

## Making Products Available in the Community:

Supply Chain Management for CCM and cStock September 2014



# The Importance of Supply Chain Management for CCM



While thousands of trained, committed CHWs strive to ensure that sick children can get the treatment they need close to home, often the supply chains cannot consistently deliver these low-cost medicines to the community level.





Community Health Supply Chains are uniquely challenged by the remote location of the CHWs, the literacy levels of the CHWs, the lack of infrastructure and because CHWs are at the end of the supply chain: when shortages of essential medicines exist, CHWs often miss out on supplies

Investing in proven strategies to improve community health supply chains is critical for achieving better child health outcomes.

## SC4CCM have found that the following three areas need to work well together to improve overall performance of the supply chain





Product Flow

Functioning LMIS: Consumption and stock data is available and usable for supply chain decision making and problem solving

Data Flow



#### Demand based resupply:

Products flow effectively and efficiently through the system based on CHW need



## Effective People

A skilled and motivated workforce: that utilizes teamwork to problem solve and achieve their supply chain goals

- Routine Quantification
- National Coordination
  are fundamental keystones for continuous product availability by ensuring funding for and the timely procurement and distribution of medicines.

# In Malawi baseline results showed that all three elements needed to be addressed

27% of HSAs had the 4 key iCCM products on day of visit (cotrimoxazole, ORS, ACTs 1x6 and ACTs 2x6)



- Product Flow: supply was not consistently based on demand
  - 56% of HC staff determined resupply quantities using a standard formula, 10% used the same quantity as last month, 5% used knowledge from past experience, 5% used another method, and 23% did not know.
- Data Flow: logistics data from HSAs was not available or used
  - 43% HSAs submitting reports that contain logistics data to HC
  - 14% of HCs reported passing that information to higher levels
- Effective People: supervision and support for supply chain tasks was limited
  - 50% reported supervision on SC tasks
  - When asked about job satisfaction, about 20% of HSAs who manage products ranked a '2' or '3' out of '5'

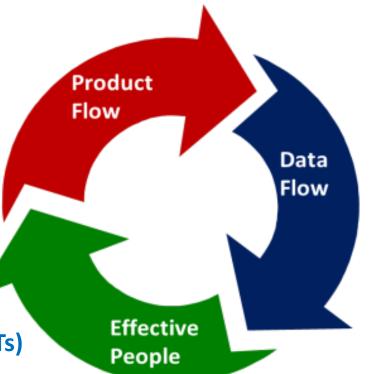
Supply Chains T Community Case Management











mHealth system called cStock was designed, developed and deployed to improve data flow and product flow

District Product

Availability Teams (DPATs)

were established with a common goal to use data to solve problems and improve supply chain performance to address effective people challenges



### cStock: Product and Data Flow



**cStock**, a mHealth supply chain management tool, addresses data visibility challenges and streamlines the process of resupply.



#### cStock Highlights

- HSAs text stock on hand data to cStock at the end of the month, replacing manual resupply forms
- The cStock database automatically calculates the resupply quantity based on individual consumption and sends via SMS to the HC Pharmacy who then prepack the order
- HC sends text message to HSAs via cStock when their order is ready for pick-up, preventing unnecessary trips to the HC
- HSAs text cStock receipt confirmations, ensuring accurate record keeping
- District and Central levels monitor resupply and stock levels through SMS alerts and a performance dashboard, enabling proactive action when needed

### **DPATs: Effective People**



**District Product Availability Teams (DPATs)** encourage teamwork and motivation between the levels to use data and coordination to improve supply chain performance and address product availability challenges.

#### **Enhanced Management (EM)**

#### **Performance Plan**

- Supply chain **performance** indicators and targets
- District and HC staff use cStock data and resupply worksheets to track performance
- Formal recognition system to drive SC performance
- Management diaries used to track issues and actions taken

#### **DPAT / HPAT Meetings**

- Quarterly District Meetings with District pharmacy technicians, coordinators and HSA supervisors
- Monthly HC Meetings with HSA supervisors, Drug Store in Charge, HSAs
- Topics discussed include
  - Performance plans & recognition
  - Reporting timeliness and completeness
  - Stock management, expiries & overstocks, and product availability

### **Evaluation of Pilot (6 districts) 2013**



By targeting **product flow, data flow and effective people** for the community health supply chain, Malawi saw quantifiable improvements across the board. cStock and DPATs are now in **28 of the 29 districts** (last one to be trained in Oct) in Malawi.

#### **cStock Results**

- **✓** Reporting rates consistently above 80%
- √ 94% of HSAs use cStock for requesting products
- ✓ 91% of Drug Store in Charges use cStock to determine by how much to resupply HSAs
- √ 56% of HSA supervisors use cStock data for performance monitoring
- ✓ All district coordinators use cStock for planning and coordination

#### **DPAT Results**

- ✓ 84% of HSA supervisors report DPAT meetings were held
- √ 96% of HSA supervisors report conducting a
  HPAT meeting
- ✓ 100% of District & HSA Supervisors reported finding product availability teams useful

FGDs: "these meetings have enhanced our relationship with the in-charge," (HSA)

#### Districts with cStock plus DPATs performed better than districts with cStock only

- ✓ Reporting rates in EM group were **10% higher** than other districts: >90% compared to >80%
- ✓ Completeness of reporting in EM groups was on average **13%** higher
- ✓ HCs in EM group took on average **7.6 days** to respond after a request compared to 13.5 days.

**Product Availability Results** 

\*cotrimoxazole, LA 1x6, LA 2x6, ORS

**62% of HSAs** had the 4 tracer drugs\* in stock day of visit (compared to 27% BL)

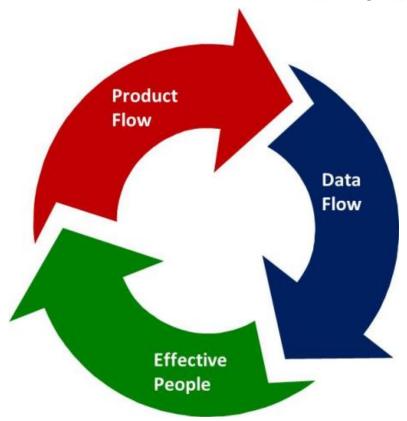
HSAs in EM districts using cStock had 14% fewer stock outs or low stocks than non-intervention districts

## **Key Findings...**

## JSI ISI Research & Training Institute, I

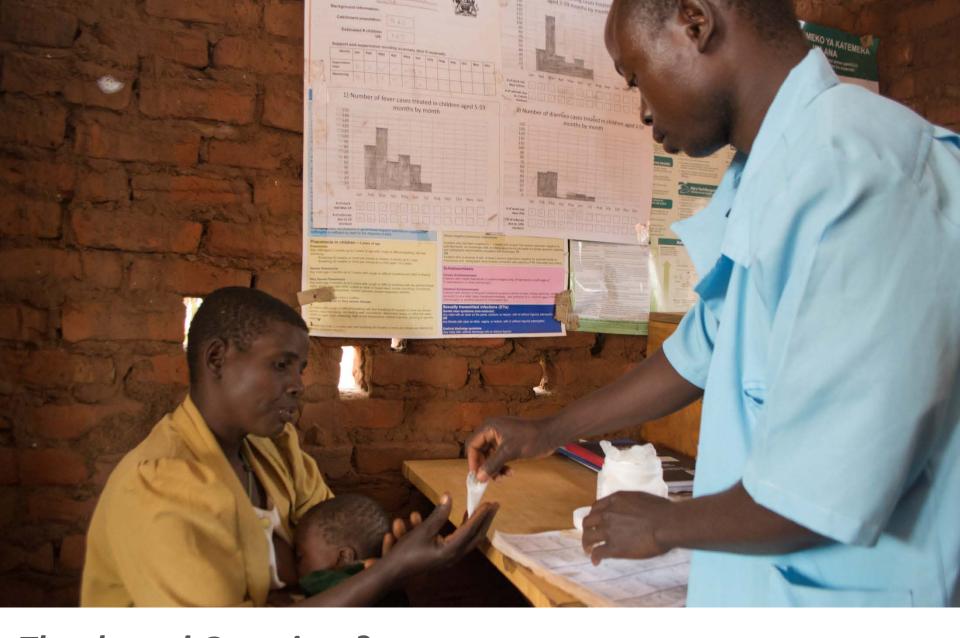
Community Health Supply Chain Works Best When:

- CHW resupply is based on demand using consumption data
- Data is available throughout the supply chain and consistently used for decision making
- Formalized structures exist to facilitate teamwork and motivate staff across all levels of the supply chain
- Tools and training are created and utilized to drive group problem solving
- Leadership exists that is committed to product availability at CHW level
- Overall supply chain system is functional and provides products at adequate levels



You achieve the greatest benefit from your supply chain when all these factors are in place and working together.





Thank you! Questions?
Please visit us at sc4ccm.jsi.com

