



Scaling Up Vector Control for Malaria Prevention

Use of DHIMS2 for tracking LLINs distributed through the routine system

Emmanuel Fiagbey, COP VectorWorks
Prince Owusu, STA VectorWorks
Samuel Oppong, M&E NMCP

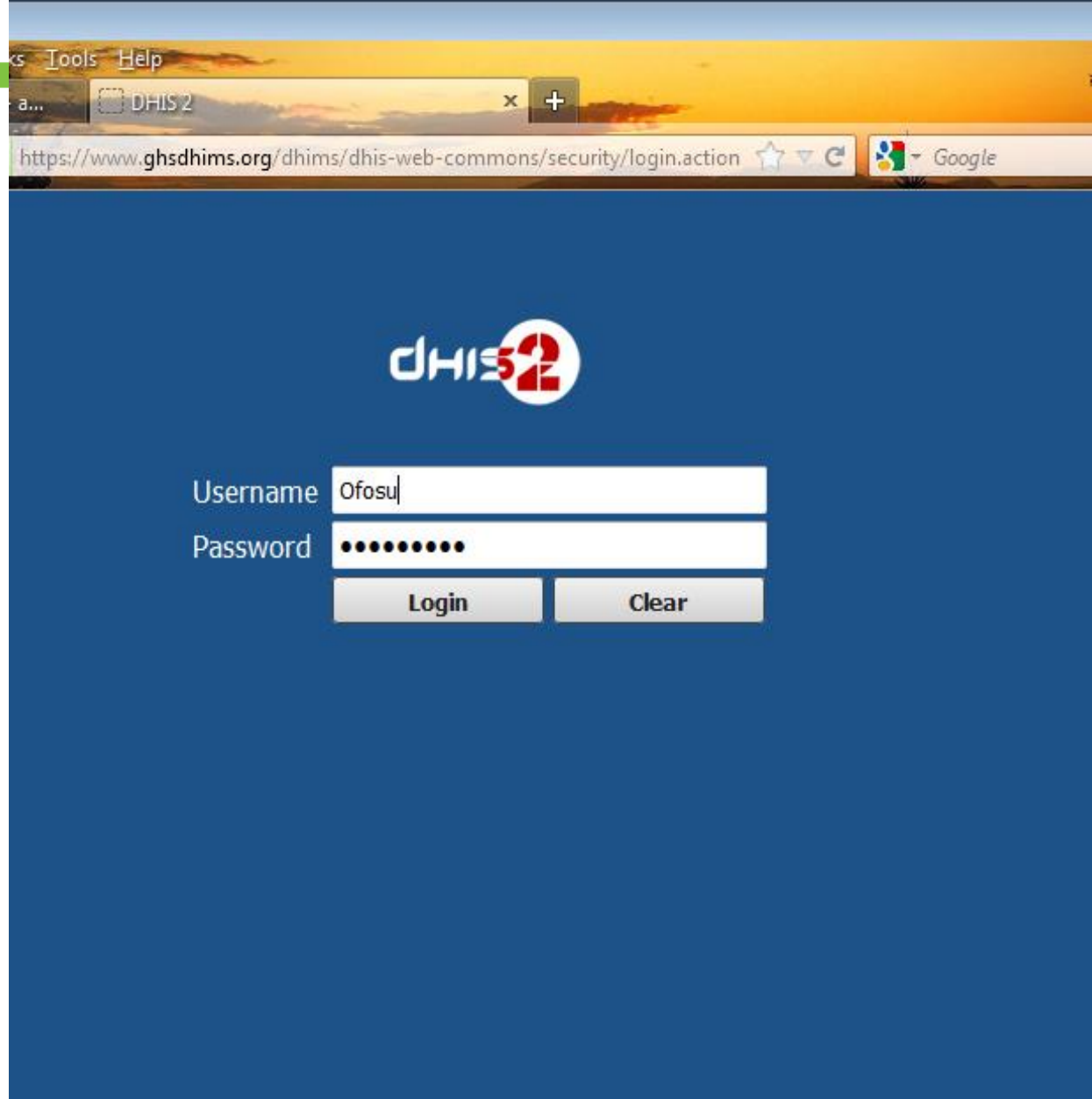


U.S. President's Malaria Initiative



This presentation is made possible by the generous support of the American people through the United States Agency for International Development (USAID) and the President's Malaria Initiative (PMI) under the terms of USAID/JHU Cooperative Agreement No. AID-OAA-A-14-00057. The contents do not necessarily reflect the views of PMI or the United States Government.

District Health Information Management System2 (DHIMS2)



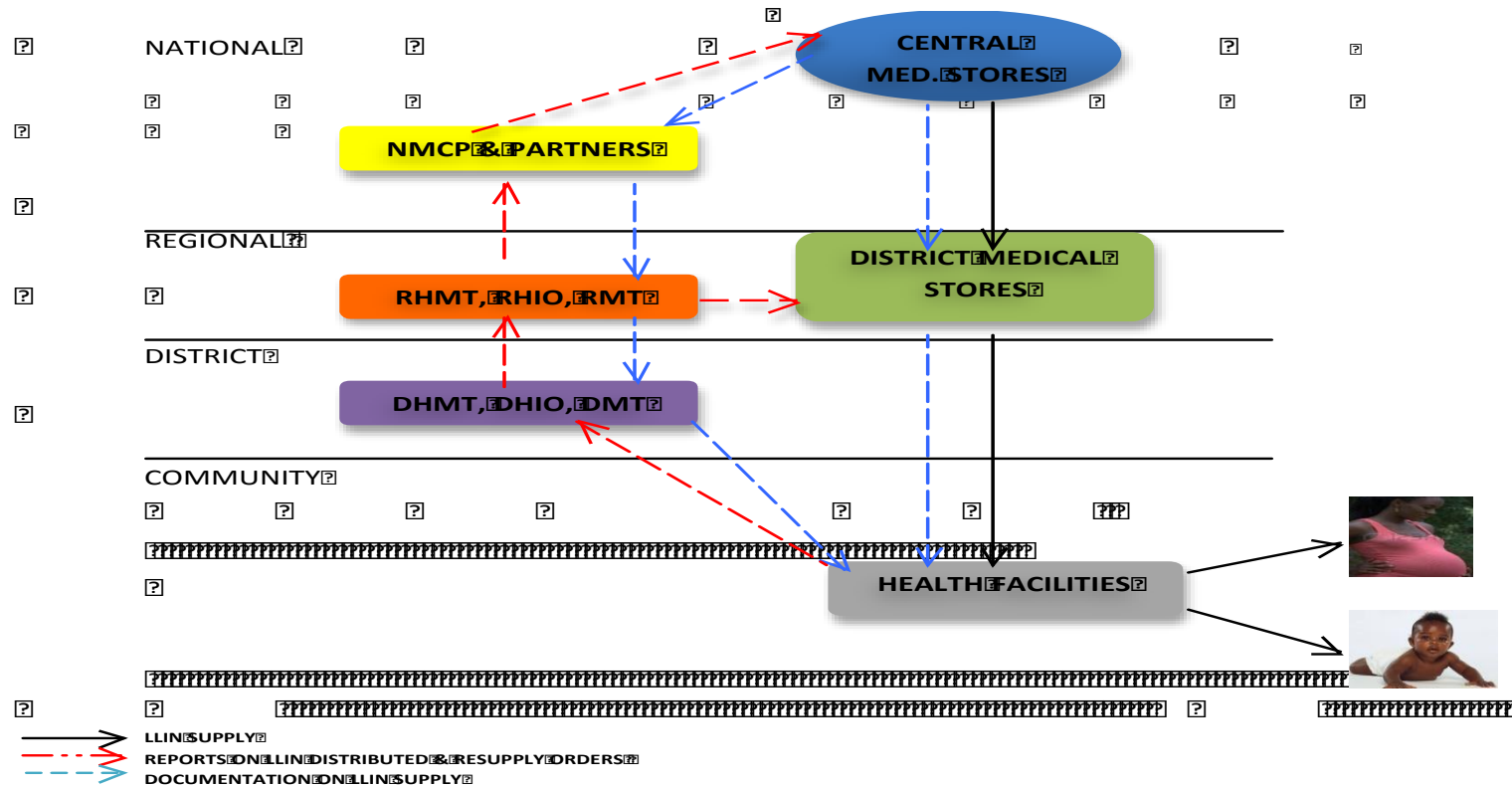
Overview

- DHIMS2 is a comprehensive HMIS solution for the reporting and analysis needs of district health administrations and health facilities at every level.
- Provide a comprehensive HMIS solution based on data warehousing principles and a modular structure which can easily be customized to the needs of different health systems - national, regions, districts, and facilities
- DHIMS2 is centralized, which enables easy, online updates and deployment of the application.

- DHIMS2 is accessible in all 216 districts and is being used by health facilities and district health directorates to collect, collate, transmit and analyze routine health service data including routine distribution of LLINs.
- Over 6,600 District Health Directorates and health facilities with the required capacity for DHIMS2 management has been registered as secure users on the DHIMS2 server.

Routine LLIN Distribution

Flow diagram for health facility-based (ANC and EPI) LLIN Routine Distribution



ANC/EPI Monthly Reporting Forms

Monthly Vaccination Report Midwives Monthly Returns
(Form A)

Monthly Vaccination Report

Midwives Monthly Returns (Form A)

MINISTRY OF HEALTH / GHANA HEALTH SERVICE
EXPANDED PROGRAMME ON IMMUNIZATION
MONTHLY VACCINATION REPORT

MONTHLY VACCINATION REPORT

Region: _____ District: _____ Name of Reporting Facility: _____
Month: _____ Sub-District: _____ Year: _____

1. Demographic data	Annual	Monthly	2. Vaccination sessions	Planned	Conducted
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1. Demographic data	Annual	Monthly	2. Vaccination sessions	Planned	Conducted
Total Population			No. of fixed vaccination sessions		
Infants 0-11 months			No. of outreach vaccination sessions		
Children 12 - 23 months			No. of school vaccination sessions		
Expected Pregnancy					

3. Vaccination coverage rates	BCG	Penta1	Penta3	PCV3	IPV	MR1	MR2
Monthly coverage (%)							
Cumulative coverage (%)							
Dropout rate (%)	$\frac{\text{Cum (Penta1 - Penta3)} \times 100}{\text{Penta1}}$			$\frac{\text{Cum (BCG - MR1)} \times 100}{\text{BCG}}$			

4. Monthly vaccinations given by Age				
Vaccine/Commodities	Number Given (By age group)			Total Administered
	0 - 11 months	12 - 23 months	>= 24 months	
BCG				
Hep B				
OPV0				
OPV-1				
OPV-2				
OPV-3				
IPV				
Rotavirus - 1				
Rotavirus - 2				
Penta-1				
Penta-2				
Penta-3				
PCV-1				
PCV-2				
PCV-3				
MR1				
MR2				
YF				
Men A				
Fully Immunized				
LLIN - Children				
	Pregnant Women	Non-Pregnant		Others
Td-1				
Td-2				
Td-3				
Td-4				
Td-5				
Td-5+ (Not vaccinated)				
LLIN+ Pregnant Women				

5. HPV Vaccination at 9 years				
Dose	In-school		Out-of-school	Total
HPV 1				
HPV 2				

6. Vitamin A Supplementation			
	6-11 mths	12-59 mths	Post-partum
Vitamin A			

7. A.E.F.I.	Non-serious	Serious
No. of cases reported		

8. Waste management	
No. of safety boxes used during the month	
No. of safety boxes disposed during the month	

9. Cold chain temperatures at Health Facilities	
Maximum temperature recorded	
Minimum temperature recorded	
Number of days with high temperature alarms	
Number of days with low temperature alarms	
Number of refrigerators available	
Number of functional refrigerators	

10. IE & C	Planned	Conducted
No. of IEC sessions		
No. of participants		
No. of home visit sessions		

MONTHLY MIDWIVES RETURNS (FORM A)

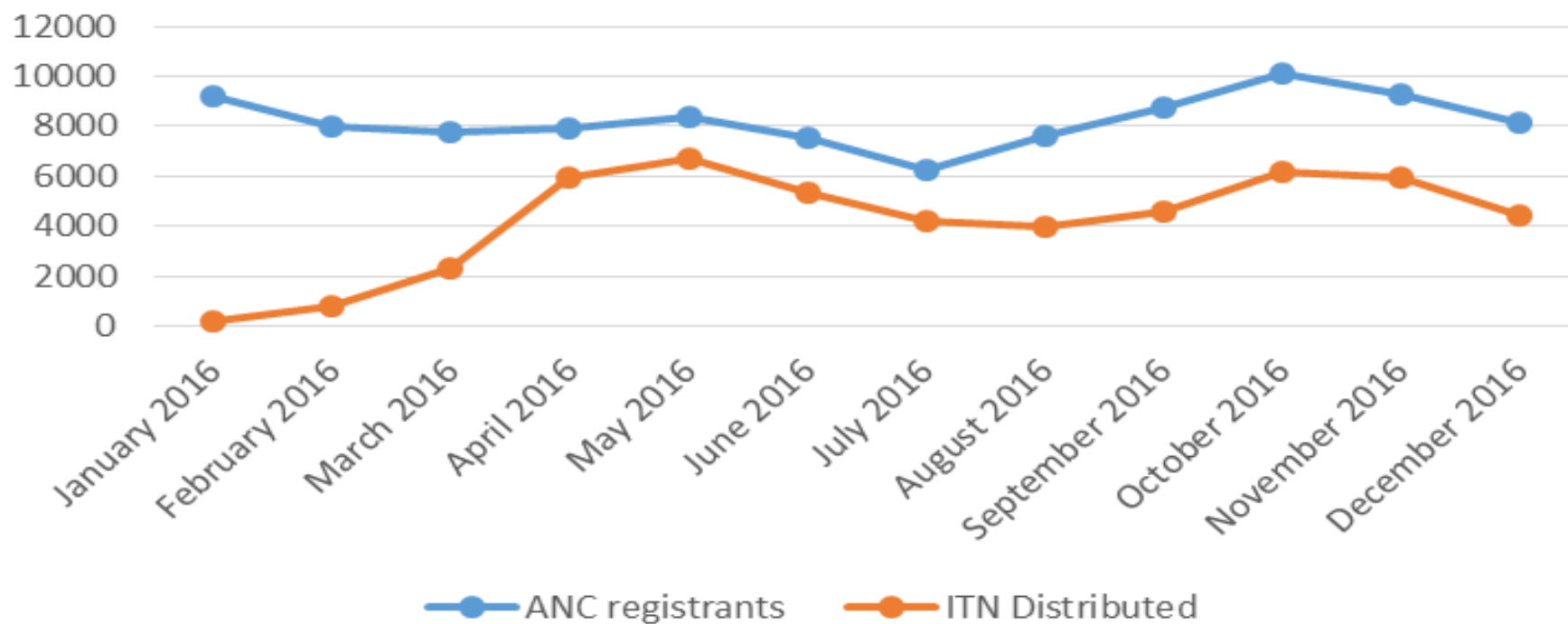
Particulars			Dietary		Regimen		Medicine		Nursery	
Mx/OCC Services			Blood Transfusion Services		PAC/CT		Chemicals/Drugs		Daily Preliminary Services	
Name	SMC	Comprehensives	Yes	No	Yes	No	Yes	No	Yes	No
ANTENATAL										
Graph/Chart of working										
Registration	Attendance	Missing Mts.	YTD	10-14	15-19	20-24	25-29	30-34	35-39	40-44
Pregnancy			1st trimester	2nd trimester		3rd trimester		Total		
Delivery			1st trimester	2nd trimester		3rd trimester		Total		
G			1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16
Postnatal										
Health/Status			1st trimester	2nd trimester		3rd trimester		Total		
Growth			1st trimester	2nd trimester		3rd trimester		Total		
Weight			1st trimester	2nd trimester		3rd trimester		Total		
Height			1st trimester	2nd trimester		3rd trimester		Total		
Head Circumference			1st trimester	2nd trimester		3rd trimester		Total		
Chest Circumference			1st trimester	2nd trimester		3rd trimester		Total		
Arm Circumference			1st trimester	2nd trimester		3rd trimester		Total		
Leg Circumference			1st trimester	2nd trimester		3rd trimester		Total		
Foot Length			1st trimester	2nd trimester		3rd trimester		Total		
Hand Span			1st trimester	2nd trimester		3rd trimester		Total		
Finger Length			1st trimester	2nd trimester		3rd trimester		Total		
Palm Width			1st trimester	2nd trimester		3rd trimester		Total		
Palm Length			1st trimester	2nd trimester		3rd trimester		Total		
Palm Area			1st trimester	2nd trimester		3rd trimester		Total		
Palm Perimeter			1st trimester	2nd trimester		3rd trimester		Total		
Palm Volume			1st trimester	2nd trimester		3rd trimester		Total		
Palm Weight			1st trimester	2nd trimester		3rd trimester		Total		
Palm Temperature			1st trimester	2nd trimester		3rd trimester		Total		
Palm Color			1st trimester	2nd trimester		3rd trimester		Total		
Palm Texture			1st trimester	2nd trimester		3rd trimester		Total		
Palm Shape			1st trimester	2nd trimester		3rd trimester		Total		
Palm Size			1st trimester	2nd trimester		3rd trimester		Total		
Palm Strength			1st trimester	2nd trimester		3rd trimester		Total		
Palm Endurance			1st trimester	2nd trimester		3rd trimester		Total		
Palm Flexibility			1st trimester	2nd trimester		3rd trimester		Total		
Palm Elasticity			1st trimester	2nd trimester		3rd trimester		Total		
Palm Resilience			1st trimester	2nd trimester		3rd trimester		Total		
Palm Sensitivity			1st trimester	2nd trimester		3rd trimester		Total		
Palm Reactivity			1st trimester	2nd trimester		3rd trimester		Total		
Palm Adaptability			1st trimester	2nd trimester		3rd trimester		Total		
Palm Tolerance			1st trimester	2nd trimester		3rd trimester		Total		
Palm Endurance			1st trimester	2nd trimester		3rd trimester		Total		
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Palm Flexibility			1st trimester	2nd trimester		3rd trimester		Total		
Palm Elasticity			1st trimester	2nd trimester		3rd trimester		Total		
Palm Resilience			1st trimester	2nd trimester		3rd trimester		Total		
Palm Sensitivity			1st trimester	2nd trimester		3rd trimester		Total		
Palm Reactivity</										

Usefulness of DHIMS2 for tracking LLINs

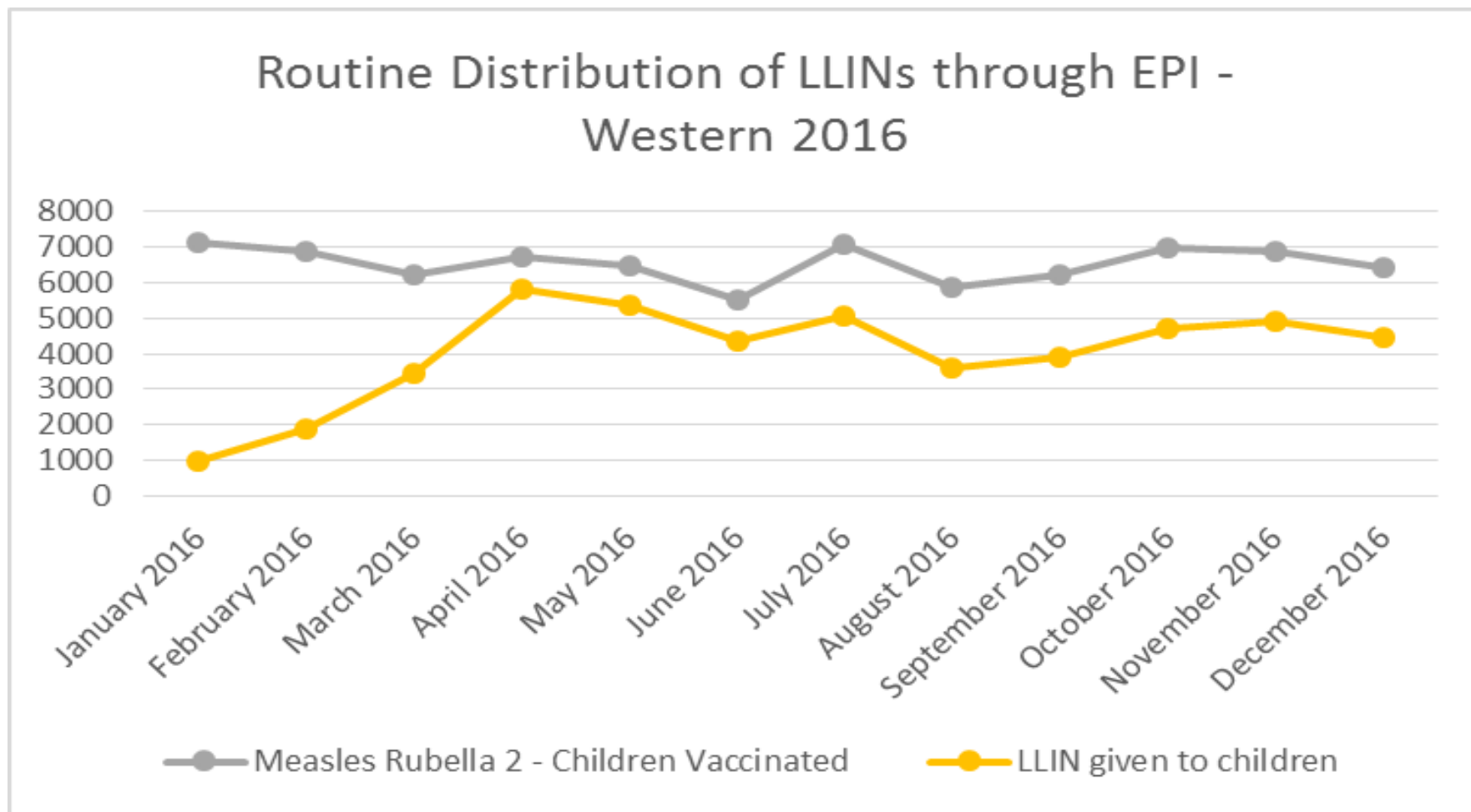
- It provides the needed data for planning – LLIN forecasting and allocation of LLINs to districts and health facilities
- It provides an opportunity to monitor
 - ANC registrants/LLINs distributed in all ANCs; and
 - Children receiving measles-Rubella vaccine/LLIN distributed in all Child Welfare Clinics.
- It provides data for selection of health facilities for monitoring

Western Region (ANC)

Routine Distribution of LLINS through ANC -
Western, 2016

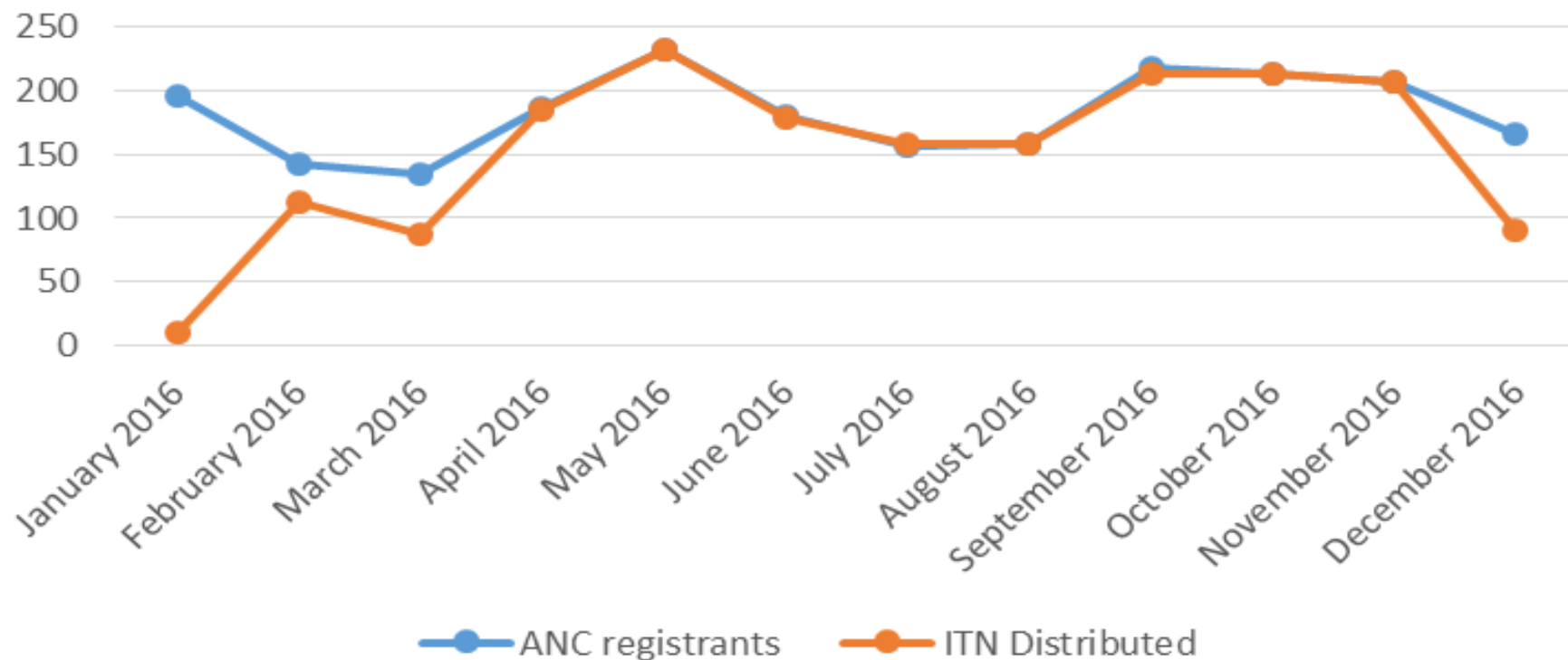


Western Region (EPI)



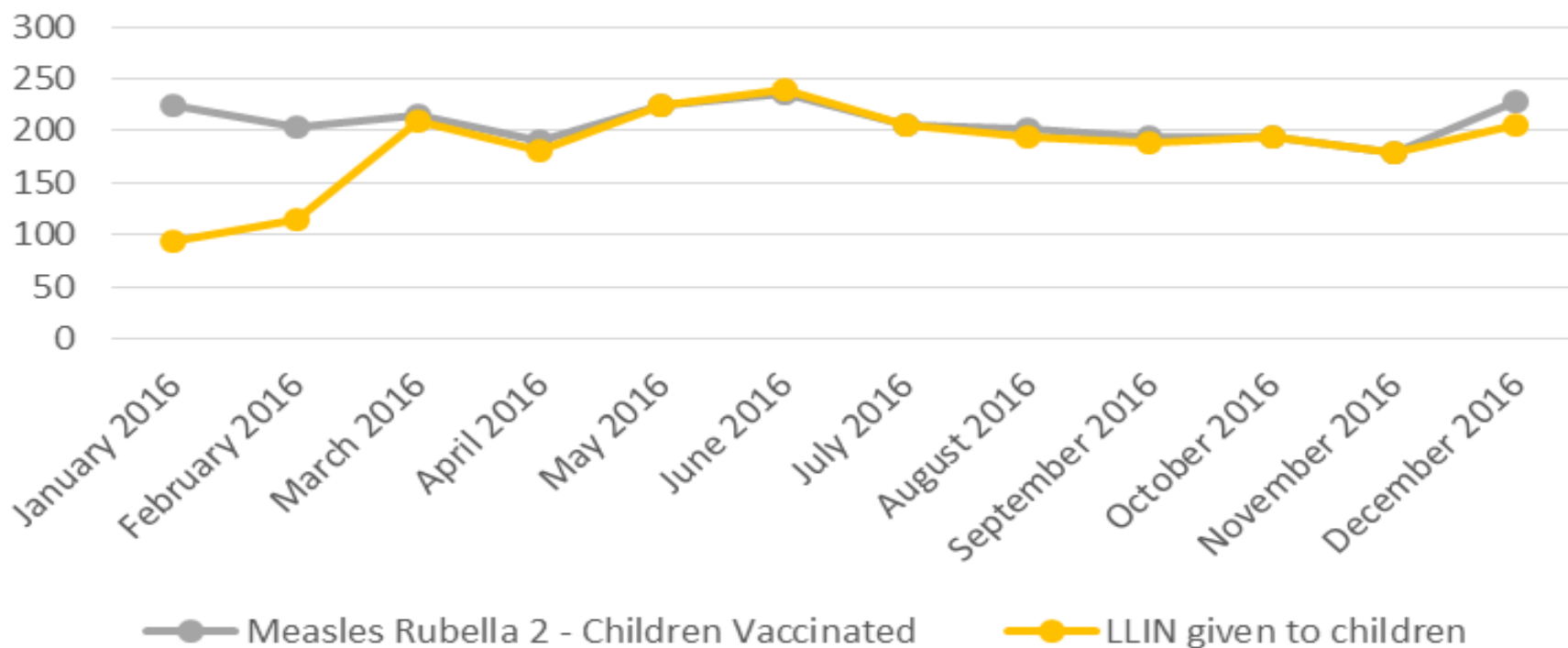
District – S. Akontombra (ANC)

Routine Distribution LLINs through ANC - Sefwi Akontombra District 2016

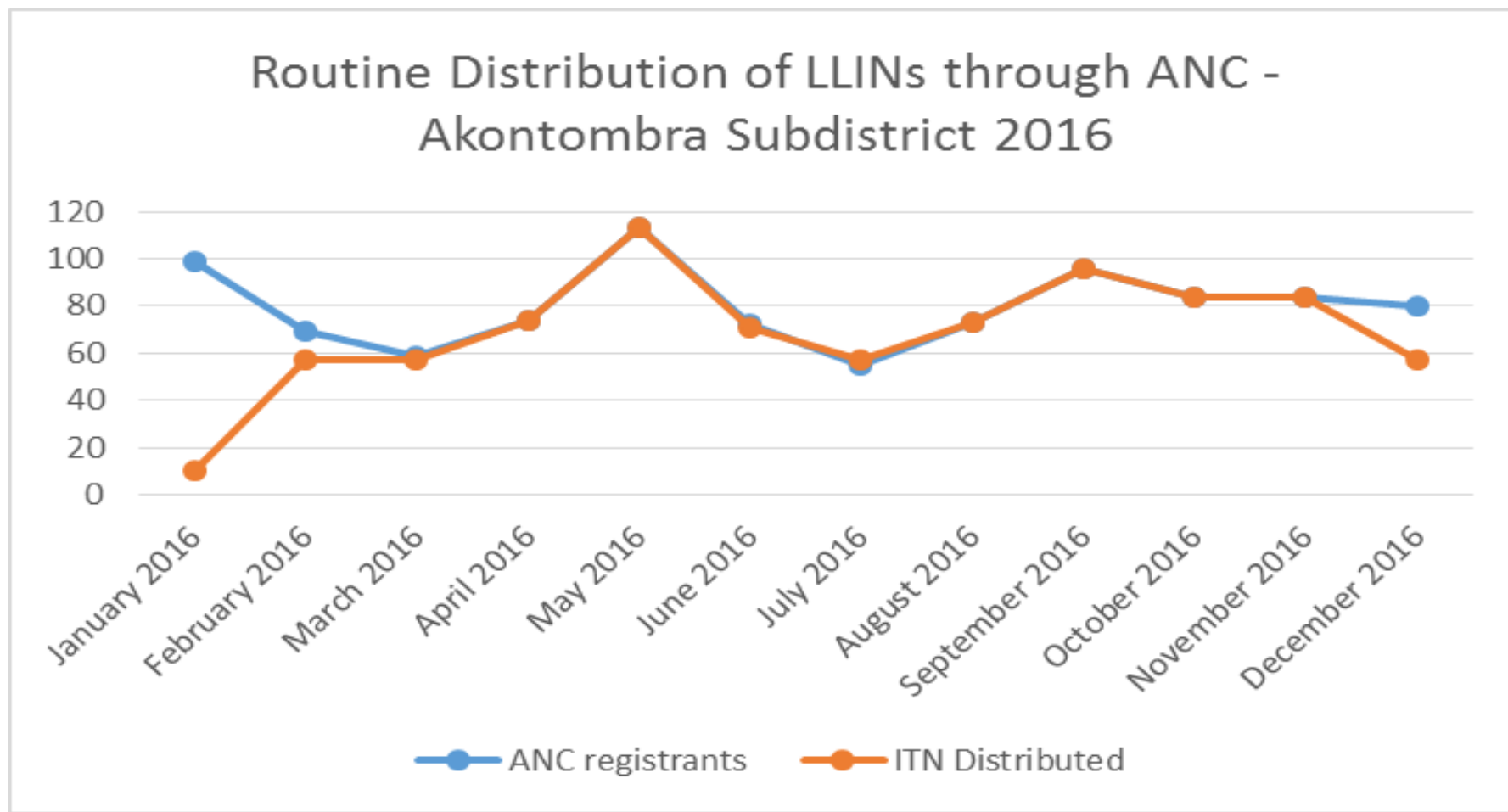


District – S. Akontombra (EPI)

Routine Distribution of LLINs through EPI - Sefwi Akontombra District 2016

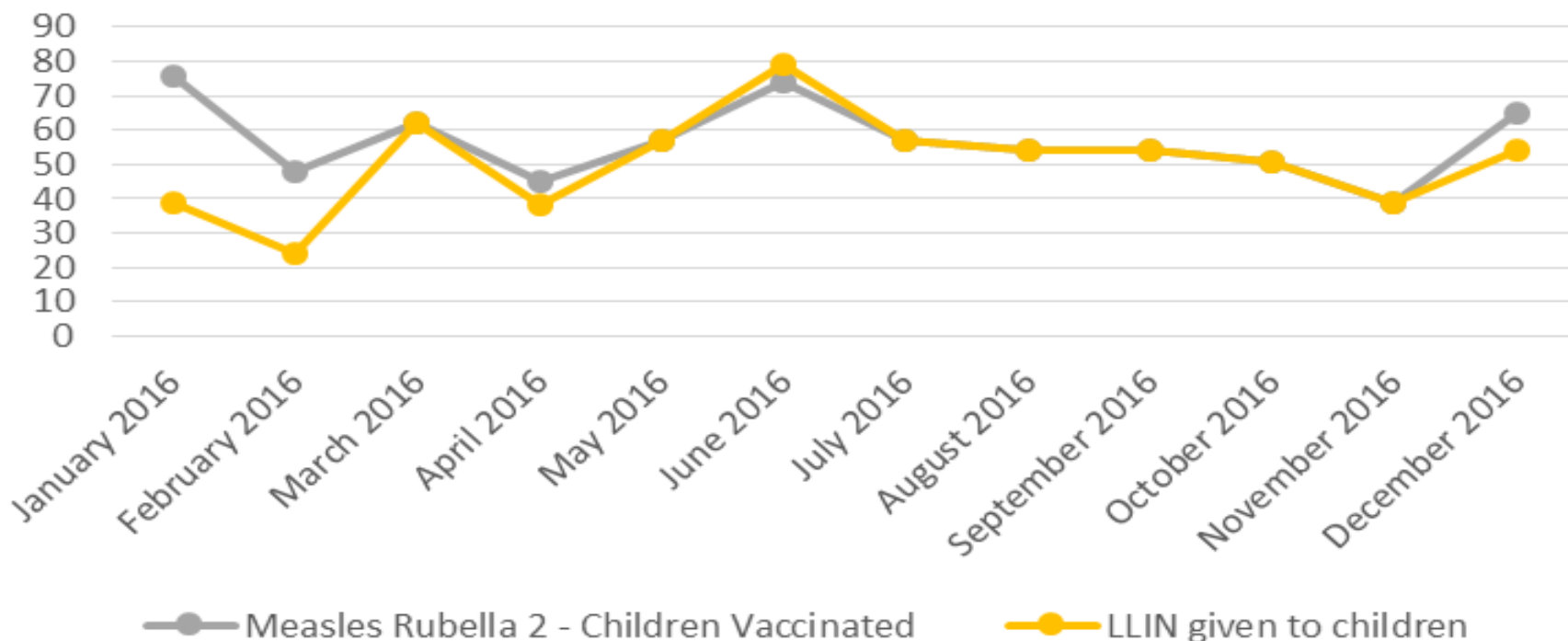


Sub-district –Akontombra (ANC)



Sub-district –Akontombra (EPI)

Routine Distribution of LLINs through EPI - Akontombra Subdistrict 2016



Sustaining good performance and supporting poorly performing facilities to improve

- Regional and district monitoring teams have since 2015 been formed and trained in all regions in the CD process, and Logistics and supply chain management.
- The teams provide overall supervision and monitoring to ensure gaps detected in net distribution and record keeping are timely bridged.
- District teams review DHIMS data each month; identify gaps and causes of gaps and take steps to bridge them:
 - Stock outs – link up with district stores/NMCP for resupply;
 - Poor record keeping –on-the-job coaching & re-orientation of newly posted staff.

Lessons Learned

- Routine net distribution data being visible, easily available and accessible through the DHIMS2 platform for all stakeholders provides room for constructive critiques on what the typical trends are with regards to those who register for services and those who actually receive LLINs.
- Data from DHIMS2 reveals effects of LLIN stock outs on distribution trends and moves officials to action to fill supply gaps.

Challenges

- Completeness of data and timely entry at all levels – Health facility, sub-district & DHMT.
- Data entry errors at all levels. Opportunity exists for correction within 3 months after data entry.
- Poor internet connectivity in remote communities and power outages could interrupt smooth data entry and data transmission.



**THANK
YOU**