



Using mHealth Technologies to Improve the Availability of Essential Medicines

Tanzania Ministry of Health and Social Welfare
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Presentation Overview

- JSI's mHealth approach
- ILS background
- ILS Gateway
- Integrating mHealth into eHealth
- Assessing impact



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JSI mHealth



JSI's Approach to mHealth: "The Big 5"

1. Define the problem
2. Engage the ecosystem of stakeholders
3. Design to scale
4. Focus on the end user
5. Incorporate routine M&E

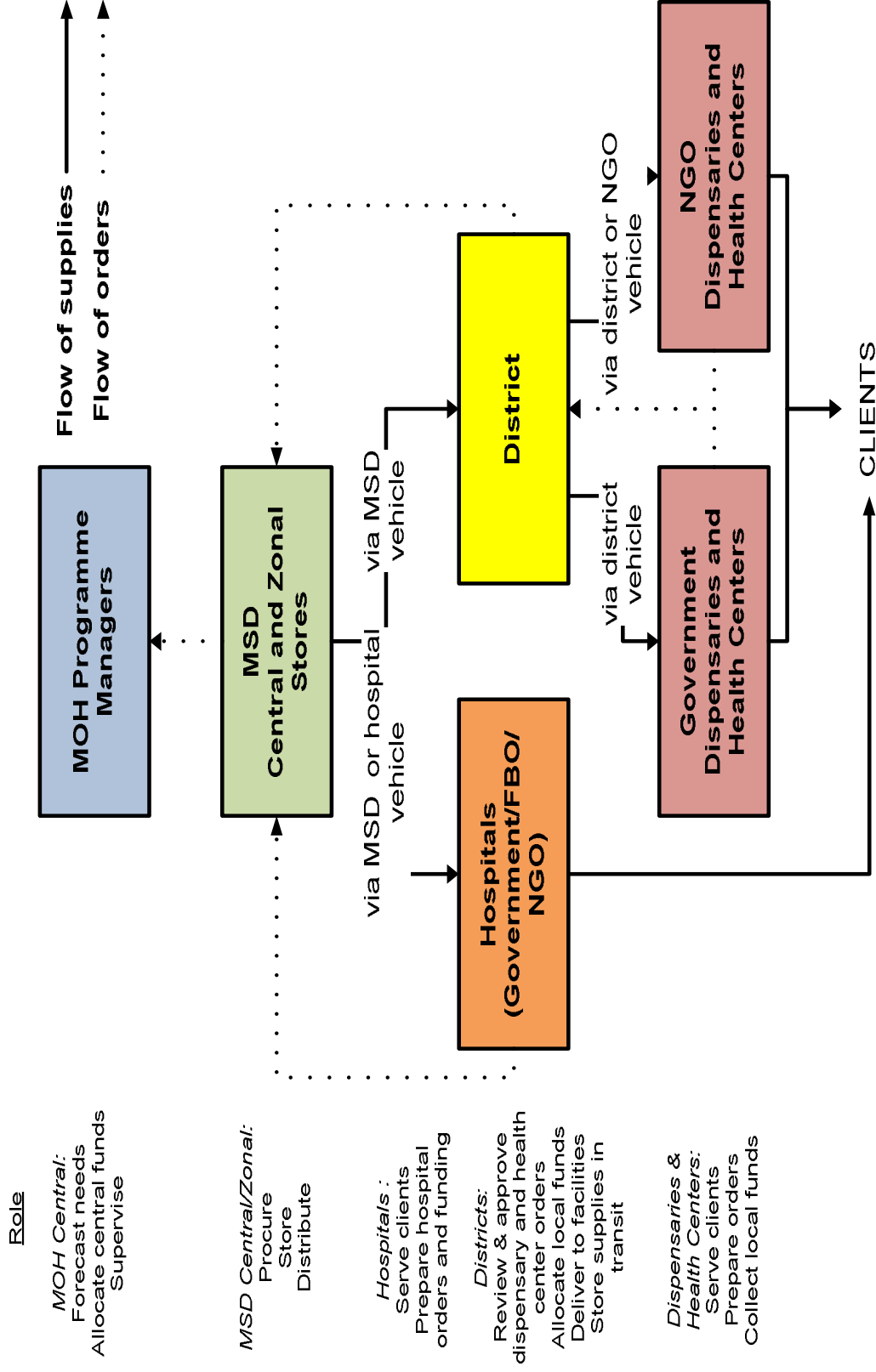


What is the Integrated Logistics System (ILS)?

- The Integrated Logistics System is a system for managing various categories of products (which was previously managed vertically), using a **single set of procedures**.
- The ILS is an **indent system** where dispensaries, health centers, and hospitals order quantities of each product according to their needs and within their budget.
- The ILS captures the **best elements of previously vertical systems**, most notably the indent system used for ordering drugs.



Movement of Supplies and Information in the ILS





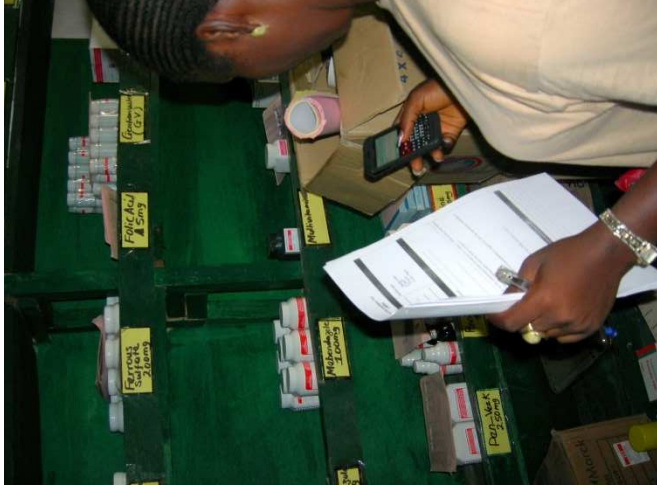
Supply Chain Challenges of the ILS

- Stock outs of essential medicines
- Infrequent adherence to reporting groups
- Difficulties with ordering and reporting
- Absence of facility level data for decision-makers
- Insufficient logistics supervision at health facilities
- Need to empower new and untrained staff



ILSGateway: The Solution

- The ILSGateway is a mobile health alert and reporting system designed to support and strengthen the ILS by:
 - Expanding the accessibility to and visibility of logistics data
 - Improving the use of logistics data for supply chain decisionmaking





Commodity Groups Managed in the ILS Gateway

- Family Planning
- Malaria
- Diagnostics
- Antibiotics
- Other Essential Medicines





ILSGateway: The Technology

- ILSGateway is built on top of the RapidSMS – an open source platform
- Facility use personal cell phones
- Send data as SMS to a toll-free short code (“15018”)
- SMS aggregator receives data which is analyzed by web database and then displayed on:

www.ilsgateway.com





Key SMS Interactions & Data Points

SOH L&A



Facility conducts a stock count, completes R&R, sends to the District

R&R

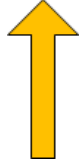


Order

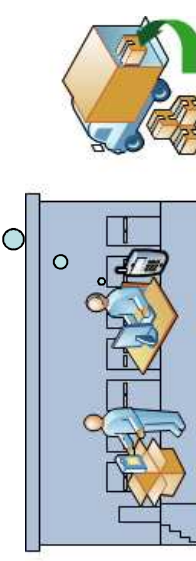


District reviews & approves order, sends to MSD, uses ILSGateway website for supervision

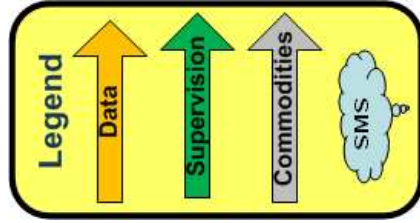
SMS Reports



Shipments



MSD Zonal Store packs goods using order. SMS alert sent to facility when order is shipped to facility



Supervision



Deliveries

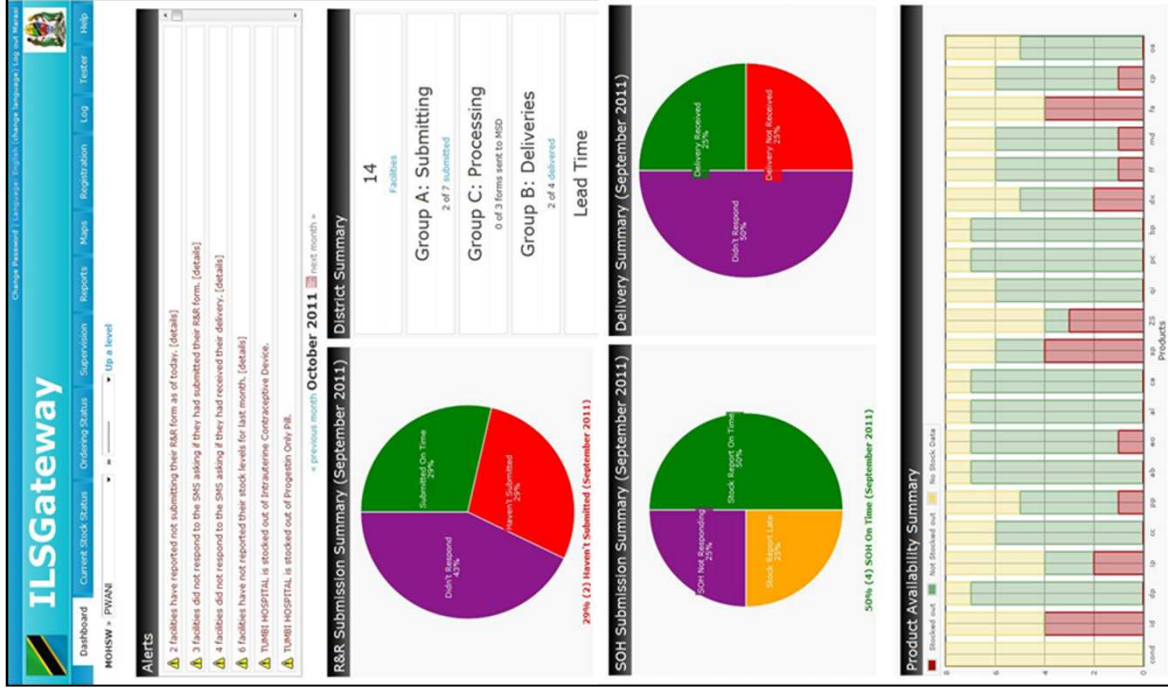


Facilities confirm received stock via SMS



ILSGateway Dashboard

- Provides comprehensive overview of:
 - R&R submission
 - Stock on hand submission
 - Delivery summary
 - Product availability
 - Stock outs
 - Lead time





GIS Reports Enable Stock Redistribution

Change Password | Language: English (change language) | Log out Marasi

ILSGateway

[Dashboard](#) |
 [Current Stock Status](#) |
 [Ordering Status](#) |
 [Supervision](#) |
 [Reports](#) |
 [Maps](#) |
 [Registration](#) |
 [Log](#) |
 [Tester](#) |
 [Help](#)

MOHSW » MTWARA ▼ Up a level

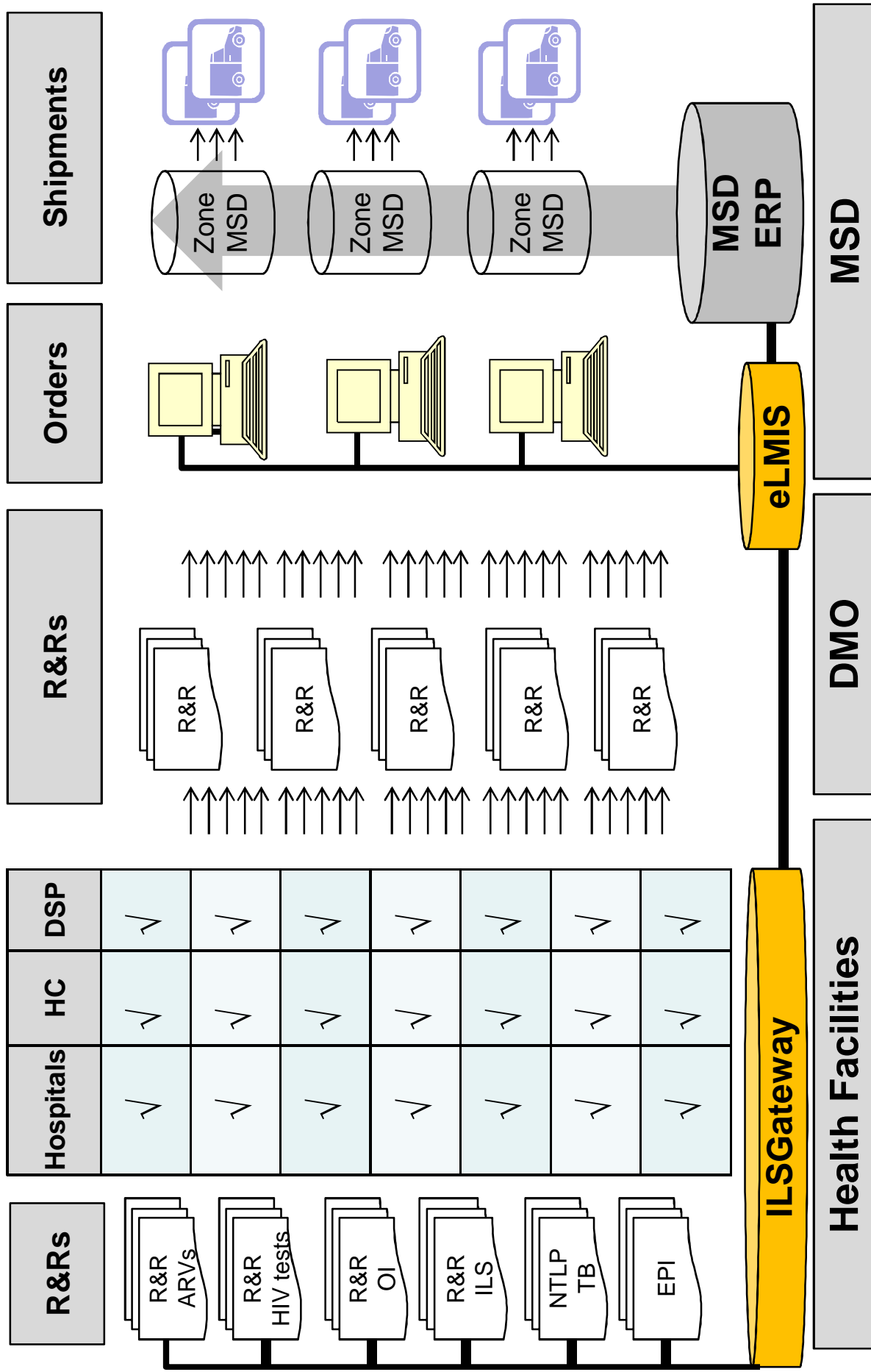
MTWARA
 All Stockouts ⊖ Some Stockouts ✔ No Stockouts ● No Data

MANKILANI DISP (0308006)
 Deliverer Order: 8
 Last order message received:
 REC CDC 200 100 150 200 200 200 200 200 200 200
 Recd: 14/01/11 14:26 pm. In Facility - recharge battery (24/01/11)
 Stock on hand (Include tablets if stock)

Product	Stock on Hand
Propofol 60mg 100	150
Cephalos	2000
Diapo-Provera	200
Contraceptive Implants	0
Tetrahaem Contraceptive Devices	0
Condomed Oral Contraceptives	200

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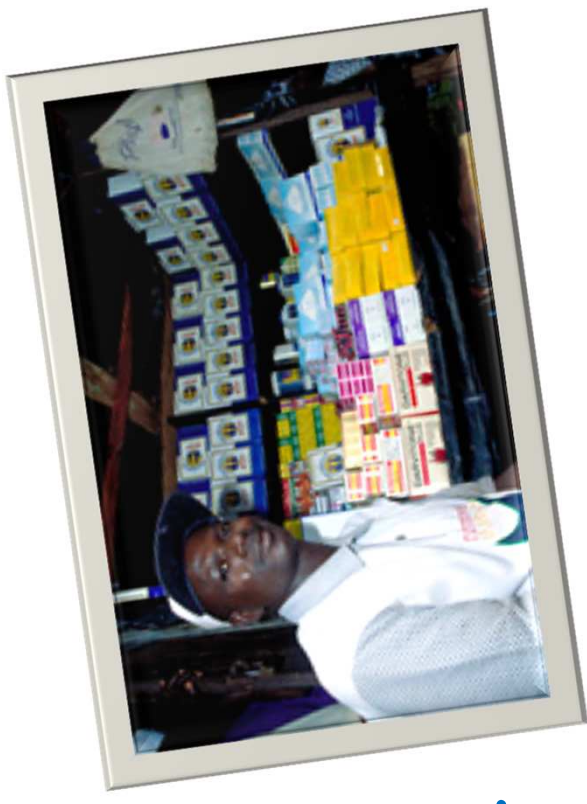
“Integrating mHealth into eHealth”





Impact of mHealth on Supply Chain

- 97% increase in reporting rates & adherence to reporting groups
- 93% improvement in inventory management
- 45% increase in product availability
- Growing use of data for supply chain management
- Increased accountability, transparency and responsibility



**Increased logistics
information visibility**



Thank You

For ILSGateway questions, please contact:

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