



**GLOBAL  
HEALTH**  
SUPPLY CHAIN SUMMIT



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# Integrating systems to provide end to end visibility

*Supplying remote health facilities with critical commodities takes more than one system.*

Mary Jo Kochendorfer

VillageReach on behalf of the OpenLMIS Community

OpenLMIS Product Manager



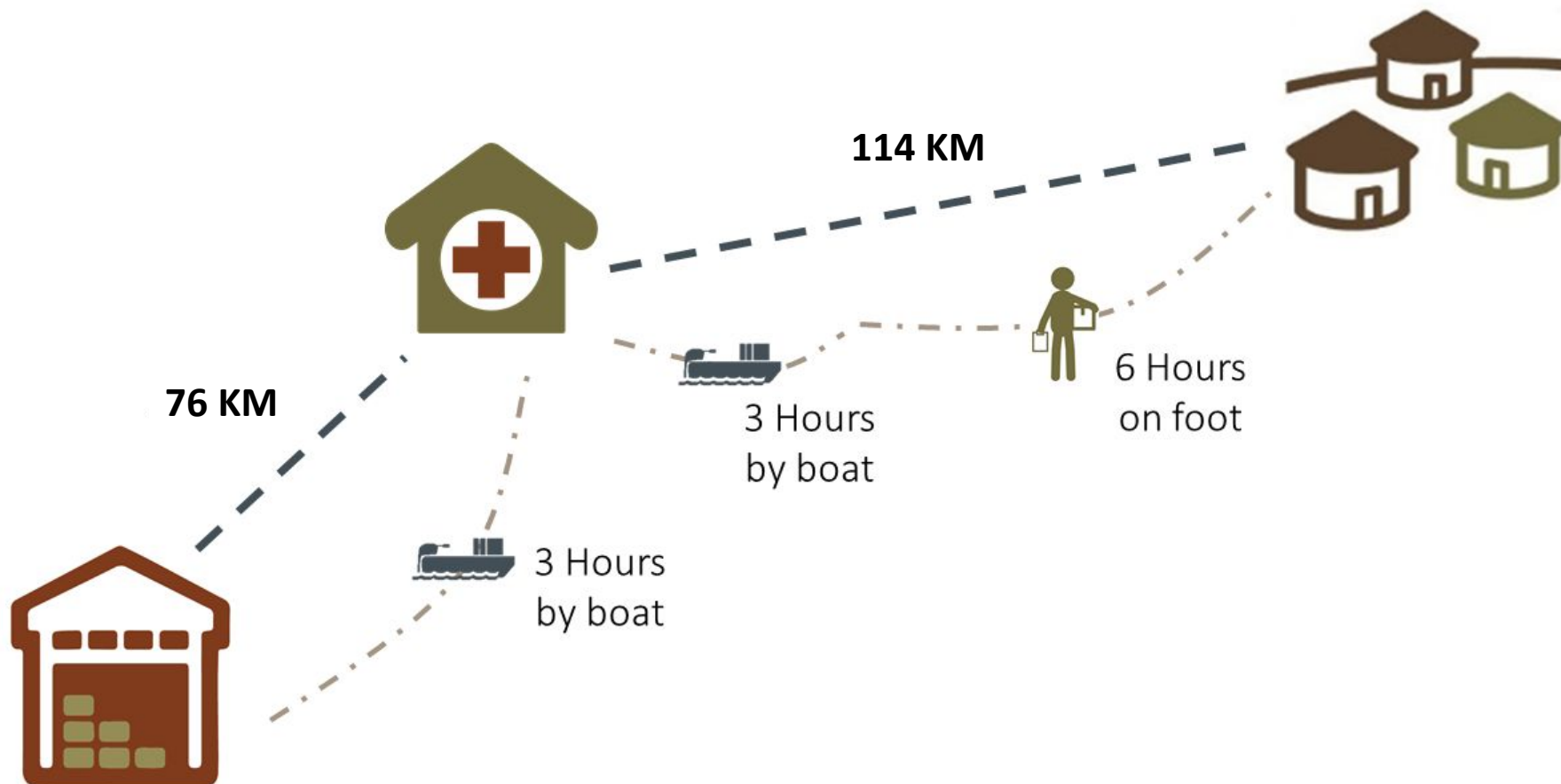
# Session Objectives

- Understand independent and combined value of the health and supply chain domains.
- Understand the both the end-to-end visibility and track-and-trace paradigm across multiple systems
- Learn about best-in-class software systems in each domain

# What Does It Take To Deliver Care?



# The Distance



# Cold Chain Monitoring



# Inventory Control





# Tracking Child Health



# Balancing between multiple systems



# Why integrate systems?



## Improve Health Outcomes

- Product availability
- Track and trace

## Improve Operating Efficiency

- Reducing data entry
- Increased Accuracy
- Improving visibility

# Health Outcomes

Alignment between supply and demand will improve availability of essential medicines.

- Accurate consumption improves reorder quantities
- Demand information fine tunes reorder amounts



# Improve Health Outcomes

Unlock Track and Trace



Track and Trace is the ability to trace where specific items in your supply chain have been and where they are going. By utilizing track and trace, supply chains are secured against substandard and falsified items from entering it - **greatly enhancing patient safety.**



# Improve Operating Efficiency by

Reducing data entry across systems

Improving data quality and visibility

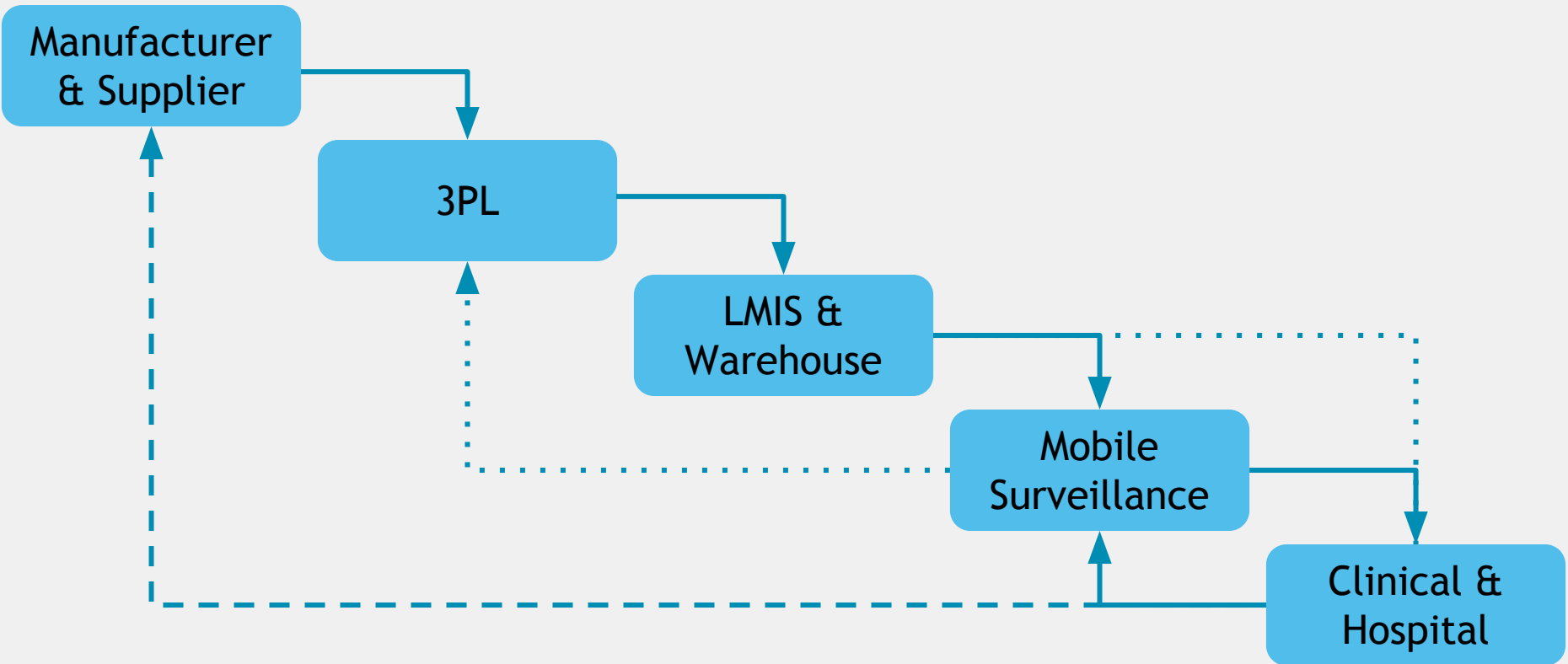
Speeding up reporting and deriving insights

Leveraging the best system for each level and function

*Creates an environment that encourages “best in breed” tools working together, rather than “one size fits all”*

# Unlocks Supply Chain Visibility

Items in a supply chain pass through many different hands using many different IT systems. Visibility is connecting the inventory reports of each of those IT systems into a holistic picture of commodity availability and consumption.



# Architecture

- Requisitions
- Orders
- Shipments
- Proof of Delivery
- Stock Management
- Master Data Management



- Person Index
- Health Records
- Mobile Inventory Control
- Real time dashboards

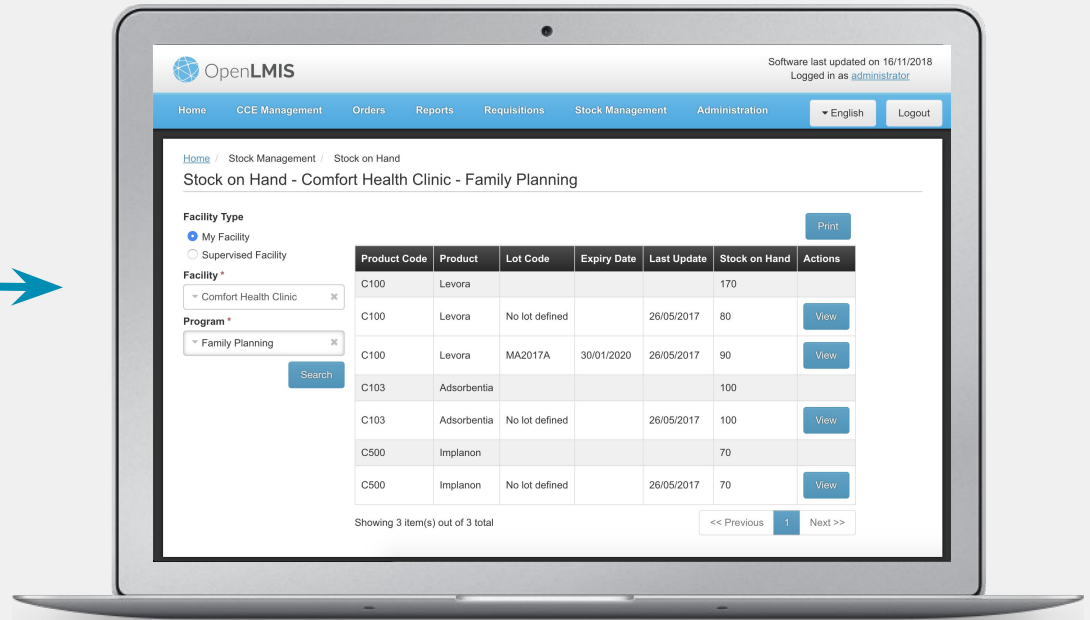
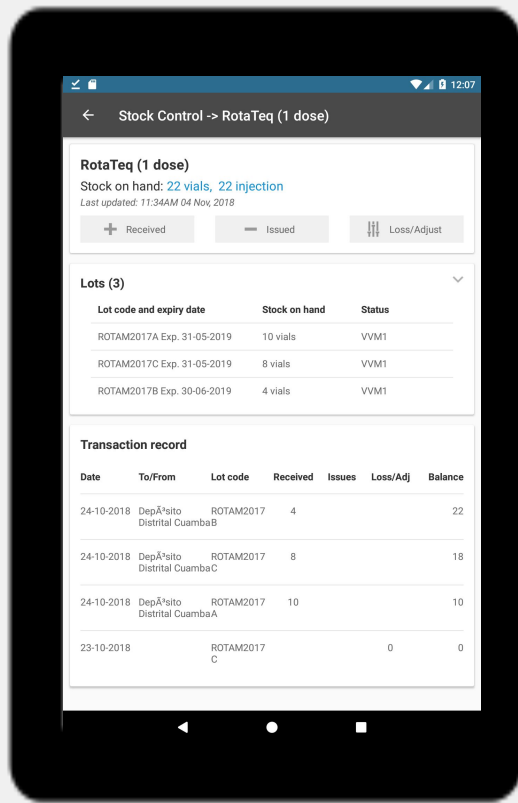


- Remote Temperature Monitoring
- Real time dashboards
- SMS Cold Chain Reporting

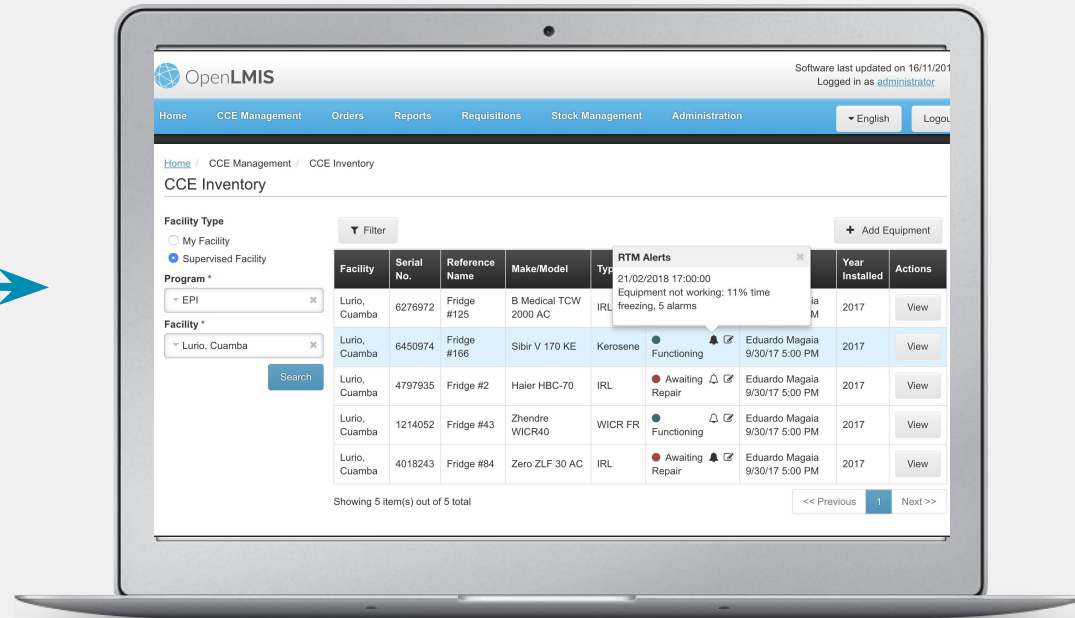


# End to End Visibility

## Integrating OpenSRP and OpenLMIS



# Remote Temperature Monitoring to OpenLMIS



OpenLMIS

Software last updated on 16/11/2017  
Logged in as administrator

Home CCE Management Orders Reports Requisitions Stock Management Administration English Logout

Home / CCE Management / CCE Inventory

### CCE Inventory

Facility Type

My Facility

Supervised Facility

Program +  
EPI

Facility +  
Lurio, Cuamba

Search

Facility	Serial No.	Reference Name	Make/Model	Type	RTM Alerts	Year Installed	Actions
Lurio, Cuamba	6276972	Fridge #125	B Medical TCW 2000 AC	IRL	21/02/2018 17:00:00 Equipment not working: 11% time freezing, 5 alarms	2017	View
Lurio, Cuamba	6450974	Fridge #166	Sibir V 170 KE	Kerosene	Functioning	Eduardo Magaia 9/30/17 5:00 PM	2017 View
Lurio, Cuamba	4797935	Fridge #2	Haier HBC-70	IRL	Awaiting Repair	Eduardo Magaia 9/30/17 5:00 PM	2017 View
Lurio, Cuamba	1214052	Fridge #43	Zhendre WICR40	WICR FR	Functioning	Eduardo Magaia 9/30/17 5:00 PM	2017 View
Lurio, Cuamba	4018243	Fridge #84	Zero ZLF 30 AC	IRL	Awaiting Repair	Eduardo Magaia 9/30/17 5:00 PM	2017 View

Showing 5 item(s) out of 5 total

<< Previous 1 Next >>

# View CCE alarms when issuing stock

[Home](#) / [Orders](#) / [View Shipment](#)

## Fulfilling Order - ORDER-4FRRFG74R

### 5 Inventory Items

- Fridge #125
- Fridge #166
- Fridge #2
- Fridge #43
- Fridge #84

Status	Date Created	Program	Facility	Facility CCE status
FULFILLING	17/10/2018	EPI	Lurio, Cuamba	● Not fully functioning

Packs Doses

Product Code	Product	Lot Code	VVM Status	Expiry Date	Order Quantity	Fill Quantity (in Packs)	Available SOH	Remaining SOH
bcg20	BCG				0	0	82	82
IVX-BCG-20-1234	Intervax BCG (20 dose)					0	82	82
		BCGI2017A		01/06/2019		<input type="text" value="0"/>	71	71
		BCGI2017B		01/07/2019		<input type="text" value="0"/>	11	11

# What is OpenLMIS



Multi-level/program



Fulfillment/Shipping



Requisitioning/Ordering



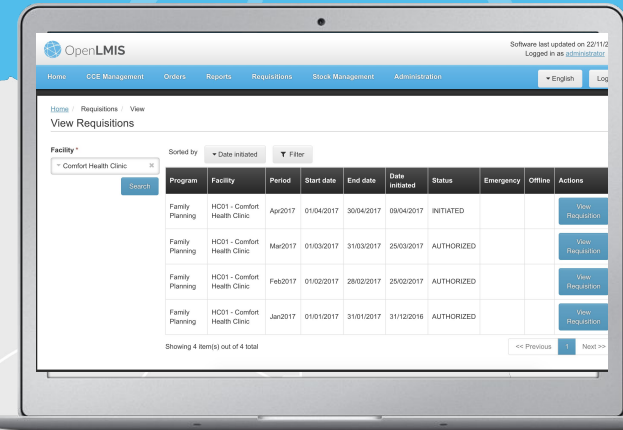
Cold Chain Management



Standards based interoperability



Stock Management



THE GAMBIA

GUINEA

COTE D'IVOIRE

BENIN

CAMEROON

DRC

ANGOLA

ZAMBIA

MOZAMBIQUE

TANZANIA & ZANZIBAR

MALAWI

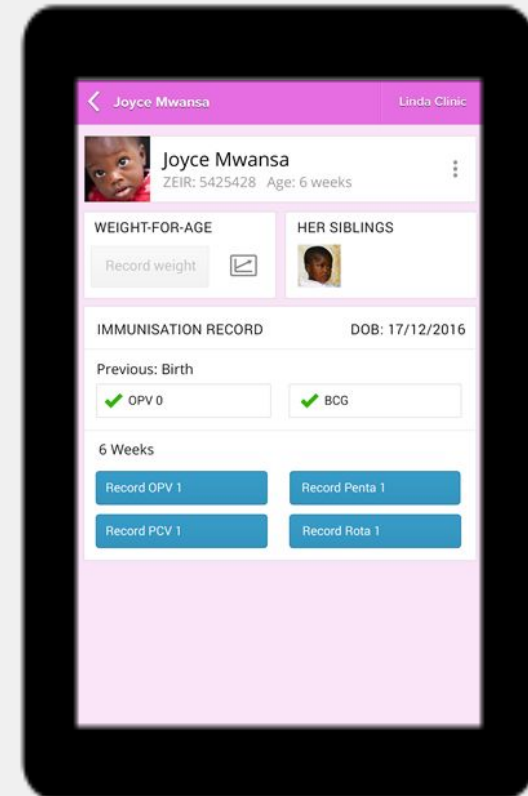
## Existing and Prospective OpenLMIS Implementations

EXISTING

PROSPECTIVE

# What is OpenSRP

- Open source platform
- Focuses on delivering for health workers' needs
- Modular design
- Interoperable with DHIS2, OpenMRS, and RapidPro.





# Conclusions

Supply Chains are complex and OpenLMIS, nor any single IT system, will ever manage it effectively end-to-end.

OpenLMIS has a deep well of functionality to help you manage your logistics, however interoperability through best-practice standards is at the heart of what will make OpenLMIS apart of supply chain best-practice.



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