

AGRIFIN ACCELERATE PROGRAM

Tanzania Ecosystem Study Presentation

Leesa Shrader Program Director, AgriFin Accelerate

July, 2016 Dar es Salaam, Tanzania





AGENDA

- Keynote Speakers
- > Introduction to AFA Program
- Tanzania Ecosystem Study: Summary
-) Tanzania Smallholder Research
-) Farmer Capability Lab
- Panel of Experts: Digital Partnerships
-) Discussion Q&A





The Challenge and the Opportunity for AgriFin Accelerate

Agriculture can play a powerful role in poverty reduction, especially when focused on smallholder farmers.



1% increase in crop productivity reduces the number of poor people by 0.72% in Africa. (CGIAR)

A recent McKinsey study estimates that mobile and internet technology can drive up to \$3 billion in annual agricultural productivity gains by 2025.[iii]



Sub-Saharan Africa is also expected to see the strongest growth of any global region in the number of smartphone connections2 over the next six years, reaching
525 million by 2020.

Sub-Saharan Africa's unique mobile subscriber base has grown by



over the last five years, the fastest growing region globally.
By June 2014, there were 329 million unique
mobile subscribers and 608 million
connections, but women in sub-Saharan Africa are 23% less

likely to own a mobile phone.







Tanzania Program Launch **AFA Program Objectives**

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THE GOAL

AgriFin Accelerate is a 6-year, \$25 million program working in Kenya, Tanzania and Zambia

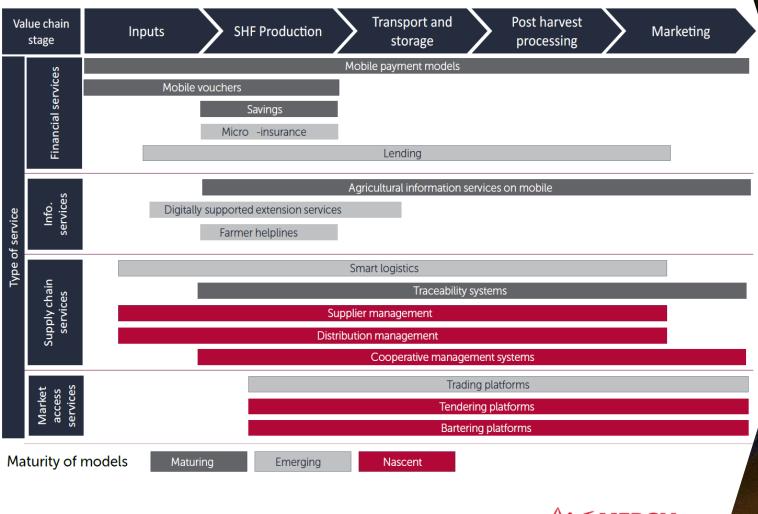
AgriFin Accelerate will support the expansion of digital financial services to one million farmers in Sub-Saharan Africa over six years, delivered by growing ecosystems of diverse service providers.

TARGET GROUP

AgriFin Accelerate's underserved smallholder farmers living on less than \$2.50/day



Tech Innovation & Agriculture



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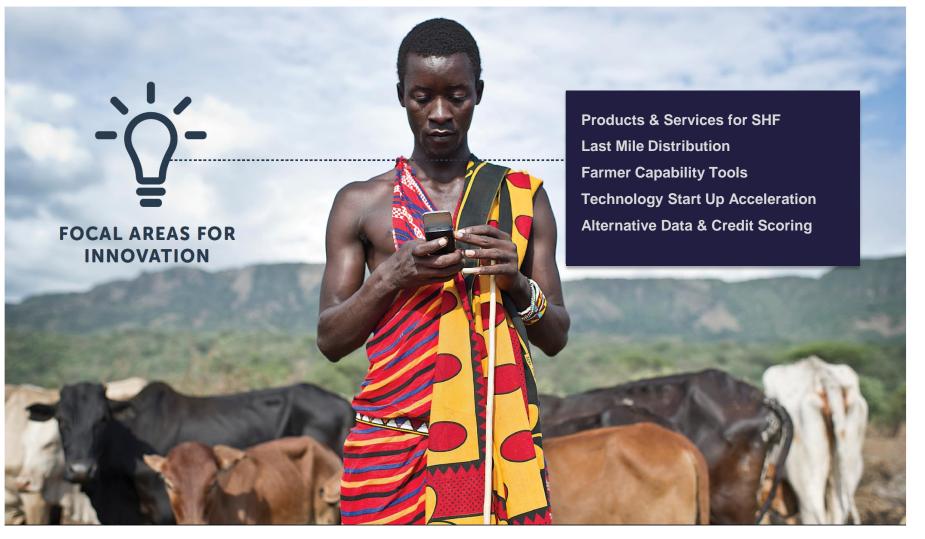
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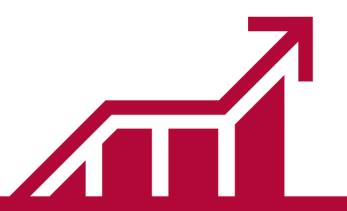
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Tanzania Program Launch





EXPECTED **OUTCOMES**



Outcome 1:

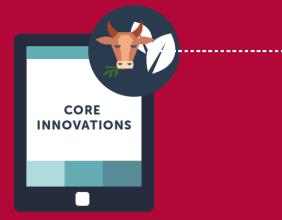
Market actors expand, improve and continue to offer high-impact digital financial services products and services that are tailored to the needs of smallholders;

Outcome 2:

Farmers increase capability to access and utilize demand-driven, high impact technology-enabled financial products and services;

Outcome 3:

Ecosystems emerge supporting provision of digital financial and informational services to SHFs.



Rapid iteration engagement model to drive innovative, client-centric product development; and

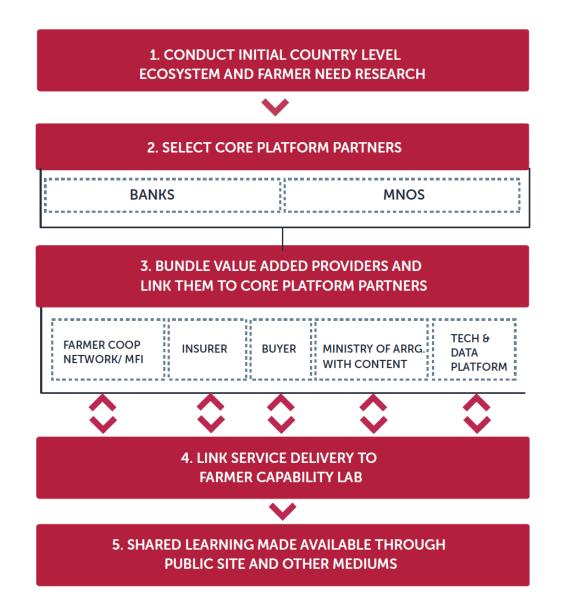
--- Work with partners to **develop "bundles"** of digitally-enabled services offering farmers affordable access to financial and informational services.



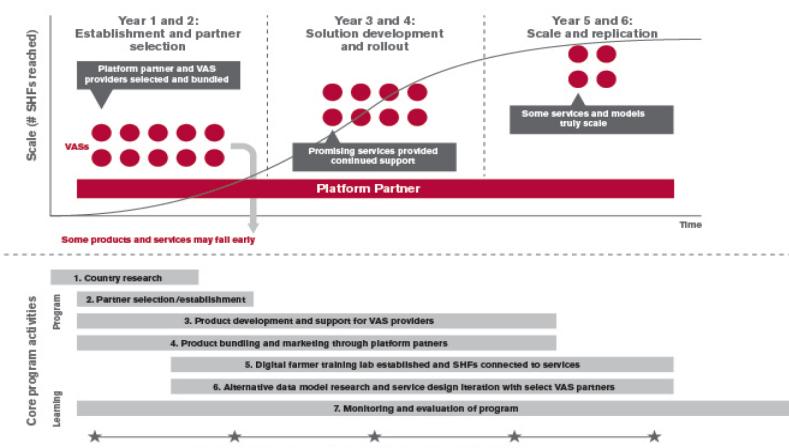




AgriFin Accelerate Engagement Model



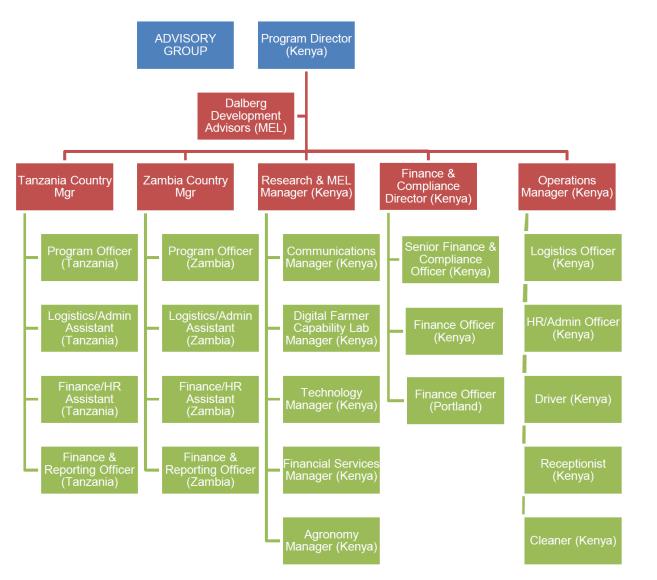
Country Engagement Model



8. Annual country ecosystem convening and learning agenda products developed

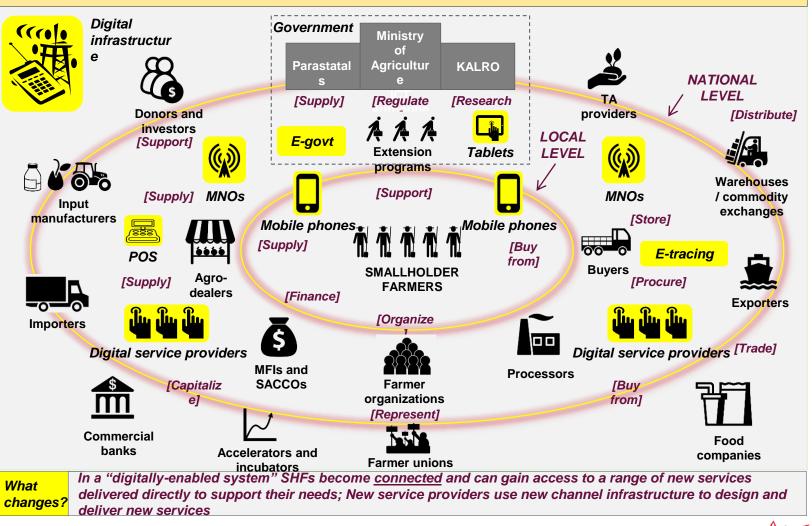


The AFA Team



Ecosystem Approach

ECOSYSTEM FRAMEWORK: A DIGITALLY ENABLED AGRICULTURAL SECTOR





Tanzania Program Launch

Human Centered Approach: Personas



"Farming is my business. I earn money for myself and help my boys finish school."



FINANCIAL BEHAVIOR

HAS BANK & MPESA ACCOUNTS (MPESA IS SAFER THAN CASH) IS PART OF SEVERAL INFORMAL SAVINGS GROUPS DEDICATED MEMBER OF COOP – APPRECIATES LUMP SUM PAYMENTS EMBRACES PRODUCTS LIKE INSURANCE The achiever is doing well, maintaining a growing farm business and stable home environment, meeting education, health and business goals. He or she envisions expanding the business by acquiring more land, more productive assets, etc.

He/she has established a good system to manage the farm, cashflows and multiple financial partners/products, and regularly acts on technical advice to improve productivity, while always looking for ways to improve and earn more.



ALREADY HAS A SMARTPHONE (OR IS BUYING ONE)

SMS NOTIFICATION FROM COOP IS IMPORTANT AND HELPS TRACK BUSINESS PERFORMANCE & FINANCES

MOBILE PHONE IS A TOOL FOR INFORMATION AND ENTERTAINMENT



Tanzania Program Launch **Human Centered Approach: Personas**



"When I needed to know what to do with my farm, I used to be able to go to my Father. Since he passed away, I go on Google to learn."

The striver is a young and passionate farmer, but still learning how to farm. He is driven, but not sure who to trust. The Internet and youth support groups are key resources.

The key challenge for the striver is decision making related to farming, how to use precious resources and deciding who to listen to. He is still building market contacts, hands-on experience and struggling to understanding how to best save and invest for his future. Animals fertility, productivity and farm security are needs.



FINANCIAL BEHAVIOR

HAS MPESA ACCOUNT, BUT RELUCTANT ABOUT MSHWARI WORKS WITH YOUTH SAVINGS GROUP, DOESN'T TRUST COOPERATIVE SIDESELLS TO INCREASE CASH NEEDS FINANCIAL ACCESS FOR LARGE PRODUCTIVE ASSETS TO GROW



BEHAVIOR

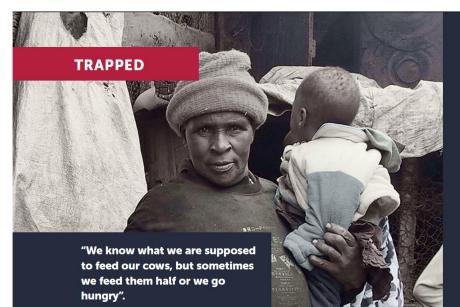
SMARTPHONE USER: A BUSINESS TOOL FIRST, SOCIAL TOOL SECOND

DOESN'T LIKE SMS TIPS FOR FARMERS BECAUSE THEY DON'T ANSWER QUESTIONS WHEN HE NEEDS IT

WILLING TO PAY CASH FOR NEW SMARTPHONE



Tanzania Program Launch **Human Centered Approach: Personas**



Trapped is the pillar of his/her household but with tight cash and low family support, struggles to invest what is needed for the business and still feed the family.

Trapped is aware of the things that need to be done to help the farm become more productive, but cannot afford to take any action. Although the farm supports a large family, there is lack of adequate support from family members and it is difficult to support the growing number of children. With multiple generations living on the farm, there is little need for mobile phones for transfers or communications.



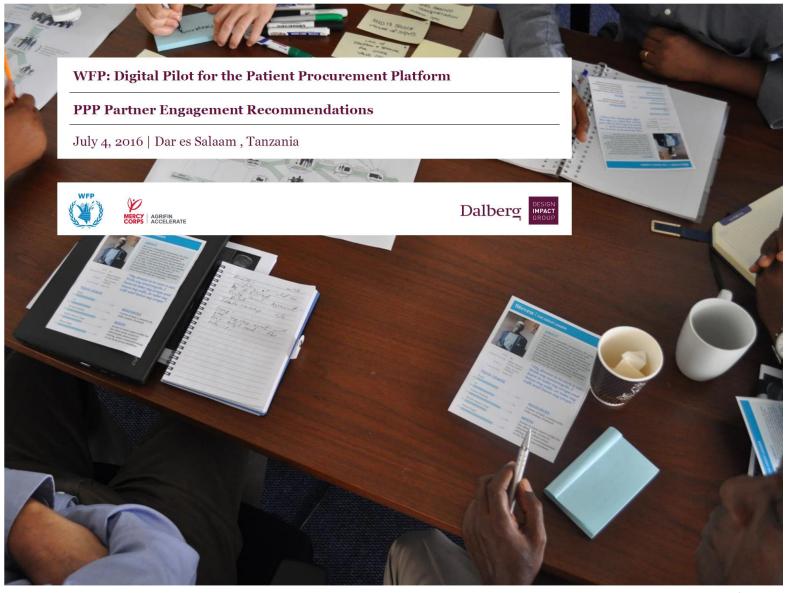
MPESA ACCOUNT (DORMANT) COOP BANK ACCOUNT (FOR MONTLY COOP PAYMENT) BUT DOESN'T USE THE ATM IS PART OF A CHURCH SACCO USING MANY FINANCIAL INSTRUMENTS, BUT NONE MEET HER NEEDS



BEHAVIOR

LOVES THE RADIO AGRI PROGRAM **OWNS A FEATURE PHONE, BUT RARELY USES** CHILDREN HAVE FB ACCOUNTS CAN'T AFFORD PAY TV, BUT LIKED THE FARMER TV SHOWS







The PPP is a consortium of public and private partners that facilitates forward-buying contracts to support farmers from seed to delivery

The WFP Patient Procurement Platform aims to create an integrated, stable market for maize



Partners involved in the PPP include:

Extension Service Providers	Input Suppliers	Offtakers/Buyers	Advisors				
<image/> <image/> <image/>	Seedco	 WFP WFP WFP WFP WFP WFP WFP WFP Weight Animal Products Ken Millers Kibaijgwa Maize Flower International Tan Seeds Limited Silverlands Tanzania Limited New Bugaloo Ruaha Millers 	WORLD BANK				
Banks	Guarantors/Financiers	Aggregation Providers	Insurers (future)				
The bank that listens	A F S P The global agriculture & food security program The global agricultur	GROWAFRICA	AFRICA Imperial College London				







Week 2 - North Tanzania

2 AMCOS (FO) leaders

30/70 female/male interviewees 35 Total interviewees







Partner Group	Organization Name			
-	-			
Banks	CRDB			
	NMB			
Extension service	BRITEN Tanzania			
providers/ Aggregators	Rural Urban Development Initiatives (RUDI)			
	AGRA			
	Norwegian Church Aid (NCA)			
Guarantee providers	PASS Trust			
Buyers/Off-takers	Basic Element Limited			
	WFP			
	Kijenge Animal Products			
Input suppliers	Yara			
	Syngenta			
	Seed Co.			
	Bayer			
Other financiers /	International Finance Corporation			
financial service providers	Imperial College London (insurance provider)			
	Rabobank			







- Week 3 South Tanzania **3** APEX (FO) leaders
 - 2 buyers
- $\mathbf{3}$ extension officers 13 independent, 44 FO-based farmers 50/50 female/male interviewees 65 total interviewees







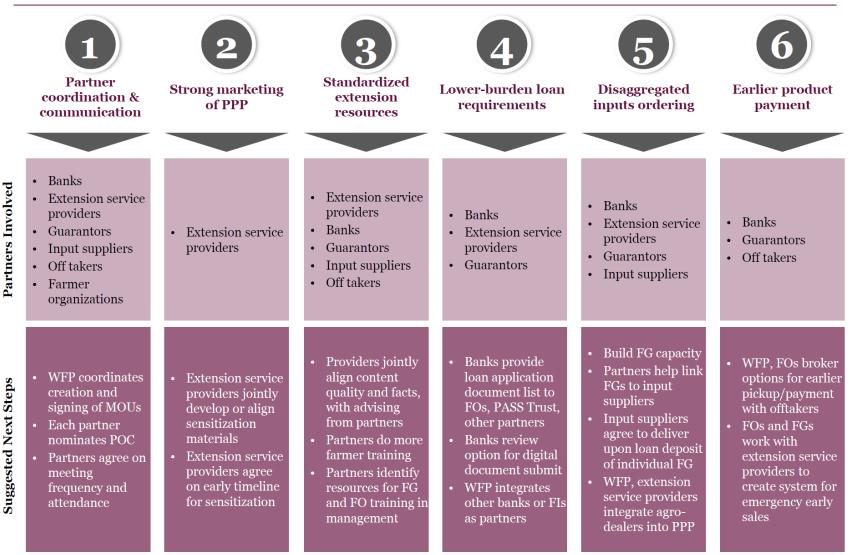


Across this ecosystem, we see 7 opportunities for the PPP

- 1. **Transparent Information Flows**
- 2. Streamlined Financial Transactions
- 3. The Empowered Farmer
- 4. Broader Financial Product Portfolio
- 5. Efficient Partner Operation
- 6. Market Extension
- 7. Logistics Improvements



Partner Engagement Recommendations | Enabling Solutions and Next Steps





TANZANIA ECOSYSTEM STUDY

INTRODUCTION

AFA Tanzania Ecosystem Survey: completed from September 2015 to January 2016 by Dalberg Development Advisors

Survey included ecosystem stakeholder interviews, value chain analysis, agricultural payment study, desk review and field farmer focus groups

AFA Tanzania Ecosystem White Paper: completed by AFA based upon the survey, CGAP 2015/2016 Farmer Diaries, InterMedia 2015 study and initial program activity.

Study Objectives:

- build a strong evidence base for AFA program activity
- share analysis with ecosystem stakeholders to inform DFS activities

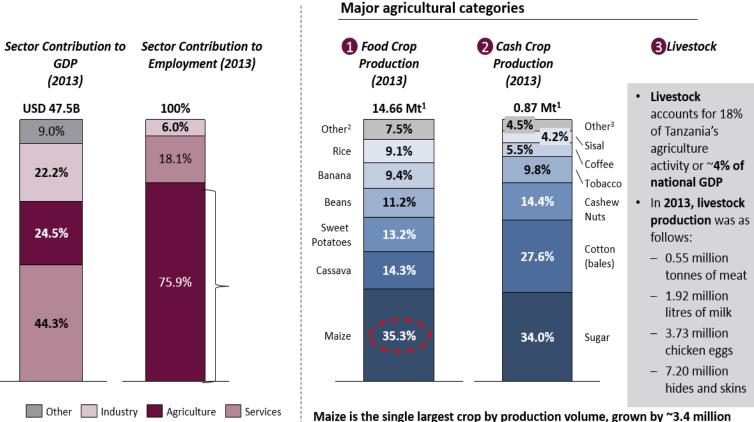


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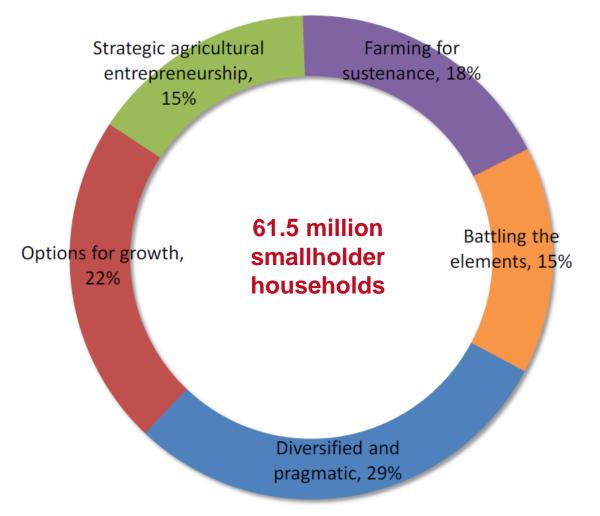
Importance of Agriculture



smallholder farmers accounting for 70% of total maize output



SHF Segmentation



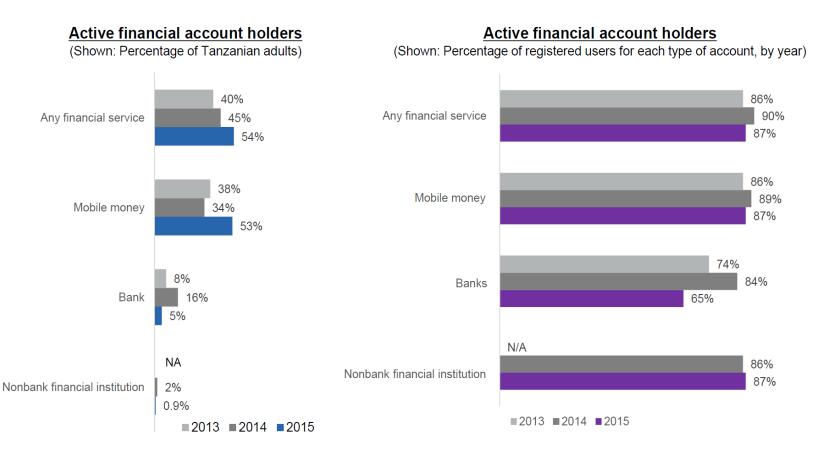


SHF Segmentation

Segment= n= 2,795 Educational attainment of house	Farming for sustenance 557 hold head	Battling the elements 393	Diversified and pragmatic 826	Options for growth 628	Strategic agricultural entrepreneurship 391	
Never attended school	41%	25%	37%	6%	2%	
Preprimary	1%	0%	1%	0%	0%	
Primary	57%	69%	54%	85%	66%	
Secondary	1%	5%	7%	8%	25%	
Higher education	0%	1%	0%	1%	7%	
Socioeconomic status						
Above the poverty line	4%	4%	13%	12%	43%	
Below the poverty line	96%	96%	87%	88%	57%	
Access to emergency funds: Can	come up with 100,0	00 shillings withir	the next month	1		
Very possible	9%	16%	17%	21%	51%	
Somewhat possible	17%	26%	31%	27%	49%	
Not possible	73%	57%	52%	52%	0%	
Don't know	0%	0%	0%	1%	0%	
Mobile phone ownership – at least one phone in the household						
No	54%	38%	2%	0%	0%	
Yes	46%	62%	98%	100%	100%	
Attitude: The future will take car	re of itself		1			
Agree	38%	41%	32%	27%	28%	
Disagree	61%	59%	67%	72%	72%	
Don't know	1%	0%	1%	1%	0%	
In the past 12 months, experience	ced any unexpected	events (including,	but not limited to	death, illness, acc	idents, etc.).	
No, I didn't	9%	5%	7%	10%	7%	
Yes, I did	91%	95%	93%	90%	93%	



Explosion of Mobile Money

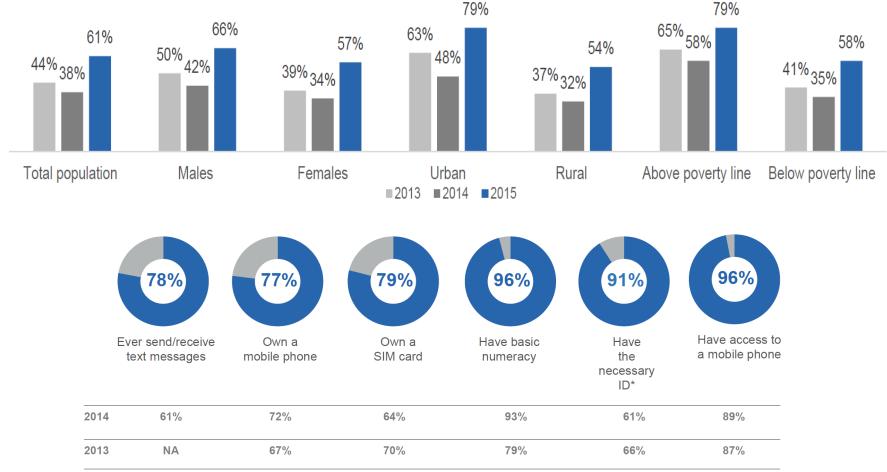


Types of accounts are not mutually exclusive.

Source: InterMedia Tanzania FII Tracker surveys Wave 1 (N=2,997, 15+), November 2013-March 2014; Wave 2 (N=3,000 15+), August-October 2014; Wave 3 (N=3,001, 15+), September-October 2015.



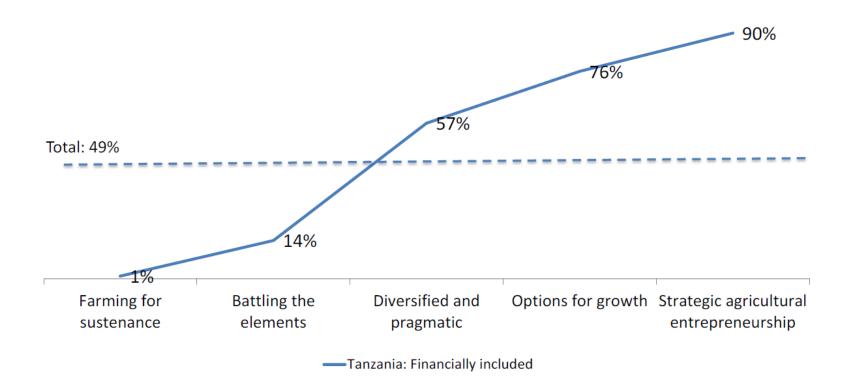
MM Reaching Rural Areas, Poor & Women



Source: Financial Inclusion Insights Tanzania, InterMedia 2015



SHF Financial Inclusion by Segment



* Financial Inclusion defined as having a full-service bank, mobile money or nonbank financial institution account with access in one's own name.

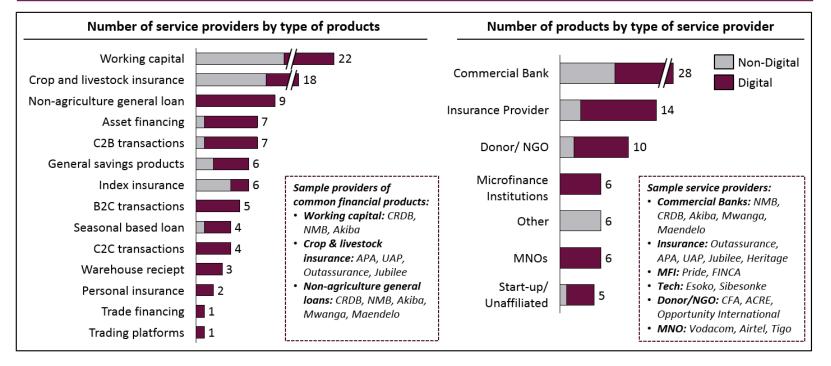
Source: National Survey and Segmentation of Smallholder Households in Tanzania. CGAP 2016.



Growth in DFS Targeting SHF

SUMMARY

- There are a significant number of digital and non-digital financial products available for smallholder farmers
- The most common financial products are working capital loans, followed by crop and livestock insurance, general nonagriculture loans, and asset financing
- **Commercial banks had the highest number of digital and non-digital products**, followed by insurance providers, and donor/NGO service providers. Banks had the highest percentage of digital products (50%).
- Commercial banks have 88 agri-specific products; these tend to be value chain specific, such as livestock, dairy, and cotton





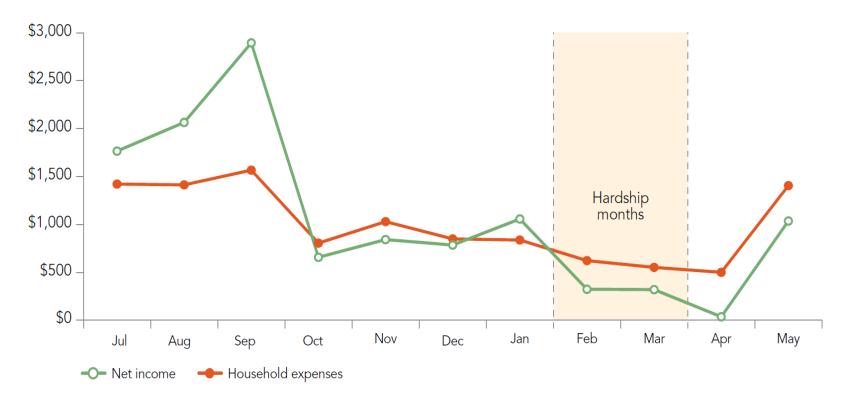
Source: AFA Ecosystem Study, Dalberg 2015.

Growth in DFS Targeting SHF

Potential partner	Number of retail customers	Size of distribution network	Geographic coverage
vodacom	 >12M subscribers >7M-Pesa users >1.8M-Pawa users 	 85,000 agents 10,000 Lipa na M-PESA merchants 	 85% of Tanzania's population covered by 2G, 3G and fiber network
🔊 airtel	 7.5M subscribers >4M Airtel Money users Timiza users unknown 	 20,000 agents No data on Airtel chap chap	 2G and 3G networks as prevalent as Vodacom
tiçô	 >8.2M subscribers >3.4M Tigo Pesa users 100,000 Tigo Kilimo users 	 ~41,000 agents 50,000 Lipa na Tigo-Pesa merchants 	 2G service nationwide 3G services only in Dar es Salaam, Morogoro, Tanga, Dodoma, Moshi, Mwanza and Arusha
NMB	 2M customers 500,000 m-banking users	 165 branches 50% of all ATMs	• Tanzania
The bank that östems	 No data on customers available 1.2M sim banking users 	 119 branches 130 ATMs 700s POS devices 2200 agents 	• Tanzania, with 400 MFIs and 225 AMCOs
ACS the bank for your development	177,00 depositors27,000 borrowers	• 17 branches	 Only has a presence in Tanzania; mostly urban with interest in rural expansion through agency banking
	 No data on customers available 10,000 businesses 	1 branch129 ATMs3 service centres	 Only has a presence in Tanzania, with one branch and three service centers in the Kilimanjaro region



Meeting Smallholder Needs

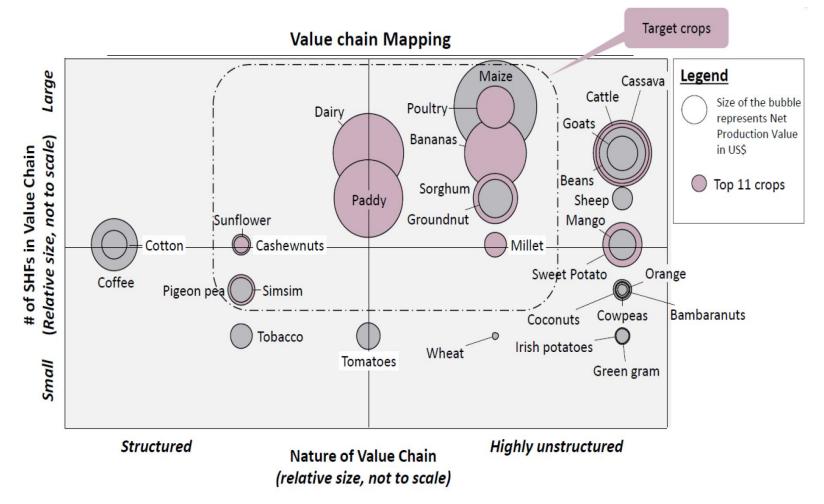


a. The green income line refers to net income. For agricultural production, and small businesses in particular, income refers to revenue less related expenditures. The red expenses line refers to operational expenses of the household separate from income or financial transactions (e.g., spending on groceries, clothes, education, transportation).



Source: Smallholder Farmer Diaries. CGAP 2016

Mapping SHF Value Chains

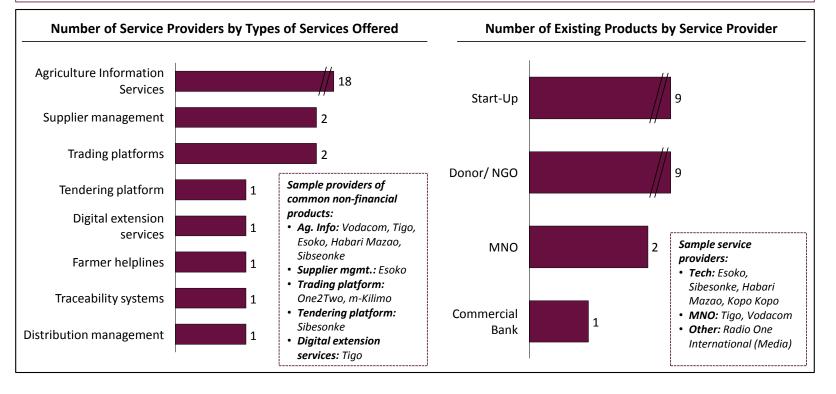




Growth in Digital VAS Targeting SHF

SUMMARY

- While the space is developing, Tanzania has few at-scale digital information service products
- The most common products are information and extension services. Over 50% of the information and extension service products are bundled with trading or tendering platforms
- Donor-NGO and start-up providers are overwhelmingly the most common non-financial service provider followed by mobile network operators who are beginning to adapt traditional non-financial services to digital platforms





Growth in Digital VAS Targeting SHF

Direct to farmer training			General training		
FARM RADIO		S SHAMB	vode	acom tiçô	Arifu≊
				MED MOBILE LTD Crans unders for averyone, wereyones, were yours	care
Aga Khan Foundation		TENGA HOLDING CENTRA HALI ONLONGY HARANGE O RADIO PRAGINE FRC 100.8 FM		ING MAENDEL Together in J	EO BANK ==
	Poultry	Bananas	5	Dairy	Sunflower
VC partners	MuvekBRAC	 RECODA Banana Investment Ltd Crop BioScience 		 EADDII ASAS Dairy Tanga Cooperative Faida Mali 	 Mt. Meru Oli Millers SNV CEZOSOPA TASUPA
Agriculture experts	 Ministry of Livestock and Fisheries ILRI 	l Fisheries		 Heifer International ILRI Tanzania Dairy Board Ministry of Livestock and Fisheries 	 Ministry of Agriculture and Food cooperatives TEOSA



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TANZANIA ECOSYSTEM STUDY

Opportunities

- Design products tailored to SHF need
 - Women & Youth
 - Specific Risks
- > Ensure great SHF user experience
- > Digitize value chain processes/payments
- > Help poorest commercialize & diversify
- > Leverage interoperability
- > Expand rural agent & merchant networks
- > SHF aggregation & direct service models
- > Bundle DFS + DIS for impact
-) Optimize markets with digital tools
-) Build farmer capability
-) Leverage data



In and Course

