



# ***Development of a National M&E Framework for WASH activities in Malawi***

**Rural Water Supply and Sanitation M&E  
database**

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Presented by:

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# Background

- ▶ Lack of information at district level affected planning & implementation of water supply and sanitation programmes
- ▶ Non standardised data on sanitation was being collected by districts
- ▶ No complete and updated national water supply and sanitation inventory



# Administrative Structure

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- ▶ National Government-MoWD&I
- ▶ Regional Offices(3)
- ▶ Local government( districts-28)

## Past Monitoring System

- Content: non standardized data
  - Collection process: EW-supervisors-DO-RO-NO
  - Database: HMIS
  - Role of local govt: data collection, analysis and dissemination
  - Use of results: sharing with DPs, National govt and implementing district investment plans
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# Current Process and Objectives

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- ▶ Rural district initiated process in 2009.
- ▶ The process is designed to provide regularly updated information on water point location and functionality in the district.
- ▶ The process is owned by districts to assist in decision-making and planning



# How is the data collected

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- ▶ Water point data and sanitation is collected by an existing network of Health Surveillance Assistants.
- ▶ An additional form has been included with their routine data collection activities, tracking functionality.
- ▶ The process does not require GPS coordinates
- ▶ Indicators have been standardised



# Development of a National M&E Framework

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- ▶ Since 2009 there has been a three phase collaboration to develop a National M&E Framework:

Ministry of Health (MoH), Ministry of Water Development and Irrigation (MoWDI) Multiple Districts
Engineers Without Borders Canada (EWB) WaterAid Malawi (WAMA) Key Development Partners



## Main Objectives :

- ▶ To **address the needs** of the various stakeholders
- ▶ To define and harmonize **indicators**
- ▶ To develop an easy to use **information gathering and analytical system**; and
- ▶ To capitalise on the **existing capacity** of the users



# Three Phases of the Initiative

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## ▶ Phase I

- ▶ explored the requirement of a monitoring system from a district government perspective.

## ▶ Phase II

- ▶ the Ministry of Health piloted an iterated version of the database and designed templates for analysis and mapping

## ▶ Phase III

- ▶ the Ministry of Water Development and Irrigation is standardizing the system with all Districts in the country in coordination with the Ministry of Health



# Challenges and Solutions for M&E Development

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- ▶ System design: starting at grassroots
- ▶ Coordination: involving multiple stakeholder interests
- ▶ Linking local to national: ongoing interaction and support





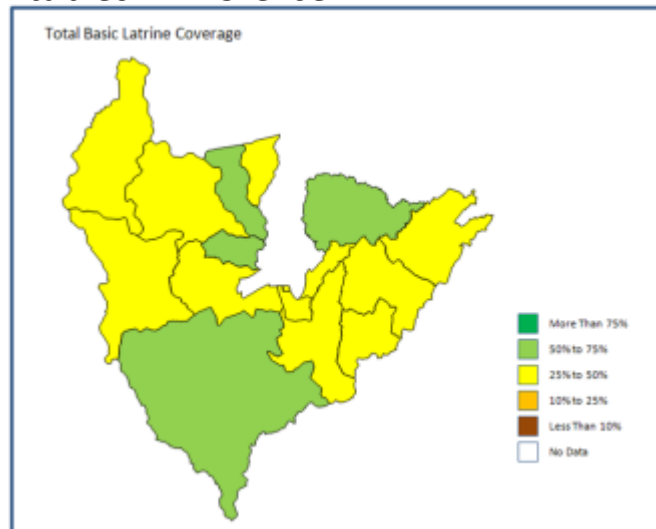
Step 1. HSA completes community data form (2 pages) in their villages of responsibility.

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Step 2. Data is entered into a simple MS-excel spreadsheet.

Step 3. Data automatically populates an analysis template built using pivot tables in MS-excel.



Row Labels	Values		Basic Latrine (Permeable Floor, No DHC)	Basic Latrine (Permeable Floor, w/ DHC)	Basic Latrine (Impermeable Floor, No DHC)	Total Basic Latrine Coverage	Total Improved Latrine Coverage	Total Latrine Coverage	Handwashing Facility Coverage	Triggered in CLTS	ODF	Water Coverage (Functional w/ Clean Surroundings)	Water Coverage (Functional WPs)	Water Point Functionality Rate	Water Point w/ Clean Surroundings
	Population	Household													
Chadza	75240	15048	16%	15%	13%	44%	66%	57%	47%	27%	61%	70%	113%	73%	44%
Chimutu	64595	12919	18%	18%	17%	53%	79%	68%	43%	30%	49%	87%	134%	72%	44%
Chiseka	59081	11816	20%	21%	17%	58%	82%	71%	50%	33%	36%	94%	153%	73%	42%
Chitsekwele	71878	14376	16%	17%	14%	47%	73%	61%	44%	30%	52%	72%	116%	71%	41%
Chitukula	78727	15745	15%	15%	13%	43%	66%	56%	45%	30%	55%	67%	111%	73%	42%
Kabudula	79411	15882	14%	14%	12%	40%	65%	53%	43%	33%	60%	77%	120%	72%	43%
Kalolo	72378	14476	16%	17%	15%	48%	72%	62%	47%	30%	61%	77%	127%	74%	43%
Kalumba	77301	15460	15%	15%	13%	43%	68%	56%	47%	34%	48%	67%	112%	72%	42%
Kalumbu	75981	15196	16%	16%	13%	45%	69%	58%	41%	28%	57%	61%	107%	74%	41%
Khongoni	69307	13861	15%	16%	15%	46%	73%	60%	46%	42%	62%	69%	122%	72%	40%
Mailili	68183	13637	17%	17%	14%	48%	69%	62%	43%	36%	50%	73%	121%	70%	41%
Mazengera	80102	16020	15%	15%	12%	42%	62%	54%	50%	42%	42%	67%	110%	72%	42%
Mtama	63272	12654	18%	18%	16%	53%	78%	69%	45%	42%	53%	87%	140%	71%	42%
Njewa	64325	12865	18%	19%	16%	53%	74%	69%	45%	44%	47%	90%	145%	74%	44%
Tsabango	69156	13831	16%	16%	14%	46%	73%	61%	46%	24%	42%	81%	128%	72%	44%
Grand Total	1068937	213287	16%	16%	14%	47%	71%	61%	46%	34%	52%	75%	123%	72%	43%

Step 4. Data calculated using the templates can be visualized on a district map outline directly within the MS-excel program. Each block represents a Traditional Authority within the District. A map can be generated for each indicator using a drop down menu.

# Detailed Community Indicators

General		Sanitation/Hygiene and Waste		Water Supply		CLTS and ODF	
Date of Data Collection	TA	Unsatisfactory Latrines	Hand Washing Facilities without Soap	F BHs With Clean Surroundings	NF Individual Taps	Triggered in CLTS (Yes = Y, No = N)	Awaiting Verification? (Yes = Y, No = N)
Name of HSA	TA Code	Basic Latrines (Permeable Floor, No DHC)	Hand Washing Facilities with Soap	F BHs Without Clean Surroundings	F Protected Shallow Wells With Clean Surroundings	Date Triggered	Verified ODF (Yes = Y, No = N)
HSA Phone Number	Health Center	Basic Latrines (Permeable Floor, with DHC)	Number of Households with Properly Functioning Waste Management System	NF BHs	F Protected Shallow Wells Without Clean Surroundings	Triggering Funded by:	Date Declared ODF
Name of Village	Health Center Code	Basic Latrines (Impermeable Floor, No DHC)		F Communal Taps/Kiosks With Clean Surroundings	NF Protected Shallow Wells	Date of Follow-up 1	Verified ODF ++ (Yes = Y, No = N)
Village Code	Village Population	Improved Latrines (Impermeable Floor, with DHC)		F Communal Taps/Kiosks Without Clean Surroundings	F Protected Springs With Clean Surroundings	Date of Follow-up 2	Date Declared ODF ++
GVH	Number of Households	Composting Latrines (EcoSan)		NF Communal Taps/Kiosks	F Protected Springs Without Clean Surroundings	Date of Follow-up 3	
GVH Code		Households With Flush Toilets		F Individual Taps	NF Protected Springs	Date of Follow-up 4	

DHC= Drop Hole Cover, F= Functional, NF= Non-Functional, BH= Borehole, ODF= Open Defecation Free

## The M&E System is...

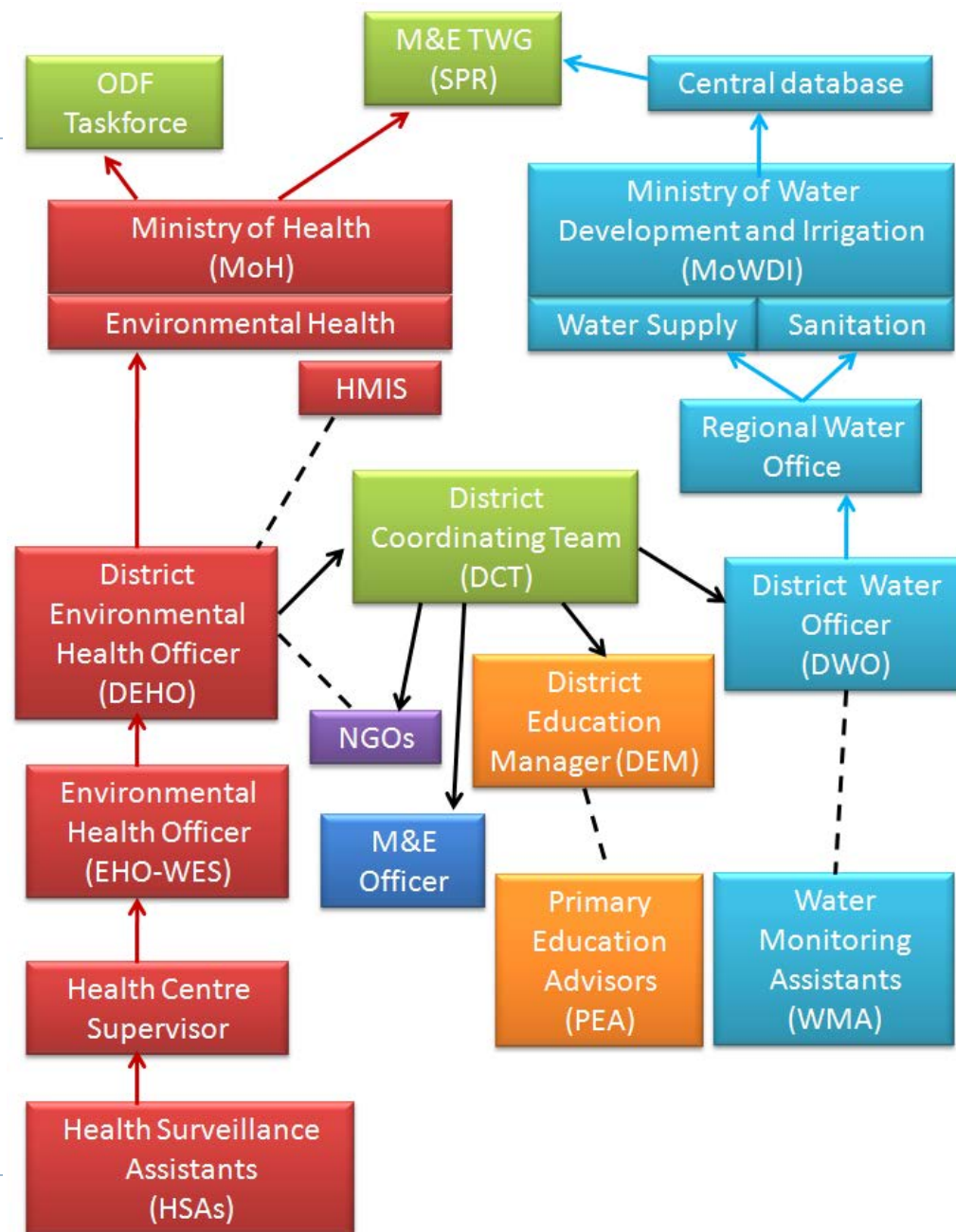
- ▶ A Village based system
- ▶ A majority sample of district rural WS (coverage and functionality) and Sanitation data
- ▶ Collected every 6 months
- ▶ Standardized forms and template for data collection
- ▶ A District tool to enable evidence based decision making for service delivery
- ▶ A simple and sustainable way to collect RWSS data utilizing district extension workers
- ▶ A means to build computer and data use capacity at the National and District level

## The M&E system is not...

- ▶ A water-point based system
- ▶ A complete catalogue of WASH infrastructure
- ▶ Able to link directly with GIS data
- ▶ Inclusive of Irrigation, Water Resources, Urban WS and Sanitation
- ▶ Inclusive of all Water Supply Indicators (only coverage and functionality)
  - ▶ A point in time data collection will be done for additional Water Supply data requirements.
- ▶ Able to answer **'all' programme specific** data requests from individual NGOs

# Information Flow

- ▶ **Proposed Information Flow Pathway**
- ▶ Primary Community Data Collection by MoH line (red)
- ▶ Shared with MoWDI at District Level through the DCT
- ▶ Reporting to line ministry directly
- ▶ Sharing at National Level



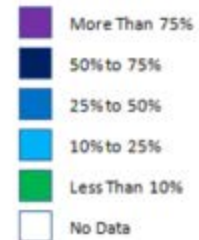
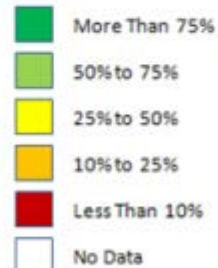
# Use and Reporting

- ▶ Example of reporting potential

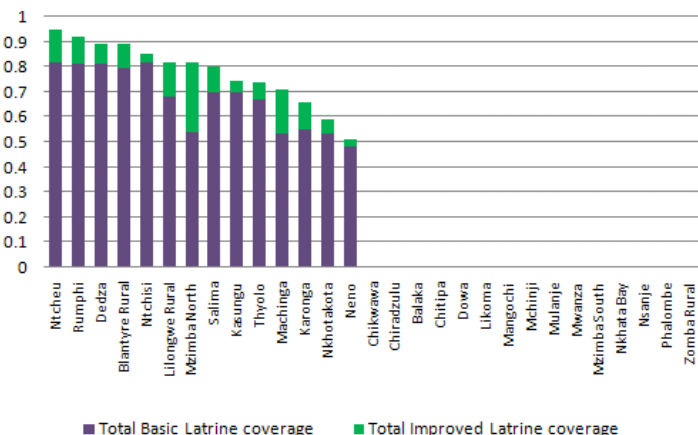
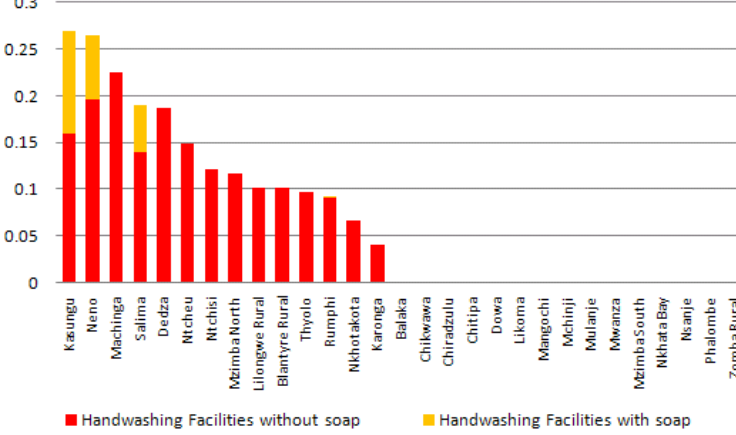
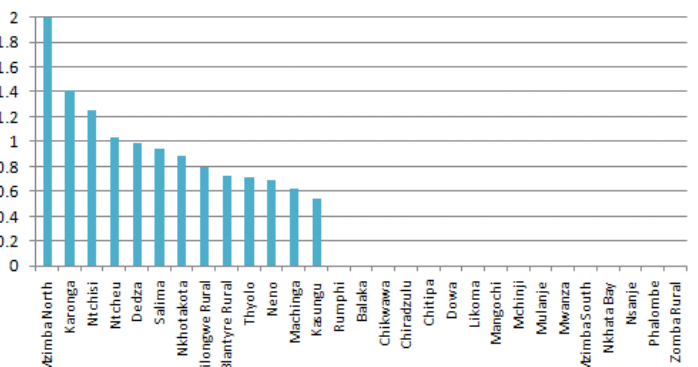
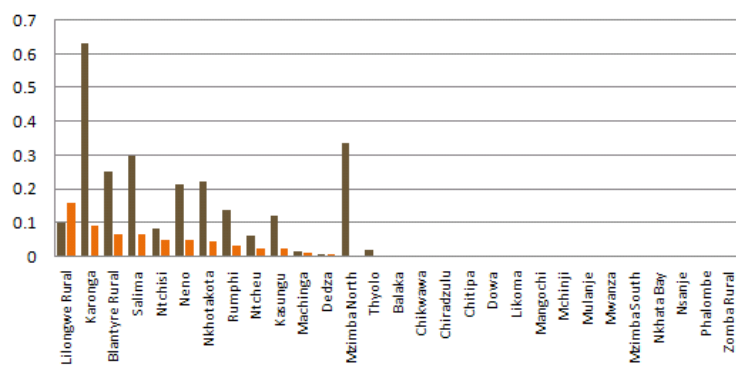
Total Improved Latrine coverage



Water Coverage (Functional)



# National Report – June 2013 Data

Data Received From Sept. 2013			Latrine Coverage		Handwashing Facility Coverage	
	Yes	No				
Balaka						
Blantyre Rural						
Chikwawa						
Chiradzulu						
Chitipa						
Dedza						
Dowa						
Karonga						
Kasungu						
Likoma						
Lilongwe Rural						
Machinga						
Mangochi						
Mchinji						
Mulanje						
Mwanza						
Mzimba North						
Mzimba South						
Neno						
Nkhata Bay						
Nkhotakota						
Nsanje						
Ntcheu						
Ntchisi						
Phalombe						
Rumphi						
Salima						
Thyolo						
Zomba Rural						
			Water Coverage (Functional with Clean Surroundings)		ODF Status	
						

# Summary of Associated Costs for SWSME

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- ▶ Development budget = US\$ 147 350 (3 pilot districts)
  - ▶ Rolling out budget = US\$78 550 (28 districts, 3 city councils and 2 waterboards)
    - ▶ Transport = US\$8 880
    - ▶ Accommodation = US\$68 920
    - ▶ Stationery = US\$750
- Total = US\$ 304,450**





# Key Findings of the Framework

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1. The monitoring system takes existing resource constraints into consideration to encourage systemic data collection.
2. Motivation decreases when there is no formal accountability structure.
3. WASH Data is used by multiple ministries, district departments and external parties.
4. The system must be simple and easy to use
5. Indicators collected need to be prioritized by use for service delivery decision making.





## Key Findings of the Framework (cont'd)

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6. Indicators must be clearly defined
7. There is a high probability for error in data. There needs to be structures in place to verify authenticity of data.
8. Data collection and particularly data entry is a large time requirement that needs to be understood and planned for by management.
9. Resources constraints are a barrier to data collection activities.
10. Formalized communication structures are needed between the Ministries regarding M&E



# Conclusions

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- ▶ The Malawi National Rural Water Supply and Sanitation M&E framework development has enabled a system that is adaptable, easy to use, and relevant to the sector players who use it,
- ▶ Integration of the various initiatives resulted in a Phased approach where the lessons learnt from each step can be built upon instead of being continuously repeated from scratch.
- ▶ By building the Framework on existing capacity (including financial, human resource, and time constraints) of the users it has to be easily transferable and utilized to make decisions and report on WASH service delivery.



# THANK YOU

