



OpenLMIS Webinar Series: Vaccine Module Update

November 30 2017

Presenters



Tenly Snow - *facilitator, presenter*
OpenLMIS Community Manager



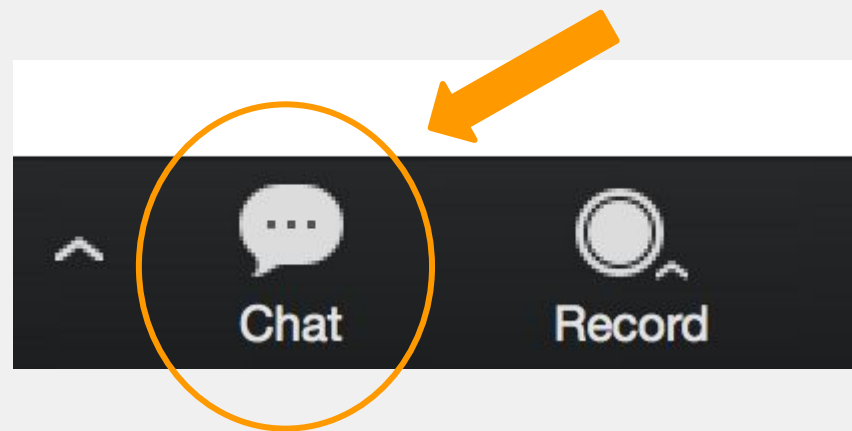
Mary Jo Kochendorfer - *presenter*
OpenLMIS Product Manager



Rachel Powers - *presenter*
Associate, Information Systems Group

Webinar Logistics

- Please remain on mute throughout the webinar
- Ask questions using the “Chat” function at the bottom of the screen

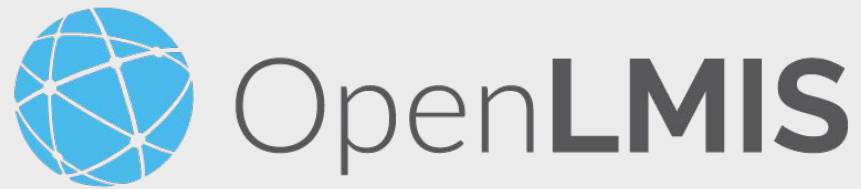


- Questions will be read aloud by the facilitator during the Q&A pauses and will be answered by the presenters
- Any additional questions that are not answered during the presentation may be sent to info@openlmis.org

Agenda

- 1. Introduction to OpenLMIS**
- 2. Recap of project scope**
- 3. New developments**
 - a. Integration with mobile health platform (OpenSRP)
 - b. Reporting
- 4. Showcase completed features**
 - a. Cold Chain Equipment features
 - b. Ideal Stock Amount for estimation
- 5. Status on MVP features**
 - a. Overall Update
 - b. Resupply (creating an order, fulfilling an order, planning a distribution, managing the POD)
 - c. Stock Management
- 6. Closing Remarks**

This presentation and recording will be available on the [OpenLMIS wiki](#) and [YouTube Channel](#)

A photograph of a hand interacting with a rugged tablet computer. The tablet is mounted on a black protective case and is propped up on a green-painted concrete ledge. The background is a blurred outdoor scene with green foliage.

Introduction

What is OpenLMIS?

What is OpenLMIS?

OpenLMIS is an open source, cloud-based, enterprise class electronic logistics management information system (LMIS) purpose-built to manage health commodity supply chains



The OpenLMIS Community

The OpenLMIS initiative incorporates a community-focused approach to develop open source and customizable LMIS systems

- The Community sets standards, actively supports implementations, and continually reviews the product roadmap in order to provide global leadership
- OpenLMIS Product Committee meets 2x per month to discuss and review software development

Community

Welcome to the OpenLMIS Community!

OpenLMIS is an open source, enterprise-class electronic LMIS tool supported by an international community of donors, partners, implementers, and developers. This community is dedicated to providing continuous support to the countries and health programs that implement OpenLMIS, with a strong, ongoing focus on improving data visibility within health supply chains globally.

What is the Community?

The OpenLMIS Community is an open source community that supports the initiative through volunteered time and resources. The Community is made up of a global core team, a Community Manager, and health, technology, development, and financial-support partners. These partners provide technical expertise, financial contribution, leadership, decision-making, and innovation to the initiative. See our [Collaborators](#) page for a full list of community partners.

Why Community?

The OpenLMIS Community is a unique group of highly skilled partners working toward a shared goal of supporting and extending the reach of OpenLMIS globally.

The Community provides ongoing direction to product development and support to existing implementations, ensuring that the software is up-to-date and meets the most-requested needs of users in the field.

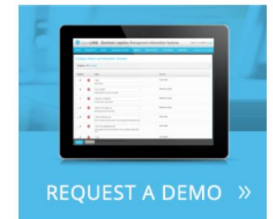
LATEST NEWS

[We Build by Listening - OpenLMIS at TechNet](#)

[RFI - Logistics & Health Management Information Systems Solutions in El Salvador](#)

[So Long, and Thanks for all the Fish! 😊](#)

[MORE >](#)



Features and Functionality

Requisitions and Ordering

- Create, authorize, approve report and requisitions, both regular, based on configured processing periods, and emergency.
- Supports offline data capture on key screens.
- Executes complex and configurable approval hierarchies.
- Calculates order amounts based on average consumption and max policies.
- Complex data validations to support quality data capture.
- Generate orders for external fulfillment based on approved requisitions.

Setup and Customization

- Manage system users, role assignments, programs, facilities, orderables and associations with bulk uploads and administrative screens.
- Configure the system to match your processing and reorder periods, policies and facility hierarchy.

Stock Management

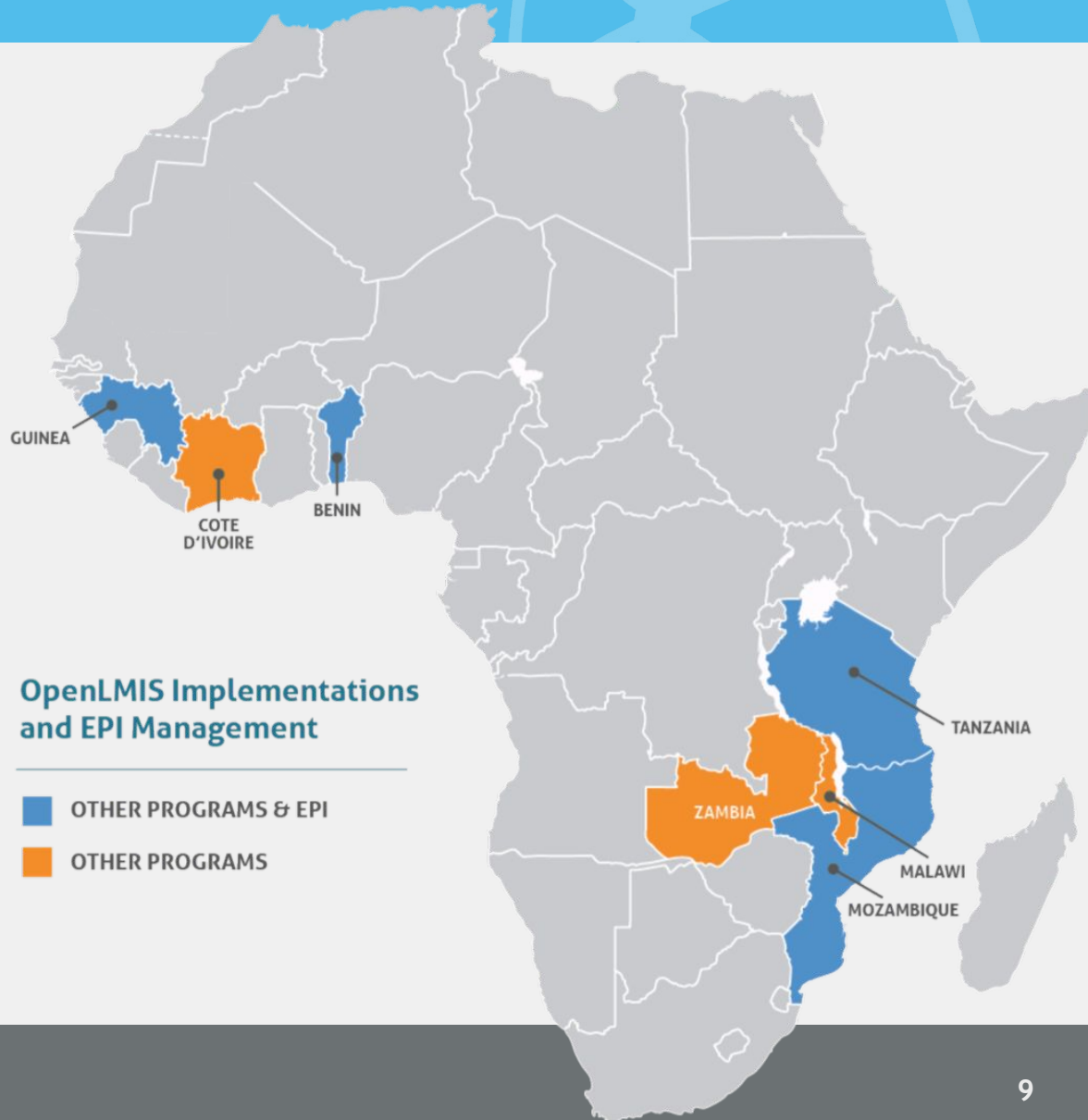
- Record transactions and view electronic stock cards (supports lot info)
- Perform physical inventory & adjustments
- Track ins/outs of stock – send and receive stock

Where does OpenLMIS Manage Vaccines?

OpenLMIS manages logistics data for over 10,000 health facilities across 7 geographies

OpenLMIS manages EPI data in 4 geographies across Africa

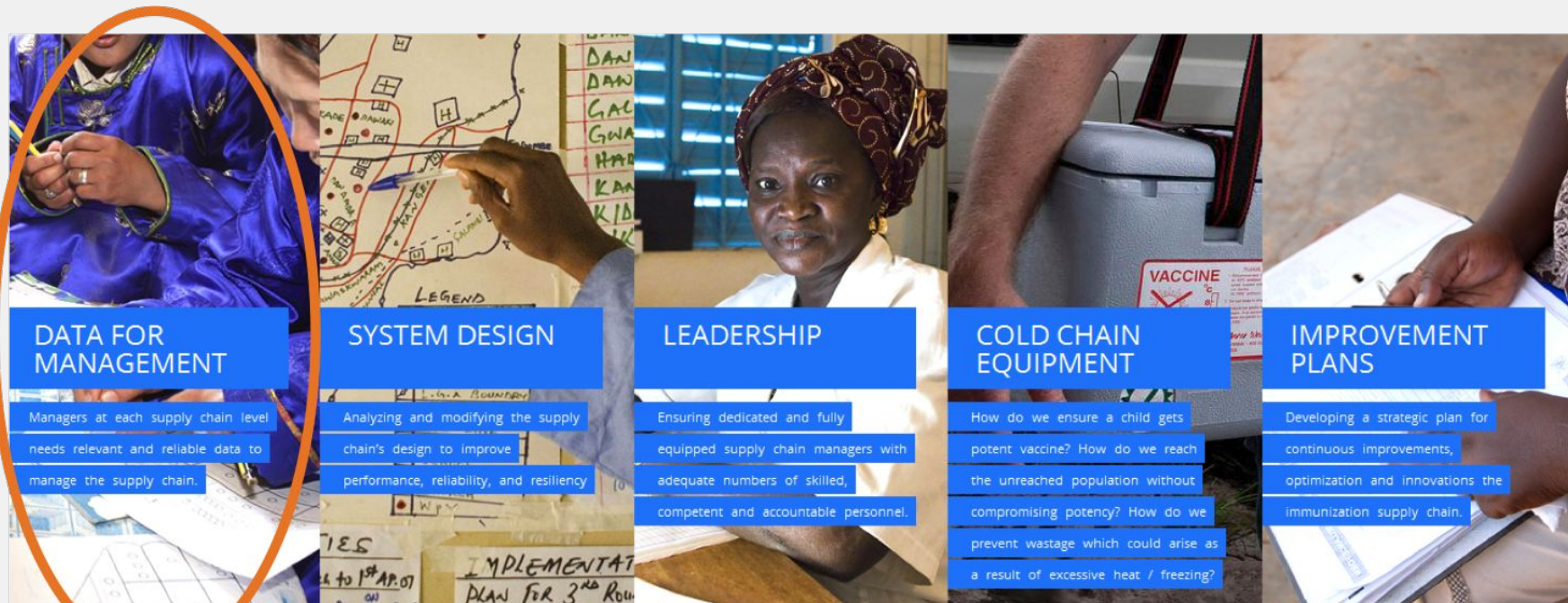
In Mozambique, OpenLMIS manages EPI data for 830 service delivery points, reaching over 13.8 million people



Why is OpenLMIS Building the Vaccine Module?

No digitized data, no management

Without a reliable electronic system to **capture, aggregate, and disseminate** data, EPI programs struggle to manage evolving, expanding systems



DATA FOR MANAGEMENT

Managers at each supply chain level needs relevant and reliable data to manage the supply chain.

SYSTEM DESIGN

Analyzing and modifying the supply chain's design to improve performance, reliability, and resiliency

LEADERSHIP

Ensuring dedicated and fully equipped supply chain managers with adequate numbers of skilled, competent and accountable personnel.

COLD CHAIN EQUIPMENT

How do we ensure a child gets potent vaccine? How do we reach the unreached population without compromising potency? How do we prevent wastage which could arise as a result of excessive heat / freezing?

IMPROVEMENT PLANS

Developing a strategic plan for continuous improvements, optimization and innovations the immunization supply chain.



Open**LMIS**

Recap of Project Scope

A close-up photograph of a person's hand touching the screen of a tablet computer. The tablet is propped up on a ledge with greenish-blue paint. The background is a blurred outdoor scene with trees and foliage.

What we set out to do.

Community Process

Establish support

Gain buy-in from global stakeholders and funders

- Global stakeholders

Build upon existing efforts

Combine reqs from multiple existing systems, taking into account gaps and lessons learned

- Country systems
- Subject matter experts

Prioritize scope

Prioritize features and determine software development schedule

- Global stakeholders

Validate user needs

Work with end users to optimize user experience and ensure system supports workflows

- Country users
- Design workshop

Realize the tech vision

Build the software



Iterate on system

- Subject matter experts
- Country systems
- Country users

Prioritization in Copenhagen



27 attendees with representatives from

UNICEF, Gates, GAVI, PATH, CHAI, JSI, NexLeaf, VillageReach



Background and details on [workshop](#) and [scope](#) can be found on the public wiki.

Prototyping in Senegal

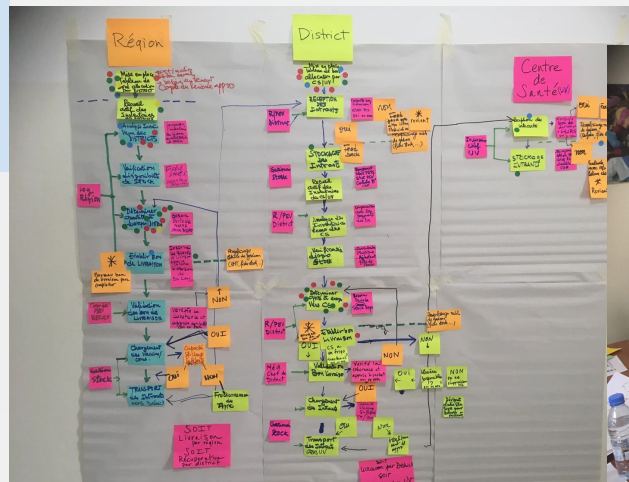
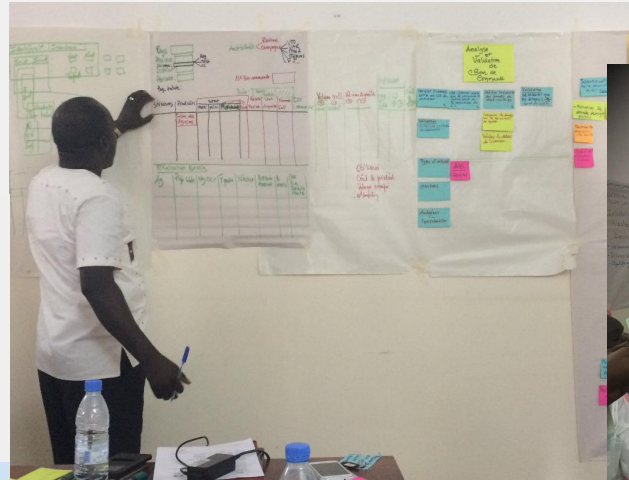
Focused on defining the workflows & data elements associated with resupplying vaccines

12 attendees from EPI programs in 5 countries

Bénin, Côte d'Ivoire, DRC, Guinea, Senegal

Workshop outcomes directly influence the design and development of the OpenLMIS vaccine module

Report on the workshop, [here](#).



Vaccine Module MVP Scope

OpenLMIS version 3 and vaccine module

A long-term, solution supported by a community of financing and implementation partners

- Track stock amounts at multiple levels of the supply chain
- Manage the resupply of stock by fulfilling orders to supervised facilities
- Calculate reorder amounts calculated using ideal stock amounts
- Manage a centralized CCE catalog; Add and monitor CCE at specific facilities
- Reporting on DISC indicators

Estimated Release Date: March 30

Follow the [living product roadmap](#) for updates.



Requisitions & Allocations.

Supports push, pull, and mixed supply chains and the processes required for each.



Forecasting.

Update and input annual forecasted needs, at sub-national levels, to inform reorder and resupply quantities.



Stock Management.

Captures inventory data and stock movements to provide an overview of full stock availability. Record vial wastage and VVM status.



Cold Chain Equipment. OpenLMIS captures cold chain equipment inventory, functional status, and temperature status.



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New Developments

Additional scope and partnerships.

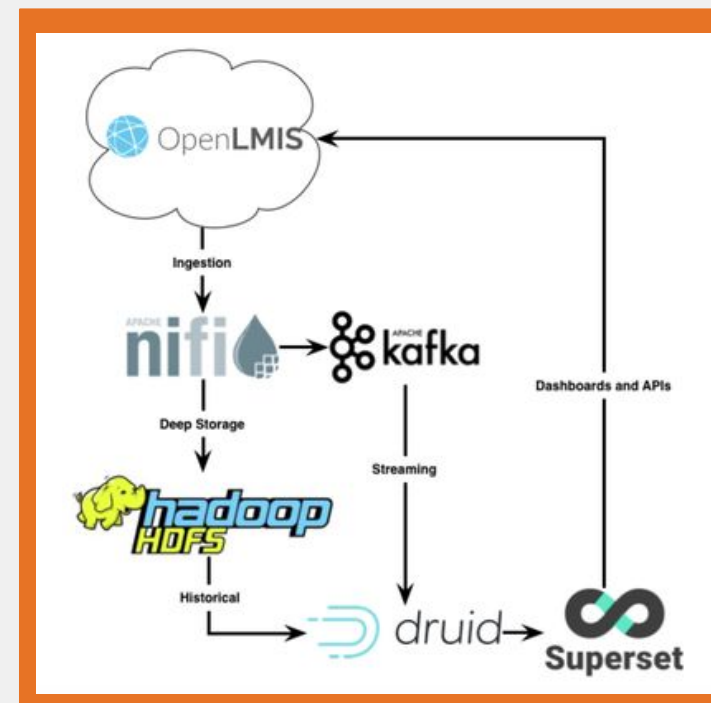
Data Warehousing and Reporting

Investing in open-source reporting infrastructure to support big data collection, ad-hoc analysis, and easy to use reporting tools.

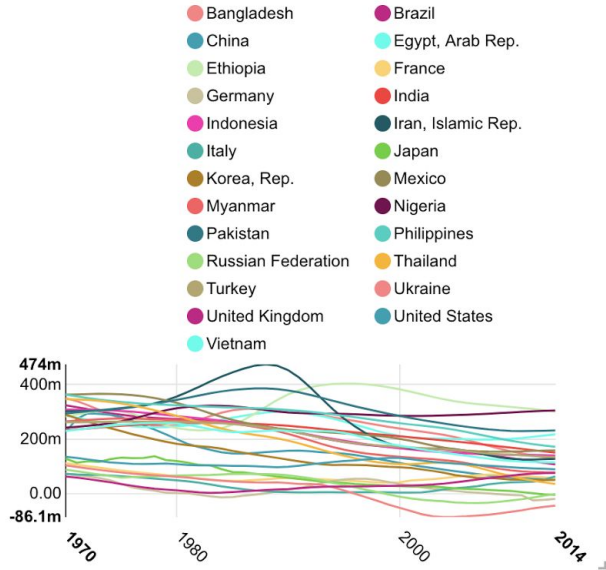
1. Data ingestion and coordination
2. Data processing and warehousing
3. High performance queries
4. Easy to use visualization

Ideally, other open source platforms can leverage this in the future and share the infrastructure to build out composite indicators across systems.

More Details: [Reporting Wiki](#)



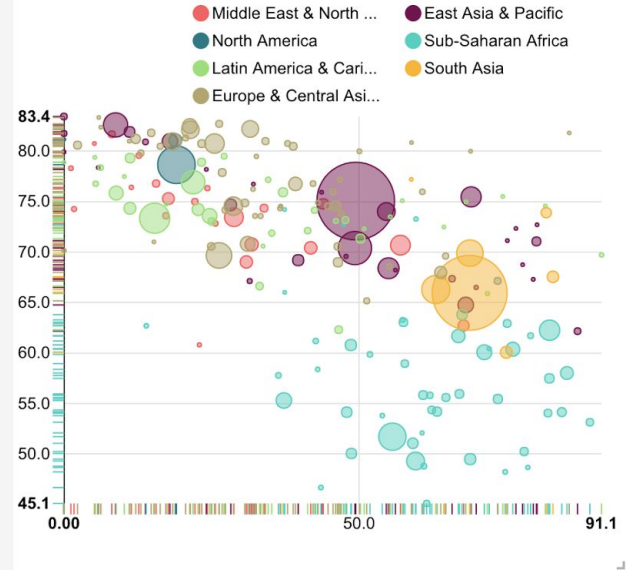
Growth Rate



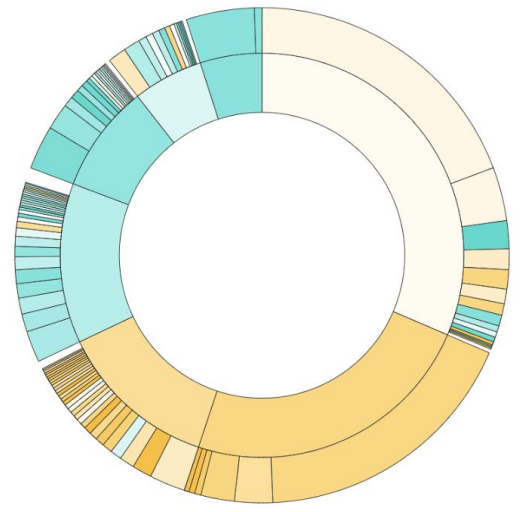
% Rural



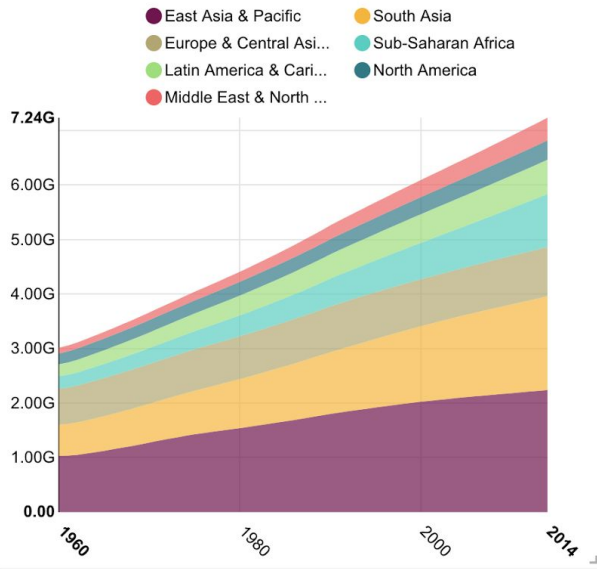
Life Expectancy VS Rural %



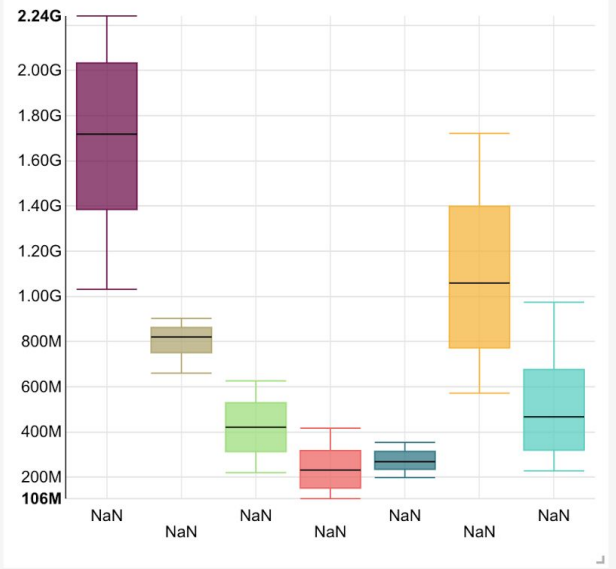
Rural Breakdown



World's Pop Growth



Box plot

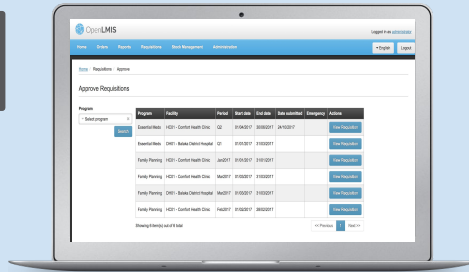


Mobile Reference Implementation

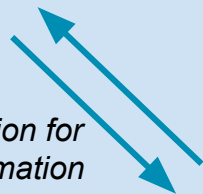
Supply Chain Management



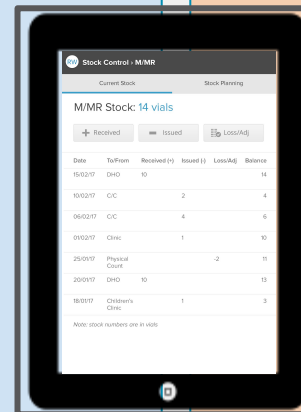
Regional, District, & high volume facilities



Exchange stocking information for ordering and shipment information



Health Service Delivery Management



Point of care, Facility level



Q & A #1



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A photograph showing a person's hand touching the screen of a tablet computer. The tablet is propped up on a ledge. The background is a blurred outdoor scene with green foliage.

Showcase

Cold Chain Equipment Management
Forecasting & Estimation

Cold Chain Equipment



Open**LMIS**

Cold Chain Equipment Management

Key functionalities:

1. **Catalog:** Create & update CCE Catalog
2. **Inventory:** Create & update facility CCE inventory (including adding new devices)
3. **Functionality:** Update CCE functionality status
4. **RTM:** *Integrate with Remote Temperature Monitoring system(s)*

Create & Update CCE Catalog

Manage Cold Chain Equipment Catalog

View current Cold Chain Equipment catalog as CSV

Export

Download current CCE catalog

Steps to update the Cold Chain Equipment catalog:

1. Download the current catalog by clicking the Export button.
2. Edit the .csv file and then save changes as a .csv file.
3. Click Upload and select the saved .csv file to upload the new version into the system.
4. The system will complete validation that the file is in the .csv format with the correct column headings.
If the file is successful then the changes will be accepted into the system.
If the file is unsuccessful, errors will display on this page.

CSV File *

Select File

Upload

Upload updated catalog

Manage CCE Inventory

Home / CCE Management / CCE Inventory

CCE Inventory

Add new device to facility

Filter

Filter by facility or functionality status

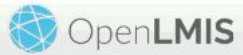
+ Add Equipment

District	Facility	Serial No.	Reference Name	Make/Model	Type	Functional Status	Last Updated	Year Installed	Actions
Central Region	Home Ing		tellus	Wehner, Kuvallis and O'Reilly FPZ-8830-jdu	a	● Functioning	Admin Admin 11/29/17 1:29 PM	1982	View
Malawi	Asoka		at	Treutel and Sons WZ-3-lpcnr	ac	● Non-functioning		2016	View
Malawi	Gembucket		libero			● solete		1985	View
Northern Region	Rank		viverra pede	Kuhic, Berge and Ratke EWV-01797-xw	accumsan	● Obsolete		1953	View
Central Region	Biodex		eleifend	Schmidt Group AX-3934-kha	adipiscing	● Functioning			View
Malawi	Tampflex		fermentum donec ut	Hansen-Dicki ALC-6-	adipiscing elit	● Functioning		1966	View
Southern Region	Rank		nam	Hansen-Dicki ALC-6-	adipiscing elit	● Functioning		1999	View
Malawi	Ventosanzap		et	Dickinson, Medhurst and Turner LHE-1-ceftd	adipiscing elit proin	● Functioning		1973	View

View & update functional status

View device details

Manage CCE Inventory



Logged in as [administrator](#)

- Home
- CCE Management
- Orders
- Reports
- Requisitions
- Stock Management
- Administration

English

Logout

Welcome to
Logistics Management Information System

Skype for Business

Add new device

Home / CCE Management / CCE Inventory

CCE Inventory

Filter

+ Add Equipment

District	Facility	Serial No.	Reference Name	Make/Model	Type	Functional Status	Last Updated	Year Installed	Actions
Central Region	Home Ing		tellus	Wehner, Kuvalis and O'Reilly FPZ-8830-jdu	a	● Functioning	Admin Admin 11/29/17 1:29 PM	1982	View
Malawi	Asoka		at	Treutel and Sons WZ-3-lpcnr	ac	● Non-functioning		2016	View
Malawi	Gembucket		libero	Kuhic, Berge and Ratke EWV-01797-xw	accumsan	● Obsolete		1985	View
Northern Region	Rank		viverra pede	Kuhic, Berge and Ratke EWV-01797-xw	accumsan	● Obsolete		1953	View
Central Region	Biodex		eleifend	Schmidt Group AX-3934-kha	adipiscing	● Functioning		1981	View
Malawi	Tampflex		fermentum donec ut	Hansen-Dicki ALC-6-	adipiscing elit	● Functioning		1966	View
Southern Region	Rank		nam	Hansen-Dicki ALC-6-	adipiscing elit	● Functioning		1999	View
Malawi	Ventozanzap		et	Dickinson, Medhurst and Turner LHE-1-ceftd	adipiscing elit proin	● Functioning		1973	View

Add new device

OpenLMIS

Home CCE Management Orders Reports Requir

Logged in as administrator

English Logout

Home / CCE Management / CCE Inventory

CCE Inventory

Filter

+ Add Equipment

Add New Cold Chain Equipment

Facility Type

My Facility
 Supervised Facility

Facility *

Comfort Health Clinic

Program *

Family Planning

Equipment Type *

Freezer

Make/Model *

Haier HBD 116*

Cancel Next

District	Facility	Serial No.	Reference Name	M	Updated	Year Installed	Actions
Central Region	Home Ing		tellus	W	in Admin 11/29/17 1:29 PM	1982	View
Malawi	Asoka		at	T		2016	View
Malawi	Gembucket	libero	Kuhic, Berge and Ratke EWV-01797-xw	accumsan		1985	View
Northern Region	Rank	viverra pede	Kuhic, Berge and Ratke EWV-01797-xw	accumsan		1953	View
Central Region	Biodex	eleifend	Schmidt Group AX-3934-kha	adipiscing		1981	View
Malawi	Tampflex	fermentum donec ut	Hansen-Dicki ALC-6-	adipiscing elit		1966	View
Southern Region	Rank	nam	Hansen-Dicki ALC-6-	adipiscing elit		1999	View
Malawi	Ventozanzap	et	Dickinson, Medhurst and Turner LHE-1-ceftd	adipiscing elit proin		1973	View
Central Region	Hality	fellis sed	Schowalter Inc DQ	aenean sit		1952	View

CCE Inventory

Add new device to facility

Filter

Filter by facility or functionality status

+ Add Equipment

District	Facility	Serial No.	Reference Name	Make/Model	Type	Functional Status	Last Updated	Year Installed	Actions
Central Region	Home Ing		tellus	Wehner, Kuvalis and O'Reilly FPZ-8830-jdu	a	● Functioning	Admin Admin 11/29/17 1:29 PM	1982	View
Malawi	Asoka		at	Treutel and Sons WZ-3-lpcnr	ac	● Non-functioning		2016	View
Malawi	Gembucket		libero			● Obsolete		1985	View
Northern Region	Rank		viverra pede	Kuhic, Berge and Ratke EWV-01797-xw	accumsan	● Obsolete		1953	View
Central Region	Biodex		eleifend	Schmidt Group AX-3934-kha	adipiscing	● Functioning			View
Malawi	Tampflex		fermentum donec ut	Hansen-Dicki ALC-6-	adipiscing elit	● Functioning		1966	View
Southern Region	Rank		nam	Hansen-Dicki ALC-6-	adipiscing elit	● Functioning		1999	View
Malawi	Ventosanzap		et	Dickinson, Medhurst and Turner LHE-1-ceftd	adipiscing elit proin	● Functioning		1973	View

View & update functional status

View device details

Update CCE Functionality

Home CCE Management CCE Inventory

CCE Inventory

Filter

District	Facility	Serial No.	Reference Name	M	Updated	Year Installed	Actions
Central Region	Home Ing		tellus	W			
Malawi	Asoka		at	I		2016	View
Malawi	Gembucket		libero	K		1985	View
Northern Region	Rank		viverra pede	K		1953	View
Central Region	Biodex		eleifend	Schmidt Group AX-3934-kha	adipiscing	● Functioning	✎
Malawi	Tampflex		fermentum donec ut	Hansen-Dicki ALC-6-	adipiscing elit	● Functioning	✎
Southern Region	Rank		nam	Hansen-Dicki ALC-6-	adipiscing elit	● Functioning	✎
Malawi	Ventozanzap		et	Dickinson, Medhurst and Turner LHE-1-ceftd	adipiscing elit proin	● Functioning	✎
Central Region	Hatity		felis sed	Schowalter Inc DQX-675-anq	aenean sit	● Obsolete	✎
Central Region	Konklux		at nibh	Greenfelder Group VQCF0-1-ighqp	aenean sit amet	● Functioning	✎

Equipment Functional Status

Refrigerator 01A

Facility: Balaka Health Center
Equipment Type: Refrigerator
Current Status: ● Functioning

Update Functional Status

Functionality Status *

▼ Functioning ✕

Cancel

Update

Showing 10 item(s) out of 1000 total

<< Previous 1 2 3 4 Next >>

Ideal Stock Amounts



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Ideal Stock Amounts

Welcome to
Logistics Management Information System

- Equipment
- Facilities
- Geographic Zones
- Ideal Stock Amounts**
- Products
- Programs
- Reasons
- Requisition Groups
- Roles
- Supervisory Nodes
- Supply Lines
- Users



Ideal Stock Amounts

[Home](#) / [Administration](#) / [Ideal Stock Amounts](#)

Manage Ideal Stock Amounts

View current Ideal Stock Amounts as CSV

Export

← **View current ISA's**

Steps to update the Ideal Stock Amounts values:

1. Download the current values by clicking the Export button.
 2. Edit the .csv file and then save changes as a .csv file.
 3. Click Upload and select the saved .csv file to upload the new version into the system.
 4. The system will complete validation that the file is in the .csv format with the correct column headings.
- If file upload is successful, the changes will be accepted into the system.
If file upload is unsuccessful, errors will be displayed on the page.

CSV File *

Select File

← **Upload updated ISA's**

Upload

Ideal Stock Amount

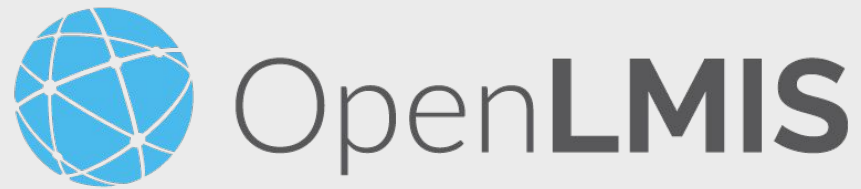
Welcome to
Logistics Management Information System

Spotify

Q & A #2



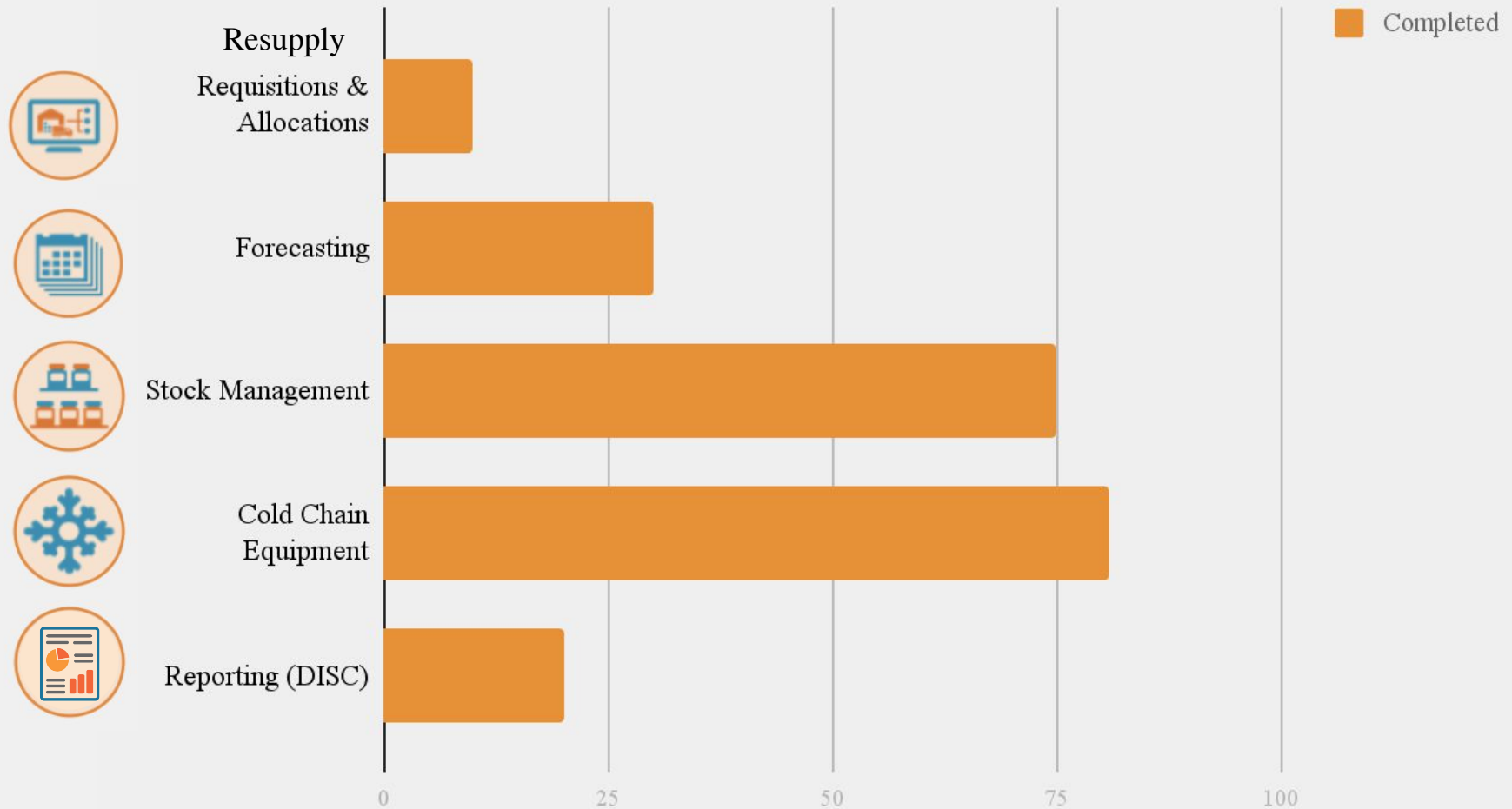
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Status of MVP

Where are we?

Software Development Status



Intermediate RIVO

DIVO

ImNurse
Storeroom
manager

issue/transfer
recieve/transfer

allocate

HF
Confirm POD
Stock take
Warranty
CCR Status

ASN

SM

POD

Reo-life
- Phys Inv
- F. need

phys inv

Reo-life

order

Fulfillment

POD

SM
- ASN
- POD

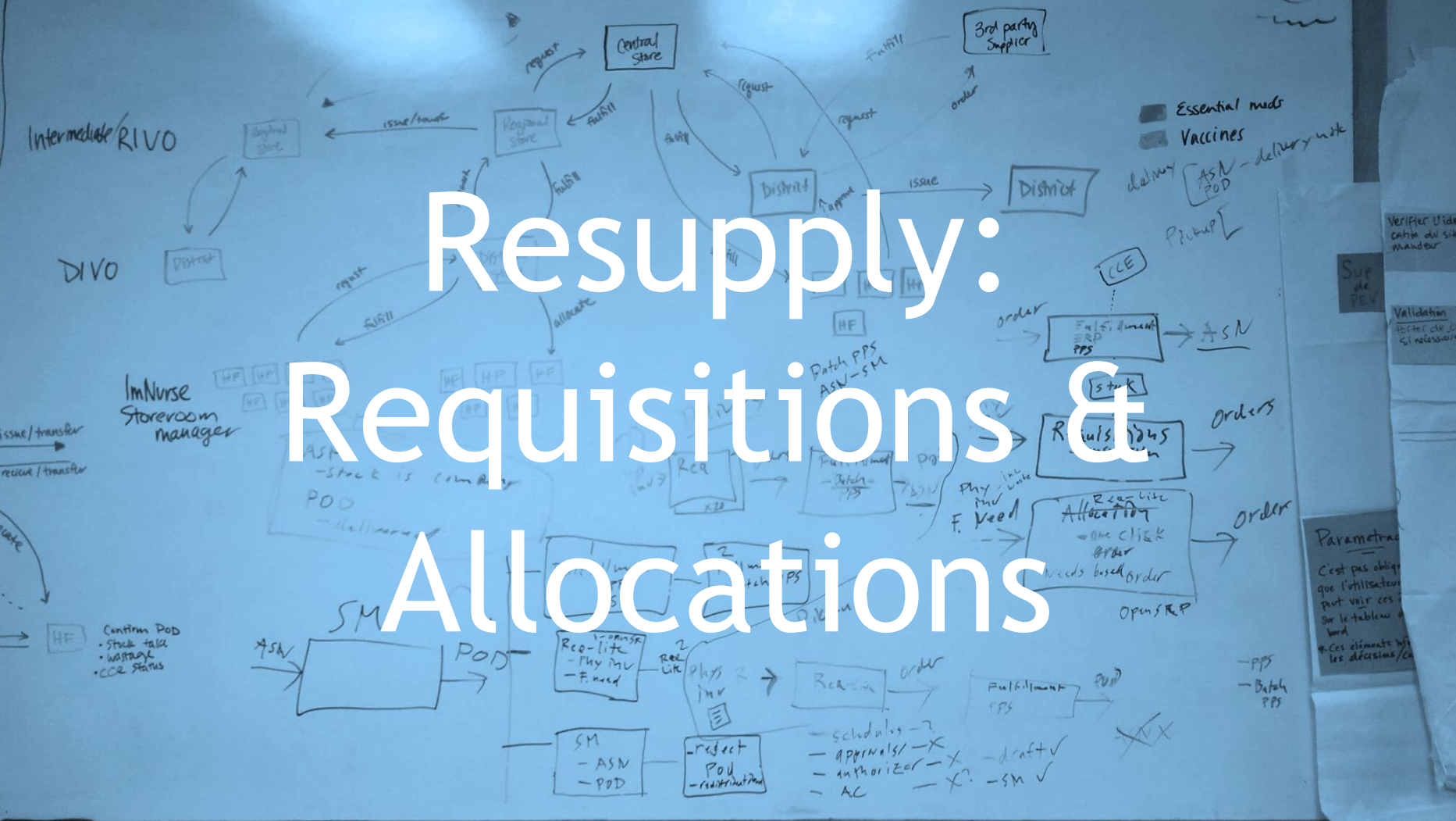
- reject
POD
- restriction

- schedules - ?
- approvals - X
- authorize - X
- AC - X

- draft ✓
- SM ✓

- PPS
- Batch
PPS

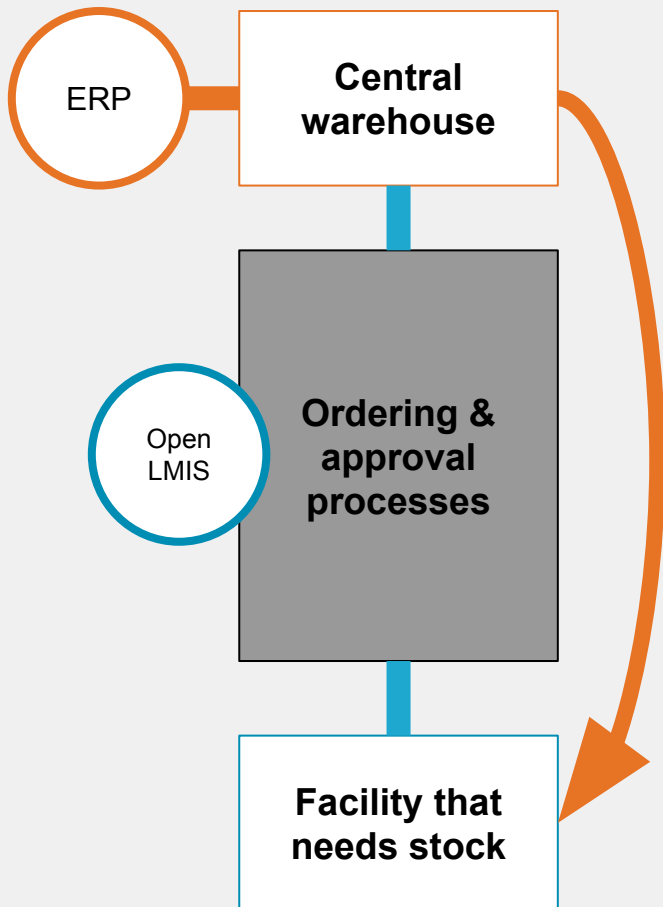
Resupply: Requisitions & Allocations



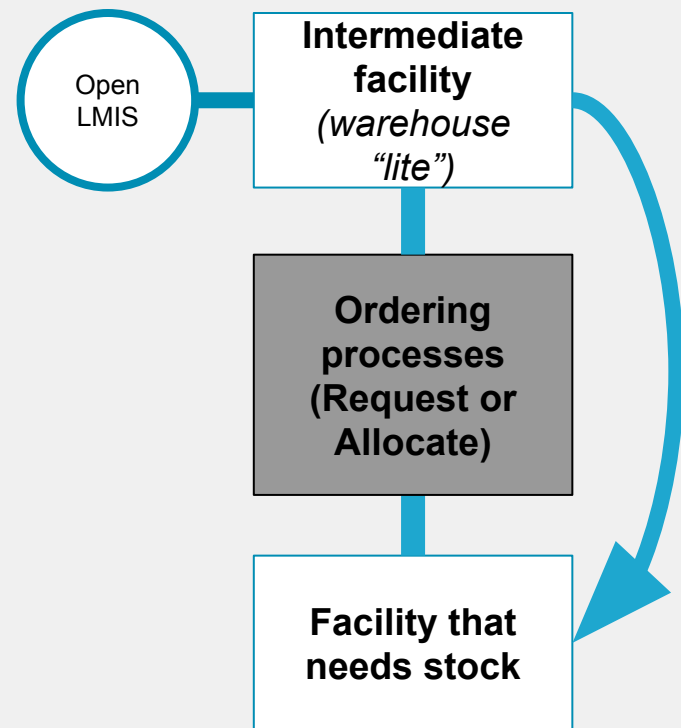
Open**LMIS**

What is resupply?

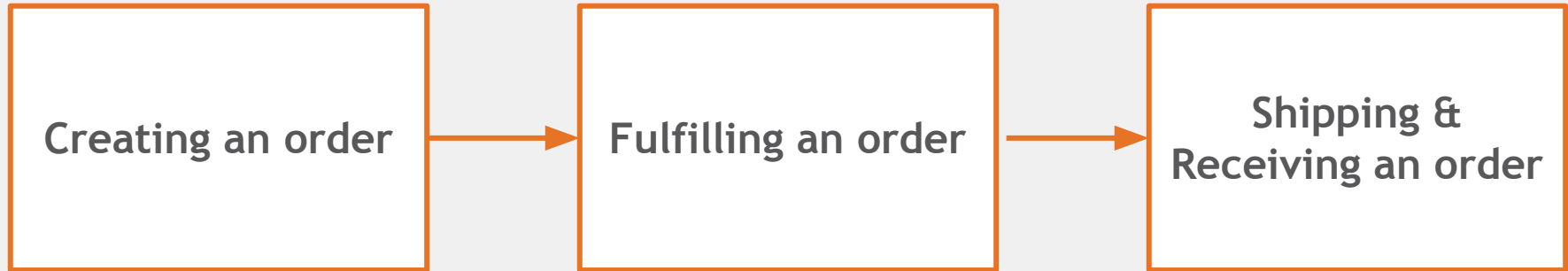
Requisition based & External Fulfillment



Local Fulfillment



Resupply: Requisitions & Allocations



- Requisition based orders
- Allocation based orders
- Emergency orders
- Calculated order amounts based on ISA or consumption

- View ordered quantities
- View data elements for decision making
- Set & confirm fill quantities

- Confirm stock received (POD)
- Reject & return stock
- Update SOH to reflect resupplied stock

Orders / #00045 / Routine



Eastlake HC

CCE status:



Functional

View details

Thinking this CCE status could be an overall status for the facility, where it's only green if ALL devices are Functional. If some are red and some are green, status would be yellow. If all are red, status is Red. View Details takes user to CCE Inventory List filtered for this facility.

Facility Type | Health Facility
 In charge | E. Bancroft
 Contact | +12064579113

Order type | Routine
 Date created | 2017-10-19
 Last updated | 2017-10-21, R. Powers

This can include a variety of information that is relevant to the order

Allows user to switch views

Vials Doses

Generate Pick/Pack list

Product Code	Product	Order Quantity	Lot Code	VVM Status	Expiry Date	Available SOH	Fill Quantity	Gap	Consumption	ISA
EP200	BCG	150	MA2017B	2	20/02/2018	400	<input type="text" value="150"/> /150	0	213	200
			MB2017A	1	10/04/2018	450	<input type="text" value="10"/> /10			
EP400	Polio	200	MP2016C	2	13/03/2018	0	<input type="text" value="150"/> /200	50	168	100
EP100	Penta	100	MA2017A	1	05/01/2018	50	<input type="text" value="100"/> /100	100	195	200

Pop up allows DIVO to make Stock On Hand adjustment within fulfillment process. This is so they can reflect any inventory changes that they notice while picking and packing stock for fulfillment and they don't have to navigate away from the fulfillment page.

" / X" is to show the DIVO how much they are filling out of the order quantity

May include other data elements like Period Consumption and ISA for decision making

Confirm

Stock Management



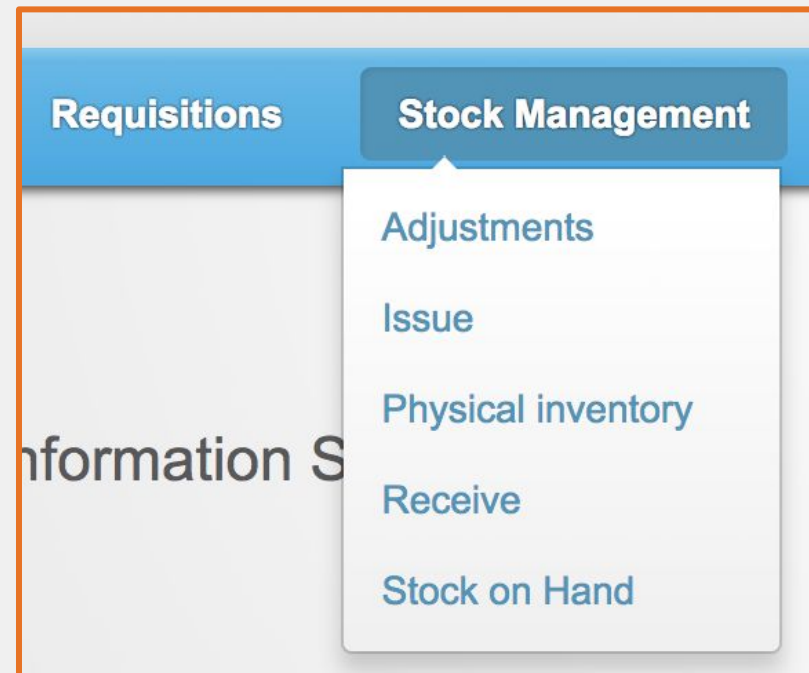
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Stock Management

Current Features

Making stock movements as they happen versus reporting in aggregate

- Physical inventory / stock take
- Issue
- Receive
- Adjust



View Stock on Hand

Stock on Hand - Comfort Health Clinic - Family Planning

Filter

Print

Product Code	Product	Lot Code	Expiry Date	Last Update	Stock on Hand	Actions
C100	Levora - 10 tab strip				170	
		No lot defined		26/05/2017	80	View
		MA2017A	30/01/2020	26/05/2017	90	View
C103	Adsorbentia - 10 tab strip	No lot defined		26/05/2017	100	View
C500	Implanon - 10 tab strip	No lot defined		30/11/2017	68	View

Showing 3 item(s) out of 3 total

<< Previous 1 Next >>

Conduct Physical Inventory

Home / Stock Management / Physical inventory / HC01 - Comfort Health Clinic - Family Planning

HC01 - Comfort Health Clinic - Family Planning

Keywords

0 of 3 products completed

+ Add Product

Product Code	Product	Lot Code	Expiry Date	Stock on Hand	Current Stock	Reasons
C100	Levora - 10 tab strip			170		
		No lot defined		80	<input type="text"/>	+ Add Reasons
		MA2017A	30/01/2020	90	<input type="text"/>	+ Add Reasons
C103	Adsorbentia - 10 tab strip	Product has no lots		100	<input type="text"/>	+ Add Reasons
C500	Implanon - 10 tab strip	Product has no lots		68	<input type="text"/>	+ Add Reasons

Showing 3 item(s) out of 3 total

<< Previous 1 Next >>

Delete

Skype Meetings App

Save

Submit

Conduct Physical Inventory

The screenshot shows the OpenLMIS interface for conducting a physical inventory. A modal window titled "Reasons for Levora" is open, allowing the user to add reasons for a discrepancy of -10. The modal contains a form with "Reason" and "Quantity" fields, an "Add" button, and a table of existing reasons. The background shows a table of inventory items with columns for Product Code, Product, and quantity.

Reasons for Levora

Add reasons to the difference of -10.

Reason * Quantity *

▼ Select an option + Add

Reason	Quantity	Actions
Transfer Out	10	Remove

Unaccounted: 0 Total: -10

Cancel Update

Inventory Table:

Product Code	Product	Quantity	Current Stock	Reasons
C100	Levora - 10 tab strip	80	70	+ Add Reasons
				+ Add Reasons
C103	Adso/bentia - 10 tab strip	100		+ Add Reasons
C500	Implanon - 10 tab strip	68		+ Add Reasons

Showing 3 item(s) out of 3 total

Navigation: << Previous | 1 | Next >>

Q & A #3

Final Questions



Open**LMIS**

Thank you for joining the
webinar, please take a moment
to complete the poll!

Please direct further questions to
info@openlmis.org



OpenLMIS Webinar Series:
Vaccine Module Update





Open**LMIS**

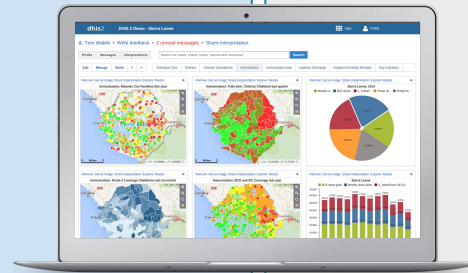
Additional slides if
we want to
leverage

A close-up photograph of a person's hand touching the screen of a tablet computer. The tablet is propped up on a ledge. The background is a blurred outdoor scene with green foliage.

Integration Opportunities

Supply Chain Management

Health Service Delivery Management



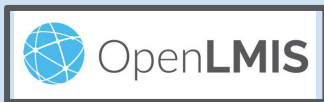
National & EPI Program Level Visualisation and reporting

A laptop screen showing the 'Approve Regulations' interface in OpenLMIS. It features a table with columns for Program, Facility, Period, Start date, End date, Site identifier, Template, and Action.

Program	Facility	Period	Start date	End date	Site identifier	Template	Action
Expanded Access	1421 - Garkah Health Disc	02	01/01/2017	30/09/2017	0A102017		View Details
Expanded Access	1421 - Garkah Health Disc	01	01/01/2017	30/09/2017	0A102017		View Details
Family Planning	1421 - Garkah Health Disc	01	01/01/2017	30/09/2017	0A102017		View Details
Family Planning	1421 - Garkah Health Disc	02	01/01/2017	30/09/2017	0A102017		View Details
Family Planning	1421 - Garkah Health Disc	03	01/01/2017	30/09/2017	0A102017		View Details
Family Planning	1421 - Garkah Health Disc	04	01/01/2017	30/09/2017	0A102017		View Details
Family Planning	1421 - Garkah Health Disc	05	01/01/2017	30/09/2017	0A102017		View Details

At the Regional, District, & high volume facilities

Send coverage and point of care information



Exchange stocking information and shipment information

A tablet screen showing the 'Stock Control - M/MR' interface. It displays a table with columns for Date, To/From, Received (v), Issued (v), Loss/Adj, and Balance.

Date	To/From	Received (v)	Issued (v)	Loss/Adj	Balance
15/02/17	DHD	10			14
10/02/17	C/C		2		4
06/02/17	C/C		4		6
05/02/17	Chic		1		10
25/01/17	Physical Count			-2	11
20/01/17	DHD	10			13
18/01/17	Children's Chic		1		3



Point of care, Facility level Electronic Medical Record (EMR)

OpenSRP

NR ZEIR Zone 1

Search name or ID Scan QR code

CHILD	AGE	ID	WEIGHT	DUE VACCINE
Robert Roberts Riana Tylor	9w 1d	5047162	6.0 kg	Upcoming 6 weeks
Precious Chelo Sharon Kakkoma	1y 9m	5178511 8070400	Record weight	18 months
Lastone Tembo Lee I Lu	8w 1d	4291431	Record weight	Record at birth
Harry Moonga Grace Mbewe	8w 5d	4291423 675545/45/5	Record weight	Upcoming 6 weeks
Issue... Issue Parentname	10w 4d	5138623	Record weight	Record at birth
Issue Twentytwo Issue Parentname	10w 4d	5138615	Record weight	Record at birth
Choolwe Siakantu Zwino Syangandu	1y	4996971 188/17	Record weight	Record 9 months
Mosley Chizela... Estely Sakuba	8m 3w	4996963 202/17	Record weight	Record 10 weeks
John Rambo M/G.	5y 2m	5143144	Record weight	Record at birth
Patrick Malyamba Glady Imasku	6m	5136148 34	Record weight	Lost to Follow-Up
Rose Moonga Linda Bende	5m	60098014... 07/17	Record weight	Record 14 weeks

ZEIR > Robert Roberts Zone 1

Robert Roberts
ZEIR: 5047162 Age: 9w 1d

Robert Roberts
5047162

OPV 0
 BCG

24 Aug
25 Sep 2017

Cancel Set

ZEIR > Robert Roberts Zone 1

Robert Roberts
ZEIR: 5047162 Age: 9w 1d
CE

Weight-for-age BOYS

PREVIOUS WEIGHTS

Age	Weight	Z-score
9w 1d	6.0 Kg	0.6
7d	3.2 Kg	-0.3
0d	2.3 Kg	-2.4

Done

OpenSRP Six C's

CADRES

- **Support all frontline health worker cadres** - who they are, how they interact, roles, competencies and reporting mechanisms - to allow data sharing and reduce redundant data collection

CONVERGENCE

- **Support the client-worker interactions** - how frequently, at which location (home, clinic, camp) they converge, and promote *timely* delivery of services
- **Provide guidance and decision support** to the health worker
- **Capture error-free data** required for national health indicators and for local performance monitoring.

CONTENT

COLLECT

- **Schedule follow-up visits and enable record lookups** to promote continuity of care across services and life stages (e.g. Birth Registration → Immunization → Growth Monitoring)

CONTINUITY

- **Reporting & analysis of coverage**, workforce performance to enable data-driven supervision, performance feedback, incentives, and quality control.

CHARTING



OpenSRP Fe

- Two-way integration with OpenMRS
- Common data model (maps to CIEL concept dictionary)
- Offline functionality, including schedules, patient registrations, lookups
- Unique identifier module / QR code support / biometric support
- Global patient lookup
- Team-based data sharing
- DHIS2 integration and reporting
- In-app reporting

The screenshot displays the patient record for Joyce Mwansa at Linda Clinic. The record includes a photo of the patient, their name, EIR (5425428), and age (6w 4d). The 'WEIGHT-FOR-AGE' section has a 'Record weight' button and a share icon. The 'HER SIBLINGS' section shows a photo of a sibling. The 'IMMUNISATION RECORD' section shows the patient's DOB (17/12/2016) and a list of previous vaccinations: OPV 1, PCV 1, and Penta 1, all marked with green checkmarks. A red button indicates 'Record Rota 1 - due 12/12'. The '10 Weeks' section has buttons for 'Record OPV 2', 'Record PCV 2', and 'Record Penta 2'.



In-app Reporting

- Daily tallies of service data
- Monthly reporting indicator aggregations
- Submission to DHIS2

The screenshot displays the HIA2 Reports application interface. At the top, there is a navigation bar with the 'RW HIA2 Reports' logo and three tabs: 'Daily Tallies' (selected), 'Draft Reports (0)', and 'Sent Reports'. Below the tabs, the main content area is divided into sections by month, each containing a list of report dates with document icons. The sections are: March 2017 (4 March, 12 March, 26 March), February 2017 (2 February, 11 February, 23 February), January 2017 (2 January, 17 January, 28 January), and December 2016 (6 December, 14 December). To the right, a detailed view of a report titled 'Daily Tally > 4 March 2017' is shown. This view features a table for 'Under 5 Clinic Attendance' with columns for ID, Indicator, and Value. The table lists various indicators such as 'Attendance child health <12months (male)', 'Attendance child health <12months (female)', and 'Attendance child health <12months (total)'. Below the table, there are expandable sections for 'Growth Monitoring and Nutrition', 'Immunisation', and 'Vitamin A, Deworming, and ITNs'.

ID	Indicator	Value
CHN1-005	Attendance child health <12months (male)	2
CHN1-001	Attendance child health <12months (female)	2
CHN1-005	Attendance child health <12months (total)	2
CHN1-001	Attendance child health 12-59 months male	2
CHN1-005	Attendance child health 12-59 months female	2
CHN1-001	Attendance child health 12-59 months (total)	2
CHN1-005	Attendance child health total	2
CHN1-005	Attendance from outside catchment's area	2



- Record all stock activity: Stock received, Stock issued, and Stock loss or adjustment
- Stock forecasting and planning

RW Stock Control > M/MR

Current Stock | Stock Planning

M/MR Stock: 14 vials

+ Received - Issued Loss/Adj

Date	To/From	Received (+)	Issued (-)	Loss/Adj	Balance
15/02/17	DHO	10			14
10/02/17	C/C		2		4
06/02/17	C/C		4		6
01/02/17	Clinic		1		10
25/01/17	Physical Count			-2	11
20/01/17	DHO	10			13
18/01/17	Children's Clinic		1		3

Note: stock numbers are in vials

RW Stock Control > M/MR

Current Stock | Stock Planning

M/MR Planning

3 month M/MR stock levels

3 month M/MR stock used

Feb 2017	8 vials
Jan 2017	6 vials
Dec 2016	8 vials
3 month average	8 vials

Current M/MR stock: 14 vials

Number of active children

Age	Last Month	This Month	Difference
0 – 11 months	45	55	+10
12 – 59 months	45	40	-5
Total	135	150	+15

Due M/MR next month April 2017: 15 vials

Calculated from current active children that will be due for M/MR next month.

Average M/MR waste rate: 10%



ZEIR Summary Dashboard ☆



Total Children Registered

31,677

Children registered

Total Immunizations Given

293,459

Immunizations given

Total Weights Recorded

53,482

Weights recorded

District Filter

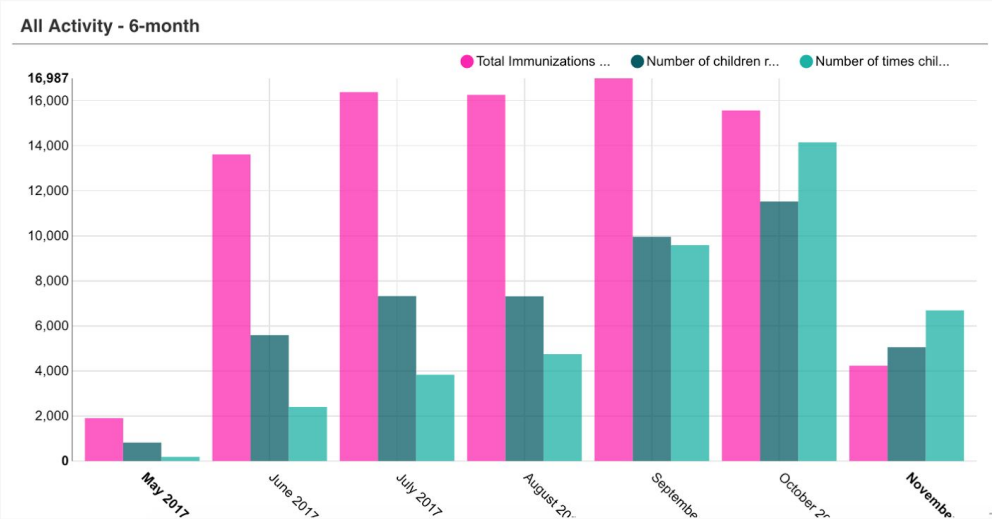
Since Until

district_name

Facility Filter

Since Until

facility_name



Totals by District - All-time

district_name	Number of times children weighed	Number of children registered	Total Immunizations Given
Kalomo District	22.5k	7.61k	95.6k
Mazabuka District	11.2k	5.79k	69.9k
Kazungula District	7.78k	5.65k	68.0k
Livingstone District	6.64k	4.14k	42.5k
Pemba District	4.72k	1.10k	10.6k
Choma District	3.15k	544	5.57k
Gwembe District	1.86k	93.0	1.03k
Zimba District	65.0	68.0	249
NULL	6.00	6.00	29.0
Fort Jameson	1.00	1.00	6.00