

## CCM Supply Chain Baseline Assessment Amhara, Ethiopia 2010







## SC4CCM Project Goal

SC4CCM will identify, demonstrate, and institutionalize supply chain management practices that improve the availability and use of selected essential health products in community-based programs.

In partnership with MOH, PFSA, RHBs, ZHDs,
 CCM and supply chain stakeholders





## Project Objectives

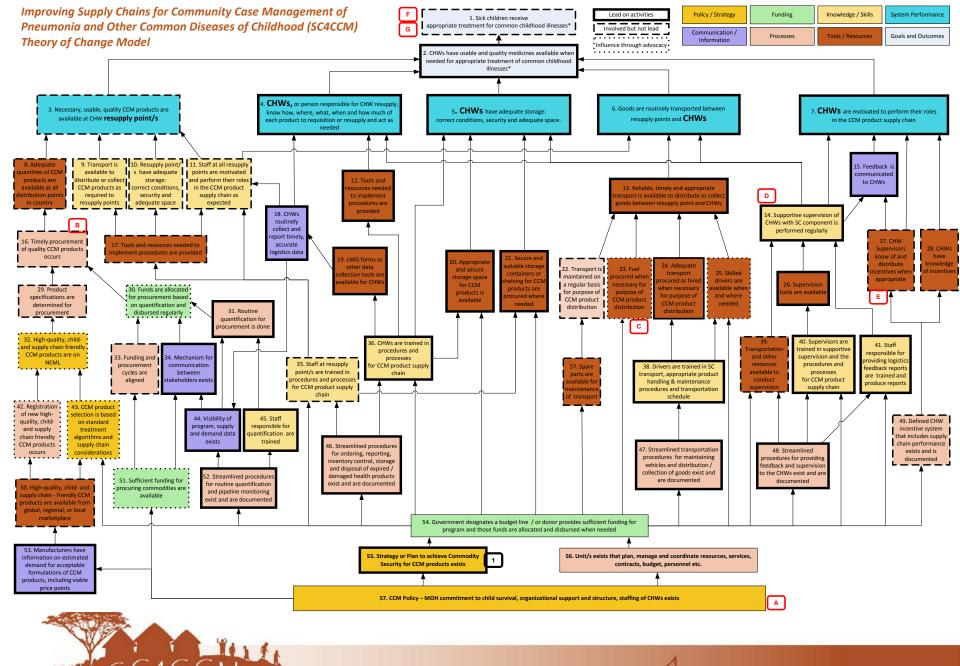
- Conduct a baseline assessment and develop implementation plan
- Test, identify and implement supply chain interventions
- Collaborate with partners to institutionalize improved supply chain practices
- Ensure capacity to procure quality, affordable CCM products
- Share lessons learned



## Principles – SC4CCM Theory of Change

If effective and efficient supply chain systems can be created to ensure that community health workers have consistent access to sufficient quantities of high quality, affordable essential medicines, they will be able to dramatically improve care and treatment for children.





### SC4CCM Core Indicators



Derived from the main country level objective and immediate preconditions

#### **GOALLEVEL OBJECTIVES**

Sick children receive appropriate treatment for common childhood illnesses

Main Country Level Objective:

HEWs have usable and quality medicines available when needed for appropriate treatment of common childhood illnesses

#### **Precondition 1:**

Necessary, usable, quality CCM products are available at **HEW** resupply point/s

#### **Precondition 2:**

HEWs, or person responsible for HEW resupply, know how, where, what, when and how much of each product to requisition or resupply and act as needed

#### **Precondition 3:**

HEWs have adequate storage: correct conditions, security and adequate space.

#### **Precondition 4:**

Goods are routinely transported between resupply points and **HEWs** 

#### **Precondition 5:**

HEWs are motivated to perform their roles in the CCM product supply chain





### Methodology

# Both qualitative and quantitative methods were applied:

- Logistics System Assessment Tool (LSAT)
- Key informant interviews
- Logistics Indicators Assessment Tool (LIAT)
  - Mobile phones
  - Build local capacity partnering with local evaluation group, JaRco.



### **LSAT**



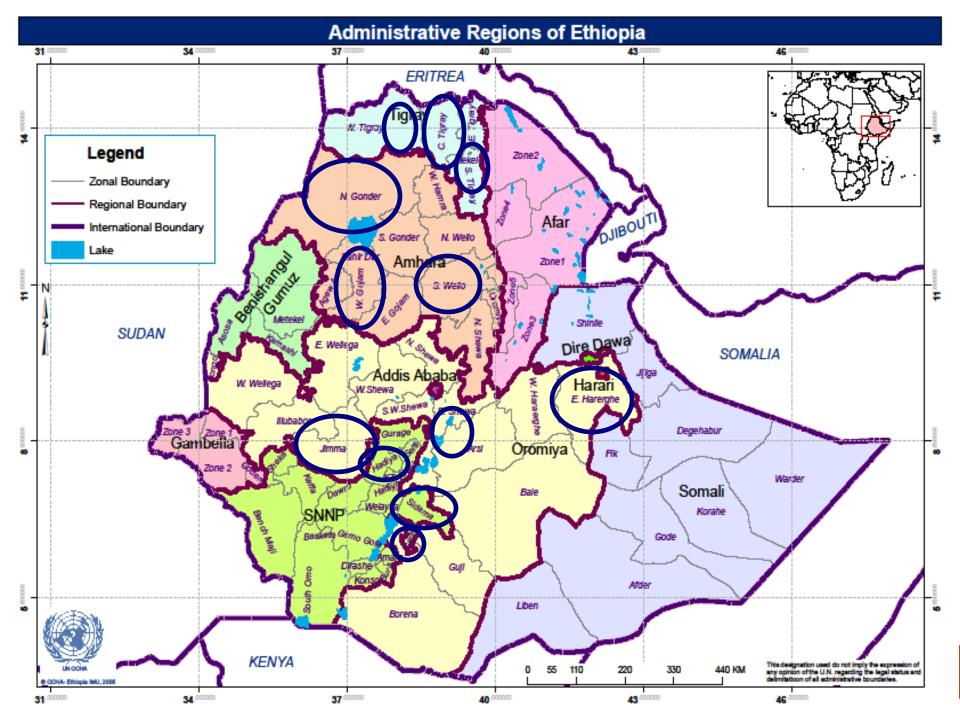
- Two day group assessment
- Participants:
  - 36 FMOH and RHB participants
    - from Amhara:RNH (2), ZHD North Gondar (2),
       Woreda Dembiya (2), HC Koladiba (2), HP (1)
  - 9 participants from partner organizations Ethiopian Pharmaceutical Association,
     USAID|DELIVER, MSH/SPS, Save-USA,
     Ethiopian Public Health Association, UNICEF,
     SCMS, JaRco



# LIAT Sampling - Amhara

Levels of Administration	Sample Size (n=)
Regional Health Bureau (RHB)	1
Zonal Health Dept (ZHD)	3
Woreda Health Office (WHO)	10
Health Center (HC)	29
Health Post (HP)	82
Total	125







### Limitations

- Lack of national/regional database with facilities names
- Data collected during rainy season some sampled health posts, health centers inaccessible
- Some upgraded health centers not yet functional
- Predictable challenges associated with multilingual survey
  - Three languages (Amharic, Oromiffa, Tigrinya)





# Baseline Results by Core Indicators





### **Tracer Products**

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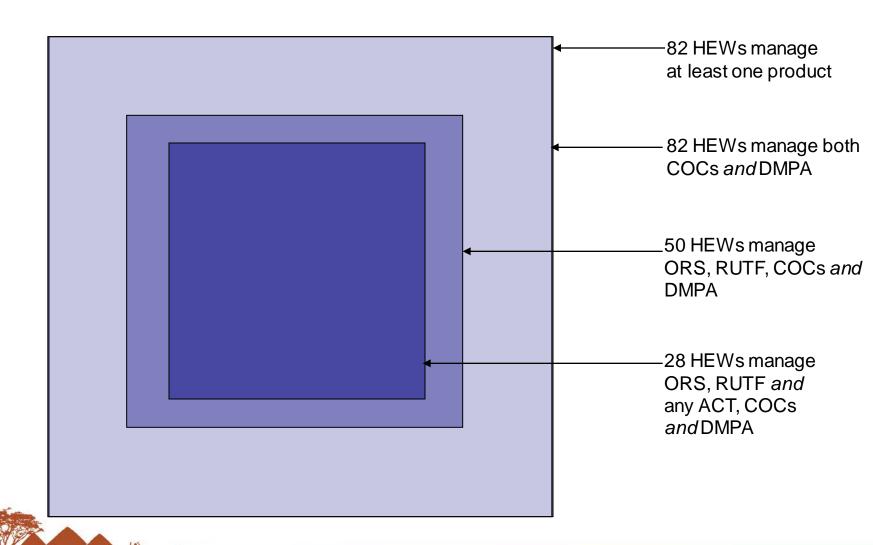
- 1. cotrimoxazole 120mg tablets
- 2. cotrimoxazole 240mg/5ml suspension (bottles)
- 3. amoxicillin 250mg capsules
- 4. amoxicillin 125mg/5ml suspension (bottles)
- 5. Coartem (lumefantrine / artmether) 1 x 6 tablets
- 6. Coartem (lumefantrine / artmether) 2 x 6 tablets
- 7. chloroquine 50mg/5ml syrup (bottles)
- 8. malaria RDTs
- 9. zinc 20 mg tablets
- 10.ORS sachets or Oral Rehydration Salts
- 11.Plumpynut (RUTF) sachets
- 12.male condoms
- 13. Depo Provera or Petogen (DMPA) vials
- 14. Combined oral contraceptives (COC or pills)





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### Describing the HEW Sample - Amhara





### **Main Country Level Objective:**

HEWs have usable and quality medicines available when needed for appropriate treatment of common childhood illnesses





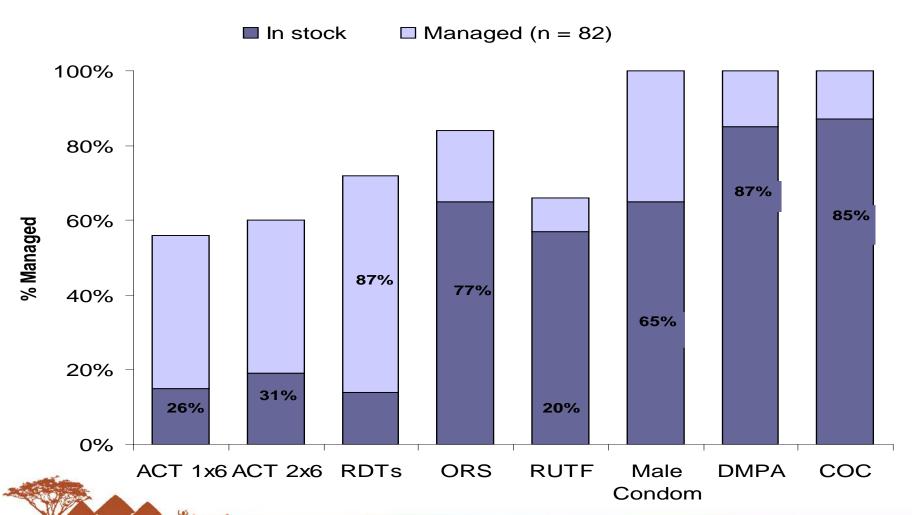
9 of 28 **(32%)** HPs with ORS, RUTF, COCs, DMPA and any ACT have them **all in stock** 

27 of 50 **(54%)** HPs who manage ORS, RUTF, COCs and DMPA have all in stock

61 of 82 (74%) HPs manage both COCs and DMPA and have all in stock



# In Stock on DOV at HP by Product — in Amhara



**Products** 

# JSI \*esearch & Training Institute, Inc.

# Reported Reasons for Stockout - Amhara

- do not receive all the health products ordered - 47%
- resupply point does not give me enough health products - 21%
- more and more people are coming to the health post - 47%



### PRECONDITION 1:

Necessary, usable, quality CCM products are available at HEW resupply point/s

Product availability at the resupply point appears to be strongly linked to product availability at the Health Post Level for:

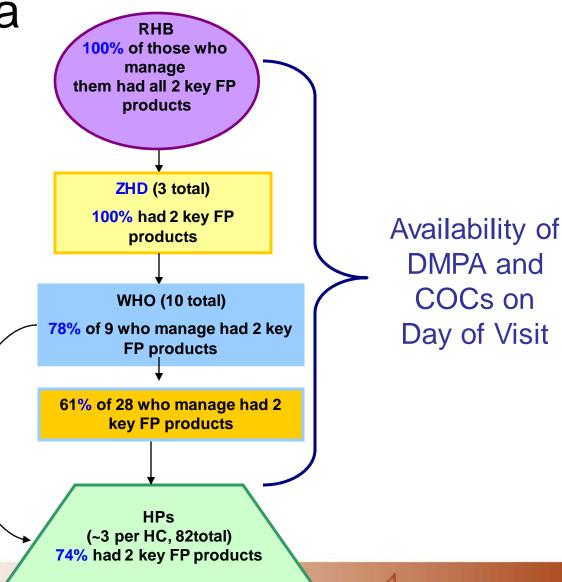
- DMPA
- Combination Oral Contraceptives (COC)
  - RUTF
    - ORS
  - ACTs



### Product Availability at all Levels



in Amhara

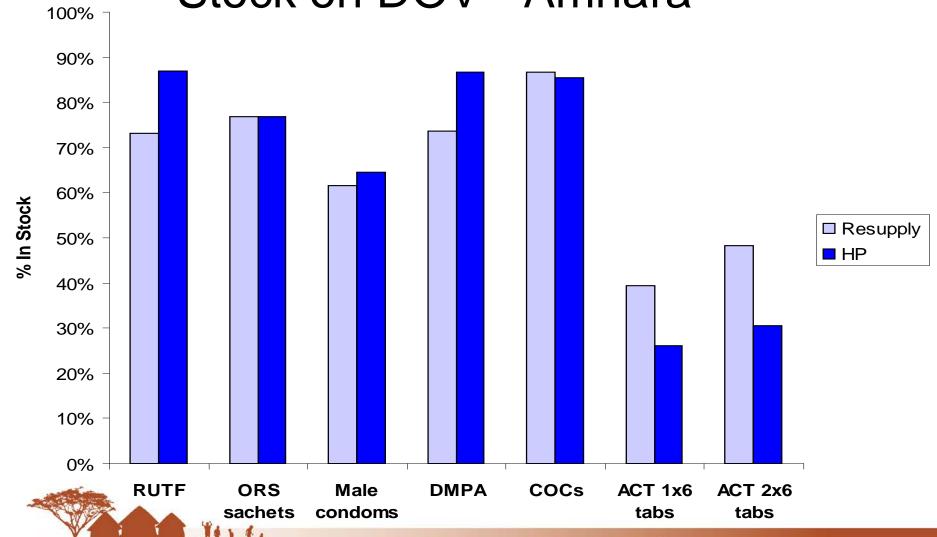


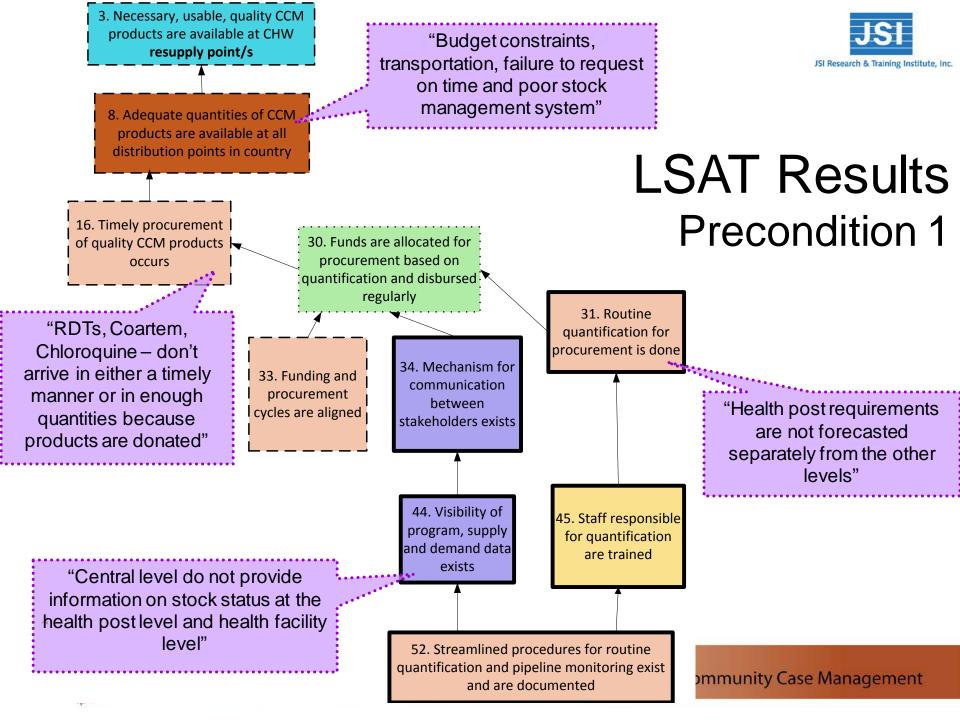
v Chains Community Case Management

Product Availability at all Levels (DOV) in Amhara RHB RHB 100% had ORS & RUTF 100% had ORS, RUTF and either ACT Availability of ORS, Availability ZHD (3 total) RUTF & ZHD (3 total) of ORS 100% had ORS, RUTF ACTs on 100% had ORS & RUTF and either ACT and RUTF Day of Visit on Day of Visit WHO (10 total) WHO (10 total) 71% of 7 who manage had 71% of 7 who manage had ORS, RUTF **ORS & RUTF** and either ACT HC (12 total) HCs (29 total) 42% of 12 who manage had 47% of 19 who manage ORS, RUTF had ORS & RUTF and either ACT **HPs HPs** (~3 per HC, 82 total) (~3 per HC, 82 total) 39% of 28 had ORS, RUTF 66% of 50 had ORS & RUTF and either ACT Chan's Community Case management

# % of Resupply Points and HPs in Stock on DOV - Amhara





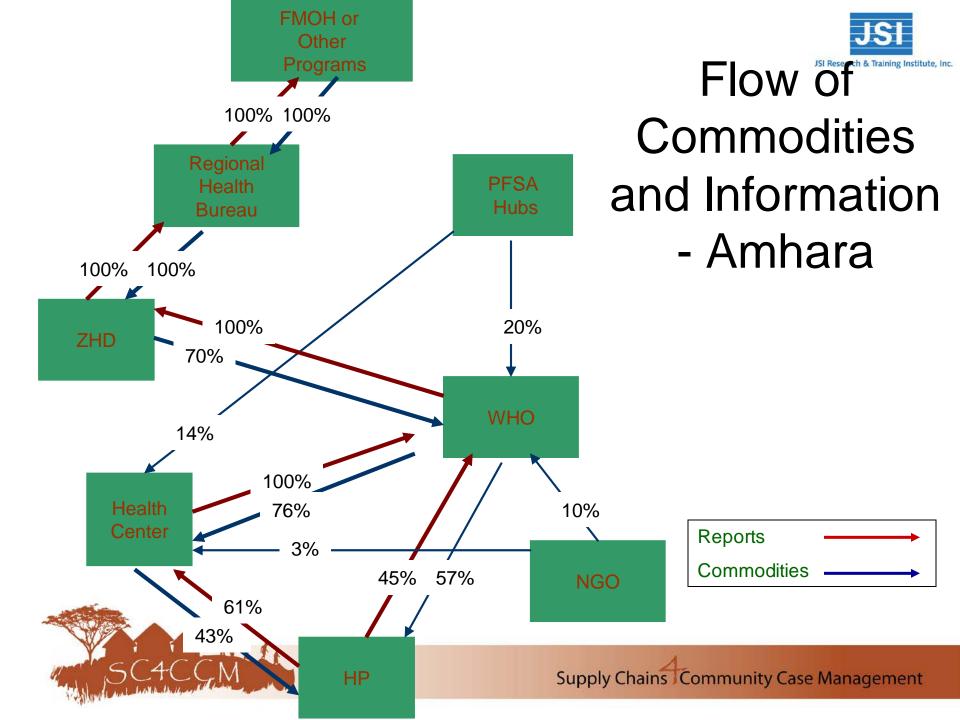


#### **PRECONDITION 2:**

HEWs, or person responsible for HEW resupply, know how, where, what, when and how much of each product to requisition or resupply and act as needed

- Several distribution and information systems operate concurrently
- Supply chain capacity and skills are generally low, very little formal training reported
- Necessary tools to manage the logistics system are insufficient





# SCM Formal Training - Amhara



% who reported receiving formal training on how to manage health products

- 100% of RHB respondents
- 67% of ZHD respondents
- 10% of WHO respondents
- 3% of HC respondents
- 9% of HEW respondents

In Amhara how 48 HEWs learned to complete forms:

23% of HEWs reported on the job training

56% of HEWs reported they figured it out themselves



# Standard Operating Procedures



### - Amhara

A copy of any written guidelines or procedures for ordering, reporting, and inventory control of health commodities were observed at:

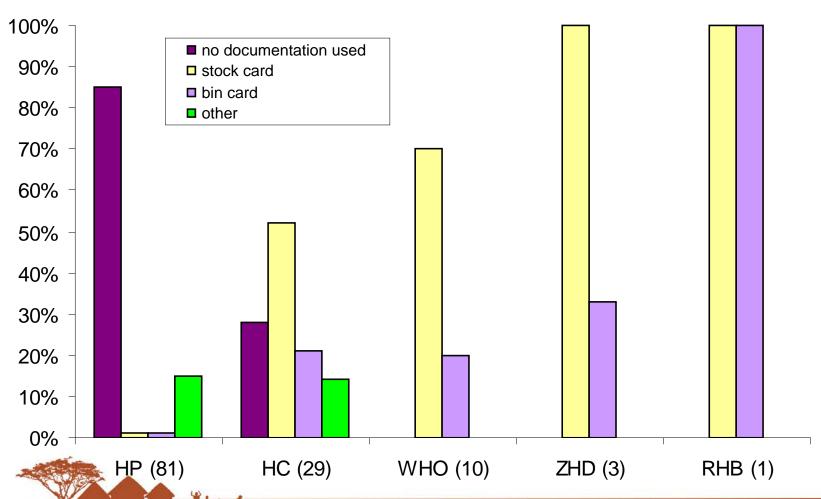
- 100% of RHBs
- 33% of ZHDs
- 20% of WHOs
- 3% of HCs
- 5% of HPs

#### **Key Message:**

Very few lower level facilities in the system have SOPs to reference

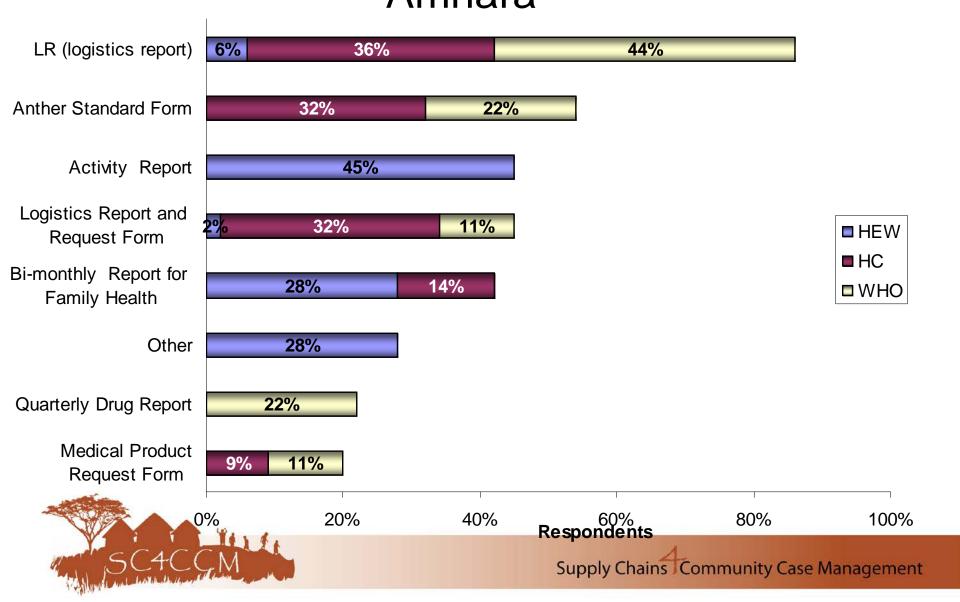


# Stock Keeping Documentation: Amhara



# Types of Reports Submitted - Amhara





## Resupply Procedures for HEWs



### - Amhara

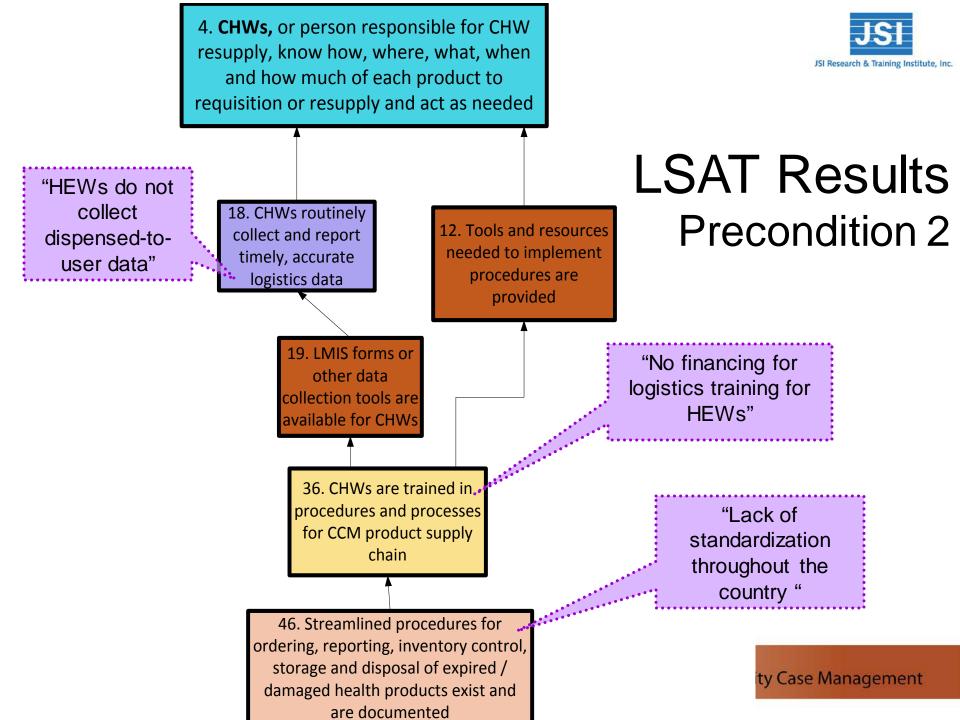
20% of HEWs report being resupplied every month,

while 70% seek resupplies only when they need them

59% of HEWs report using a request form,

but 81% of those use Model 20





### **PRECONDITION 3:**

HEWs have adequate storage: correct conditions, security and adequate space.

Standards for appropriate storage conditions are not fulfilled at all levels





### Satisfactory Storage Conditions

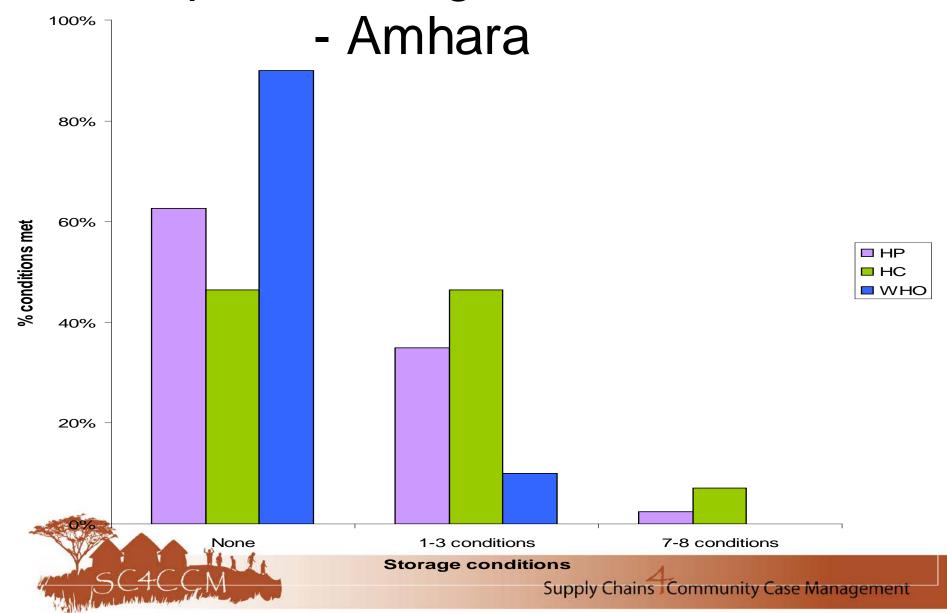
#### Health products are stored:

- separately to damaged and/or expired health products
- in an area free of rodents or insects
- securely with a lock and key, and with limited access
- in an area that is protected from direct sunlight
- at the appropriate temperature
- on shelves or stacked off the floor in stacks and away from walls
- in a clean, dry, well-lit and well-ventilated storeroom
- in an area that is accessible during all normal working hours.
- so that first-to-expire, first-out (FEFO) is observed
- separately to insecticides and chemicals



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### Adequate Storage Conditions





5. **CHWs** have adequate storage: correct conditions, security and adequate space.

# LSAT Results Precondition 3

Insufficient shelving at HPs

HPs have adequate storage

20. Appropriate and secure storage space for CCM products is available

21. Secure and suitable storage containers or shelving for CCM products are procured where needed



### PRECONDITION 4:

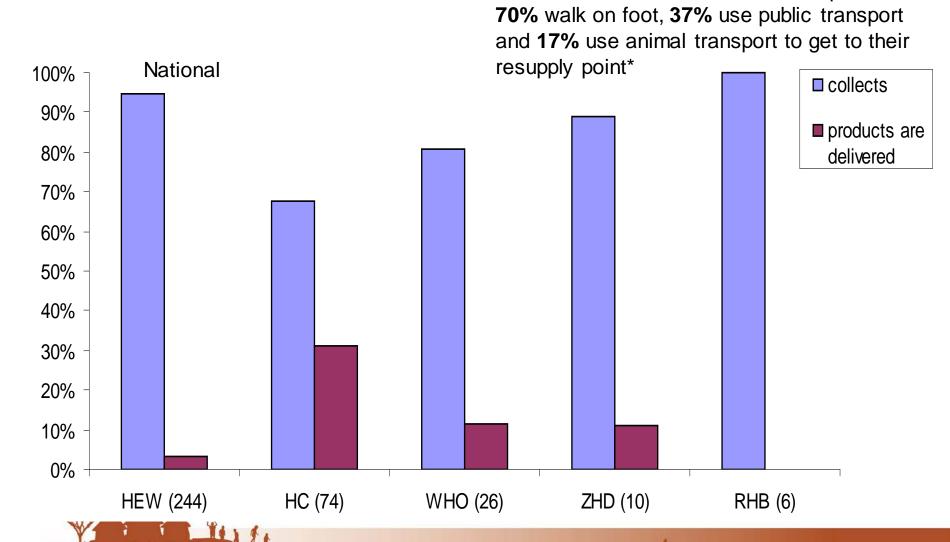
Goods are routinely transported between resupply points and **HEWs** 

- Health posts are generally located in remote areas that are difficult to reach particularly during rainy season
- 33% of 39 HEWs in Amhara with problems related to collecting or receiving health products reported lack of transport as the major constraint



### Delivery & Collection of Products

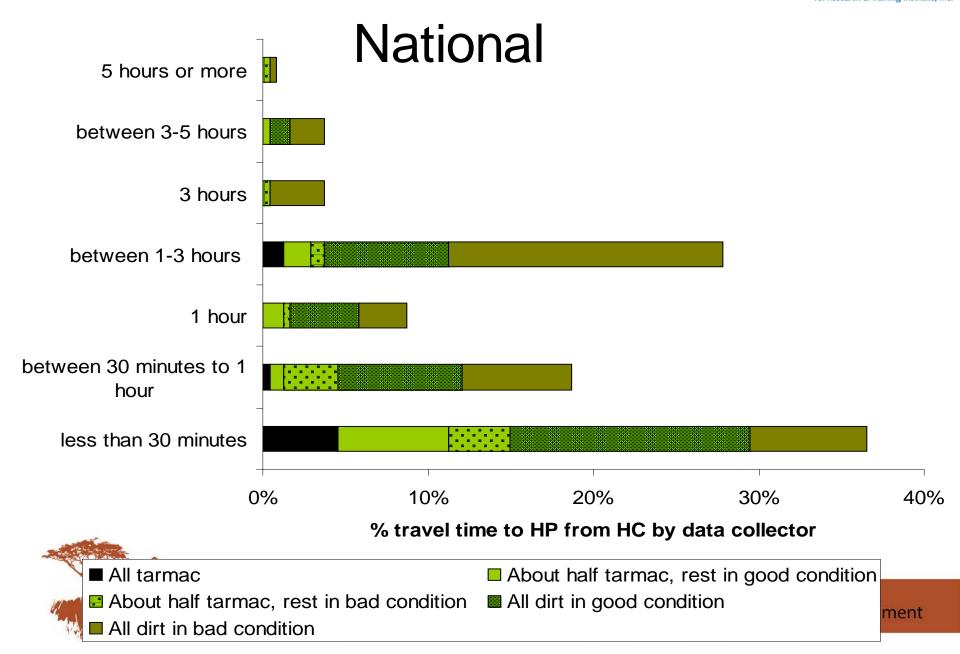




In Amhara of 81 HEWs who collect products,

### Travel Time and Road Condition -

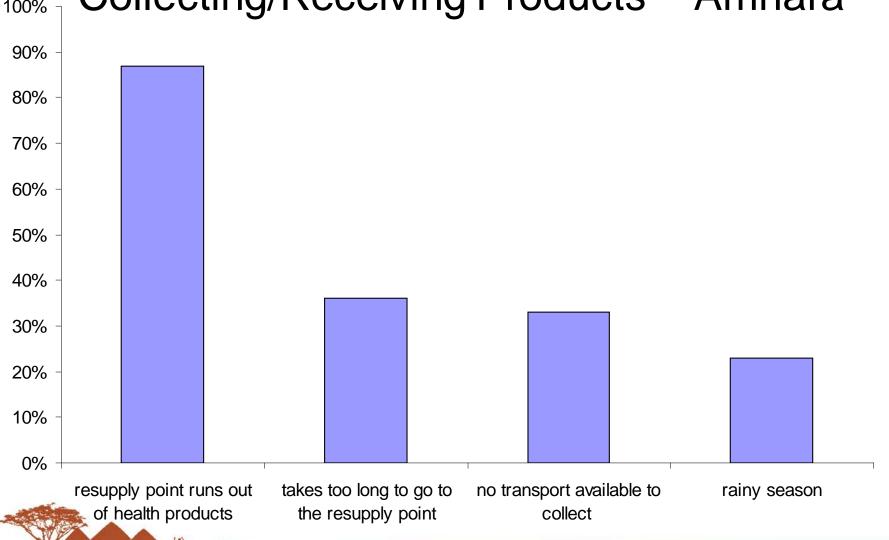




### HEW Reported Problems







### LSAT Results **Precondition 4**

6. Goods are routinely transported between resupply points and CHWs

13. Reliable, timely and appropriate transport is available to distribute or collect goods between resupply point and CHWs

HEW both collect and receive deliveries, but mostly collect. Sometimes HFW Supervisors distribute to HEWs when they visit.

24. Adequate transport procured or hired when necessary for purpose of CCM product distribution

Not enough funding for fuel, vehicles, spare parts, etc



47. Streamlined transportation procedures for maintaining vehicles and distribution /collection of goods exist and ty Case Management are documented

#### **PRECONDITION 5:**

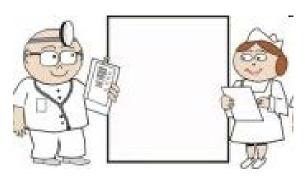
HEWs are motivated to perform their roles in the CCM product supply chain

- High rates and frequency of supervision
  - Supervision not identified as a source of motivation
- 60% of HEWs report high levels of job satisfaction





Supervision - Amhara



**92%** supervisors reported providing supervision to HEWs at least every month

Last 3 months



70% HEWs reported receiving a supervisory visit at least every month

**96%** at the health post



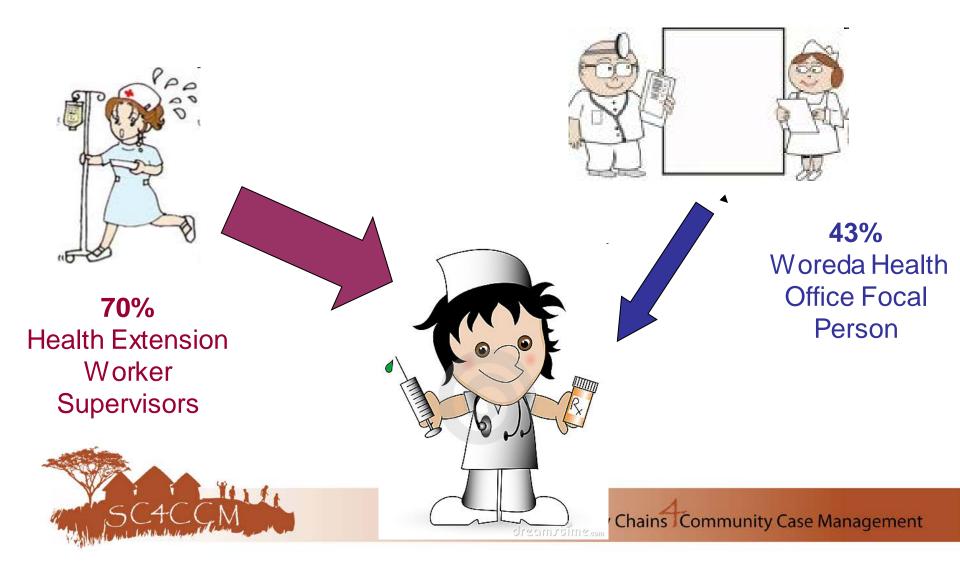
**57%** at the village or community

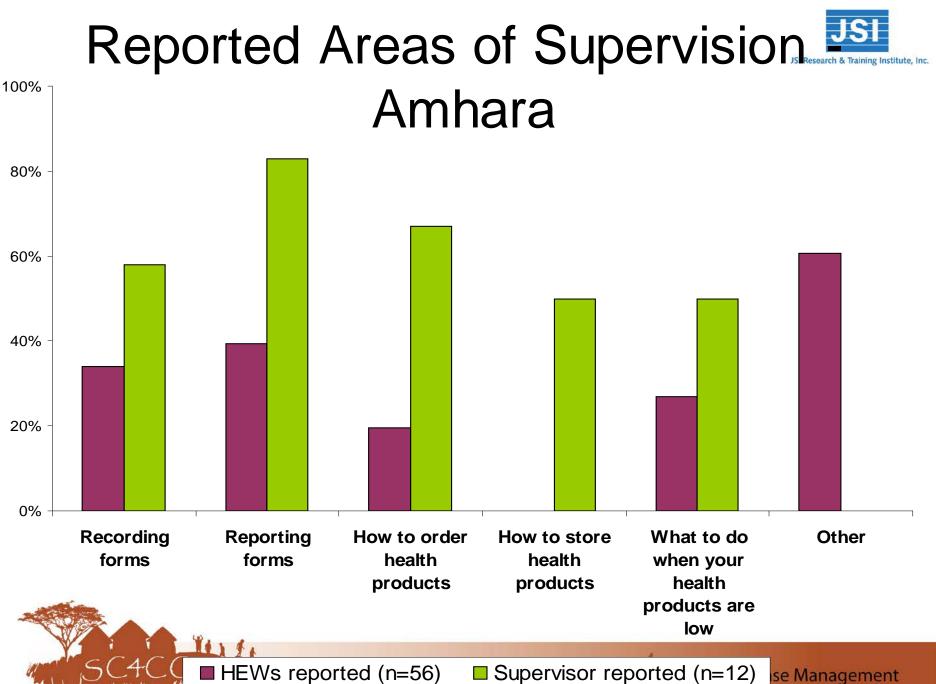


unity Case Management



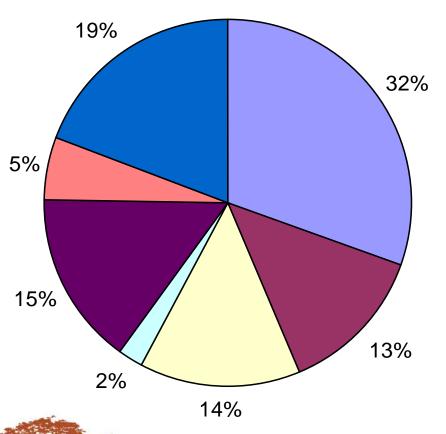
# Who do HEWs Receive Supervision From? - Amhara





### Sources of Motivation for HEWs -**National**



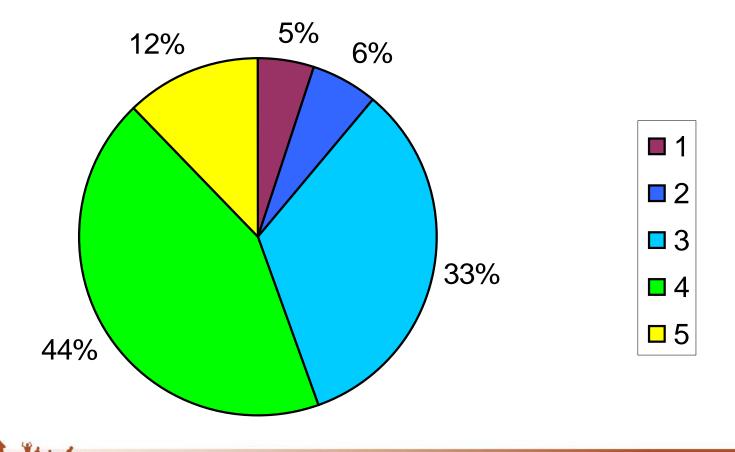


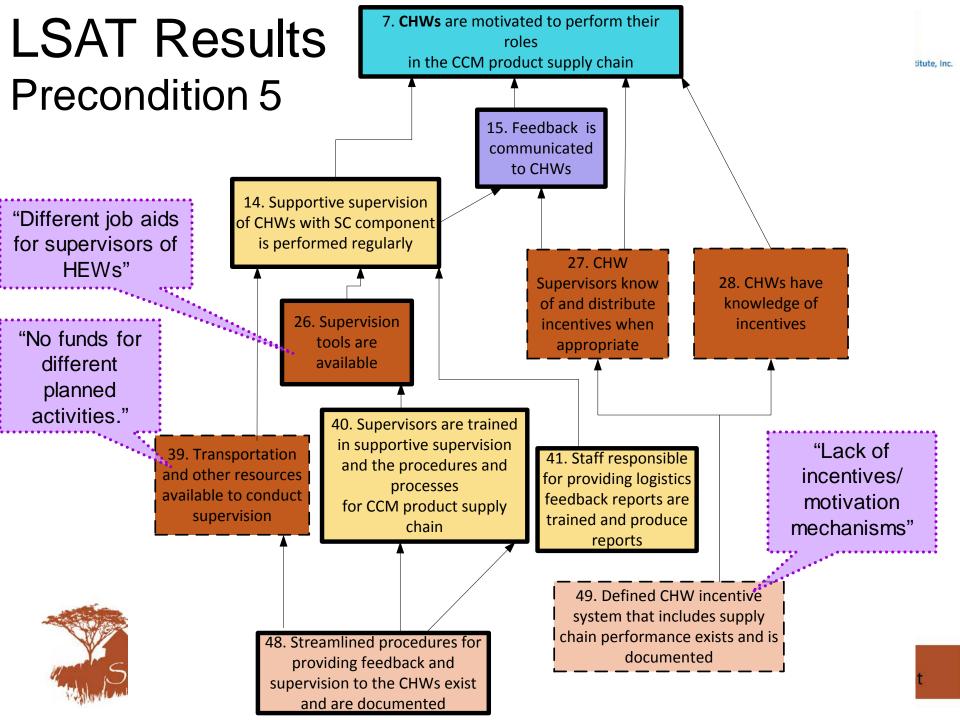
- Getting training
- Helping society
- □ Community participation and support
- ☐ Getting supervision and feedback
- Having/needing sufficient
- products/materials/ equipment
   Need incentive/ salary/ house
- Other

## HEW Self-Reported Job Satisfaction - Amhara



(1-5 with 5 being highest satisfaction)





## Access to Communication Technology - Amhara



Cell phones are widely (83%) available at HEW level

however...

- only 37% of HEWs have adequate network coverage
- only 18% of HEWs have a source to recharge their phones



### Thank You





