ELECTRONIC LOGISTICS MANAGEMENT INFORMATION SYSTEMS (LMIS)

A New Open Source Option
Medical Commodity Supply Chain Domain

Forecast
Procure
Warehouse
Replenish
- Report/Requisition
- Order
- Ship
- Receive
Challenges

- Poor Data Quality
- Low Reporting Rates
- Inaccurate
- Program Specific
- Country Specific
- Level Specific
- Late
- Hard to Maintain
- Proprietary
- Costly to Donors
- Expensive
- Paper Systems
- Fragmented Solutions
- Hard to Maintain
- Expensive
- Proprietary
- Paper Systems
- Late
- Inaccurate
- Program Specific
- Country Specific
- Level Specific
Greentree Principles

- We agree to coordinate our work and share experiences to strengthen health systems. *(Coordinated Approach)*
- We will respond to capacity development needs articulated and driven by the countries. *(Country Ownership & Capacity Development)*
- We are committed to openness, including promotion and use of open standards, and sharing of requirements and other technology knowledge components. *(Openness)*
- We will extract reusable components from appropriate projects, and build new, shared components *(Strategic Reuse)*
The OpenLMIS Initiative
OpenLMIS History & Partnerships

2011
- Global Requirements for Logistics Management
- Zambia & Tanzania Requirements using CRDM process

2012
- OpenLMIS Architecture Designed
- JSI, Tanzania, Zambia, VillageReach, and ThoughtWorks join forces to build system

2013
- OpenLMIS Community Plan Developed
- Version 0.9 Global Released
- eLMIS Launched in Tanzania & Zambia

2014
- OpenLMIS Deployed in Mozambique
- Version 1.0 Global Released
Key Features & Benefits

- Highly Scalable
- Highly Configurable
- Web-Based
- Automatically Calculated Replenishment Quantities
- Optimized for Low-Infrastructure Environments
- Tablet & Mobile Extensions
- Automated Notifications
- Multi-Language Support
OpenLMIS Features and Functionality Roadmap

Information Output
- Reports
- Dashboard Indicators
- Notifications

Workflows
- Workflow
- Offline Mode

Foundational Capabilities - Configuration
- Budgets
- Rationing / Validation
- Product Substitution
- Back Orders
- Related Products
- Cold Chain and other Equipment
- Inventory
- Dispensing
- Forecasting

Replenishment Cycle
- Requisition Process
- Allocation Process
- Order Process
- Shipment Process
- Receiving Process
- Foundation
- System Deployment
- System Administration
- System Basics

Integration with External Systems
- Integration
- External Systems

Legend:
- v1.0 Global
- Future versions

Other Future Features and Functionality:
- Manage products and lots via barcodes
- Product authentication codes
- Handheld device compatibility
- OCR input
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Highly Configurable
Vary Levels by Program

- **Procurement**
  - Malaria
  - Vaccines
  - Essential Meds
  - ART

- **National Level**
  - Malaria
  - Vaccines
  - Essential Meds
  - ART

- **Regional Level**
  - Malaria
  - Vaccines
  - Essential Meds
  - ART (Level skip)

- **District Level**
  - Malaria
  - Vaccines
  - Essential Meds
  - ART

- **Service Delivery Level**
  - Malaria
  - Vaccines
  - Essential Meds
  - ART

- **CHWs**
  - Malaria
  - Vaccines
  - Essential Meds
  - ART
Interoperability

*Future Integrations
Implementations

Tanzania
- Requisition Model
- Nationwide/All Programs & Products, 3,300 facilities
- Integration with Finance and ERP systems
- Multi-Tier Approval Process, Varies by Program
- Quarterly, Staggered Delivery Schedule

Zambia
- Requisition Model
- ART, HIV Tests, Laboratory, and Essential Med Programs
- Facility Addition for offline data entry
- Target roll-out to 300+ facilities

Mozambique
- Allocation Model
- Vaccine Program Only
- Four Provinces
- Province to SDP: Level-skips district
Discussion Questions

• What are gaps in information systems for routine healthcare delivery and disaster relief?
• What’s working/not working? What are the promising solutions?
• What’s your experience with open source vs. proprietary solutions. Is open source a good model for this space?
• Is OpenLMIS applicable to disaster relief supply chains? How could OpenLMIS evolve to support these needs?