The Purpose and Potential for Agricultural Commodity Exchanges in Africa

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African Agricultural Markets Program Fourth Regional Policy Seminar and Training Workshop
September 7, 2010
Lilongwe, Malawi

Commodity Exchanges

The problem
Transactions costs
search, screen, discover price, enforce contract etc.

Thin markets and risky markets

Reduce transactions costs, increase market activity and make risks more manageable
Commodity Exchanges

What are they?

Centralized location for orderly transactions
- Must have organized rules for bidding and other activities
- May or may not have physical product present
- May trade contracts for future delivery

Commodity Exchange
- Why Centralize?
  Increase competition,
  Reduce search costs and
  Avoid thin markets, potentially reducing price volatility…
Commodity Exchange

• Why Centralize?

Chicago Board of Trade, USA
Tahoua market, Niger

Commodity Exchange

• Why have rules for coordination
  – Limit membership to reduce screening cost
Commodity Exchange

- Why have rules for coordination
  - Limit membership to reduce screening cost
  - Specify product form to reduce information cost (grades and standards)
Commodity Exchange

• Why have rules for coordination
  – Limit membership to reduce screening cost
  – Specify product form to reduce information cost (grades and standards)
  – Govern form of bidding to reduce disputes & raise transparency
Commodity Exchange

• Why have rules for coordination
  – reduce screening cost
  – reduce information cost
  – increase transparency
  – reduce disputes
  – arbitrate disputes at low cost

• Plus, trade in futures contracts allows new tools for risk management.

Commodity Exchange

Promise
Easier price discovery and more price information
More intensive market activity and less price volatility
Lower costs of doing business and more business done
New tools for managing price risk
Expanding Mission of a Commodities Exchange

1. Collect and disseminate market information
2. Establish rules for exchanges
3. Certify grades and standards
4. Manage spot trades in kind (and back to 1)
5. Manage warehouse receipts system
6. Manage spot trades in warehouse receipts
7. Trade in futures contracts (and back to 1)

ComEx: Required Conditions

1. Volume of trade
   Costs and Benefits depend on volume.

Need sufficient volume of trade to cover costs through modest service charges and membership fees
   (eg. 0.2% of value, ZAR200/delivery)

Need sufficient numbers of traders to achieve efficient price discovery & competition.
ComEx: Required Conditions

2. Commodity conditions

Storable
Homogenous within grades and standards
Active existing spot markets

Evidence of trader interest
Information for structuring contracts

(contracts not linked to functioning markets fail)

ComEx: Required Conditions

1. Volume of Trade.
2. Commodity conditions.

Large agricultural value added not sufficient, must have
large volumes of
stable, graded product
trading in active open markets.
ComEx: Required Conditions

Volume of right commodity is a BIG Challenge:

- 935 tons maize traded on Ethiopian ComEx in 2008
- 600,000 tons maize traded in SAFEX in July 2010
- 1,049 maize contracts traded daily in SAFEX in July 2010.

Problem:
Exchange needs volume to be effective
Exchange attracts volume by being effective

ComEx: Required Conditions

3. Physical and Institutional Infrastructure

Physical needs:
- Storage and transportation
- Communications and information

Institutional needs:
- Grades and Standards
- Contract enforcement
- Organized smallholders
- Financial sector services

An exchange is infeasible without these and expensive if they must be provided
ComEx: Required Conditions

4. Policy Environment
Macroeconomic stability
  (inflation, currency valuation)
Trade and Price Policy
  Cannot expect participation if prices subject to control, product subject to confiscation or trade policy highly erratic.

Existing Conditions: Volume

Which commodities offer enough volume?
1. Primary Cereal (Maize)
  Politically sensitive and unlikely to be free of price intervention.

Volatility of prices in commodity exchange be intolerable.
Price Volatility in Staple Food

Price variability implied by a ComEx likely intolerable for consumers and government.

Direct price controls incompatible with ComEx.

Existing Conditions

Which commodities offer enough volume?

1. Primary Cereal (Maize)
   - politically sensitive

2. Primary Export crops
   - But they have auction floors and exchanges abroad and
   - Potential for other effective contracting mechanisms

IN MANY COUNTRIES DEMAND FOR EXCHANGE IS NOT APPARENT
Challenge

What is the problem?
Is it the “Walk before you run” problem
Strategy would be:
  – Invest in infrastructure and policy environment
  – Wait for agents to establish exchange independently

This has been the normal pattern…

Challenge

Is it the “Chicken and Egg” problem?
Strategy would be
  – Invest in infrastructure and policy environment
  – Subsidize exchange until enough trade is attracted to make it viable, OR
  – Coerce participation to force adequate activity
The “Chicken and Egg” strategy
In a “Walk before you run” situation
Leads to “Cart before the horse” outcome
Alternative ComEx Approaches

Offshore exchanges
  exchange rate risk
  inappropriate contracts

Regional exchanges
  governance & policy environ difficulties
  only addresses volume issue

Conclusion

• Commodities Exchanges can provide lower transactions costs and new mechanisms for risk management.

• Commodities Exchanges require particular market, policy and environmental conditions to thrive.

• Limits to the capacity to create those conditions in the absence of a critical level of market development and scale.
Thanks