tons (tm) PU: Hectares (ha) Dis: Farm size, gender, age	Field staff collect shortly after harvest targeting the primary recipient using quantitative surveys Sample based on farm records. MandE specialist responsible for analysis and reporting	Donor reporting on annual basis
IR 1.1 Number of individuals accessing agriculture related financing as a result of USDA assistance Uni indi indi indi indi indi indi C: ActivityInfo ActivityInfo		Unique count of individual farmers, cooperatives, suppliers, SMEs access financing (i.e. borrowing in cash or kind, official loans, non borrowing such as	Field staff identify all individuals and organizations and collect basic information. They assess whether participants accessed funding during the reference year via structure questionnaires.	Internal Monitoring on monthly basis
		leasing	MandE specialist responsible for analysis and reporting	

The role of data model

What is a data model?







Moving from MEAL plan to Data flow

Moving from the MEAL plan to Data Model

Pre Work

- Implementation objective
- User groups and permissions
- ✓ Integration requirements
- ✓ Identify master data
- Identify operational data
- Identify type of analysis needed

Data Flow

- ✓ Who collects information?
- Who accesses information?
- ✓ Which type of information?

Data Model

- ✓ Identify forms
- ✓ Identify fields of each form
- ✓ Identify unique identifiers of each form
- ✓ Identify relationships
- \checkmark Identify the reports needed



Objective, user groups and integration requirements

Use cases	 (1) Streamline data collection (2) Improve data accurancy and consistency (3) Use timely the analysis for evidence based-decision making (4) Reduce time needed for analysis and reporting
User groups	 (1) M&E Supervisors overview of data collection responsible for data analysis and reporting responsible for database design (2) MandE officers Validate surveys Manage reference/operational data (2) Project Manager need to be able to see donor and internal reports need to overview the data for audit purposes (3) Field Teams need access per location in to be able to add , view and edit their own records
Integration requirements	Does not apply - all relevant analysis will be performed within the database

Determine master and reference data





Determine master and reference data





How do we make associations?



Subform fields

- you want to create a **parent-child** relationship between a two records
- related data is dependent on another, in other words, the subrecord would not make sense without being attached to the parent record



How do we make associations?



Reference fields

- data are **known** in advance and managed centrally
- data is **shared** across multiple forms
- you want to **better manage** a long list of options
- you need to **make updates** to the reference data that will be **reflected in various forms**
- you want to **manage data** to be used for categorization of other information e.g. geographic locations



How do we make associations?



Reference fields

- data is **shared** across multiple forms
- you need to make updates to the data that will be reflected in various forms
- We need to reduce information collected at previous stages of data collection processes by other teams



Define type of analysis

Donor Report

- Cumulative progress to target
- Cumulative deviation from baseline
- Requires aggregation from the data collection forms
- Disaggregation according to MEAL plan

Monitoring Report

- On a monthly basis, aggregation of beneficiaries according to disaggregation of sex, age group and admin4 level
- On a monthly basis, aggregation of farms according to size and type of hectares

It is recommended to visualize the type of analysis needed



Define the data flows





Define the data flows per role: MEAL officers





Define the data flows per role: Field officers





Define the data flows per role: supervisor and manager





Define the data flows per role: non system users



How do we perform data collection?

- Web application?
- Mobile application?
- Collection links?
- Offline/online?

The Beneficiaries complete a self registration



Define the tables, fields and the associations





Key Messages

- Important to consider whether our project is "ready"
- Consider the data collection processes
- Consider the roles and responsibilities that staff have on:
 - Implementation and adoption of the database
 - Implementation of data collection and analysis
- The type of analysis needed is considered as the final "reality check"
- The data model is the "Key" process to a successful and sustainable implementation of an information system



Questions?

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Food for Progress Project

