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SUPPLY CHAIN SURVEY



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Adapting Technology to Address Supply Chain Challenges in Nigeria

Presenter:

Dr. Nasir Mahmoud, Executive Secretary,
Kano Primary Health Care Management Board

Co-Presenters:

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Kano Primary Health Care Management Board

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eHealth Africa Systems Foundation



AGENDA

1. *Presenter biography*
2. *Who we are*
3. *Programmatic areas*
4. *MOVE*
5. *VDD (Vaccine Direct Delivery)*
6. *Future Plans*
7. *Audience questions*



PRESENTING AUTHOR



Dr. Mohammed Nasir Mahmoud

- Executive Secretary of the Kano State Primary Health Care Management Board
- Prior to his appointment, he was the State Director of Public Health and Disease Control. He also served as Incident Manager of the Kano State Polio Emergency Operations Center (EOC) that is leading the multi agency technical team working on eradicating of Poliomyelitis out of Kano State
- Dr. Mahmoud attended the University of Maiduguri, Borno, where he received his medical training, and obtained a Masters in Public Health (MPH) from Ahmadu Bello University, Zaria, Kaduna
- His public health experience spans nearly 20 years at state, national, and international levels



Partnership

Partnering with eHealth Africa, Kano state Primary Health Care Board has built stronger health systems through the design of data-driven solutions that respond to local needs and provide underserved communities with the tools to lead healthier lives.



SUPPLY-SIDE CHALLENGES in NIGERIA'S HEALTH SYSTEM



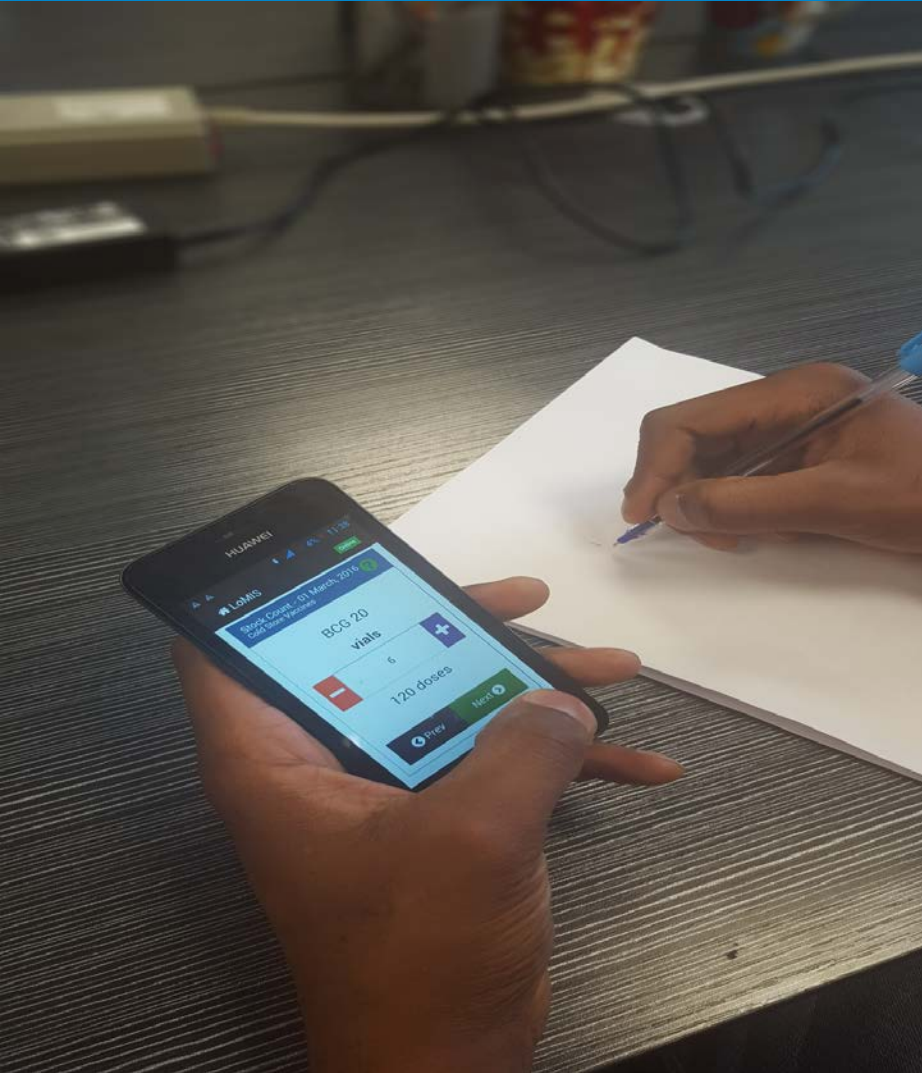
Challenges

- Incomplete and inadequate data on commodity turnover at PHCs
 - Late deliveries to health facilities
 - High rates of stock-outs in local stores
 - Inability to meet immunization goals,
 - Increased rate vaccine stock-out at health facilities
-

Goals

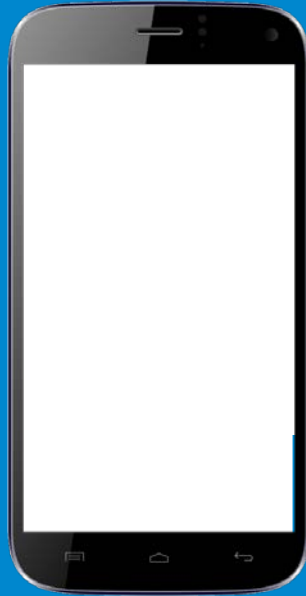
- Consistent stocks of vaccines, dry goods, and electronic devices on hand
- Real-time stock data management to provide rapid response to shortages

MOVE: What is MOVE?



- MOVE is a Logistic Management Information System
- It aids health workers with essential medicine restocking or any other stock items to last mile health facilities
- Comprised of an application installed on mobile phones and a web-based dashboard application
- Suitable for offline data collection and reporting in remote locations

MOVE



How it works

The mobile Android app is used by health workers to:

- Send stock counts
- Send stock-out alerts
- Incoming and outgoing delivery info
- Update functional status of Cold Chain Equipment (CCE)

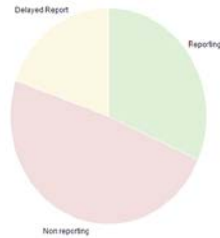
The web-app is used by decision makers to view:

- Various reports on stock inventories of health facilities
- Reports on the status of CCE

MOVE

Facilities

Reporting	Export						
LGA	Facility	Reminder Day	Last Report Date	Days Since Last Report	Phone Status	Contact Info	
LGA	Facility	Date	Status	All	Clear Filter		
Gwarzo	Gebo Maternity & Child Primary Health Center	Tuesday	22 Jan 2016	1	✓	↑ Yahaya Lili ☎ 08175676988 ✉ info.gebo_mch.gwarzo@kano.org.n	History
Tarauni	Tarauni Model Primary Health Centre	Tuesday	22 Jan 2016	1	✓	↑ Halima Usman Muhammad ☎ 08175660882 ✉ info.tarauni_phc.tarauni@kano.org.n	History
Warawa	Tanagar	Friday	22 Jan 2016	1	✓	↑ Hadiza Garba ☎ 08175675909 ✉ info.tanagar_hp.warawa@kano.org.n	History
Kura	Sani Marshal Primary Health Centre	Tuesday	22 Jan 2016	1	✓	↑ Ado Inuwa ☎ 08175678181 ✉ info.sani_marshall_phc.kura@kano.org.n	History

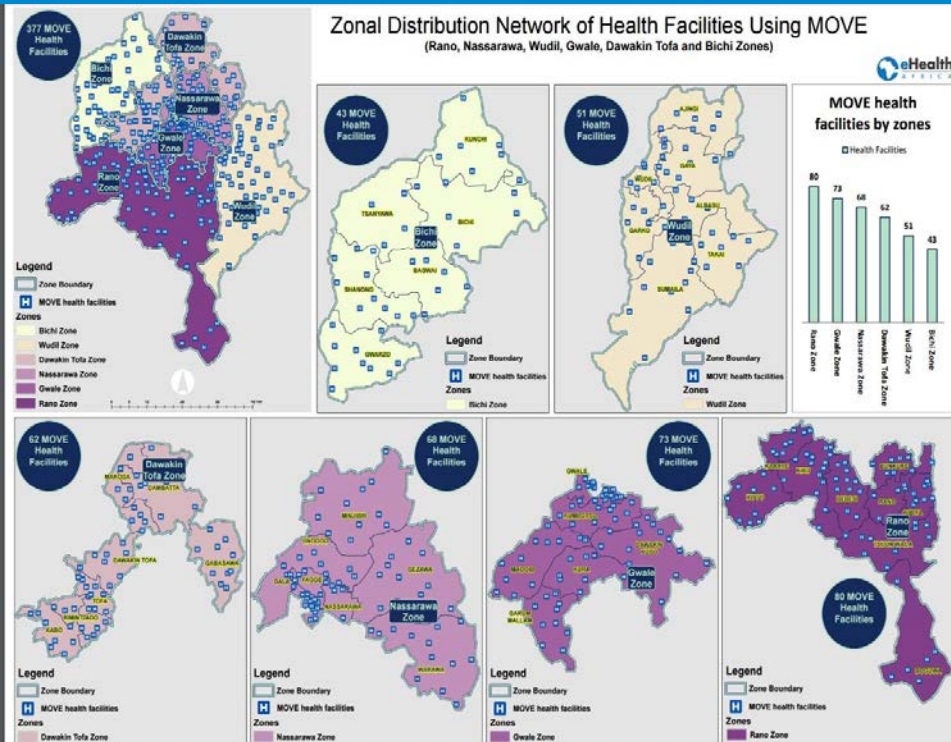


MOVE's impact

- Since 2013, **over 377 health facilities** in 44 Local Government Areas (LGA) of Kano State, Nigeria have started using MOVE

- Using MOVE, health care workers can bypass the traditional, slower paper-based reporting system and submit reports **instantly increasing visibility**

- The data has been used for planning and timely vaccine deliveries, thereby **reducing stock outs** at health facilities





Vaccine Direct Delivery (VDD)



What is VDD?

- An application tool that helps in planning, scheduling, and delivery of health commodities to last mile health facilities
- eHealth Africa staff uses the mobile (tablet) application to plan and deliver Routine Immunization Vaccines from states' cold stores and push antigens to more than 500 health facilities in Kano and Bauchi states of northern Nigeria
- Deployment commenced in May 2015



How Does VDD Work?

Direct Delivery Schedule Packing khalil@example.com

Tanagar Health Post - Item Delivery

Back Cancel Delivery

Product	On-hand Qty		Delivered Qty		Retrieved Qty		Received Stock between delivery?		
BCG	<input type="text"/>	Doses	<input type="text"/>	Doses	<input type="text" value="0"/>	Doses	<input type="checkbox"/>	Received stock?	Doses
MV	<input type="text"/>	Doses	<input type="text"/>	Doses	<input type="text" value="0"/>	Doses	<input type="checkbox"/>	Received stock?	Doses
YF	<input type="text"/>	Doses	<input type="text"/>	Doses	<input type="text" value="0"/>	Doses	<input type="checkbox"/>	Received stock?	Doses
OPV	<input type="text"/>	Doses	<input type="text"/>	Doses	<input type="text" value="0"/>	Doses	<input type="checkbox"/>	Received stock?	Doses
IPV	<input type="text"/>	Doses	<input type="text"/>	Doses	<input type="text" value="0"/>	Doses	<input type="checkbox"/>	Received stock?	Doses
TT	<input type="text"/>	Doses	<input type="text"/>	Doses	<input type="text" value="0"/>	Doses	<input type="checkbox"/>	Received stock?	Doses
Penta	<input type="text"/>	Doses	<input type="text"/>	Doses	<input type="text" value="0"/>	Doses	<input type="checkbox"/>	Received stock?	Doses
IPV	<input type="text"/>	Doses	<input type="text"/>	Doses	<input type="text" value="0"/>	Doses	<input type="checkbox"/>	Received stock?	Doses

- VDD makes bi-weekly deliveries
- Transports vaccines from state-run cold stores by eHA's drivers
- Directly transports to rural health facilities and offers stock checks.

Components include:

- A mobile app used by drivers for offline-first data collection on the quantity of delivered and on-stock vaccines
- A dashboard provides data analysis and planning features



VDD's Impact

- Reduced stock-outs from 90% to 33% in one year,
- From inception to date, **Over Twelve million doses of life-saving vaccines** from 13,349 deliveries were provided to **500 health facilities** in Kano and Bauchi States
- Over 631,934 kms were traveled by eight drivers

FUTURE PLANS



Kano Connect, creating a synergy between eHA's dashboard and the state's electronic reporting system

Integration with the National Health Management Information System to facilitate data exchange and stock visibility at the national level, and Master HF registry to provide easy update of HF information

Nutrition programs – Address Multiple Micronutrient Supplements; Food Security - Vitamin A rich Sweetpotatoes/Orange-fleshed Sweetpotatoes (OFSP) to address Vitamin A deficiency (food-based approach)

Launching a public health lab to be jointly managed by Kano Ministry of Health and eHA



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Questions?



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