

AGENDA

Time	Action
1400h	Welcome and introduction – Clara Yoon
1410h	 Present White Paper – Calvin Miller Presentation of key lessons of INNOVATE Paper "Fostering smallholder investment and innovation through inclusive financial services"
1420h	 Partner Case Innovations Bidhaa Sasa Dodore World Relief Rwanda
1500h	 Discussion groups Q/A discussion with partner innovation presenters Identification of lessons and enabling environment support and constraints
1545h	 Wrap-up and closing Summary of policy issues to address Closing





• and using the lessons to inform policymaking and programing on agricultural development.



project overview



March 2017 – March 2020



Funded by IDRC



10 projects/partners



project portfolio



MALAWI:
1. AGRONOMY
TECHNOLOGY LIMITED



NEPAL: 5. IDE



8. I-DEV INTERNATIONAL
9. GLOBAL CANOPY



KENYA:

2. BIDHAA SASA 3. COIN22



BANGLADESH:6. CARE BANGLADESH



BOLIVIA: 10. CIDRE IFD



RWANDA:

4. WORLD RELIEF



PAKISTAN:

7. PAKISTAN MICROFINANCE NETWORK

10 partners across 8 countries – <u>read more here</u>

learning agenda key themes

Customer Centricity



How does customer centricity enable firms/organizations design and offer products and services that meet smallholder customer needs and demand?

Smallholder Products & Services



What key features and terms of financial products/services smallholder require to adopt new innovations or technologies? // What are the key features of new innovations/technologies smallholders require (or prefer) to try and buy?

Smallholder Household Norms



How do smallholder households prioritize business decisions, purchases and investments for upcoming crop cycles alongside competing household needs?

Policy and Ecosystems Change



What are the policy implications to enable firms/organizations and governments to better serve and align products (extension, finance and technologies) to meet smallholders needs?

today's speakers



Calvin Miller

MEDA Consultant
Agricultural and Rural Finance Expert



Hillary Yiminyi Munialo

Bidhaa Sasa Research and Communication Officer



Vyone Mingate

Dodore Kenya Ltd

Project Manager - Agriculture



Jean de Dieu Habiyaremye

World Relief Rwanda Economic Development Coordinator





LEARNING JOURNEYS OF SMALLHOLDER FINANCE AND INNOVATION ADOPTION

AFRACA INTERNATIONAL CONFERENCE ON BEST PRACTICES IN RURAL AND AGRICULTURAL FINANCE | MEDA INNOVATE SIDE EVENT

NAIROBI, KENYA MONDAY SEPTEMBER 30, 2019

INNOVATE PROGRAMME RESEARCH AND PARTNER LESSONS

Objectives:

- Present INNOVATE White Paper on Catalytic Agricultural Finance
- Learn from partner case study innovations
- Discuss lessons and policy recommendations

Calvin Miller, MEDA Consultant

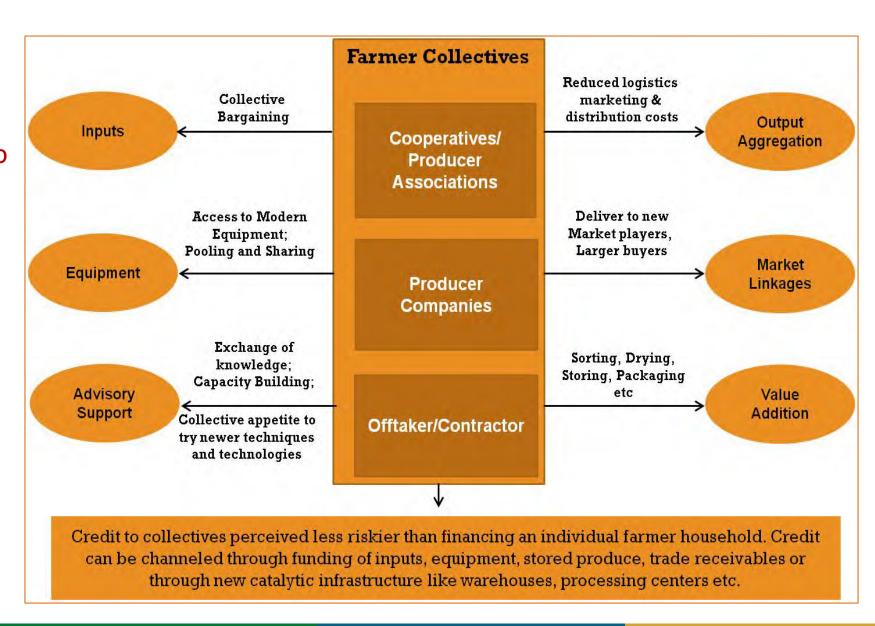
LESSONS FROM LITERATURE REVIEW

- Agricultural households are complex with diverse, multifaceted incomes and cash flows
 - Microfinance and supply driven banking services are not designed accordingly
 - Finance is a catalyst; is a part of an smallholder ecosystem of markets, services and context
 - Client centric financial and non-financial design interventions are required
- Agricultural value chain finance is an appropriate approach for some
 - The market information and linkages, identification of effective points of finance and relationships make it a strong approach
 - But a majority of smallholders are not in organized value chains
- Men and women face difference circumstances, interest and needs
 - Savings, often for family events, are particularly important for women
 - Lack of collateral is particularly limiting for women, and youth

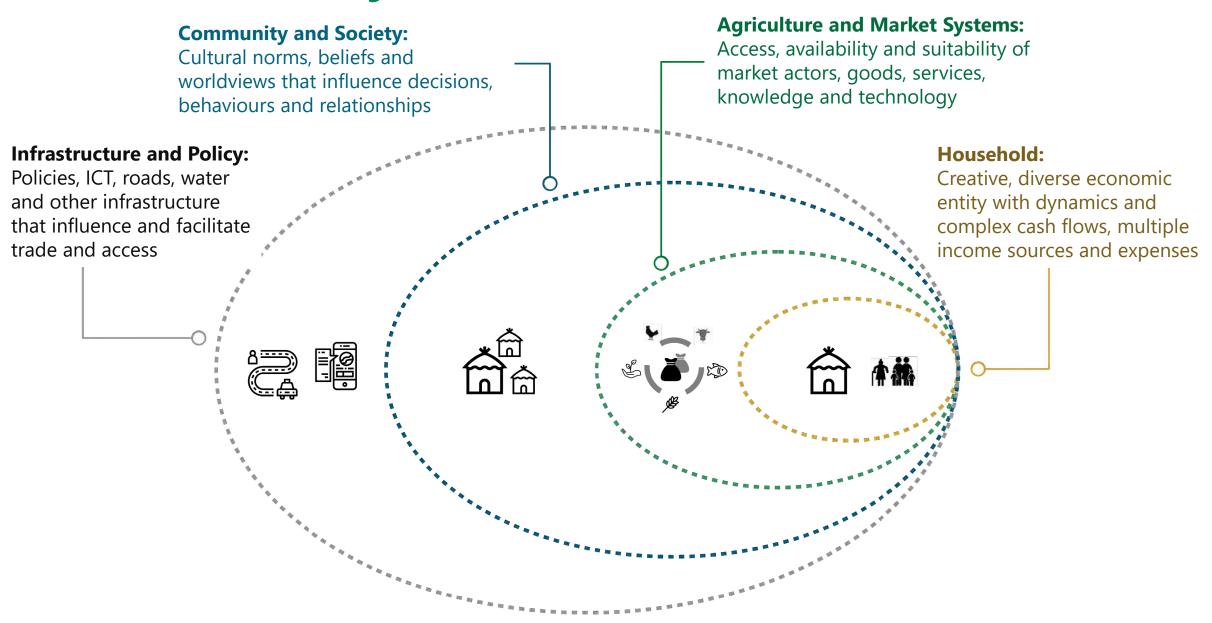
INNOVATE OVERVIEW

In India, Samunnati revised its approach from "silo" finance to a "longitudinal" participative approach. It found that for smallholder inclusion, financial intermediation needs to cut across all interventions and incorporate all stakeholders.

(Source: Samunnati)



Interconnected Systems



INCLUSIVE SOLUTIONS

Outcome: Improved livelihoods for women, men and youth smallholder farmers

Example Integrated Solution Set: New production techniques are facilita Improved market linkages and 'price d Increased income is used for househol New micro-irrigation technologies are climate adaptation and decreased workl

- New production techniques are facilitated by access to extension services, contributing to greater yields
- Improved market linkages and 'price discovery' contribute to increased incomes
- Increased income is used for household well-being and securely saved for further investment in agriculture
- New micro-irrigation technologies are acquired from local vendors through innovative finance enabling climate adaptation and decreased workloads for women

Inclusive Livelihoods Model

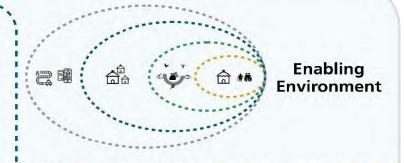
Sell produce: Market context exists to generate net revenue for male, female and youth smallholders

- Consistent market sales
- Receive and understand downstream market specifications
- Reliable value chain (path to market)
- · Reduce post-baryast / post-producion wast

Generate Produce: Ability to generate yield from production, improve efficiencies and manage losses (e.g. crop loss to weather)

Household Decisions: Propensity by men, women and youth to grow and adopt innovations

- Re-invest in the business
- Increase household savings & goods



Non-Financial Products & Services

Availability and Uptake by Women, Men and Youth:

- Input supplies
- Knowledge and skills
- Post-harvest handling
- Information
- Horizontal and vertical linkages
- Productive technology
- Assets and know-how
- Information, Communications Technology (ICT

echnology know-how

Blended Finance Guarantee System

SOCCAs/VSLAs

Insurance

Credit

• Payment Systems

Support

- Guarantee Systems
- Financial Literacy Services Etc.

Financial Services &

Availability and Uptake by

Women, Men and Youth:

Value Chain Finance

· Savings: Store of Value

Analysis: "What would need to be

MARKET SEGMENTS AND CHARACTERISTICS

Market Segment	Characteristics
Smallholder farmers – Subsistence	 Family consumption, traditional food crops and animals Little to sell; largely disconnected from inputs, markets and services
Smallholder farmers – Subsistence + diversified incomes	 Semi-commercial farming, selling surplus Storage and cash constraints and high post-harvest losses Multiple, diverse income sources
Commercial farmers – "Loose" value chains in low value markets	 Commercial, traditional markets with inconsistent and fluctuating prices Limited input suppliers, buyers and cash Low profits and use of improved inputs and technologies
Commercial farmers – "Loose" value chains in higher value markets	 Commercial local grocery, buyers or open markets with fluctuating prices Connected to input suppliers; potential to access agronomy services
Commercial farmers – "Tight" or coordinated value chains	 Reliable markets, grown to specifications, with hedging opportunities Connected to input suppliers and specialized agronomy services Value chain linkage integration

CRITICAL ACTION AREAS

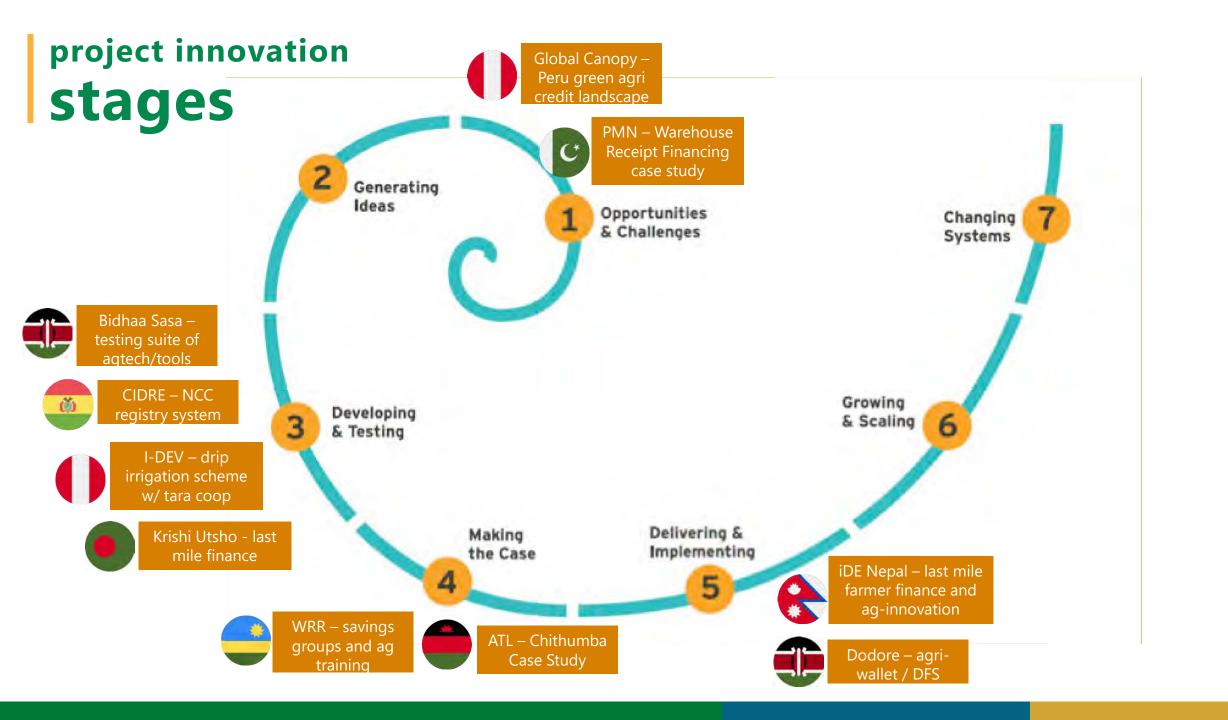
CRITICAL ACTION AREAS	EXAMPLE FINANCIAL PRODUCTS AND ACTIVITIES
Smallholder farming systems	Input financing
and resource management	 Longer-term finance and blended finance for technology upgrading
	Cash flow financing
	Asset based financing
	Leasing
Smallholder risks	Insurance
	Guarantee schemes
	 Improved cash flow-based loan assessment
	Savings
	Forward contracts and futures
	 Term investment (irrigation, water control, storage)
Profitability and cash flow	Cash flow based/flexible loan products
_	Input financing
	Warehouse receipts
	Value chain financing
	Technology upgrades
	Improved back-office MIS
Economic and social	Payment systems
inclusion of smallholder	Digital and ICT applications (mWallet, input vouchers)
households	Input vouchers and financing
	Blended finance (finance with incentives)

CRITICAL ACTION AREAS

CRITICAL ACTION AREAS	EXAMPLE FINANCIAL PRODUCTS AND ACTIVITIES
Capacity development for smallholders and service providers	 Training Youth finance and entrepreneurship training and mentoring Rural women's financial product development (flexible, non-tied loans and savings and micro-insurance) Smallholder organization
Transaction costs and financial delivery	 Agent banking (via input suppliers and buyers) Digital and ICT applications Input vouchers Remittances
Access to appropriate finance	 Flexible, custom designed financial services Impact investment funds and joint ventures Value chain finance Financial incentives (shared risk guarantees)

ROAD MAPS FOR GROWTH

- 1. Replicate and scale social lending mechanisms and investment funds
- 2. Support finance and capacity for outgrower schemes
- 3. Finance though points of aggregation organized producer organizations, buyers and suppliers or warehouse operators
- 4. Finance direct to farmers through adapted MF approaches
- 5. Innovate and develop new financial products for smallholders
- 6. Develop digital and other technology linkage models
- 7. Mitigate lending risk and cost through improved loan assessment tools and training
- 8. Mitigate or share risk of lenders and borrowers guarantees, insurance and hedging options



EXAMPLES OF FINANCING INNOVATIONS FROM CASE STUDIES AND LITERATURE

Examples of response innovations to challenges and constraints to financing

Technologies for service delivery –

- iDE Nepal Commercial Pocket Approach aggregation, last mile agro inputs VCs, private-public partnerships
- Chithumba model, Malawi input finance, WHRs, GAP training, MIS & trade facilitation
- **Dodore agri-wallet** digital and mobile applications
- **Bidaa Sasa** agri tech tools and business models
- I-Dev International mobile money and pay-as-you-go
- Collateral use of substitutes
 - CIDRE, Bolivia irrigation shares and forestry wood
 - Tamwell El Fellah, Morocco guarantee schemes
- Risk
 - Progreso, Bolivia time-proven, cash flow-based risk and loan planning
 - Colombia national guarantee system, national agricultural insurance and price hedging with commodity exchange
 - CIDRE, Bolivia secured transaction law development
 - World Relief Rwanda training and savings/credit groups





Adoption of agricultural innovation, particularly agricultural tools and goods amongst rural women

Bidhaa Sasa women-centered finance and distribution model

PROJECT OVERVIEW

Hypothesis

Non-traditional finance can kick start the adoption of agricultural technologies by rural women in western Kenya.



RESULTS TO DATE

- Five agricultural products introduced.
- 74% of the buyers are women and they pay for it.
- Most users are women.

Good repayment rates.



LEARNING JOURNEY

Product identification

- 1. Study.
- 2. Product suggestions from clients

Product testing

- Buy samples.
- Identify the hub.
- Educate test clients.
- Collect feedback.



LEARNING JOURNEY CONT'D

Surprising learnings

- Limited knowledge.
- Lack of access to finance.
- Women play an active role.
- Peer to peer learning is key.



INNOVATE LEARNING THEMES

- Customer centricity understanding needs of customers to serve them with tailormade solutions.
- Smallholder household business decisions role of women massively underestimated including decision and purchase power.
- Adoption factors products and services that are flexible and tailor-made: access
 to credit; pre- and post- sales services like delivery, warranties and repairs.
 Innovations that save time, money and make their work easier preferred.
- Policy and ecosystems change: no interactions with any government agencies

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Innovation-Wallet learning project



AGRI-WALLET

Value Chain Financing

Provides <u>earmarked</u> working capital to <u>multiple actors</u>:











Credit and savings for Farmers earmarked to pay Merchants

Credit for Merchantsearmarked
to pay Distributor

PROJECT OVERVIEW

Hypothesis:

Farmers are willing to open an Innovation-Wallet

Farmers with an Innovation-Wallet will save/borrow to buy innovation

PROJECT OVERVIEW

Methodology:

- 300 farmers introduced to Innovation-Wallet
- Opened accounts for farmers that expressed interest in saving/borrowing for a specific innovation

Anticipated results:

- 100 farmers will open an account
- Save in their wallet (60%)
- Borrow in their wallet (30%)
- Buy an innovation with their wallet savings/loan (50%)
- Use the purchased innovation

RESULTS TO DATE

Anticipated results

Outcome

• 100 farmers open an I-W account

Opened > 100%

Saved in their wallet (60%)

Saved > 100%

• Borrow in their wallet (30%)

Borrowed > 100%

• Buy an innovation with their wallet savings/loan (50%)

Bought > 100%

- Farmers are willing to save, borrow, purchase and use innovations if they believe that their production will increase
- Innovations will mostly likely give returns outside the project period. Cost of certified seed might be recouped in subsequent crop calendars as farmers recycle seed
- Improved seed varieties present the quickest/immediate way of improving yields and production compared to capital investments

LEARNING JOURNEY

 Financial requirements are different depending on value chain hence need for tailored approach

 The target customer/segment needs CAPEX. How can Innovation-Wallet provide this whilst de-risking the farmer?

• Farmers highly impacted by weather – Insurance included in all products since Jan

INNOVATE LEARNING THEMES

- Customer centricity: This is done by understanding the segment then packaging products appropriately. A smallholder farmers needs are different from any other borrower
- **Smallholder household norms:** A farmer is bombarded by competing needs. Fungibility of money means high possibility of diversion. AW supports farmers to ensure financial discipline that is very important for project success
- Adoption factors: Simple technology, AW sms based, interactive, increased income Investment in training
- **Policy and ecosystems change:** It is important to consider holistic approach in sustainable Agri-development. Farmer support is better with multi-stakeholder approach. PPPs will more likely support the farmer better than fragmented efforts

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https://dodore.co.ke/agri-wallet/





Understanding the impact of savings towards innovative agricultural practices and investment

Jean de Dieu Habiyaremye

WORLD RELIEF RWANDA

- WR's mission is to empower the local church to serve the most vulnerable
- Core Programs
 - General Church mobilization (Unity of churches)
 - Water Project (providing water filters, rain harvesting systems, and education)
 - Child and Family Strengthening
 - Health and Nutrition
 - Savings for Life (VSLA based savings groups)
 - Agriculture for Life (farmer field schools based model)

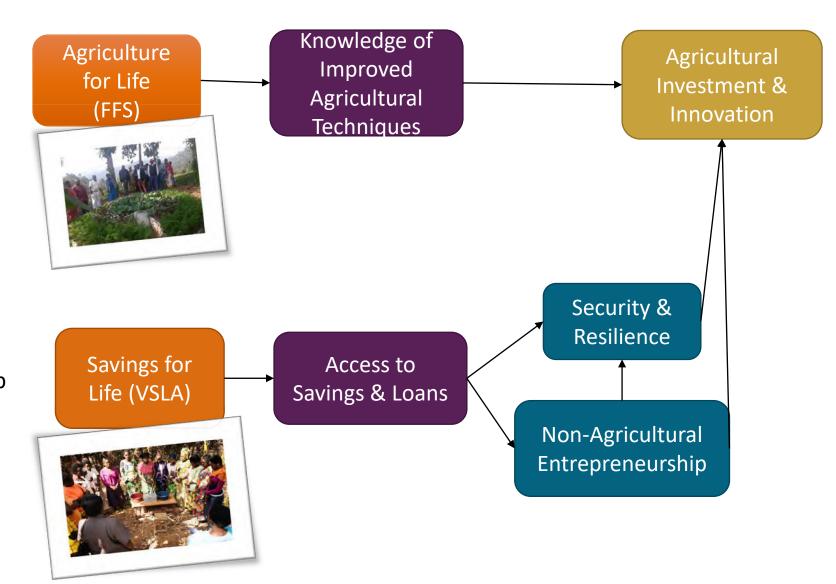
PROJECT OVERVIEW

AGRICULTURE FOR LIFE:

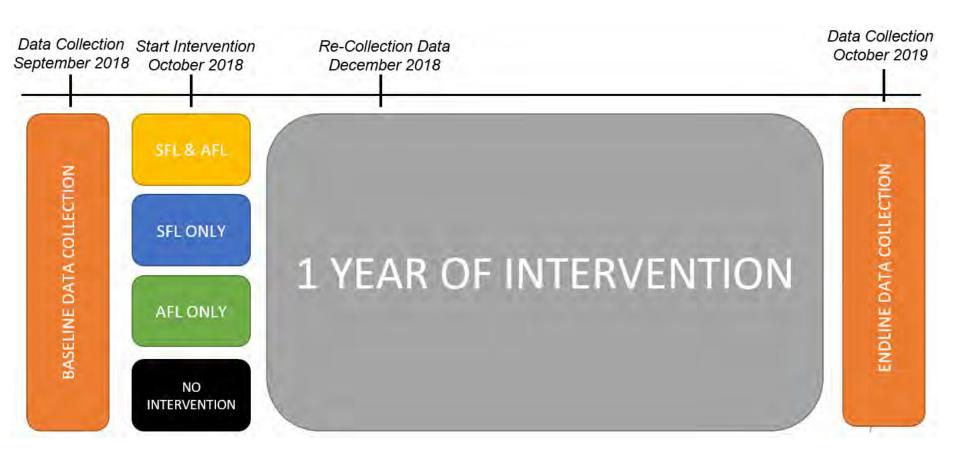
- 20-25 farmers per group
- Meet weekly to learn agricultural techniques
- Learn and practices activities on demonstration plots
- Promotes social cohesion and knowledge sharing
- Increases access to markets
- Nutrition and WASH education

SAVINGS FOR LIFE:

- 15-25 low income individuals per group
- Meet weekly to save
- Loans all for entrepreneurship & investment
- Loans are repaid with interest
- A social fund for emergencies
- Share-out of individual savings after 9 months



PROJECT OVERVIEW



RESEARCH QUESTIONS:

- Do Savings Program have a positive effect on the adoption of innovative agricultural investment and practices?
- When SFL and AFL implemented together, do these programs have an enhanced effect on adoption of innovative agricultural investment and practices?

RESULTS TO DATE

BASELINE DATA:

23.7% 16.0%

5.0% \$67.57

337.15 kg

36.5%

64.8%

Saved in the Took out a loan in last Month the last Month

Average Agricultural Investment (USD) in the previous 12

months

Crop Yield in the previous growing season

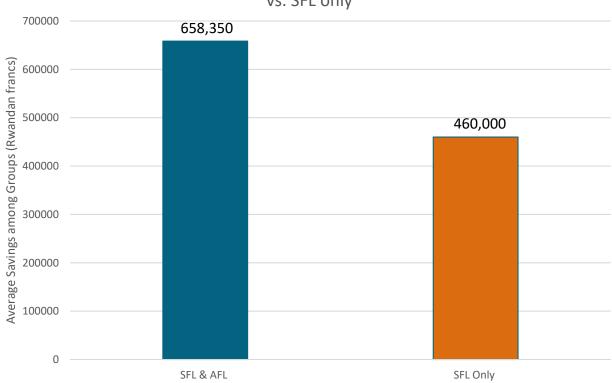
Women's Minimum Women's Joint Diet Diversity decision Making

REPORTS FROM THE FIELD:

- Farmers participating in both Savings for Life and Agriculture for Life used their savings on the following agricultural purchases:
 - Larger plots of land
 - Fertilizer
 - Seeds for crops such as Maize and Irish Potatoes
- 4 out of 10 groups engaged in SFL and AFL used their savings to hire big land and make agricultural purchases (Ex. One group took 173 US dollars of savings to invest in agriculture –hiring a plot, purchasing seeds, fertilizer and pesticides)
- AFL only groups want to also participate in SFL. They see the benefits of saving. All 4 AFL groups started their own informal savings group where they pool money together to invest in the expansion of their agriculture activities.

GRAPH COMPARING SAVINGS IN AFL & SFL GROUPS VS SFL ONLY GROUPS





On average, groups participating in Savings for Life and Agriculture for Life save **198,350 Rwandan francs** more than those only in Savings for Life, however this difference is not statistically significant (p-value = 0.075)

LEARNING JOURNEY

- Ongoing analysis for continuous learning
 - Upon final evaluation completion, we will better understand **how** our programs are interacting to improve agriculture investment and innovation
 - And as a secondary effect, how they impacting dietary outcomes

Challenges

- Farmers in only the Agriculture for Life want to learn more about savings and participate in Savings for Life
- Climate change Farmers engaged in Agriculture for Life were given additional mitigation strategies, such as anti-erosion techniques and pesticide use

INNOVATE LEARNING THEME: POLICY CHANGE

- Current feedback from the field suggest savings programs promote security, resiliency, and encourage agriculture investment and innovation.
- Farmers desire to learn more about savings to improve their ability to invest in agricultural innovation.
- Savings and agricultural programs should continue to encourage agricultural investment as a method to improve crop yield & diversity and also household food security and dietary outcomes.
- While farmers appreciate lessons promoting HH Joint decision making, more innovation is needed to address low male attendance.
- The endline data collection will further enable to us to assess the interaction of SFL and AFL and the impact on innovative agricultural practices and investment.

Contact



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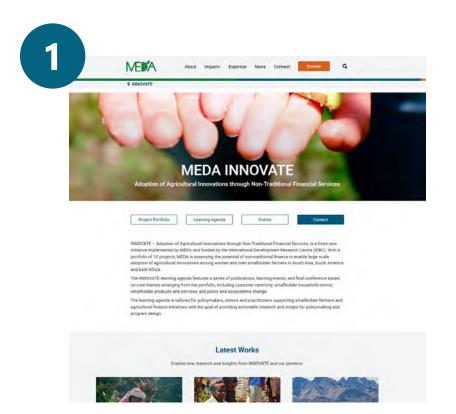
https://worldrelief.org/rwanda

DISCUSSION

Open discussion regarding observations on replicability and on policy issues related to the INNOVATE examples and presentations

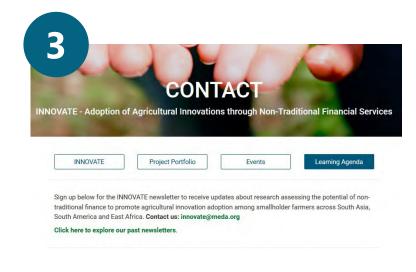
- What insights come to your mind as you consider how the companies responded to their customers' financing needs? How have they altered their business models to account for customers' cashflows?
- How might non-traditional finance offerings influence social norms around household decision-making on agricultural innovations?
- What policy recommendations could improve the enabling environment and support the non-traditional finance experiences and innovation(s)?
- What policy initiatives or changes could improve the enabling environment and support the innovations needed for systemic change?

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