15th GENERAL MEMBERSHIP MEETING of the REPRODUCTIVE HEALTH SUPPLIES COALITION
20-24 OCTOBER
MEXICO CITY

meXico 2004-2014 REPRODUCTIVE HEALTH SUPPLIES COALITION

IMPROVING COMMODITIES AND DATA AVAILABILITY THROUGH DDIC IN NIGERIA

Miranda Gyang

SALUD SECRETARÍA DE SALUD

Reproductive Health SUPPLIES COALITION 10 YEARS

USAID FROM THE AMERICAN PEOPLE | DELIVER PROJECT

Piloting a VMI model in Nigeria: the Direct Delivery and Information Capture (DDIC) System

USAID | DELIVER PROJECT received core funding to pilot model in 2012

Cost evaluation pilot and a test of feasibility in Nigeria

Scope of pilot

Bauchi state: 165 SDPs

Ebonyi state: 213 SDPs

Included commodities

- Reproductive health commodities
- Maternal, child and neonatal health commodities
- Malaria commodities

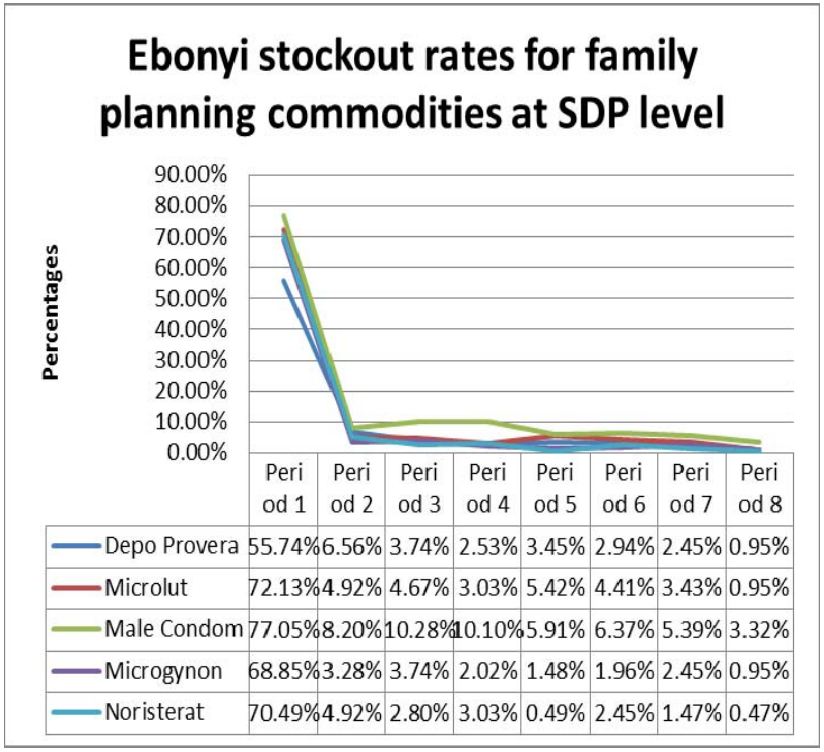
System Design

- Commodities delivered directly from CMS to SDPs
- Trucks act as rolling warehouses
- Bi-monthly delivery runs to select SDPs
- Replenishment to four MOS is linked to an automated process
- Data generated at health facilities synched with Top Up software to generate reports

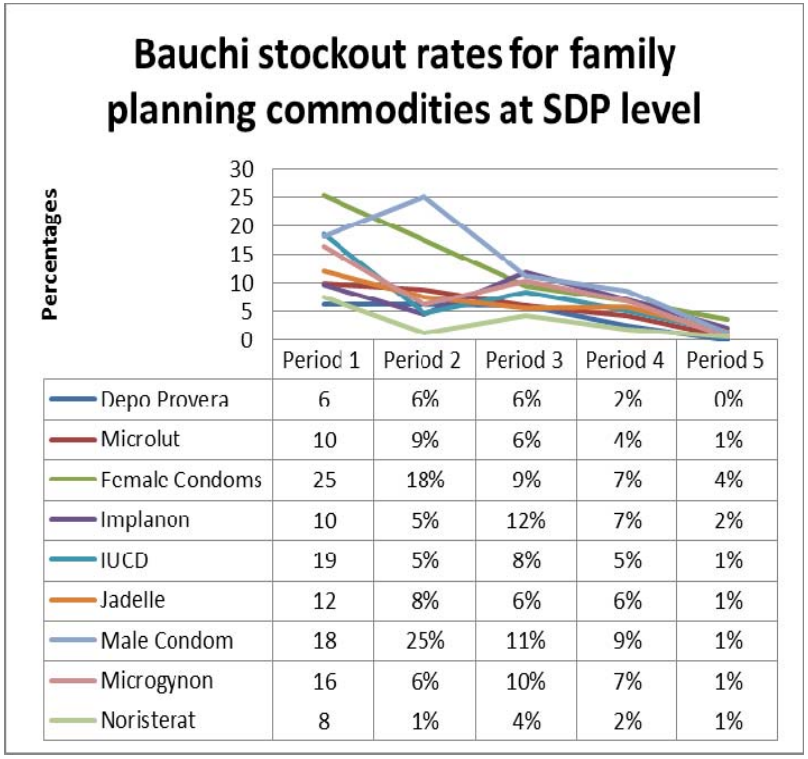
Requirements for Sustained Commodity Availability

- Full supply of commodities at central level
- Specialized, automated inventory management database
- Trained and competent personnel to manage the automated inventory management database
- Coordinated, efficient transportation mechanism

Achievements : Significant Reduction in Stockout Rates



	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Period 8
Depo Provera	55.74%	6.56%	3.74%	2.53%	3.45%	2.94%	2.45%	0.95%
Microlut	72.13%	4.92%	4.67%	3.03%	5.42%	4.41%	3.43%	0.95%
Male Condom	77.05%	8.20%	10.28%	10.10%	5.91%	6.37%	5.39%	3.32%
Microgynon	68.85%	3.28%	3.74%	2.02%	1.48%	1.96%	2.45%	0.95%
Noristerat	70.49%	4.92%	2.80%	3.03%	0.49%	2.45%	1.47%	0.47%



	Period 1	Period 2	Period 3	Period 4	Period 5
Depo Provera	6	6%	6%	2%	0%
Microlut	10	9%	6%	4%	1%
Female Condoms	25	18%	9%	7%	4%
Implanon	10	5%	12%	7%	2%
IUCD	19	5%	8%	5%	1%
Jadelle	12	8%	6%	6%	1%
Male Condom	18	25%	11%	9%	1%
Microgynon	16	6%	10%	7%	1%
Noristerat	8	1%	4%	2%	1%

Pilot DDIC Cost Evaluation

Study conducted in 5 States in Nigeria

- Bauchi
- Benue
- Ebonyi
- Cross River
- Sokoto

Four Last Mile Delivery (LMD) systems compared

- Review and Re-supply (R&R)
- Review and Direct Delivery (R&DD)
- Information Capture and Direct Delivery (IC&DD)
- Direct Delivery and Information Capture (DDIC)

Objectives of Study

- Cost each last mile distribution system instance
- Determine Stock out and inventory levels
- Determine Data Quality
- Consider Scalability

DDIC Pilot Evaluation Findings:




Data Quality

- DDIC and R&R: accuracy above 60%
- IC&DD and R&DD: accuracy below 40%

Inventory Management

- All systems similarly functional
- Single digit stock out rates
- Good inventory availability given supply

Cost

- Normalizing costs by assuming a common scale (number of facilities and volume distributed) for all systems showed the DDIC and IC&DD with the lowest costs, followed by the R&DD and the R&R.

Scalability

DDIC and IC&DD have lowest costs as Commodities increase

Next Steps:

Pilot Phase

- **378** SDPs across two states

Roll out to two more states

- Zamfara and Sokoto states using DDIC system since January 2014

Scale up number of supported sites

- **988** SDPs across four states