Northern Karamoja Growth, Health and Governance (GHG) Program

Network Mapping the Food Trade System
July 10, 2014
Washington D.C.
Access for the Poor

Trade-based famine prevention

Karamoja Chamber of Commerce

Food Trade

Animal Health

Water Access

Public Health Services

Community Behavior Change - WASH - MCHN

Conflict Mitigation

Financial Services

Transport

Input Access
First 1000 Days Suppl. Feeding

Business Fairs

Brideprice

Governance

Mobile Adoption

Insurance

RCA - Mango

Spare Parts, Mechanics

Tillage

Cash Trial

Post-harvest Preservation

Energy

Cattle Marketing

Commercial Destocking

Borehole Repair

Urban Water Systems

Private Health Services

Nutrient-rich food production

Trade-based famine prevention
Characteristics of Food Insecurity

- High prices for staple commodities
- Large terms-of-trade swings
- High price differences over small areas
- Large differences in GAM over small areas (up to 50%, within districts)
- Availability is not a problem, but...
...the poor are market dependent
Network Mapping - Pilot

- Cytoscape
- 22 traders surveyed, found 88 distinct traders
  - Pilot worked, but population and relationships incomplete
  - However, food trade system offered a small universe... we could gather a reasonably complete dataset. So...
• 283 traders surveyed (279 in original effort plus 4 more in targeted follow-up)
  – Found 611 distinct traders/markets and 543 trading relationships
  – Of direct respondents:
    • 40% were female
    • Average age of 31.9 years
    • Only 15% sold to other traders, the rest bought from wholesalers and sold to consumers
Distribution of # of Trading Partners
Most importantly

• Now here’s the really important bit that we discovered...
Use of Findings

• So, what we have is:
  – A structural explanation for the market characteristics we were seeing in the most un-resilient part of our program area
  – A directory of traders to work with, in the effort to build a ‘giant component’ in Kaabong
  – An entry point for potential emergency interventions
  – An M&E tool we can use to annually measure structural changes
A Note of Caution

– Very labor and time intensive

– A distribution network is NOT a social network

– Structural (visual) interpretation requires exhaustive verification, with waves of follow-up

– So this may not be the tool you’re looking for
Thanks

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