

# OpenLMIS

19 April 2018



# Our goal

Today, we hope that you leave with a better understanding of

1. What OpenLMIS is and how it works
2. Where OpenLMIS fits into a country's health information system landscape and where it can provide value
3. Ways to engage with the OpenLMIS Community and learn more about potential implementation

**If we haven't met this goal or if you'd just like to learn more, please come see us after the session**

# OpenLMIS Team



**Tenly Snow**

**Community Manager:** define and support community processes, facilitate communication between partners, identify opportunities



**Brandon Bowersox-Johnson**

**Governance Member:** advise on strategy and direction for the overall OpenLMIS initiative



**Vidya Sampath**

**iSC Advisor:** identify iSC user needs, define requirements, & liaise with global and country EPI stakeholders



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# OpenLMIS Initiative

## Donors

BILL & MELINDA  
GATES foundation



USAID  
FROM THE AMERICAN PEOPLE



The ROCKEFELLER  
FOUNDATION



PEPFAR  
U.S. President's Emergency Plan for AIDS Relief



Life Saving  
Commodities  
Improving access,  
saving lives



Gavi  
The Vaccine Alliance

## Implementers



Chemonics

VILLAGE REACH  
*Starting at the Last M*



AGENCE DE  
MEDECINE  
PREVENTIVE



## Technology Partners

ONN



solutions development

ThoughtWorks®



Through **9** implementations



OpenLMIS manages logistics processes for over **10,000** health facilities across Africa

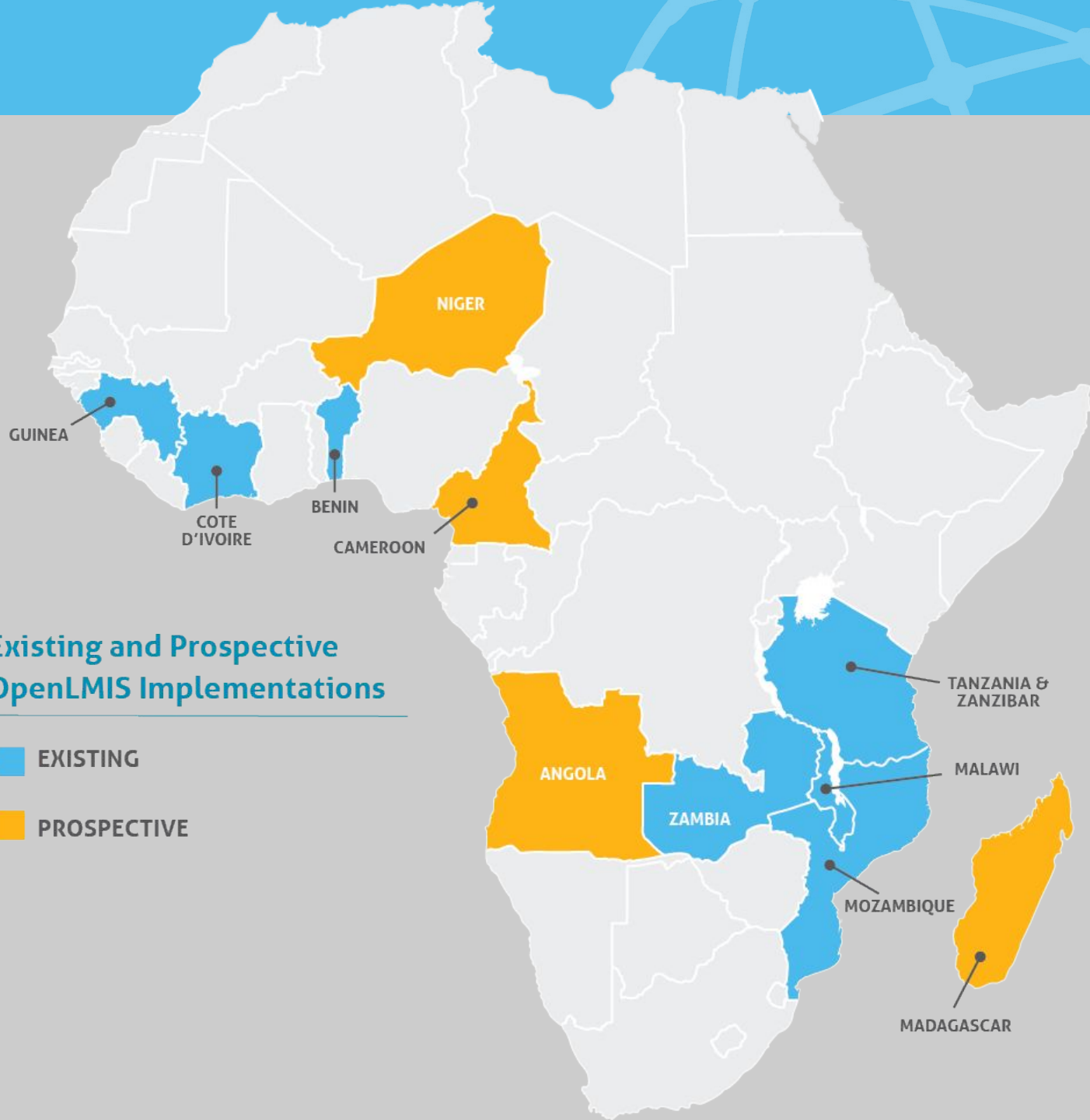


Increasing data visibility and timeliness

Reducing stockout frequency and duration

### Existing and Prospective OpenLMIS Implementations

-  EXISTING
-  PROSPECTIVE



# The OpenLMIS Software Vision

## Shared Investment, Shared Benefit



Promoting code reuse through microservices architecture and community approach

## Interoperable



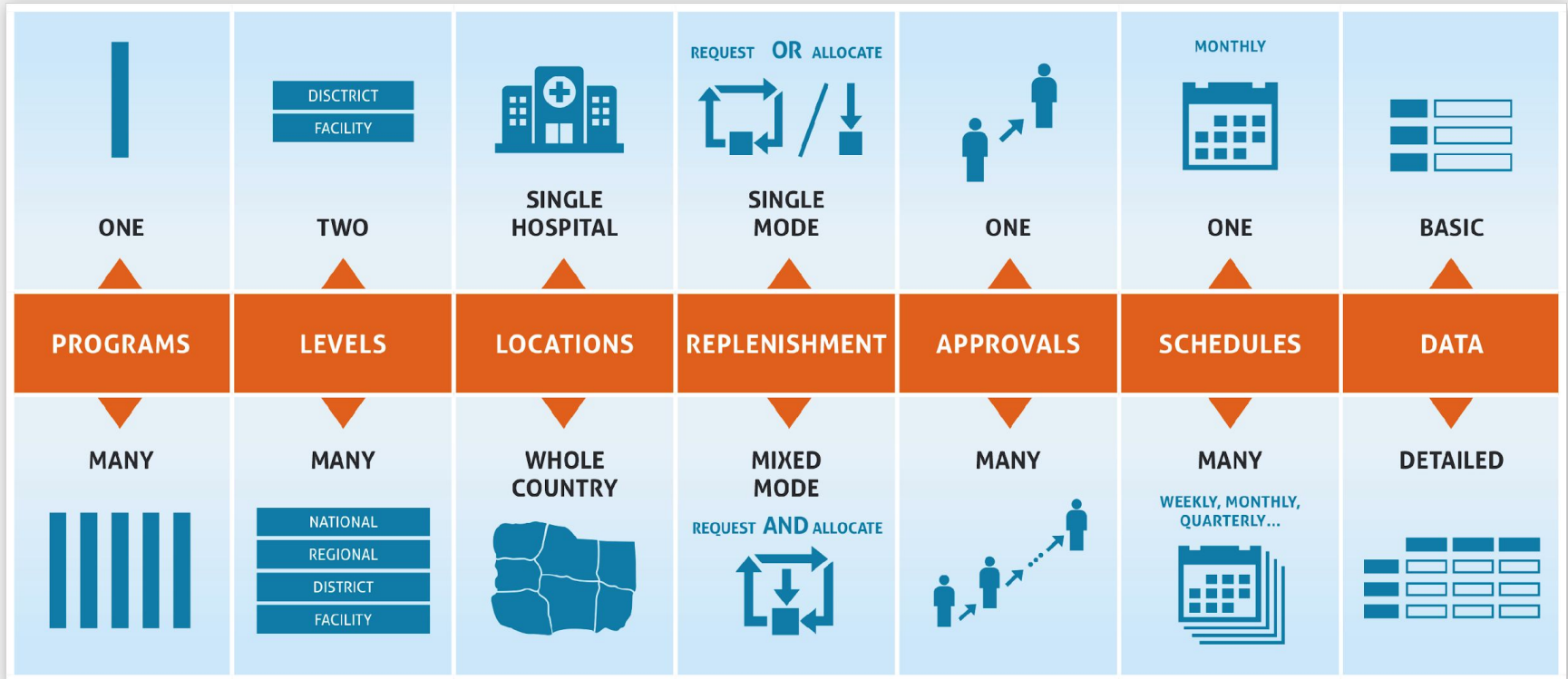
Standards-based, API-driven interoperability to work with almost any other system

## Configurable and Extensible



Modular architecture enables extensibility *without* forking

# Configurability





# OpenLMIS Features



## Requisitions:

Use stock data to generate orders for a configurable approval process.



## Stock Management:

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



## Order Fulfillment:

Fulfill and ship orders based on stock on hand and send a Proof of Delivery from the ordering facility.



## Analytics and Reporting:

Use and display data with intuitive visualization that support decision-making.



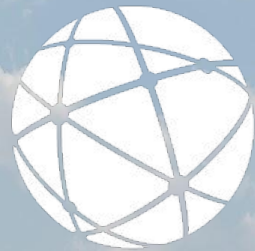
## Mobile Integration:

Connects dispensing and supply information at the point of care through an integration with OpenSRP.



## Equipment (CCE):

Track cold chain equipment inventory, functional status and receive real-time alerts on device temperature.



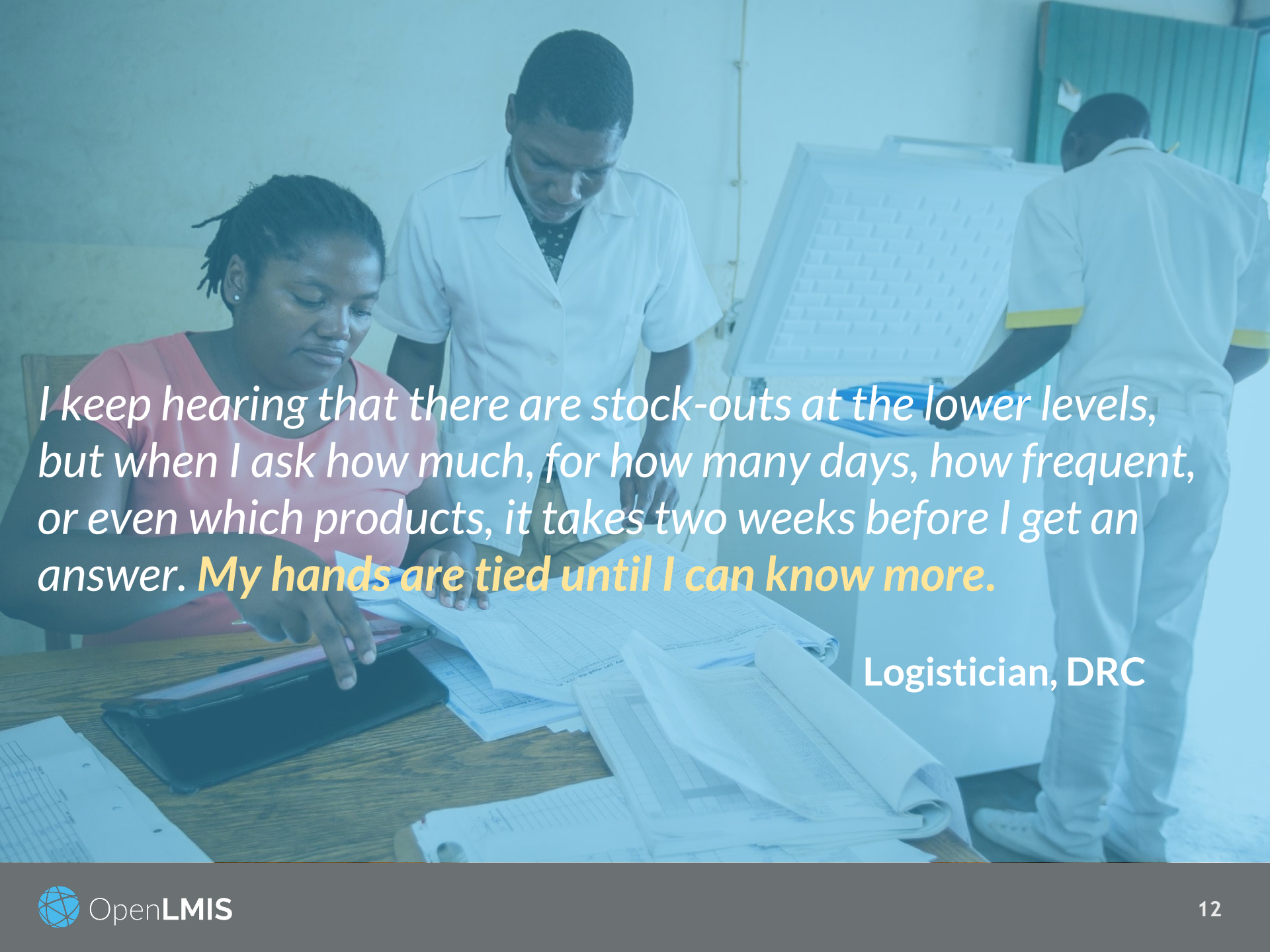
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*The HMIS says 110% children are immunized last quarter but the stock ledgers say there were stockouts the same time.*  
*Which data should we trust?*

EPI Manager, Zambia



*I keep hearing that there are stock-outs at the lower levels, but when I ask how much, for how many days, how frequent, or even which products, it takes two weeks before I get an answer. **My hands are tied until I can know more.***

Logistician, DRC

A photograph showing three healthcare workers in white coats and blue lanyards. They are gathered around a large, white, multi-door refrigerator. One worker is reaching into the top compartment, while the others look on. In the foreground, a white wire basket is partially visible, containing some papers and a small red object. The entire image has a light blue tint.

*There are some facilities that I'm afraid to send vaccines to because I know in the past their cold chain was a problem. I have to call or send in batches because **I don't know for sure** what's happening with the fridge.*

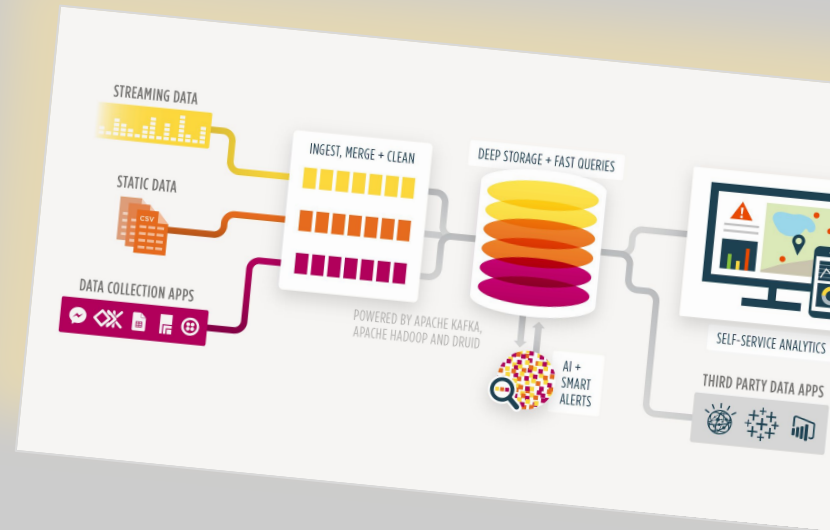
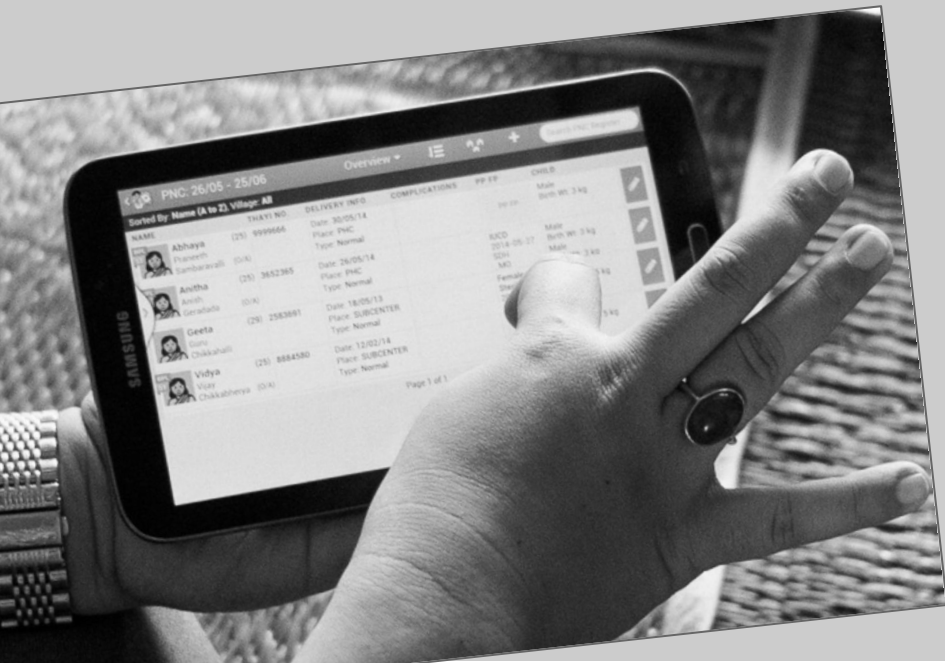
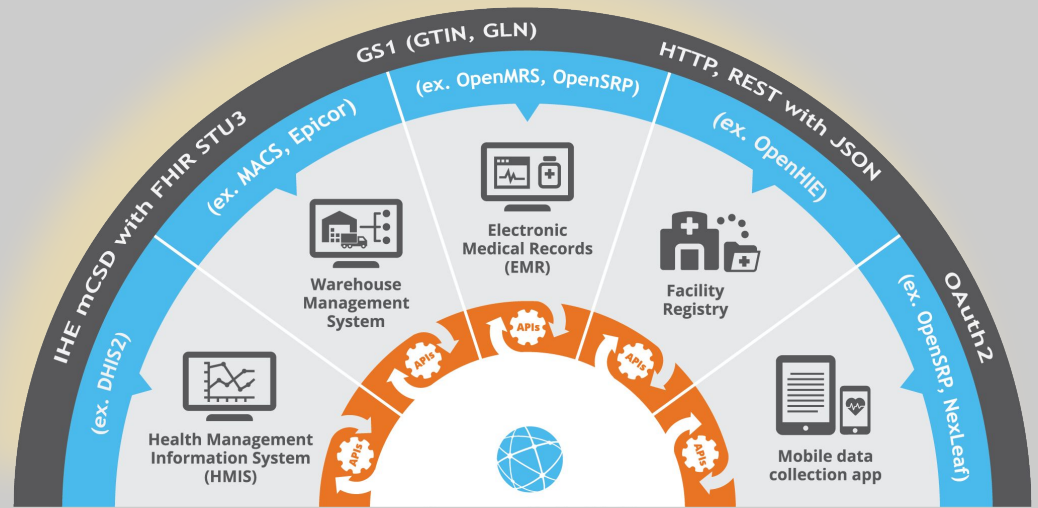
**Sub-national Vaccine Depot Manager, Benin**

### 5 Inventory Items

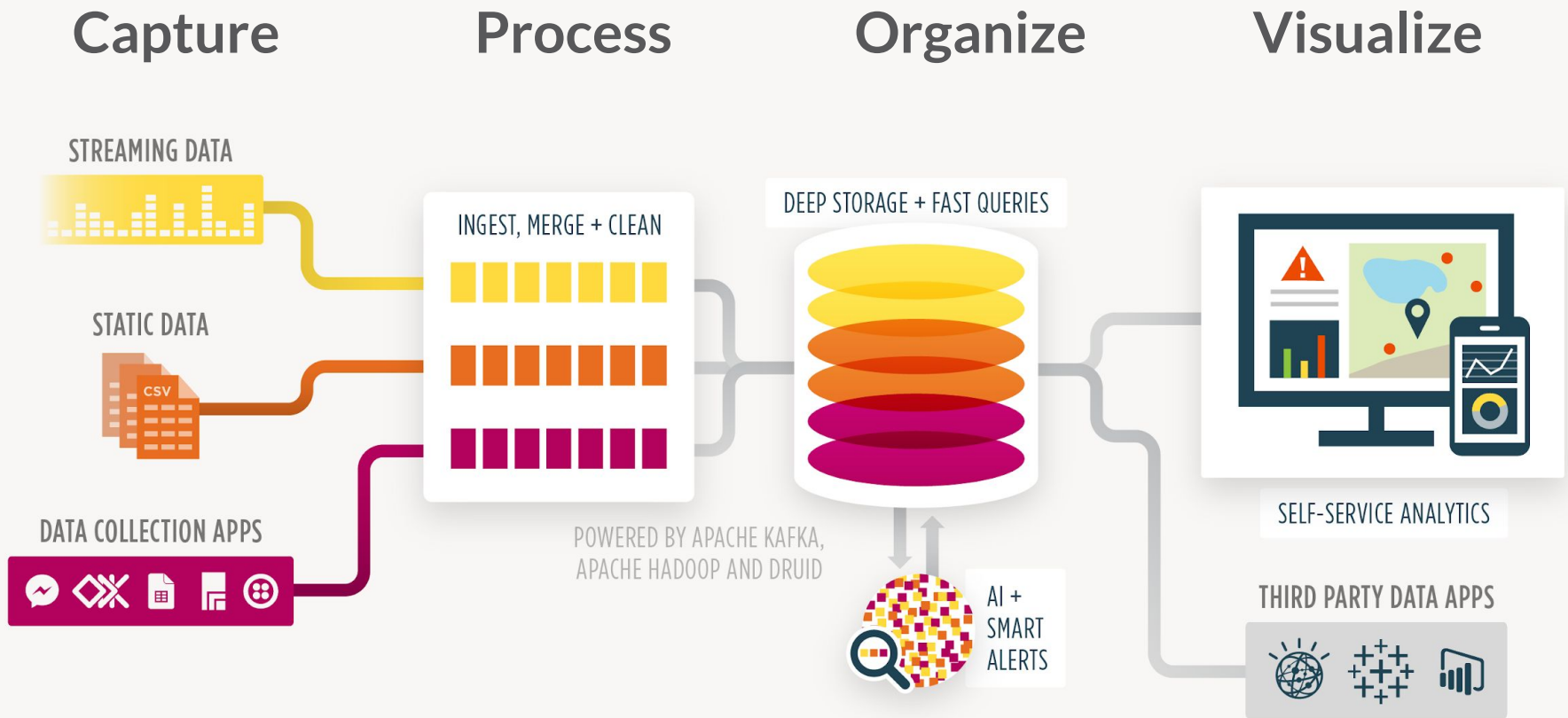
- Fridge #125
- Fridge #166
- Fridge #2
- Fridge #43
- Fridge #84

● Not fully functioning

### Facility Overview Status



# Analytics Infrastructure



# Reporting and Analytics



**What is happening?**



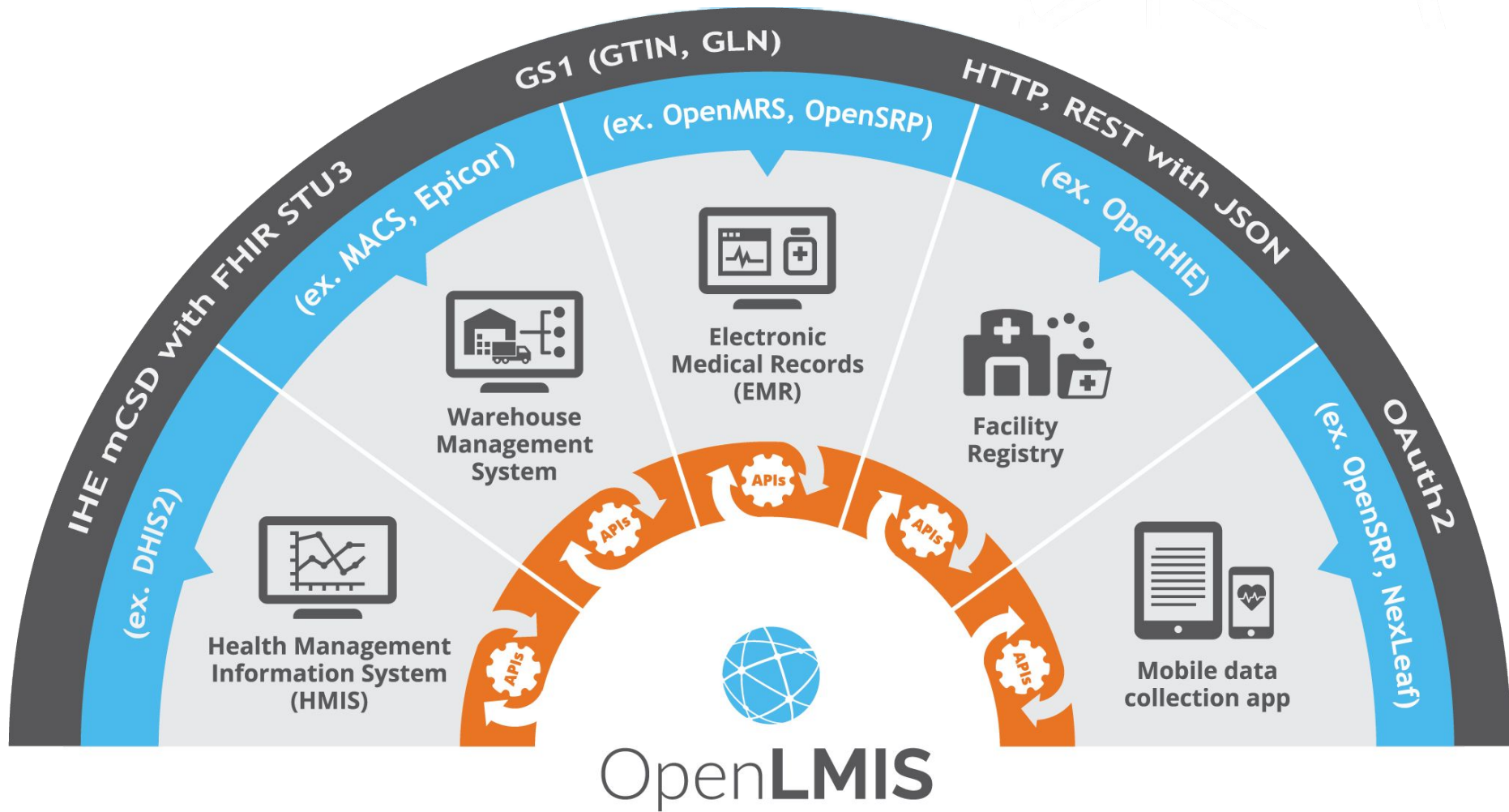
**What data is driving that state?**



**Where should I focus?**



# Standards based interoperability



# Health Management Information System



# Warehouse



# Electronic Medical Record



# Facility Registry

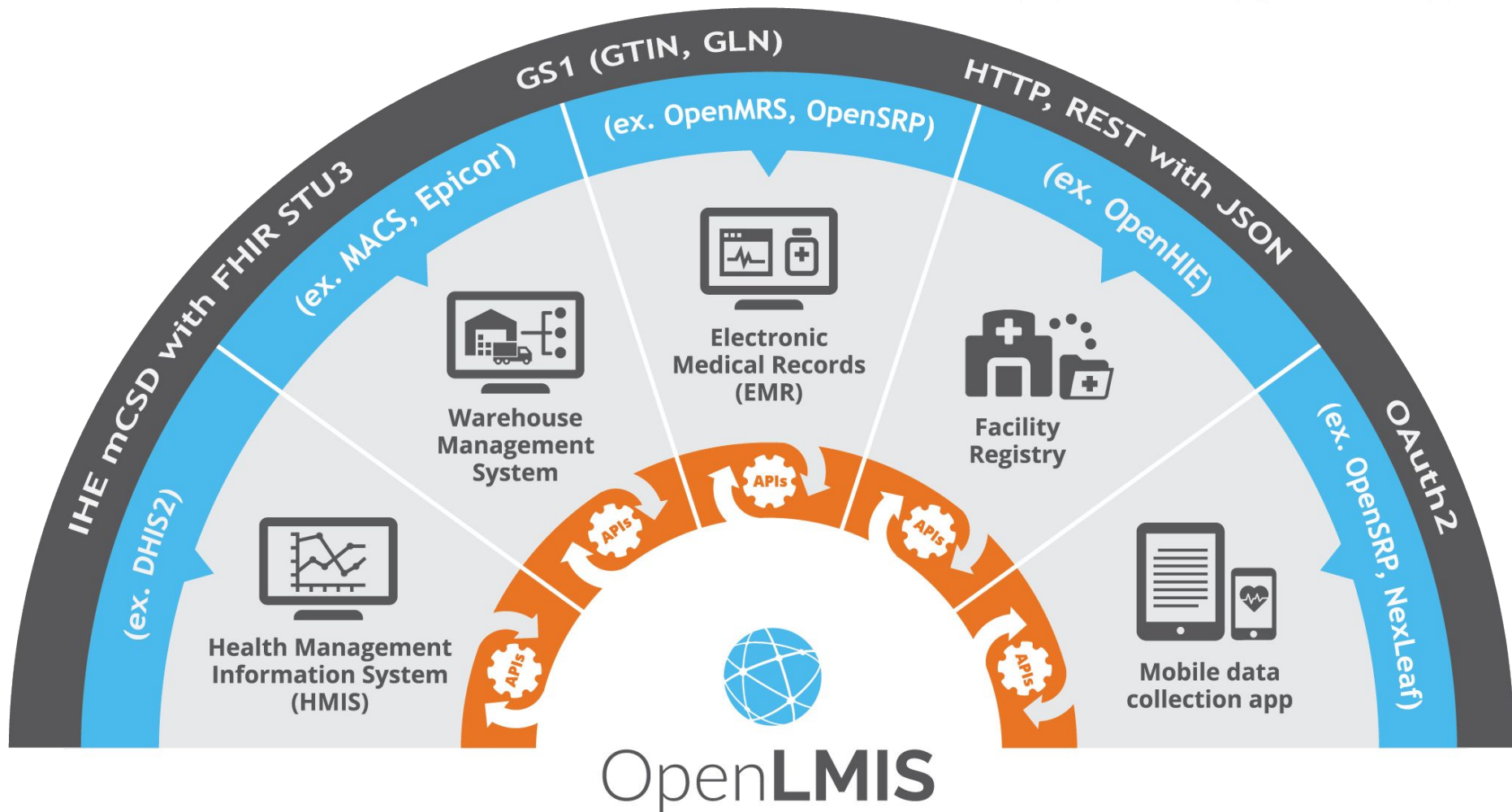


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# Mobile



# The whole pie



# New Support Materials

## Implementer Toolkit

### Before You Start

Learn more about OpenLMIS and determine the scope of the implementation. >

0



### Get Started

Lay the groundwork for a successful deployment

1



### Plan

Develop your project plan for an OpenLMIS deployment

2



### Implement

Set up, customize, and deploy OpenLMIS

3



### Expand

Scale up your deployment from a pilot

4



### Maintain

Keep your system running and take advantage of new releases and features





## Get Started

Lay the groundwork  
for a successful  
deployment

# Laying the groundwork for a successful deployment

**Common Ground & CRDM - Requirements - Country Landscape - Cost Estimates**



## Plan

Develop your project  
plan for an OpenLMIS  
deployment

# Planning your project

**Community - Scoping - Project Planning - Project Governance & Management - Interoperability & Standards - Monitoring & Evaluation**



## Implement

Set up, customize, and  
deploy OpenLMIS

# Setting up, customizing, and deploying OpenLMIS

**Community - Software Development & Technical Setup Guide - Configuration Guide - Training and Support - Testing/QA**



## Expand

Scale up your  
deployment from a  
pilot

# Scaling up your deployment

**Community - Governance - Project Management - Training**



## Maintain

Keep your system  
running and take  
advantage of new  
releases and features

# Keeping your system running

**Community - Maintenance & Support - Training**

# Getting involved



## Contribute to the toolkit

The OpenLMIS Implementer Toolkit is only as good as its contributors!

We welcome feedback and additional resources to help make the Toolkit a valuable and useful guide

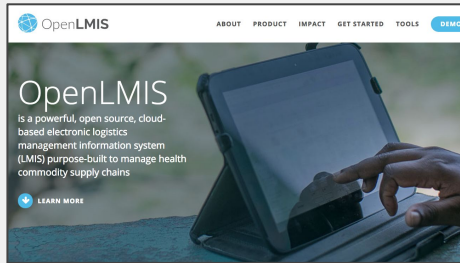


## Join the Community

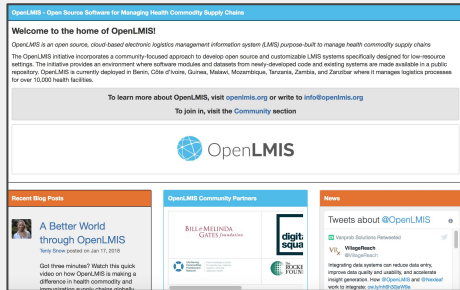
What sets OpenLMIS apart is the support of highly skilled and experienced partners

Add your voice to this growing community of global health leaders and help make OpenLMIS even better

# Learning more



**openlmis.org**  
Blog posts, implementation map, features, tools, and the Implementer Toolkit can be found on the OpenLMIS website.



**Wiki**  
The wiki is the source for community meeting notes, committee descriptions, product design considerations, project management, and the living product roadmap.



**Documentation**  
ReadtheDocs contains developer-oriented OpenLMIS documentation. Users can find developer docs, ERD schemas, an OpenLMIS coding style guide, and API documentation.

Visit the OpenLMIS YouTube channel for demo videos and more

# Takeaways

## 1. WHO WE ARE

An **open source** technology solution and **initiative** that can help countries **actively manage** their complex supply chains.

## 2. WHAT WE CAN DO

End-to-end data visibility, with improved access and quality data to address barriers to data usage--- OpenLMIS **improves data reporting** and makes it enticing.

## 3. WHAT SETS US APART

OpenLMIS strives for **standards-based interoperability** and provides a highly configurable and extensible system to meet countries where they are at.

## 4. HOW CAN WE WORK TOGETHER

OpenLMIS has **no software licensing fee** – allowing countries to focus investments on people, processes, and improving local health systems.

# Obrigado! Merci! Thank You!

Come see us right now if you want to see  
a quick demo of any of the features  
mentioned today

Contact us by emailing [info@openlmis.org](mailto:info@openlmis.org)

Or by reaching out to Tenly directly  
[tenly.snow@openlmis.org](mailto:tenly.snow@openlmis.org)



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## Audience

**PATH country directors and senior leaders** (interested in PATH role/relevancy to support Ministries of Health, including devices, innovation, system design)

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Aggressively introductory, know where it fits in, what its value is, how to engage

Brandon's idea: What problem does it solve? > reframing

Focus new slides on how we tell what OpenLMIS does > what software actually does

Interoperability

Q & A – Team

(and afterwards other country alignment issues where relevant based on attendees)

## Goals

1. Participants walk away understanding OpenLMIS - what it is, what problems it can solve
2. Bring PATH up to speed on OpenLMIS as a leader for interoperability with open data standards, **and an ability to support multiple public health programs, levels, users, facility types**
3. Work on better alignment (case-in-point is DRC) **(alignment in terms of what? Good to get a little bit more specific here)**

## Notes:

Slides pre-13: Beef up (possibly add 1-2 additional slides)

Post-13: Look at continuing the conversation on 35/36/37

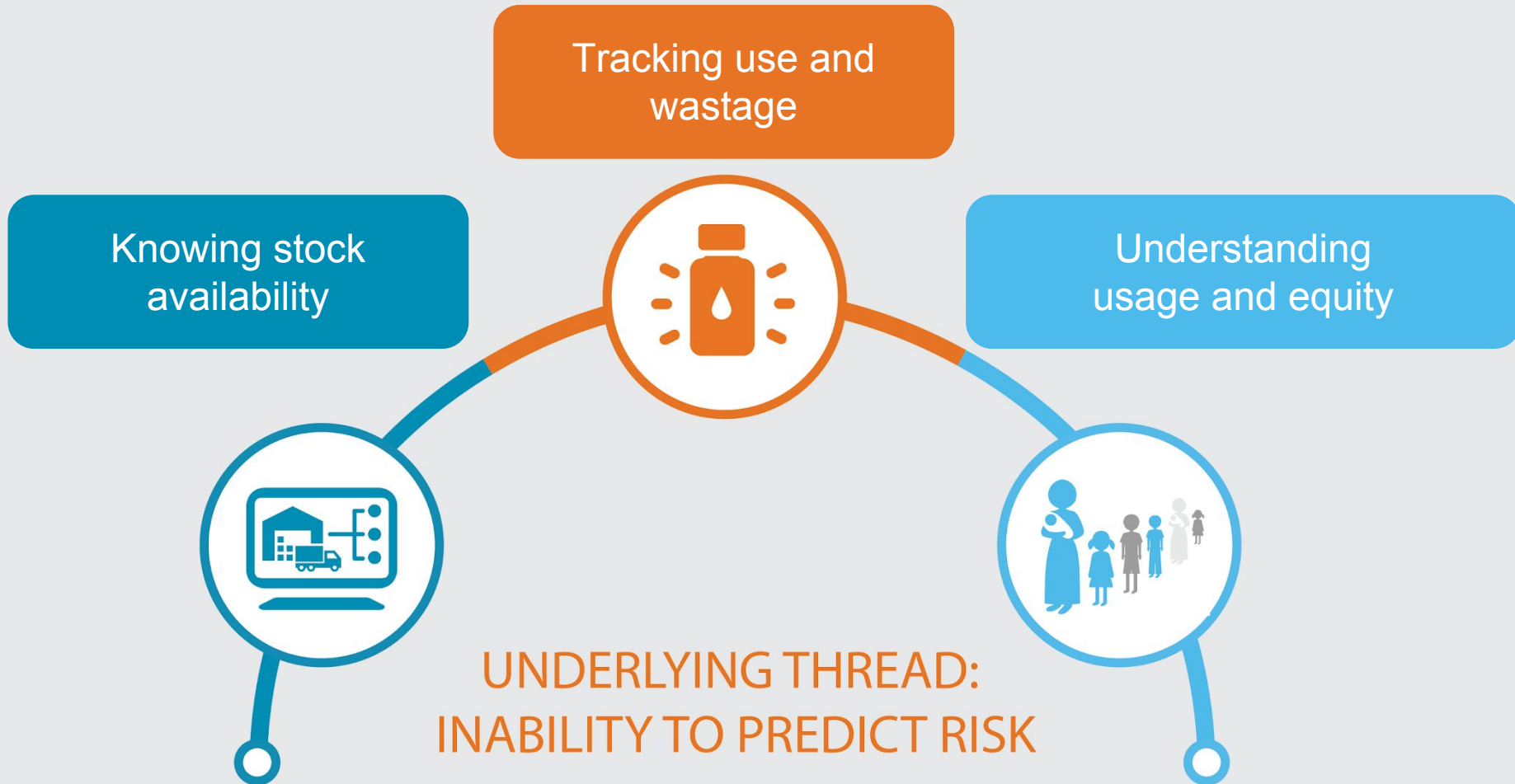
14-33 probably shouldn't be used unless there is a specific message to convey

Slide 21 - insert after 10 or 11 - major investment, or could put w 19

## Assignments:

- Brandon Demos (OpenSRP and Reporting and OpenLMIS; see slide 22 to prep; schedule prep Weds)

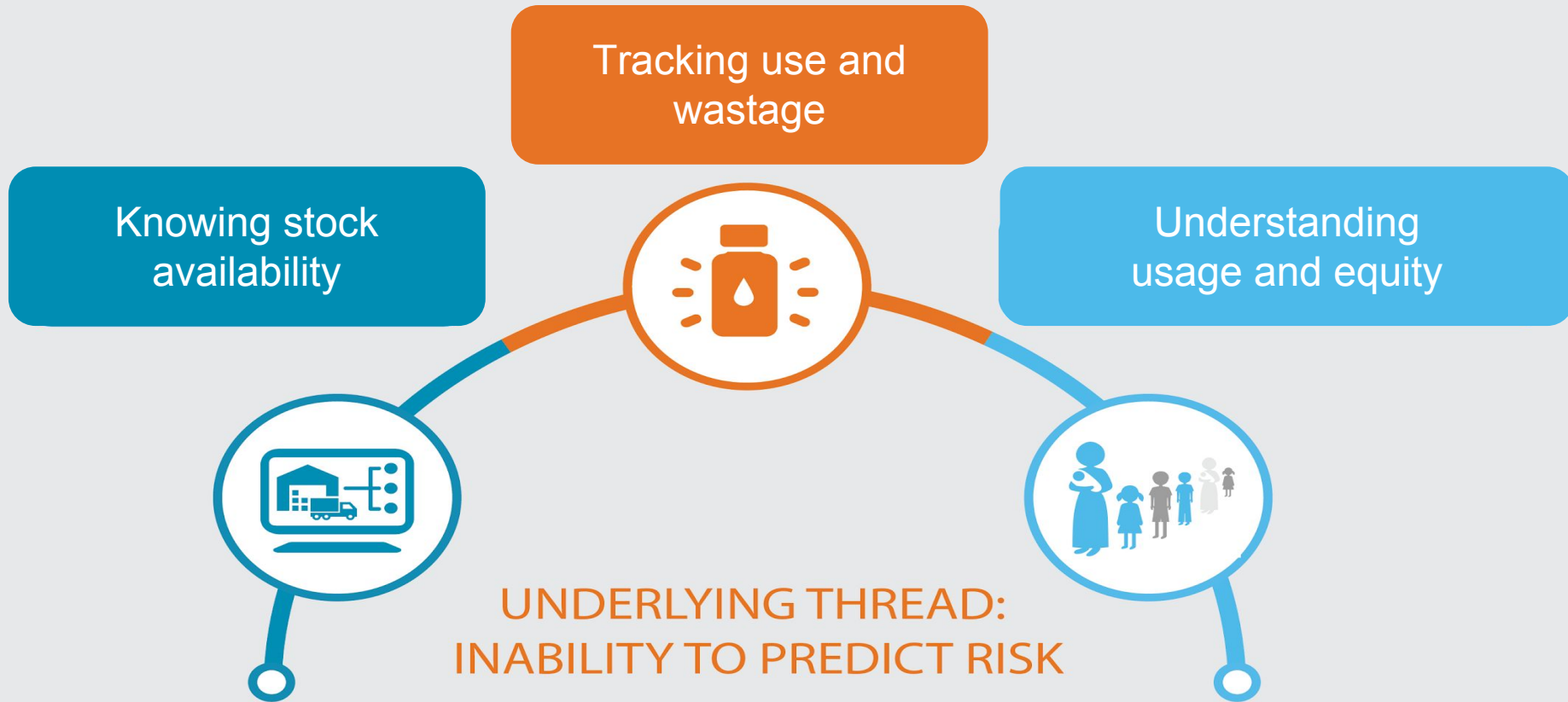
# Common challenges...



Impactful data is the key to meeting these challenges proactively



# ...OpenLMIS can help



Impactful data is the key to meeting these challenges proactively

OpenLMIS provides a solution to address these challenges

# Standards based interoperability



Interoperability