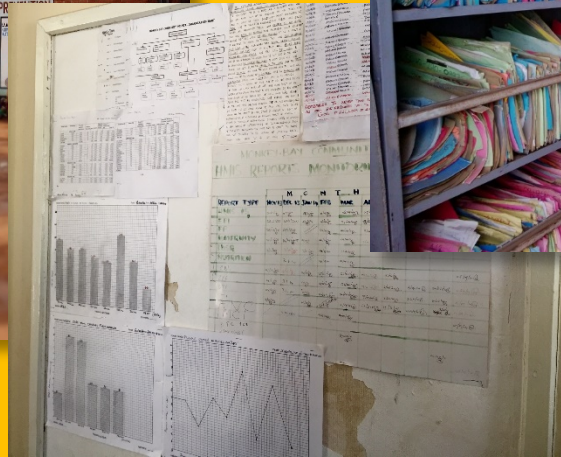


# 360 Country Perspective on Digital Health Development

## Malawi Case Study

A photograph of a document titled "Ministry of Health HIV Care Clinic Register". The document includes fields for Register No., Clinic Name, District, Date Register Starts, and Date Register Closes. Handwritten details include "C4" for Register No., "MUSOMBO" for Clinic Name, "LILONGWE" for District, and "15 December 2011" for Date Register Starts. The document is dated "Version 1 (July 2011)".

GOVERNMENT OF THE REPUBLIC OF MALAWI



COOPER / SMITH

# Session Format

- Moderator: Introduction & Overview (5 mins)
- Panelists Discussion (40 mins)
- Audience Questions (15 mins)
- Moderator close (2 mins)

# Overview

- ❑ There is a lot of opportunity to transform health systems with digital technology.
- ❑ Given all the possibilities, how does a country select & prioritize its health technology activities?
- ❑ How has Malawi created a cohesive vision and actionable strategy?
- ❑ What are the challenges, lessons learned, and successes that Malawi can share from its experience to date with other countries?

# Five Domains

- 1) **Policy & Vision**
- 2) **Coordinating Partners & Stakeholders**
- 3) **Data Quality & Streamlining**
- 4) **Technology & Tools**
- 5) **Data Use & Decision-making**



# 1) Policy & Vision

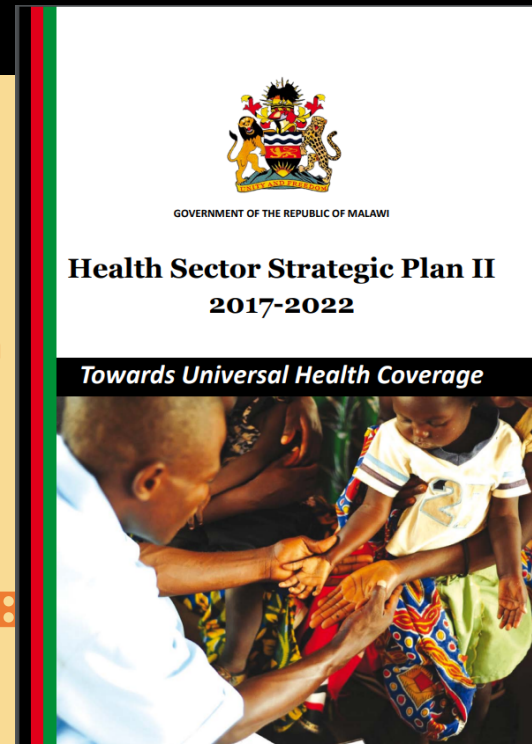
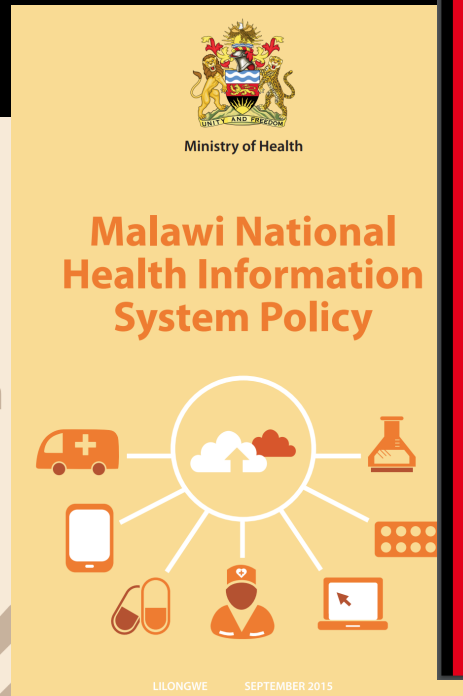
What does the enabling policy look like?

What kind of structures, approaches, incentives can be used to realize the benefits of digital solutions?

## The Malawi National eHealth Strategy

2011 - 2016

April 2014

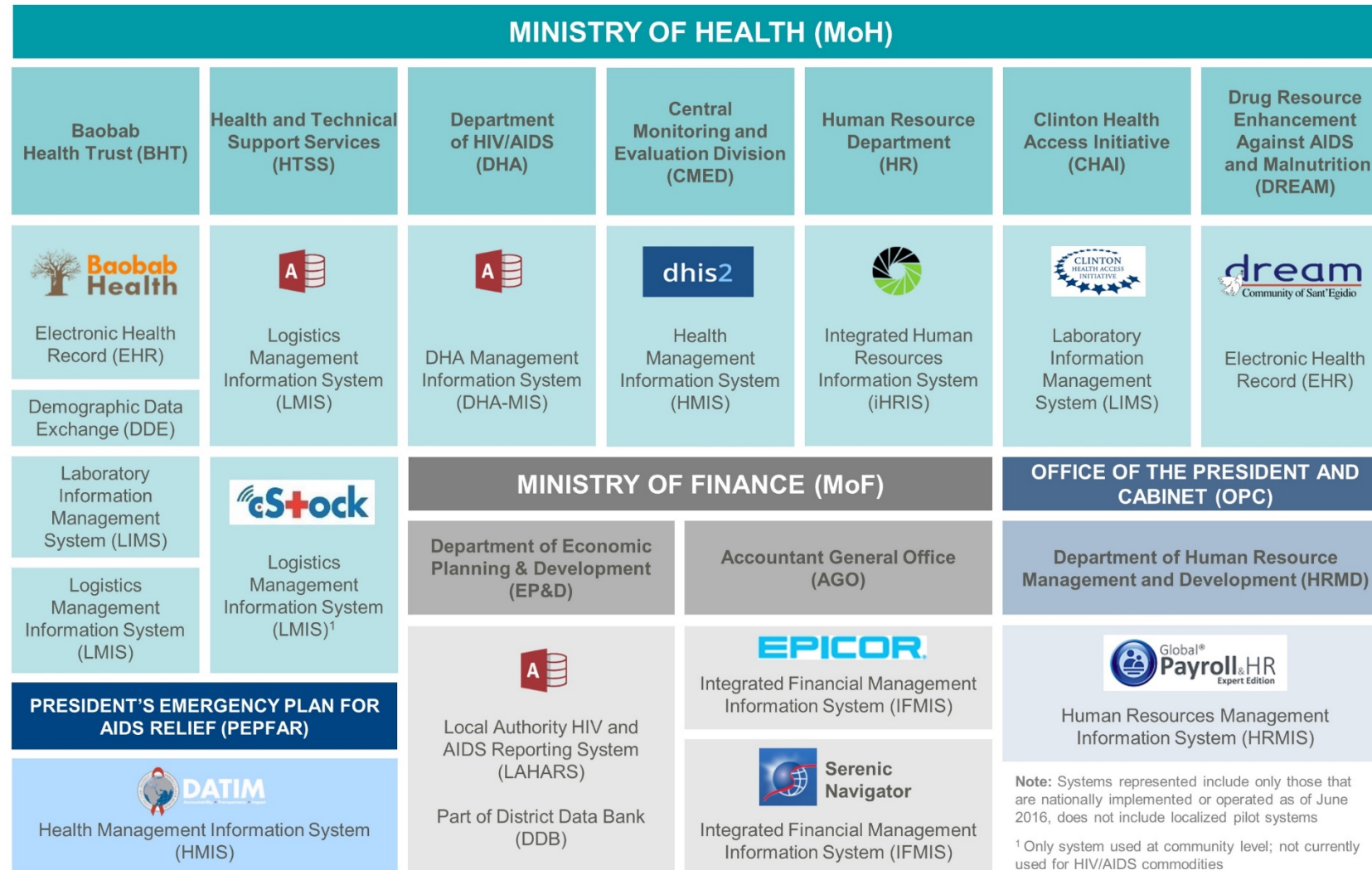


Director of Policy & Planning,  
Ministry of Health:  
Emma Mabvumbe



## 2) Coordinating Partners & Stakeholders

### Electronic Health Information System (HIS) Landscape for HIV/AIDS in Malawi



Note: Systems represented include only those that are nationally implemented or operated as of June 2016, does not include localized pilot systems

<sup>1</sup> Only system used at community level; not currently used for HIV/AIDS commodities

<http://www.vitalwave.com> © 2016 Vital Wave

How do partners align & coordinate?

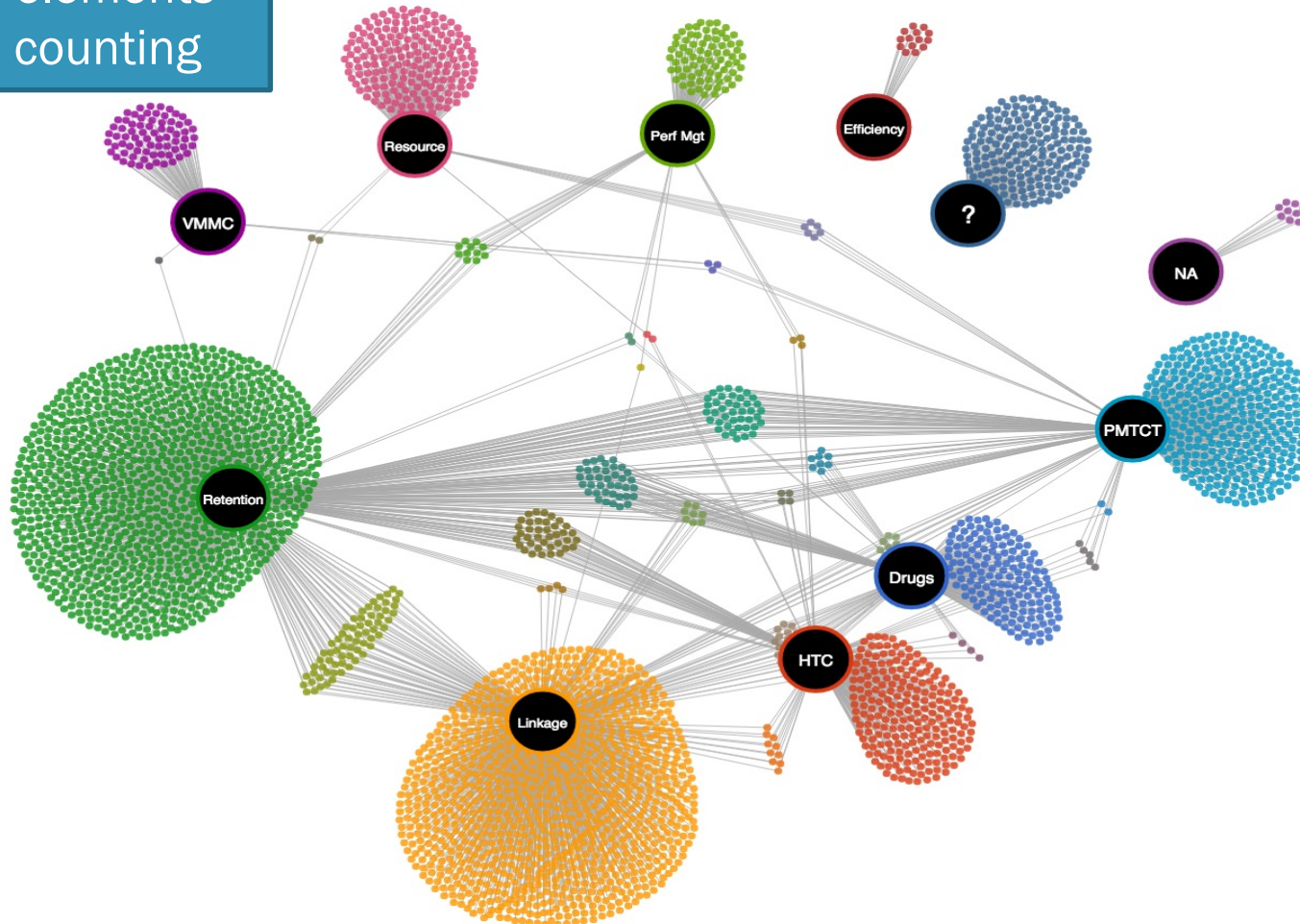
Director of Policy & Planning,  
Ministry of Health:  
Emma Mabvumbe



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### 3) Data Quality & Streamlining

Over 5,000 +  
health related  
data elements  
and counting



How to consistently  
improve data quality &  
reduce production  
burden?

Central Monitoring & Evaluation  
Division, Ministry of Health:  
Simon Ndira (GIZ TA)





## 4) Technology & Tools

What technologies & tools are being used?



Baobab Health Trust , Executive  
Director: Martha Kwataine

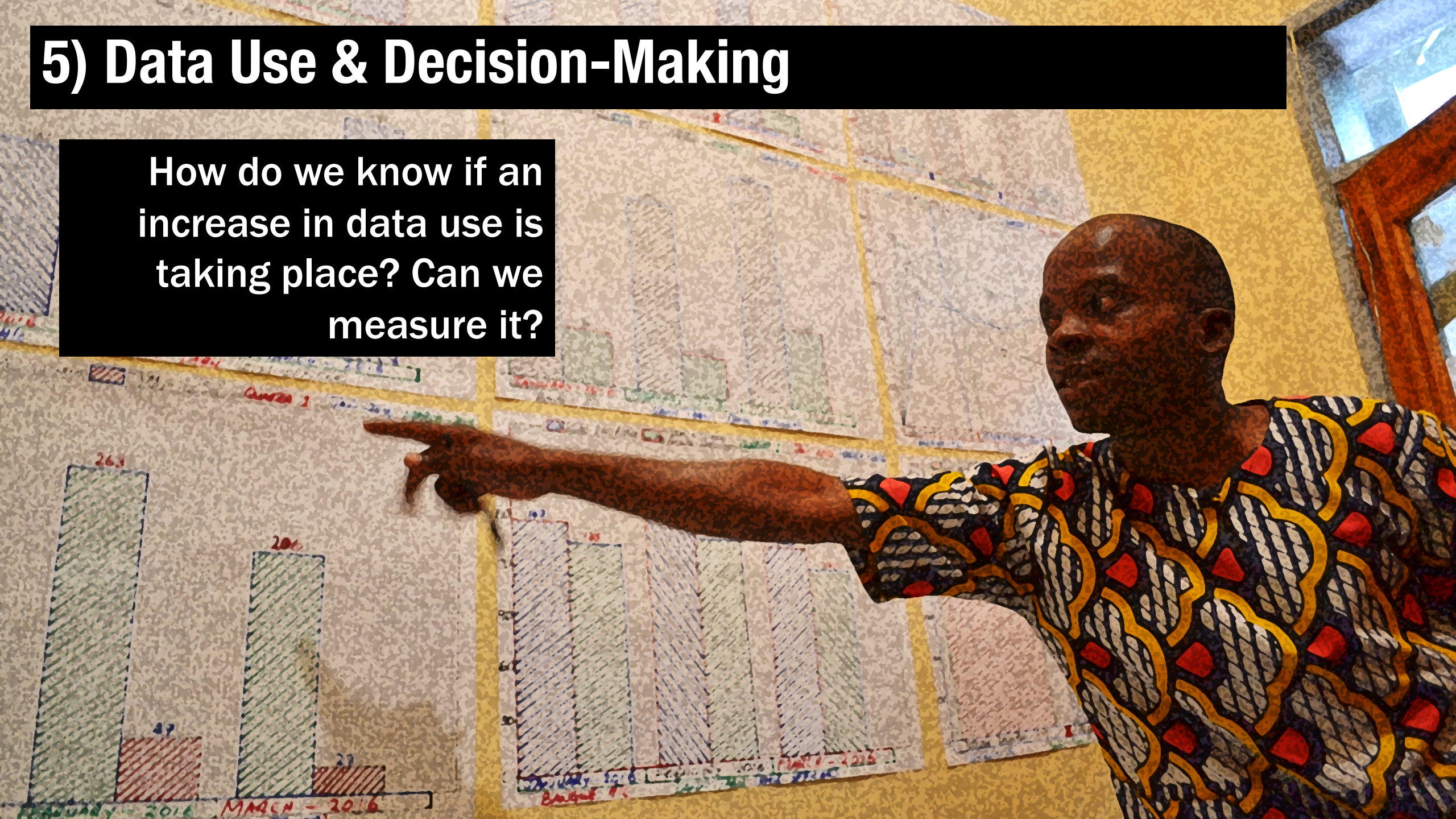


Luke International Norway – Malawi:  
Technical Advisor: Joseph Wu



## 5) Data Use & Decision-Making

How do we know if an increase in data use is taking place? Can we measure it?





## Appendix





Ministry of Health

## Malawi National Health Information System Policy

Information for action, action for improving efficiency, quality and equitable coverage

**Purpose:** Provision of information for evidence-based decision making in the planning and management of health services.

**Vision:** A health sector with quality health management information ensuring each management decision is evidence-based.

**Mission:** To continuously strengthen the capacity of information producers and information users to exploit their full potentials in enhancing quality and making the best use of health information.

**Objective:** To generate quality information (accurate, complete, timely, relevant, and reliable) and make them accessible to all intended users.

**Overall guiding principles:** The policy takes into account the 5-Point Call to Action and the Common Agenda for Measurement and Accountability for Results in Health in the post-2015 SDG era and is valid for public and private health sector alike.



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### Selected Policy Stipulations

- 1 The responsibility to coordinate data collection, consolidation, analysis and dissemination is vested with CMED.
- 2 HIS resources and infrastructure to be coordinated by CMED in collaboration with the MOH ICT Department through the HI TWG.
- 3 All systems used for data collection shall be designed in compliance with approved national standards and guidelines on health data management.
- 4 A comprehensive list of national health indicators shall be maintained and these shall inform data sources.
- 5 Data privacy and confidentiality shall be enforced without compromising safety and knowledge sharing.
- 6 Designated focal persons shall be responsible for compiling data at health facility / Institution level and generating detailed and summary reports for analysis.
- 7 Each health institution or office shall conduct appropriate data analysis responding to pertinent key performance questions.
- 8 The head of facility and all administrative staff shall be fully accountable for quality of data they disseminate.
- 9 Each health facility or office is responsible for safe data storage and easy retrieval of their records; and any health related data shall be stored only within the borders of Malawi.
- 10 Use of data shall be limited only to the purpose it was intended. Access to personal data by research shall require ethical clearance.
- 11 The ownership of any health data shall rest with MOH.

HSSP M&E Costing Summary- Malawi

Enter Cost

Budget Difference

Projected Budget	(Projected minus expenses)	(\$129,803,181)
Actual Commitments	(Actual minus expenses)	(\$46,699,534)
Difference	(Actual minus projected)	\$83,103,647

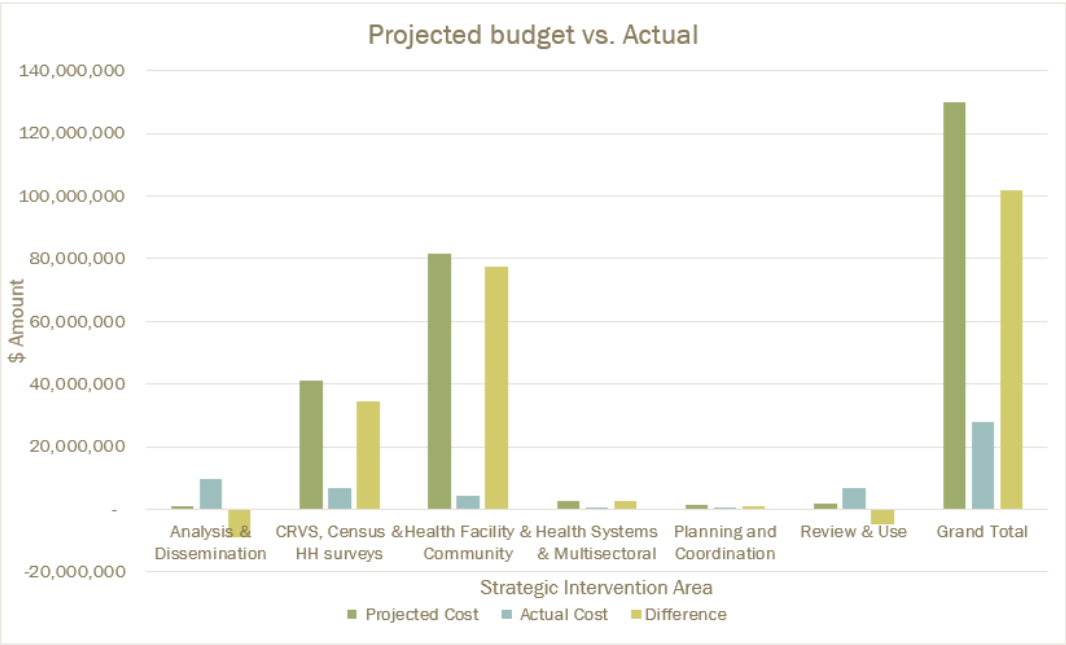
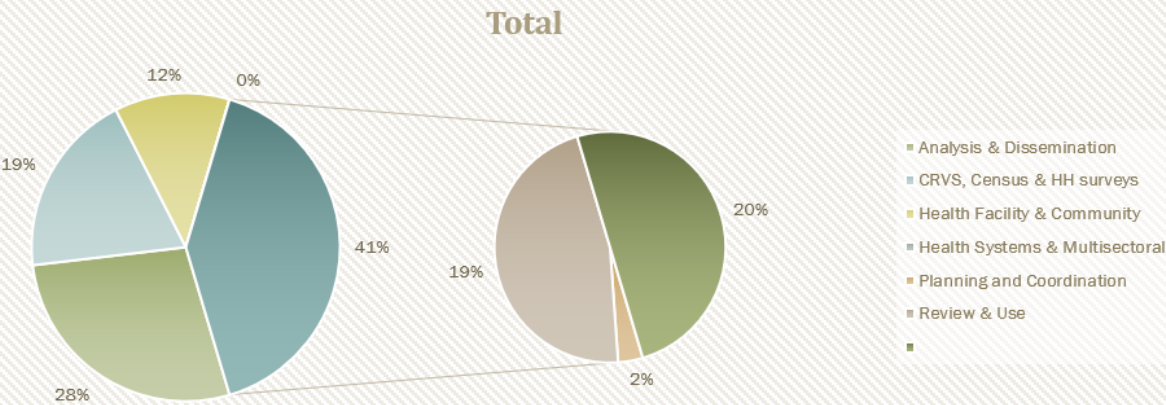
Projected vs. Actual Cost

Total Partner Commitments	\$46,699,534
---------------------------	--------------

MoH Projected Budget	\$129,803,181
----------------------	---------------

Strategic Intervention Area Summary

Strategic Intervention Area	Projected Cost	Actual Cost	Difference
Analysis & Dissemination	1,067,000	9,766,283	-8,699,283
CRVS, Census & HH surveys	41,165,166	6,824,693	34,340,473
Health Facility & Community	81,524,715	4,251,876	77,272,839
Health Systems & Multisectoral	2,515,000	6,685	2,508,315
Planning and Coordination	1,509,200	498,593	1,010,607
Review & Use	2,022,100	6,692,661	-4,670,561
Grand Total	129,803,181	28,040,791	101,762,390



# What were the top decisions identified?

Click on a goal or level to filter the list of decisions ranked by the number of times that decision was associated with that goal or level or click on a decision to see which goals and levels were associated with that decisions. Double click to undo.

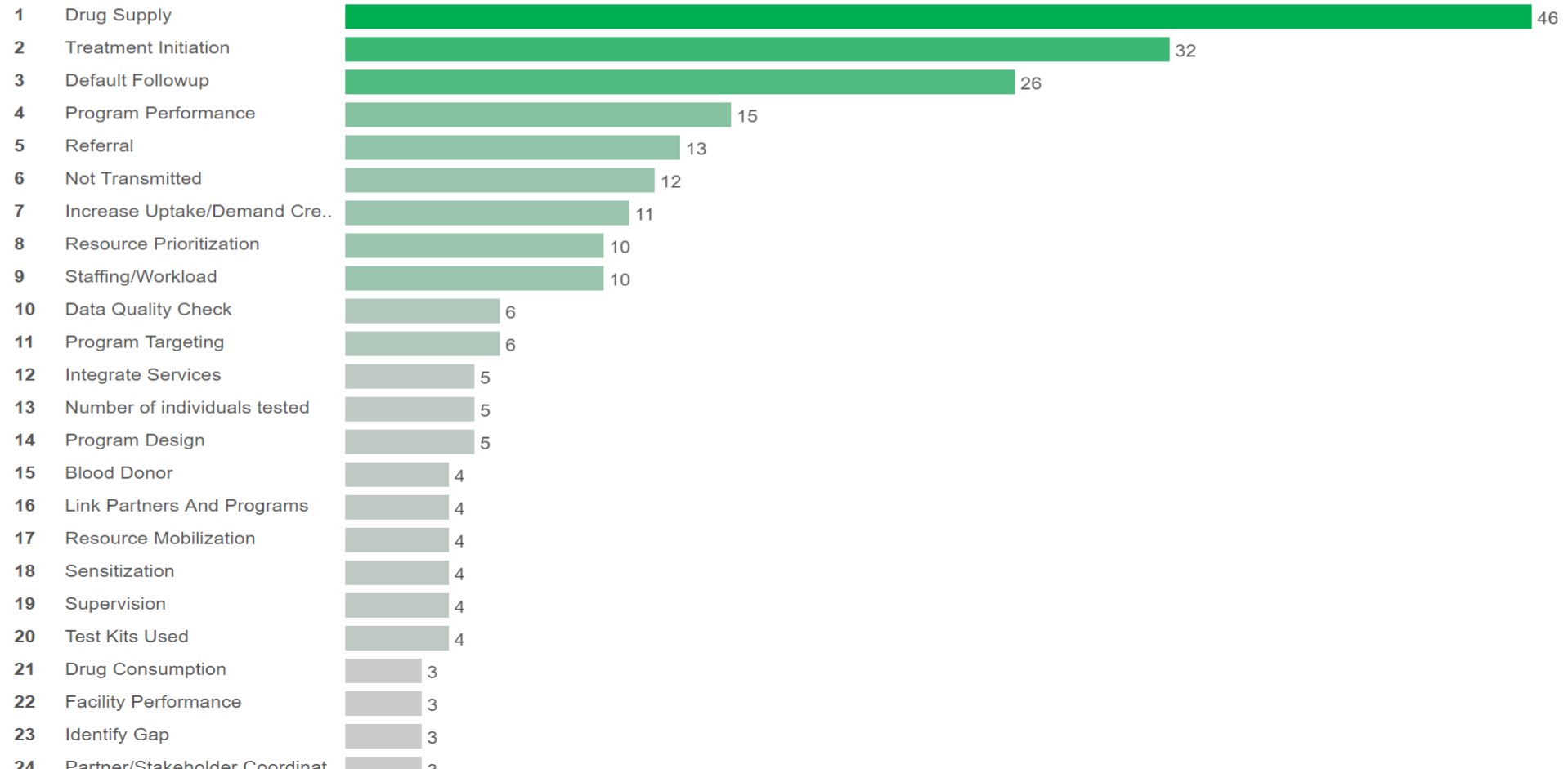
## GOALS



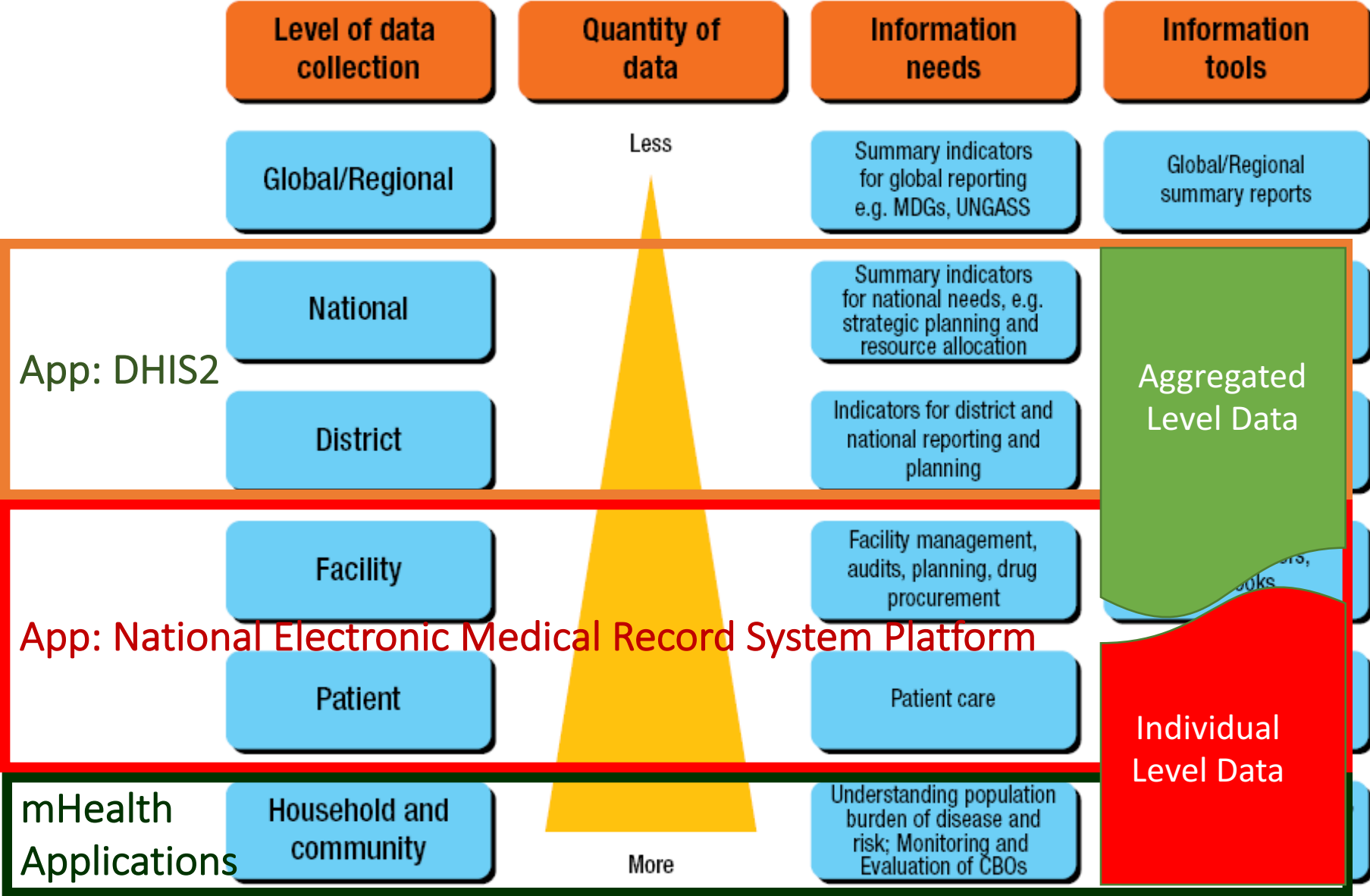
## USER LEVELS



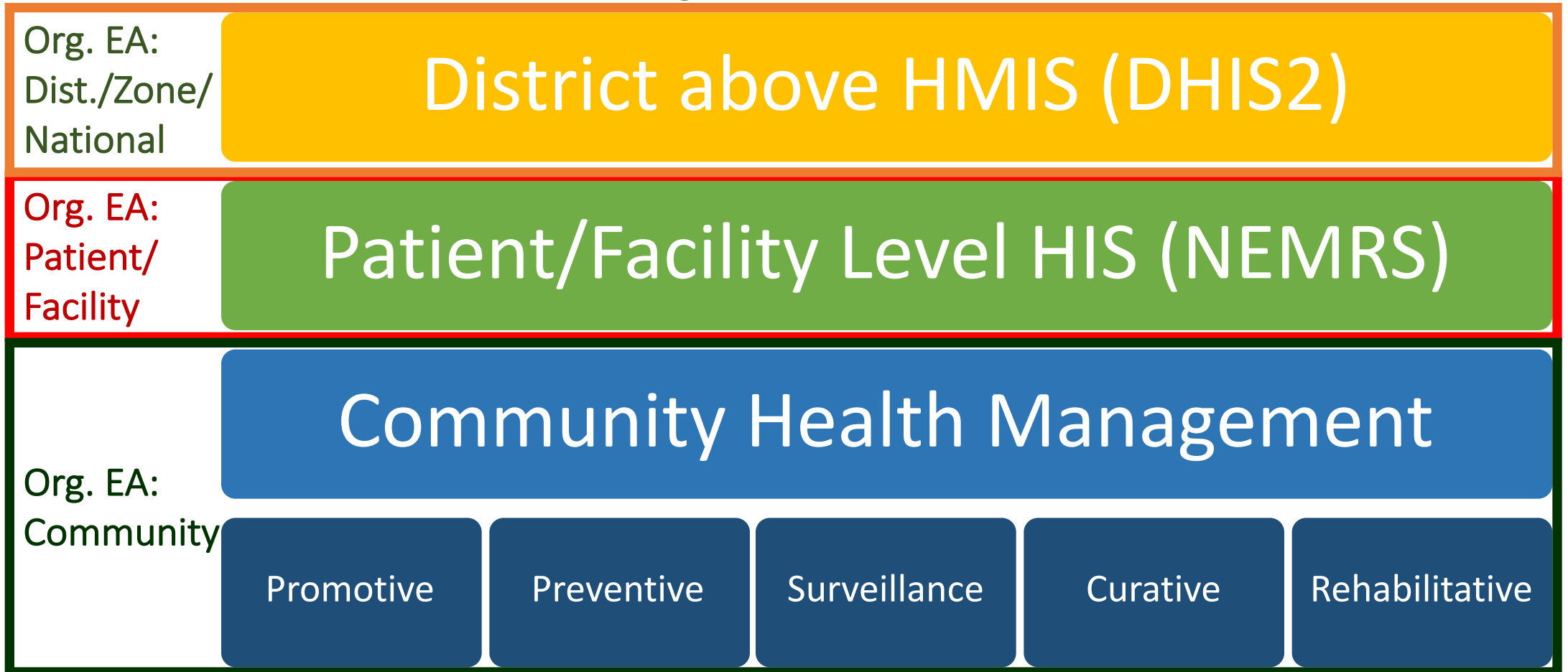
## DECISIONS RANKED



# Malawi HIS Architecture and Application Concept Standards, 2017



# Malawi Integrated Community Health Information System Architecture



Note: mHealth artifact building blocks are categorized according to HSSP2, National Community Health Strategy and CHWs Tasks List

<http://dhis2.health.gov.mw:8000/>

## Current Indicators

[Click to print indicators](#)

**Filter By:** **Indicator Code:**  **Custodian:**  **Alignment:** ☐ HSSP I ☐ HSSP II ☐ SDG ☐ Global 100

**Indicator Type:**  **HIS Sub-system:**  **Calculability:**

**Other pertinent dimentions:**

Code	Name	Type	Department	Numerator	Denomenator	More
CHD03.1N	Pentavalent III coverage (HMIS-based)	NHI	Child Health	Number of children under-1 of age that r...	Estimated mid-year population under 1-ye...	<a href="#">Details</a> <a href="#">pdf</a>
CHD03N	Penta III coverage (survey-based)	NHI	Child Health	Number of surveyed children age 12-23 m...	Total number of children from 12-23 mont...	<a href="#">Details</a> <a href="#">pdf</a>
TB04N	HIV-positive TB patients on ART during TB treatment	NHI	Tuberculosis	Number of HIV-positive TB patients who r...	Total number of HIV-positive TB patients...	<a href="#">Details</a> <a href="#">pdf</a>
CHD02.1N	Percentage of under-1 year-old children fully immunized (HMIS-based)	NHI	Child Health	Total number of children who have been f...	Estimated under-1 midyear population...	<a href="#">Details</a> <a href="#">pdf</a>
TB03N	TB Treatment success rate	NHI	Tuberculosis	Number of notified TB cases registered i...	All TB cases notified to the health faci...	<a href="#">Details</a> <a href="#">pdf</a>
TB02N	Second line treatment coverage among MDR-TB cases	NHI	Tuberculosis	Number of notified TB patients who have ...	Total number of confirmed MDR-TB patient...	<a href="#">Details</a> <a href="#">pdf</a>