

**Value Chain Analysis for Development: providing evidence for better policies  
and operations in agricultural value chains  
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# **PRIVATE INVESTMENT FOR INCLUSIVE GROWTH IN FOOD VALUE CHAINS IN AFRICA: EVIDENCE FROM SELECTED VCA4D STUDIES**

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# Question and issues



- ❑ **Attracting private investment in African agriculture a key objective of African governments pursuing agriculture-led economic growth for food and nutrition security as well as shared prosperity.**
- **Target set under the Malabo Declaration (made during Summit of Heads of State and Governments of the African Union held in Malabo, Equatorial Guinea, 26-27<sup>th</sup> June 2014).**
- ❑ **Main questions addressed in synthesis paper and presentation are:**
  - a. **Whether private investments can have significant impacts in agricultural value chains (VCs), including driving sustainable and inclusive growth;**
  - b. **Whether inclusiveness requires that the investments should exclusively target smallholder producers and/or small/medium-scale enterprises (SMEs); and**
  - c. **Identify success factors in achieving sustainable and inclusive growth through private investment in agricultural VCs.**

# VCA4D materials



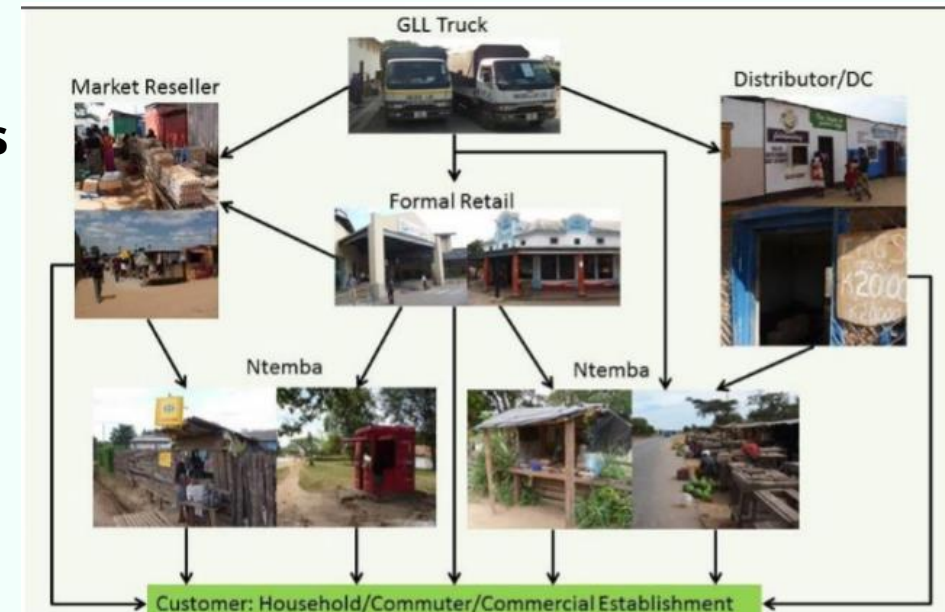
- ❑ **Analysis based on evidence from three VCA4D studies, representing different segments in VCs as follows:**
  - i. Upstream investment in upscaling production capacity of a large-scale eggs producer in Zambia;
  - ii. Midstream investment by medium/large-scale aggregators to improve food grain supply in Nigeria; and
  - iii. Downstream investment in transformation of sorghum grain in Ghana.

# Finding 1



## □ Upstream investment in upscaling egg production capacity in Zambia

- In 2012 the Leading egg producer in Zambia obtained equity investment by the African Agriculture Fund (AAF), which invests in food value chains across Africa.
- Enabled the egg producer, established in 2005, to more than double its production capacity, reaching 750,000 in-lay hens; making it more than 3 times bigger than closest competitor and accounting for over 20% of Zambia's egg production capacity
- Investment complemented by Technical Assistance Facility (TAF) to develop distribution system targeting relatively poor urban consumers
- TAF also supported piloting of smallholder soya producers
  - Smallholders organised by commodity trader
  - Supplied with inputs on credit
  - Output sold through aggregator to egg producer

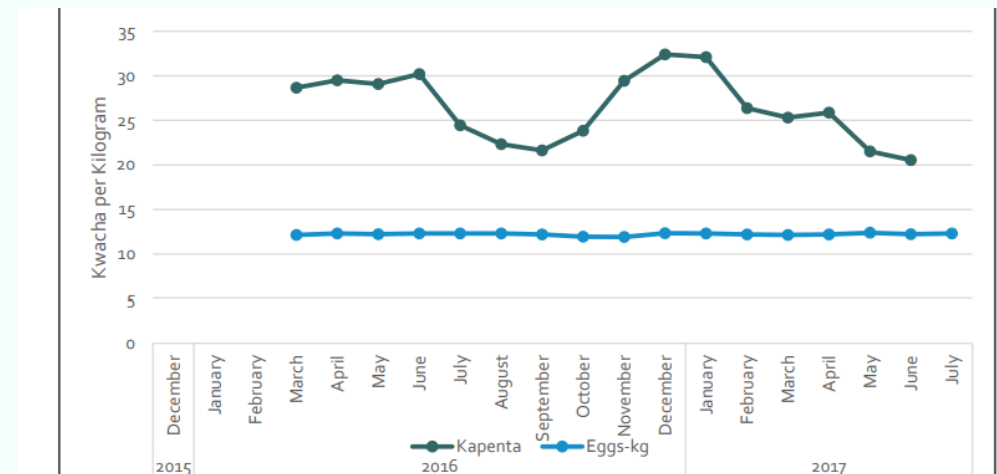


# Finding 2



## □ Result: An “eggcellent” means to pro-poor nutrition security :

- **Large-scale egg producers have become even more dominant – i.e. VC has become less inclusive at the level of production**
- **However, micro/small-scale traders rather than supermarkets and other large-scale traders more dominant in egg distribution**
- **Consumption in relatively poor urban communities spiked; when**
- **Eggs became lowest cost animal protein source in Zambia due to:**
  - Economies of scale gained by leading producer;
  - Competitive pressures it created in the VC; and
  - Response to changing demand; by
  - Developing appropriate distribution system;
  - The bottom-of-pyramid (BOP) network,
  - Highly inclusive of micro/small-scale retailers.



# Finding 3



## □ Midstream investment in modern maize grain aggregation in Nigeria:

- **Medium/large-scale companies investing in grain aggregation/distribution in Nigeria maize VC:**
  - Target mainly large-scale offtakers (e.g. millers, breweries, food processors and poultry farmers). Adopt/enforce trading standards/practices preferred by offtakers and/or regulators.
  - Requires significant investment in modern/efficient grain handling, storage and transport facilities; **plus** substantial working capital (usually buy on cash basis but offer trade credit, up to 3 months)



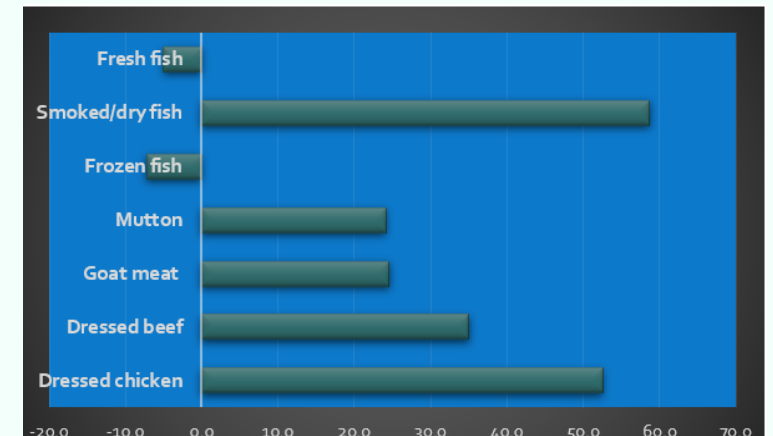
- **Invests in promoting ties smallholder linkages to assure consistent supply of quality grains:**
  - Involves providing inputs credit; farm extension (doubles as monitoring system); postharvest handling equipment; and offering competitive prices (reflecting quality of grains and bulk sales).
- **Funding from multiple sources, including :**
  - Domestic and offshore commercial finance (often secured against forward contracts and/or track record with offtakers); government schemes; donor blended finance.

# Finding 4



## □ Results: the aggregation “anchor” holds promise

- **Package of support to smallholder maize producers:**
  - Significantly boosted smallholder productivity; household income (taking them above national poverty line); and improved household food security (in terms of food availability) - discussed in more depth in paper on Inputs Subsidy Programmes in Africa by Onumah et al. (forthcoming).
- **Supply of quality grains:**
  - Critical in reducing pressure to import grains by processors and poultry industry, something that often triggers ad hoc policy interventions, often with adverse economic consequences
  - Sustaining poultry industry critical in Nigeria’s nutrition security
  - Benchmark egg price against cost of other protein sources



# Finding 5



## □ Downstream investment in sorghum processing in Ghana

- **Sorghum: major staple grain produced in Northern Ghana (incidence of poverty relatively higher in producing communities than Southern Ghana)**
- **Drought-tolerant: important as evidence shows reducing precipitation and more erratic rainfall, especially in the northern regions of Ghana**
- **Important not only in food systems but also as a high potential industrial crop – one of the most processed in Ghana (volume processed versus total output)**
- **Processing dominated by micro-scale *pito* brewers, predominantly women. Activity entails:**
  - Significant health hazards (smoke inhalation, risk of scorpion & snake bites – hide in firewood); and adverse environmental impacts due to reliance on firewood as energy source
- **Investment by leading brewery – replacing barley with sorghum**
  - Research into varietal selection and multiplication by public sector;
  - Funded by donor (Common Fund for Commodities)
  - Complemented by investment by private aggregators/suppliers
  - Farmer network development aided by GIZ project



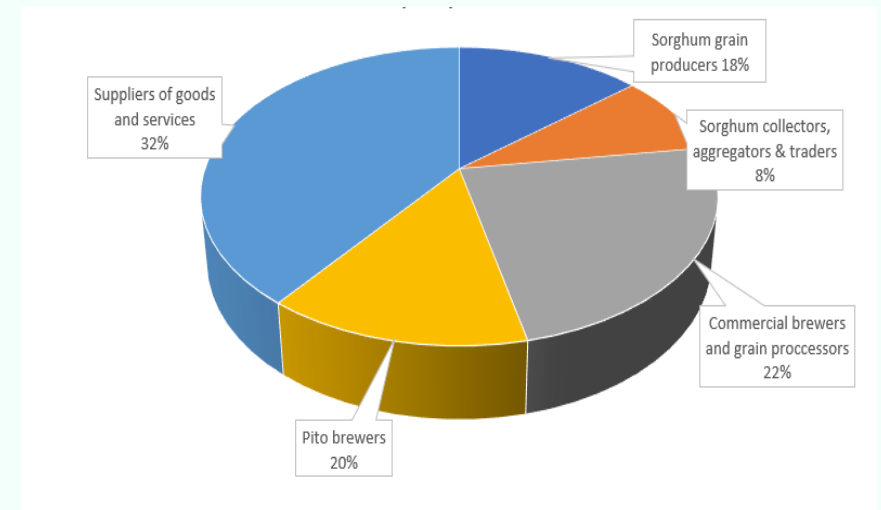


# Finding 6



## □ Downstream investment in sorghum processing in Ghana

- **Smallholder producers integrated into supply to brewery had income boost due to:**
  - Becoming more productive and expanding farms as a result of access to inputs financed provided by aggregators; and assured uptake at prices set during planting
  - Attracting youth into sorghum production; away from unregulated mining (“... more rewarding but highly risky”)
- **Micro-scale *pito* brewing remain resilient; absorb extra output from smallholders producing for the brewery**
- **Benefits from entry by brewery include:**
  - Foreign exchange savings – about €6.6 million per year
  - Substantial contribution to value added and public finance
  - Creating supply chain for other sorghum processors
  - Significantly lower processing-linked environmental impacts;
  - Due to compliance with environmental regulations; though
  - Pito brewing involves very low transport-related emissions



# Implications for decision making process 1



## ❑ All three private investments driven by “for-profit” motives e.g.:

- Upscaling to increase competitive edge (e.g. egg producer)
- Taking advantage new opportunities (e.g. providing modern aggregation and distribution services)
- Exploiting cost-saving opportunities (e.g. shift by brewery to local raw materials)

## ❑ Generated economic, social and environmental benefits:

- May not directly lead to inclusiveness; but
- Economic benefits: contribution to value added and public finance (important as most actors in agriculture are tax exempt)
- Social benefits: increased incomes for smallholders (taking some out of poverty); contribution to improved food and nutrition security; and job creation
- Environmental: adverse impacts reduced through increased crop yields (more without expanding area under cultivation); compliance with environmental standards and procedures which minimise adverse impacts

# Implications for decision making process 2



- ❑ **Addressing risks and constraints in VCs proved critical in attracting private investments, including the following:**
  - Adjusting to change in demographics in consumer demand for eggs in Zambia
  - Lack of physical infrastructure to support efficient commodity trading
  - Free rider issues which hamper private investment in research and development for innovation (especially at the level of processing)
  - Financing constraints: both supply and cost of borrowing (often driven by public sector borrowing)
  - Policy actions which heighten market uncertainty
- ❑ **Public goals (inclusiveness and sustainability) and private motivations are not necessarily mutually exclusive**
  - Aligning these provide opportunities to optimise positive externalities from strategic private investments
  - VC development frameworks need to pay more attention to identification and mitigation of risks and constraints which impede private investment – adopting an approach which is as robust as methodology used in economic, financial, social and environmental analysis in VCA4D.



  
[VCA4D]  
VALUE CHAIN ANALYSIS FOR DEVELOPMENT

**Value Chain Analysis for Development:  
providing evidence for better policies and  
operations in agricultural value chains**

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