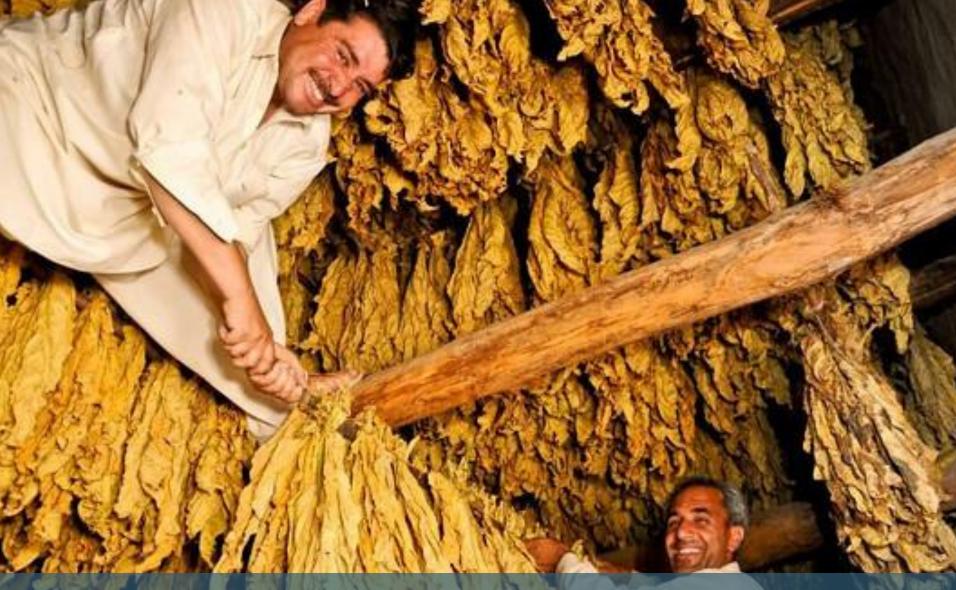
Understanding Smallholder Families, Developing Financial Solutions

Boulder Rural and Agricultural Finance Program Master Class | Wednesday 19 July 2017





Understanding the distinct segments of smallholder households — within this massive, heterogeneous client group — is the key to effective design and delivery of financial solutions



CGAP and partners







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Case Study: Centenary Bank, Uganda

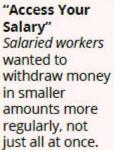
GO-TO-MARKET MESSAGING LESSONS

Without segmentation, Centenary Bank's "Take your bank everywhere" messaging was generic and did not resonate strongly with customers:



But once the bank used segmentation to understand their target customers, they were able to tailor messaging to address some of the pain points uncovered by customer research:







Directly from Your Account" The youth market wanted to spend less time in long bank queues and receive funds from relatives more easily.

"Make Payments



Costs"
The business community wanted to save time by not having to travel to a bank to handle daily transactions.

Transportation



SEGMENTATION

CGAP and partners

2013 Global segmentation

- Based on a desk review of available literature and data
- Crop types: Staple crops and high-value cash crops
- Markets: None, spot market, high-value export markets



Segmentation of smallholder households

Christen and Anderson (2013)

Noncommercial smallholders

- Landless, or up to 1 hectare
- Staple crops
- Production consumed by the household
- Little market engagement

Very limited access to financial services, informal tools if anything

Commercial smallholders in loose value chains

- 1-2 hectares
- Staple crops and some cash crops
- Some production consumed by the household
- Reliable surplus of staple crops sold informally

Limited access to financial services, largely informal financial tools

Commercial smallholders in tight value chains

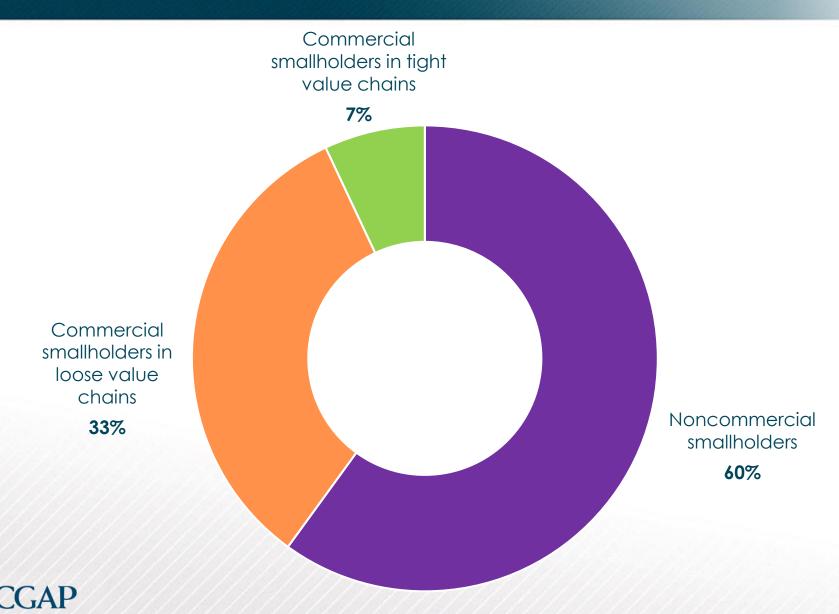
- At least 2 hectares
- Cash crops and some staple crops
- Some production consumed by the household
- Reliable surplus of staple crops sold informally
- Cash crops sold through contract farming

Access to formal and informal financial services, some through buyers



Segmentation of smallholder households

Christen and Anderson (2013)



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2016 Country-level segmentations

- Based on smallholder household survey data
- Financial inclusion as the dependent variable



Six variables drive five segments to financial inclusion

- Educational attainment of the head of the household
- Socioeconomic status (e.g. above/below USD 2.50 day poverty line)
- 3. Access to emergency funds (5% of GNI per capita in local currency) within a month
- **4. Mobile phone ownership** (at least one phone in the household)
- **5. Attitude toward the future**: "The future will take care of itself"
- **6. Experience of unexpected event** in last 12 months (e.g. severe illness, accidents)



Five segments of smallholder households

CGAP National Survey of Smallholder Households

Farming for sustenance

Battling the elements

Diversified and pragmatic

Options for growth

Strategic agricultural entrepreneurship

The oldest segment
Lowest HH income,
generating very
little ag income
Very limited access

to financial tools

The youngest segment

Low HH income, more from ag and other sources

More financial tools, still very vulnerable to shocks

Growing more, selling more, and earning more

Engaged in more income streams and using more financial tools

Rely heavily on agricultural income, and most likely to have other stable income sources

Young, optimistic and love farming, but have options

Relatively highest income and most access to financial mechanisms

Successful in ag

Have resources and tools to get through tough times

Highly vulnerable to

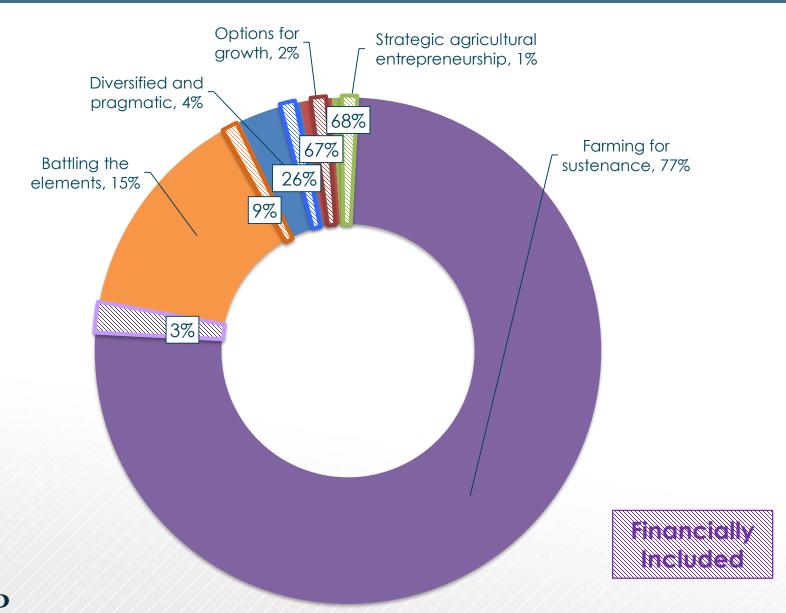
Persevered through harsh agricultural challenges yet remain optimistic toward farming Take pride in their agricultural activities, but more likely to leave the sector if given the choice

Could pivot into or out of farming depending on opportunities

Model or "use case" to inspire growth in other segments

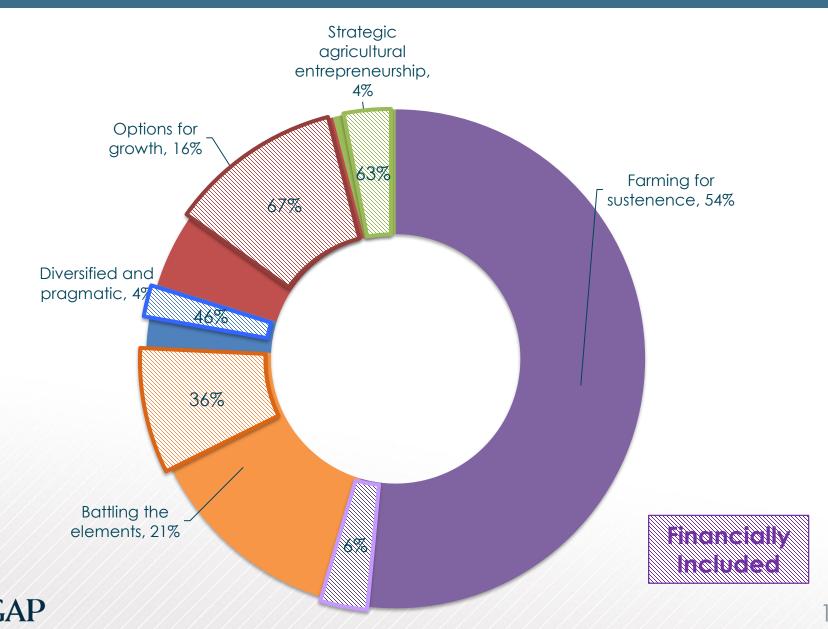


Five segments of smallholder households: Mozambique

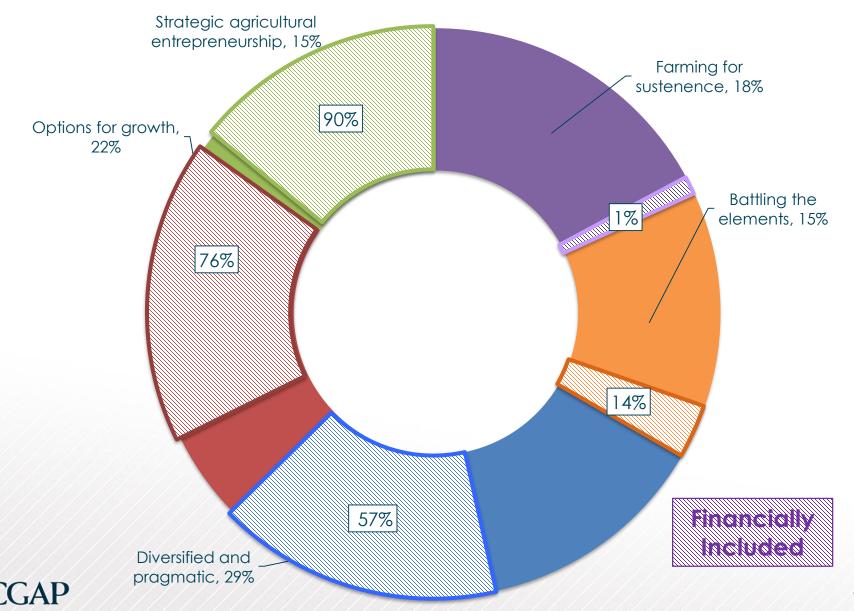




Five segments of smallholder households: Uganda

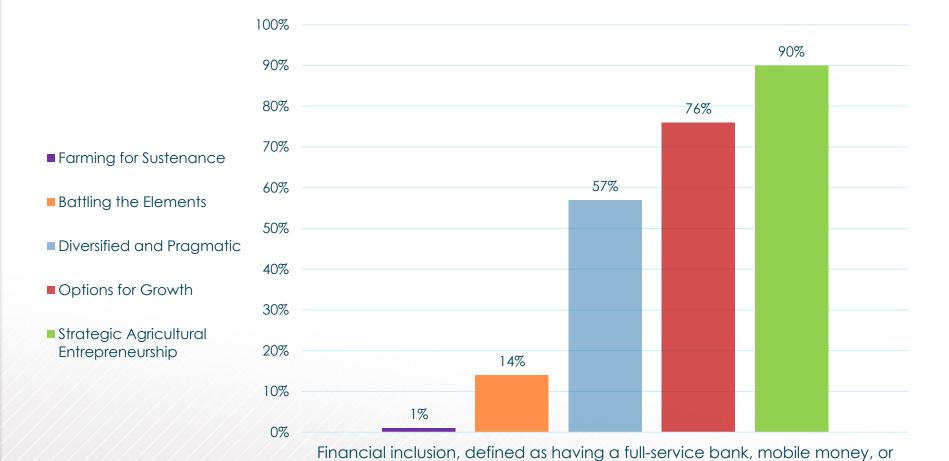


Five segments of smallholder households: Tanzania



Six variables drive financial inclusion by 5 segments

CGAP National Survey of Smallholder Households in Tanzania

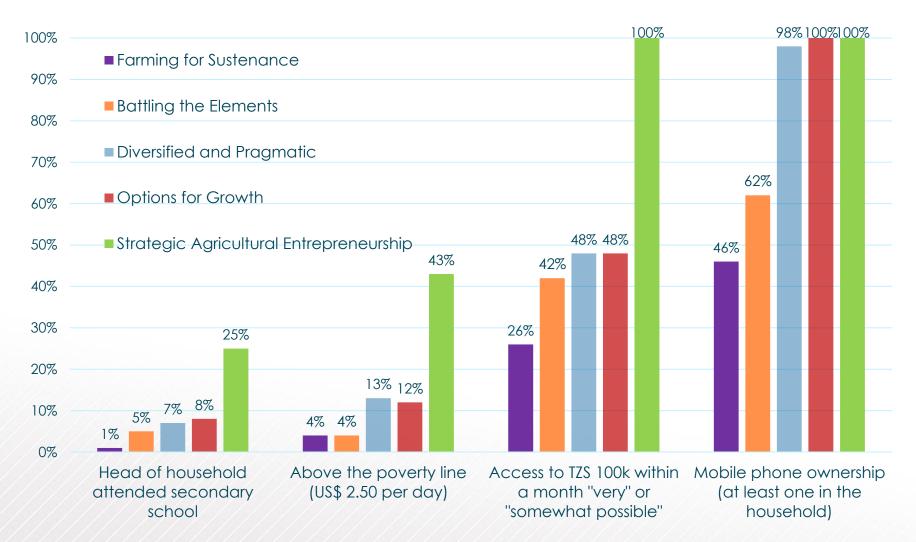


nonbank financial institution account with access in one's own name



Clear distinctions between smallholder household segments

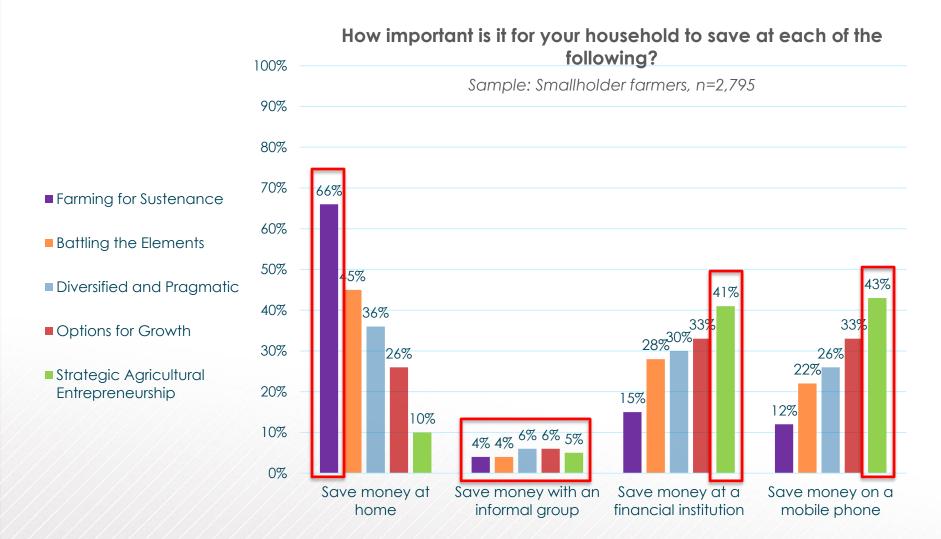
CGAP National Survey of Smallholder Households in Tanzania





Varied importance of savings mechanisms across segments

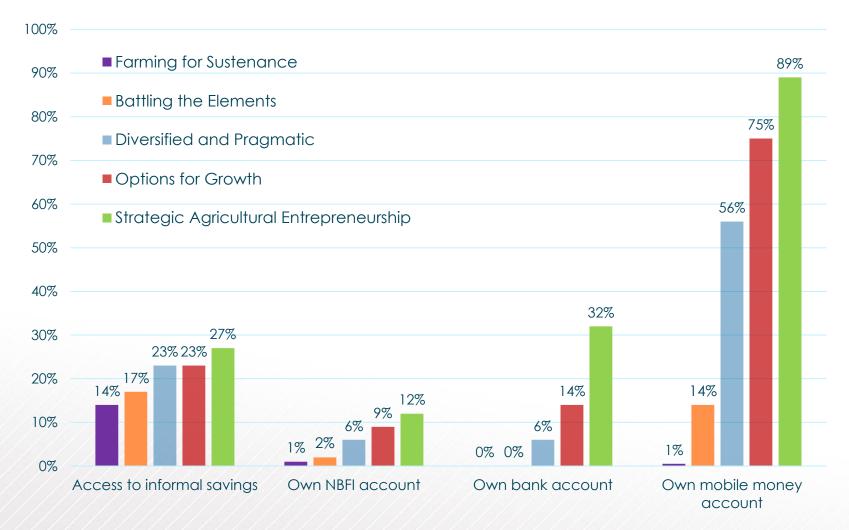
CGAP National Survey of Smallholder Households in Tanzania





Varied access to financial mechanisms across segments

CGAP National Survey of Smallholder Households in Tanzania





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2016 Country-level segmentations

- Based on smallholder household survey data
- Financial inclusion as the dependent variable



2017 Segmentation across countries

- Based on smallholder household survey data
- Farm size, income sources, farming as a business, markets, use of a contract, and types of on-farm labor



Six variables differentiate smallholder households

- 1. Farm size
- 2. Sources of income
- 3. Whether the household considers farming as a business
- 4. Contracts with sellers
- 5. Markets for agricultural outputs
- 6. Types of labor used on-farm



Segmentation of smallholder households

CGAP and Nathan Associates (2017)

Commercializing smallholder households

- Rural
- Larger smallholdings
- Higher income: Mainly agricultural income
- Cash crops for sale
- Often a formal contract: Sales to wholesalers or processors
- Informal and formal financial tools

Small-scale households

- Rural
- Small to med-size smallholdings
- Low income:
 Ag and casual employment income
- Consumption, with some surplus for sale
- No contracts: Sales to public or through a co-op or middleman
- Some informal financial tools

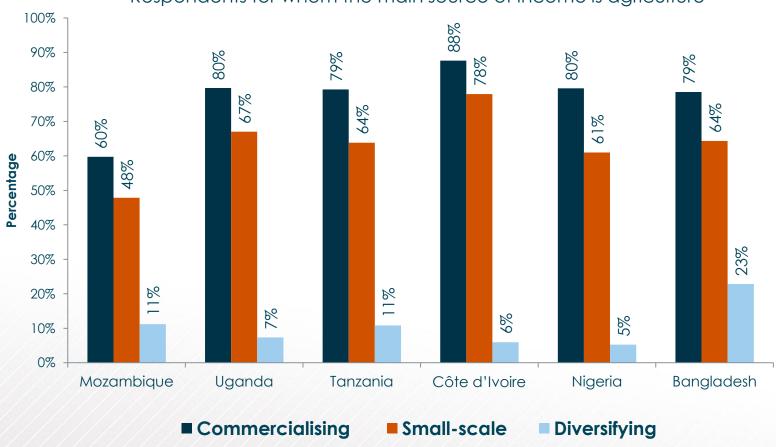
Diversifying smallholder households

- Urban, peri-urban, and rural
- Smallest smallholdings
- Higher income:
 Regular or casual employment, own business, some ag
- Consumption crops
- No contracts: Crops sometimes sold locally
- Mostly formal financial tools



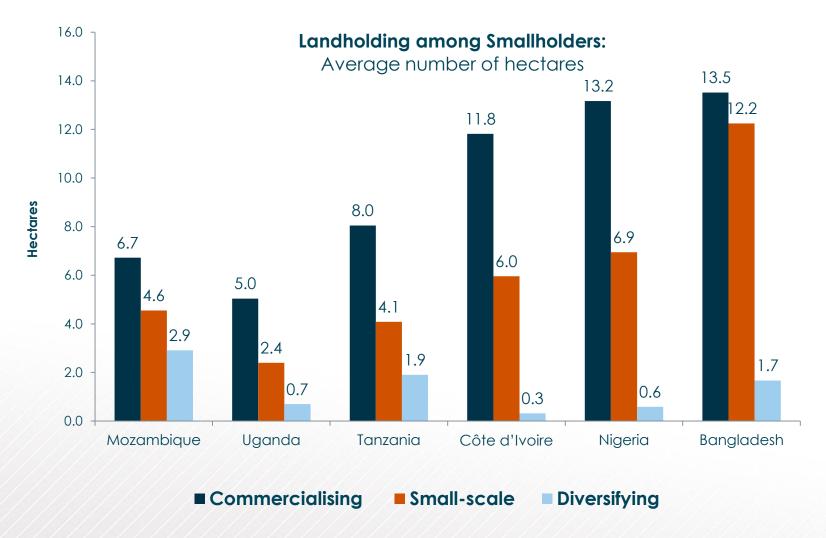
Cleavages between the segments: Agricultural income





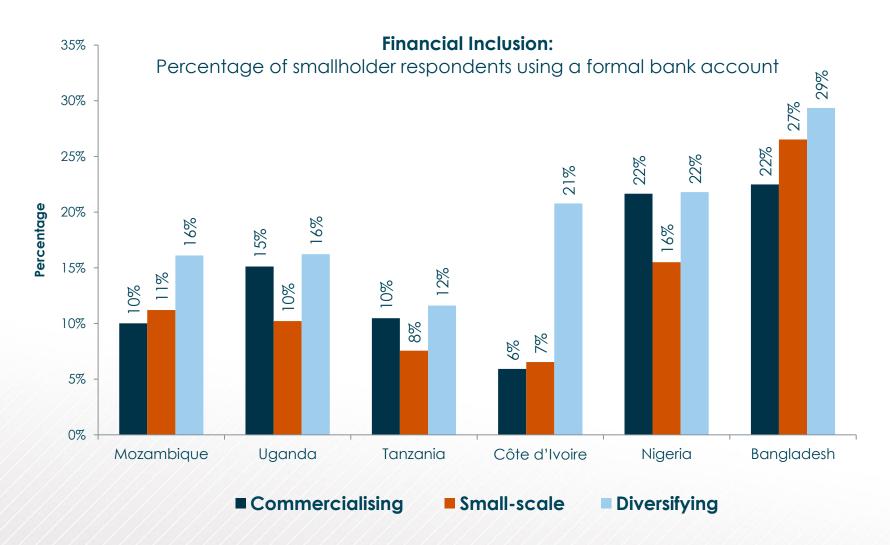


Cleavages between the segments: Average landholding





Cleavages between the segments: Formal accounts







Implications for providers by segment

CGAP National Survey of Smallholder Households

Farming for sustenance

Battling the elements

Diversified and pragmatic

Options for growth

Strategic agricultural entrepreneurship

- Graduation and other approaches to build livelihoods and resilience
- Savings products for shocks and consumption smoothing
- Government led social protection programs

- Need for risk mitigation strategies, e.g. improved seeds, ag methods
- Financial solutions for family needs: e.g. health, education, energy
- Better access to informal financial tools

- Financial tools to save, purchase over time, and possibly borrow
- Financial solutions bundled with non-financial services, e.g. information, extension
- Aggregation services

- Formalized connections value chains to increase access to financial services
- Post-harvest storage and financing solutions

- Digitized links to value chains
- Relationships that build credit and facilitate access to formal FSPs
- Credit for investments in assets to increase productivity



RESOURCES



THANK YOU! QUESTIONS?





Advancing financial inclusion to improve the lives of the poor























and Cooperation SDC



































































National surveys and segmentations of smallholder households

Methodology and sample design

Example: Tanzania

- Nationally representative survey of 3,000 smallholder households from February to March 2016
- Results at national level and for regions (groups of zones in Tanzania)
- Sample designed by InterMedia in collaboration with the Tanzania National Bureau of Statistics







Three-stage sampling Stratified multi-stage design

Enumeration areas

- 2012 National population census
- 212 enumeration areas randomly selected
- Stratified by urban and rural

Household listing in all selected EAs

Identify releval households according to the second seco

- Identify relevant smallholder households according to study parameters
- Provide frame for the second stage of sampling
- Second sampling stage: 17 smallholder households selected in each EA

Household members

Households

- All members of household that participate in agriculture and income activities
 - and -
- Randomly selected household member



National surveys and segmentations of smallholder households

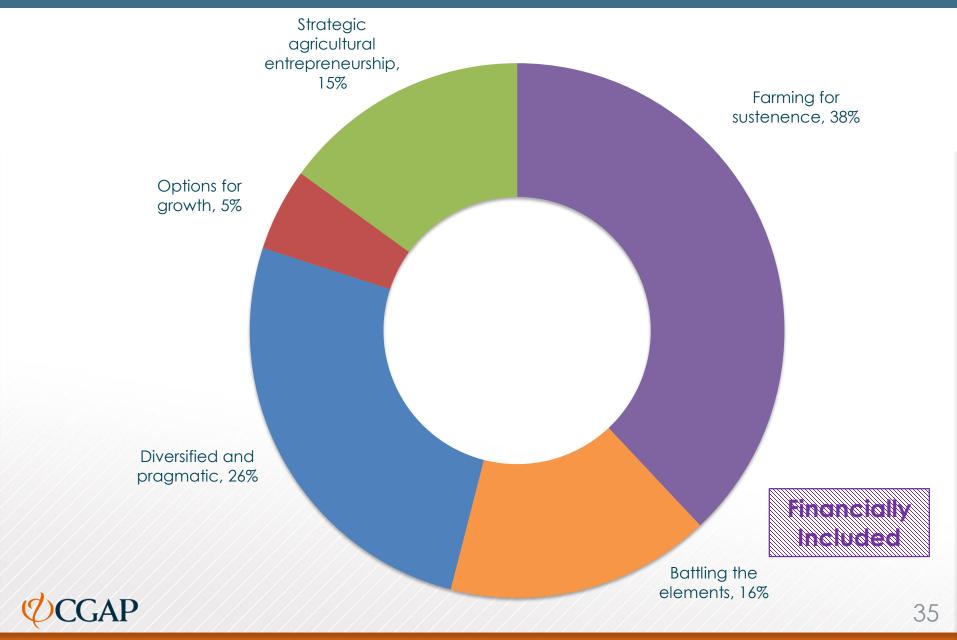
Identification of relevant smallholder households for sample

Listing criteria for the national survey of smallholder households

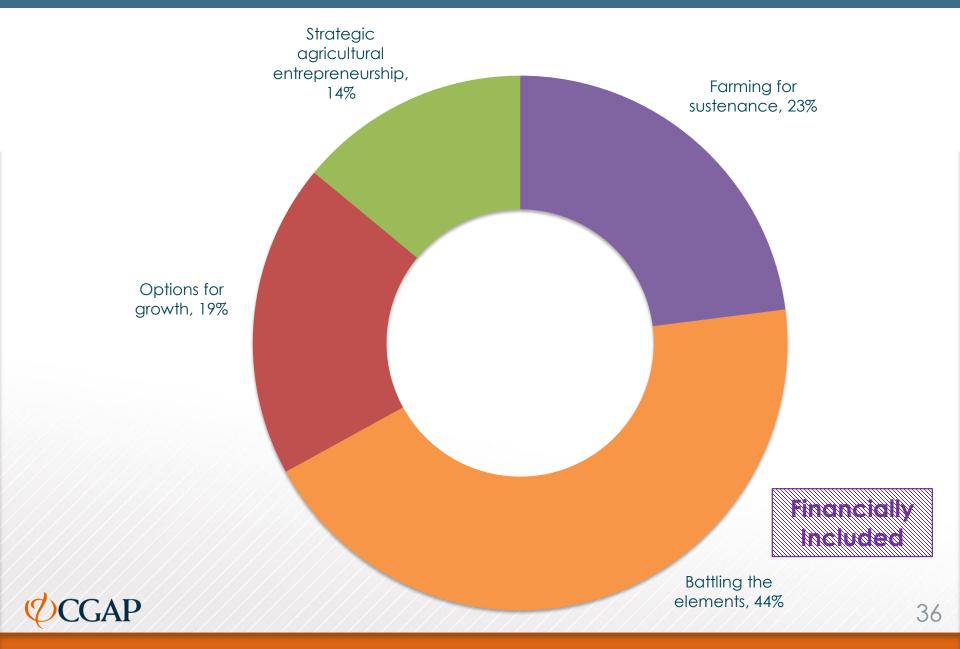
Land and livestock measures	r	Measures of self-perception
Household with up to: • 5 hectares of land		Agriculture provides a meaningful contribution to the household: • Livelihood, • Income, or • Consumption
OR		
50 heads of cattle;100 goats, sheep, and pigs, or1,000 chickens		



Five segments of smallholder households: Cote d'Ivoire



Five segments of smallholder households: Nigeria



Five segments of smallholder households: Bangladesh

