

# MPEP SEMINAR SERIES

Exploring Frontiers in Inclusive Market Development

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John Magnay
Opportunity International

Latest Impact Findings on Financing
Africa's Smallholder Farms



Simona Haiduc
Opportunity International







# John Magnay Opportunity International

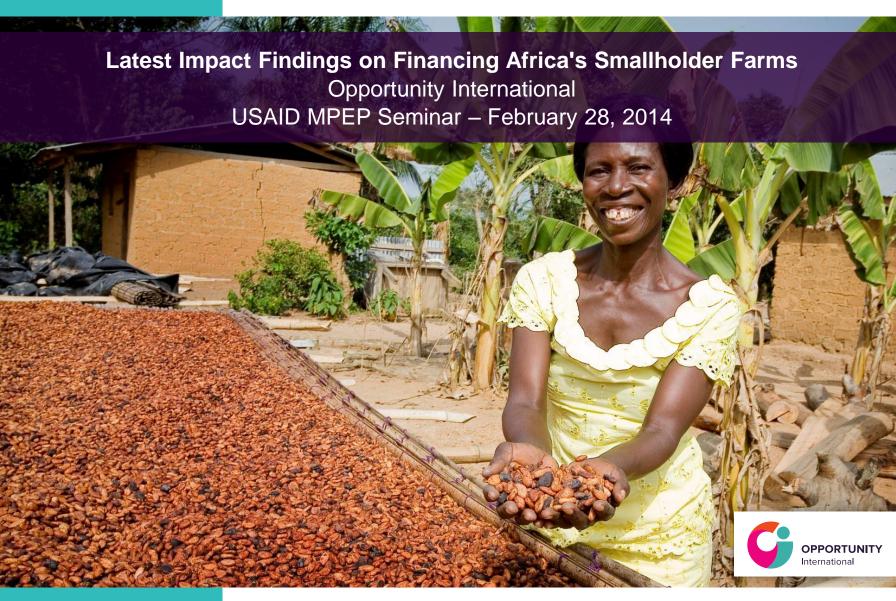
John Magnay is a Senior Agriculture Advisor at Opportunity International. He has lived and worked in Uganda for the last 31 years. In private business, Magnay has been involved in both the agricultural input and output markets. In 2001 he founded and chaired Uganda Grain Traders Ltd., a consortium of 16 companies formed to alleviate the Uganda maize market crash of 2001-2002. In recent years Magnay has been lobbying locally and internationally on the issues related to strengthening the output markets in Africa. As a private consultant for WFP, FAO, and The World Bank, he has advised on agribusiness and output market development in Madagascar (rice), Malawi (tobacco), Rwanda (agribusiness), and Ethiopia (grain). This involves understanding the interaction between governments, donors, and the private sector.





# Simona Haiduc Opportunity International

Simona Haiduc is the Vice President of International Business Development at Opportunity International. In her current role, Haiduc is actively engaged in managing Opportunity International's relationships and building business development strategies with government agencies, multilateral donor institutions, and large foundations. Haiduc also manages the program management team—supervising the planning, fund allocation and management, and the monitoring and evaluation processes of major grants from private and technical donors. Prior to joining Opportunity International in 2003, Haiduc managed the microcredit program for the Open Society/Soros Foundation, Cluj Branch, in Romania. She holds a Master's of Science in management of international organizations from New York University.



# Opportunity International

Global Financial Services Institution

#### Opportunity International:

- Community economic development through access to financial services
- Full-range of financial services: savings, loans, insurance and financial training
- 5 million clients globally at the base of the pyramid
- 44 financial institutions across 22 countries (32 MFIs,
   12 regulated deposit-taking)
- Strategic focus on key value chains: agriculture and education



# **Latest Impact Findings on Financing Africa's Smallholder Farms Opportunity International**

- 1. Shape and Scope of Program
- 2. Research Design
- 3. Primary (Agricultural) Impact Findings
- 4. Secondary (Quality of Life) Impact Findings
- 5. Lessons Learned
- 6. Looking Forward





# 1. Serving Smallholder Farmers Sustainably and at Scale: Shape & Scope of Program

### **Opportunity International: Agricultural finance**

- Started in 2009
- Key premise: focusing financial services on key values chains in sub-Saharan Africa provides the most potent short and long-term approach to lasting economic growth

#### The Challenges in Agriculture

- Large number of smallholder farms holdings in Africa
- Smallholder farmers lack access to finance to purchase inputs and hire labor
- Lack of organized farmer groups receiving technical support
- Project-based support services disappear when funding ends
- Lack of good data on clients' households and farms
- High cost of financial services delivery
- Difficult to monitor clients and staff

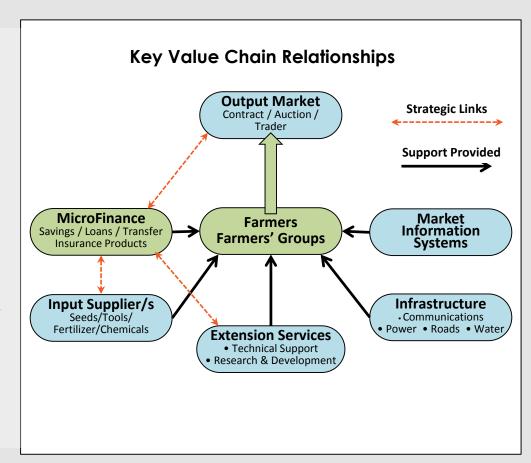
#### **GOAL: Achieve Gains in PRODUCTIVITY**



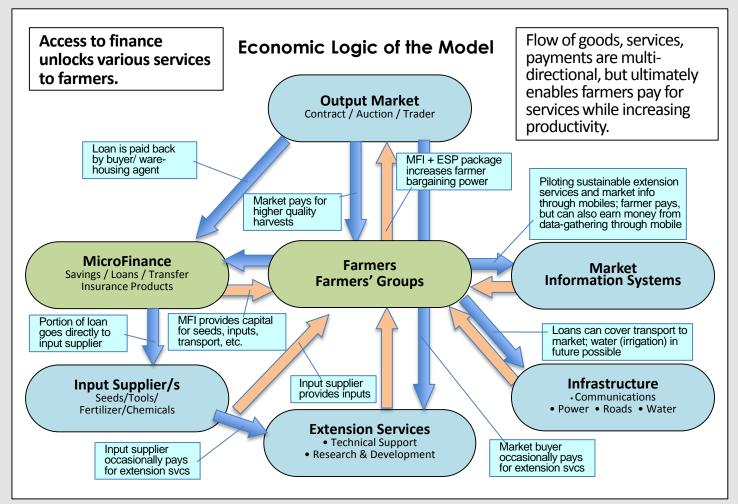


## **Opportunity: Market Facilitation** in Agriculture

- Collaborates with key stakeholders across the value chain
- Provides farmers with a range of financial services. This, in turn...
- Increases access to agricultural training and to better markets
- Equips client farmers to move from subsistence to economically and commercially active farming
- Helps to reduce risk for financial institutions



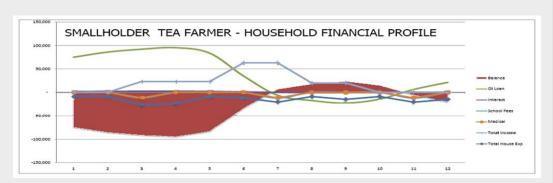




# Loans that match crop cycles

#### The Agricultural Loan -

The loans are shaped to the unique income-smoothing needs of smallholder farmers given their specific crop cycles.



#### Basic outline of an agricultural loan

- 1. Loan begins at the time of land preparation
- **2. Loan provides for crop maintenance** equipment (sprayers, mist blowers, etc.)
- 3. Loan provides for harvesting and marketing
- 4. Top-up capability
- **5. Repayments to begin at harvest season** offtaker
- 6. Nurturing savings during harvest season

For seeds, inputs

For insecticide, pre-/post-emergent herbicides,

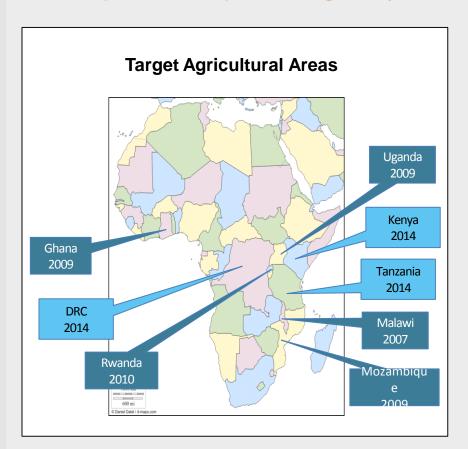
For needed labor, transportation

For urgent needs leading up to harvest

During repayment window; possibly thru

Deposits during harvest window, disbursed in farmer-chosen disbursements but with an extra disbursements that are totally savings

# The Shape and Scope of Program (since 2009)



**Serving** farmers in five countries across Sub-Saharan Africa

Loans disbursed: 165,000

Total loan value: \$38 million

Number of crops financed: 20+

**Savings accounts**: Over 1.4M savings accts including 580,000 in rural areas

**Reached** more than 216,000 active clients w/loans for small businesses

**Replicating** the initiative in Tanzania, Kenya and DR Congo starting in 2014

**SAGCOT Pilot**: branchless banking

# 2. The Need for Evidence-Based Program Review: Research Design

- **Assessment Objectives:** Assess the impact of our program on farmers' lives.
- **Key Questions:** 
  - 1. What was the impact of the program on the agricultural outputs of smallholder farmers?
  - 2. In what ways did this program change farmers' everyday lives more broadly?

### **Categories Covered**

# **Standard Descriptives Primary agricultural impacts**

- Socioeconomic demographics
- Land ownership and use
- Production of selected enterprise

#### Financial activity

- Use of financial services
- Use of loan
- Household income

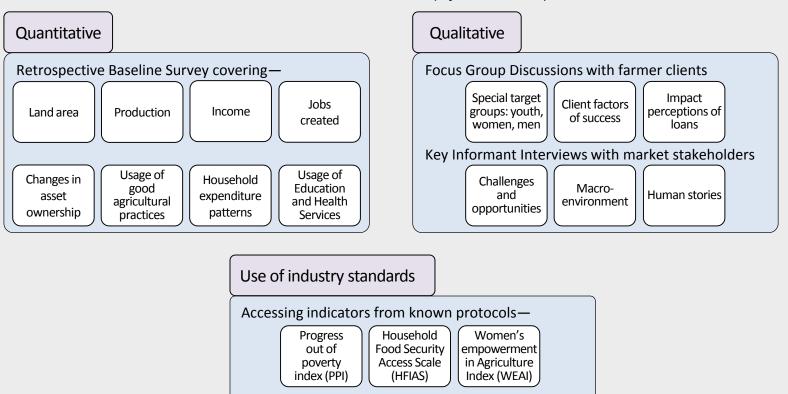
- Household expenditures
- Household assets

#### **Secondary impacts**

- Women's empowerment
- Children's education
- Health
- Food security
- Business and employment generation
- Self-assessment

# Research Methodologies/Approaches

This research used a "mixed method" research design (qualitative + quantitative) using a combinations of internal and external researchers (hybrid team).



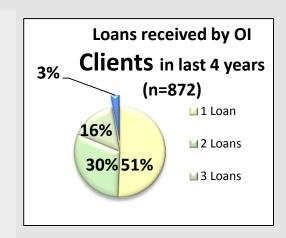
# The Survey Instrument

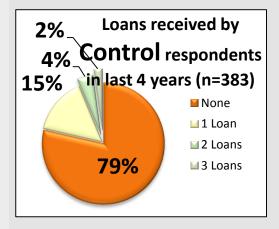
- Used a ~225 question survey
- Covered over 1200 farmers across 3 countries (Uganda, Malawi, Ghana).
- In general achieved 95% confidence level, 10 point interval

|  |  |  |                     |  |                   |                                |  |                |  |                                    | HH ID Number<br>ank /MasterCare | d Found      | ation          |   |
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|  |  |  |                     |  |                   | Rural H                        | ousehold III                           | P              | terms of seriousness. Use cards<br>mportant with 1 as most importa<br>on yields and income from crops  | labeled 1 to 3 and                 | ortant.                         | n 3 =   Ra   | anking         |   |
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|  | [14m]  | - Aural Housel   | old Im-             |  | E.3               | rel Then ran                   | the three which                        | n are most i   | mportant with 1 as most imported<br>on yields and income from crops  | 1=Not a problem<br>Very serious pr | oblem                           | =            |                |   |
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|  | 141100   | or fertilizers  f disease and pest conterbicides (Total Value)                 |                     | Quantity units                             | Hood              | 3.2 Diseases<br>3.3 Pests (spe | cify)                                  | land           |  |                                    |                                 |              | -              | ٠ |
|  | Value)   | f disease and poor   | _                   | units                                      | used !            | 3.4 Lack of la                 | city)<br>oour for opening              | Idilu          | thou are needed  |                                    |                                 |              |                |   |
|  | 1.5 Use of F   | Perhit CO  | ntrol chemicals (T. | Kg   |                   | 25 Labour K                    | Wedamig                                | ou to huy if   | nputs when they are needed<br>to buy them<br>evality of inputs on the market)  | -                                  |                                 |              |                |   |
|  | 1.6 Hiring of  | herbicides (Total Value)   | (II)                | ital   Value                               | _                 | 3.6 1 do not                   | ave enough more<br>ability of inputs w | when I want t  | quality of inputs on the market)   |                                    |                                 | _            | +              |   |
|  | lahour c   | Rent tractor s   | Plough              | Value                                      |                   |                                |  |                |  |                                    |                                 |              | +              |   |
| 4  | land opening   | Rent tractor s Hired labour  | ervices             | Acres                                      |                   | 1 4 4 1 apour                  | 101 111                                | rom treid to s | SIUICO   |                                    |                                 |              |                | - |
| L  | 12   |  | -                   | Acree                                      | _                 | 3.10 Irans                     | ort of produce frourable weather       | (prolonged     | dry spells)<br>rain in short time, fields flood  |                                    |                                 |              | -              | - |
|  | 1.7 Hiring labour  | Dia  |                     | No of pple   M                             |                   | 1 3.12 Unta                    | OUTABLE Woodup                         | 0              | (UIII)   |                                    |                                 |              |                | • |
|  | for timely field operations  | Fertilia   |                     |  | o of days<br>rked | 3.13 Low                       | prices for produc<br>uyers/market for  | produce        |  |                                    |                                 |              |                |   |
|  | Judions  | Fertilizer applicati   | on                  | $\overline{}$                              | +                 | A 3.14 No t                    | age problems                           |                | -201   |                                    | Use                             | odes belov   | W              |   |
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|  |  |  | $\rightarrow$       |  |                   | E.4 CE                         | ANGES IN D                             | s the decision | ons with regards to production,  | ds                                 | 2012                            | $\perp$      |                |   |
|  | 1.8 Marketing of   | pruning/thinning  // darvesting  | nt —                |  | -                 |                                |  |                |  |                                    |                                 |              |                |   |
|  | produce   Di   | Inilata  |                     |  | +                 | utilizati                      | a controlled th                        | ne field whe   | ere the crop was planted<br>as about how much to invest in   | the production of                  |                                 | +            |                |   |
| ners   | (Quantity) Th  | Initaterally to any buye<br>frough group to agree<br>agreed to buyer spec<br>k | er                  | -  |                   | 4.1 1                          | ho controlled the                      | he decision    | ere the crop was planted<br>as about how much to invest in<br>ar)  | - marketed                         |                                 | -            |                |   |
|  | As   | agreed to huma   | d buyer Kg          |  | <u> </u>          | 1 4.2                          | his crop (inputs                       | s and labou    | n about how the crop should b  | uld be spent                       | wife alone: 4= Wife             | ultimately   | y decides afte | J |
| L  | 1 9 an   | agreed to buyer spec<br>k  | ified by Kg         |  | Kg                | 4.31                           | Vho controlled                         | the decision   | in about how the crop should b<br>ons about how the revenue sho<br>out ultimately decides after consu  | tation with wife; 3=               | Wile alone,                     |              |                |   |
| ~\ "E  | numerator prot   | Other specify  |                     |  | Kg                | 4.4                            | MNO condone                            | 2=Husband      | ultimately decides are   |                                    |                                 |              |                |   |
| a).  | Probe for number   | er of times  | Kg                  | /  | ng                | 1=t                            | h husband;5= J                         | ointly         |  |                                    |                                 |              |                |   |
| 3E   | numerator probe for number CTION E: PRODUCT We need some inform co, soya bean or maize etc. The form of the problem of the pro | weeding wa   | as done act to      | . 77                                       | (g                |                                | - 01                                   | MEDAL I        | MPACT OF THE LOAN  |                                    |                                 |              |                |   |
| / _tobac   | We need some inform  | TON OF SELECT  | establish t         | he no. of people                           | _                 | S                              | CTION F: G                             | ENLINE         | F HOUSEHOLD MEMBER<br>d have the respondent point to   | S d lovel                          |                                 | 2012         |                | 1 |
| O Season   | n soya bean or maize etc   | nation about your  | ED ENTEDON          | o-   | nd the day.       | S Worked *                     | , EDUC.                                | ATION O        | F HOUSEHOLD MEMBER d have the respondent point to ch to the following issues affect you  | the selected level                 | roviding for                    | 2012         |                |   |
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| nt 1.1 ONE   |  |  |                     | in 20                                      | 12 11             | t appropriati                  | lease indicate e                       | r household    | F HOUSEHOLD MEMBER d have the respondent point to ch to the following issues affect you members miss classes due to failure to par iousness of the following po- iousness of the following po- | school dues on time                | =Not a                          | 2012 Sc      | ore            |   |
| 1.2 TWO  | 1  | Unit in Kg Oty used at   | Produce harveste    | ed 2012                                    | · L · (INSer      | 1 200                          | education of j                         | children       | miss classes due to  | ssible problems.                   |                                 |              |                |   |
| Enumerate  | 7  | Sine   | bartor-             | Total                                      |                   |                                | Please muico                           | -roh           | Iom 3 = Very Scribary  | m on time                          |                                 |              |                |   |
| Fan  | quantity of produce used   | 1  | Sieu                | production                                 | Unit in           | - nn                           | nroblem,2-                             | yes a prob     | uired scholastic materials/unito   | school                             | - Ho echnol dues                |              |                |   |
| reasons s  | ns for the observe   | for seed, paying for   | 1                   |  | Kg                | home di                        | 2.2 Cash for t                         |                |  |                                    | ) Settle Sorres                 |              |                |   |
| the answer   | r decrease depend:   | Se or decree   | abour, and gifts to | triend                                     |                   | -                              | 2.3 Ability to                         | sell animals   | uired scholastic materials/unito<br>e for lunch for children while at<br>s/produce at the expense of food in<br>n neighbors/relatives/friends to   | settle school dues                 |                                 |              |                |   |
| Reasons for I  | or Quantity of produce used increase in decrease depending on to that reason is yes. Us the observed increase in decrease increase in the observed increase in use of improved/Better varing.  | answer to provi  | al production, r    | mus/relatives m                            | ust be inc        |                                | 2.5 Incurred                           | debts from     | e for lunch tot<br>wiproduce at the expense of food in<br>n neighbors/relatives/friends to<br>MEDICAL CARE SERVI<br>des to answer the questions but<br>ther Use cards and have the re-         | CES                                | outhat W                        | orse 3=a     | bout the san   | ì |
| production 2.1.2 in  | use of improved/Better va  | se cards labeled 1   | question, Tick      | merator only and                           | - 4761            | uded in quan                   | ii .                                   | TATTH          |  |                                    | st 2=somewhat                   |              |                |   |
|  |  | Yes Yes  | , we the            | one distrib                                | 26                | Sel - pitha-                   | Alan fr                                | ollowing co    | MEDICAL CARE SERVING<br>des to answer the questions be<br>tter Use cards and have the re<br>What is the general direction  | spondent point to the              | le answer.                      | care ser     | rvices in you  | d |
| 2.1.2 Timely plan 2.1.3 Planting in E                                  | ting.  | riety (tick)   | Imports             | Reason Point                               | to the -          | Establish les                  | hetter 5=                              | much bet       | tter Use cards and not direction   | n of change for a                  | railability of ficun            |              |                |   |
|  |  | <b>*</b>   | to                  | ital no lor the o                          | bserved           | lected level.                  | r2 1                                   | _              | What is the general direction 2009?  How has your own family   |                                    | - hanged in (                   | jeneral si   | ince 2009?     |   |
| man Princy Petilie   | P Planted of   | $\rightarrow$  | 2.2                 | 2.1 Poor variety,                          | _                 | Decrease in                    | F3.1                                   |                | 2009?  | s access to health                 | care changed in                 | ,            |                |   |
| management 2.1.6 Cultivated large                                      | er, Detter soil fertility  | low/   |                     |  |                   |                                | 1 F3.2                                 |                | How has your own rammy   |                                    |                                 |              |                |   |
| 2177   | T Oardon   |  | 122.                |  | _                 |                                | 13.6                                   |                |  |                                    |                                 |              |                |   |
|  |  | +  | 2.2.5               | Declining soil fert                        | Spacing           | -                              | _                                      |                |  |                                    |                                 |              |                |   |
| 2.1.8 Improved post has<br>2.1.9 Better pest/disease                   | r garden,<br>better weed management<br>rvest handling  | + T  | ton-                | IN THUL USE fortie                         | חן ווטביקבי       | ot fertile,                    | _                                      |                |  |                                    |                                 |              |                |   |
| 2.1.9 Better pest/disease<br>2.1.10 Better weather<br>2.1.11 Variety T | e control  | +  | / 4.2.60            | ele:                                       | arc.              | illable,                       | _                                      |                |  |                                    |                                 |              |                |   |
| 2.1.11 Variety Tolerant to   | 4  |  | 120                 | Sinallor -                                 |                   | - /                            |  |                |  |                                    |                                 |              |                |   |
|  | arought  | _  | 2.2.8 Han           | ested late                                 | late              |                                | 7                                      |                |  |                                    |                                 |              |                |   |
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| 1= not important, 2= some  | Pwhat important  | -  | 2.2.12 Dama         | ight,<br>nuch rain, flooding<br>ne hy with | _                 |                                | $\perp$                                | $\dashv$       |  |                                    |                                 |              |                |   |
|  |  |  |                     |  |                   |                                |  |                |  |                                    |                                 |              |                |   |

# **Sampling Approach**

- **1. Crops:** We took the top 3-4 crops in the portfolios of the country Opportunity banks.
- **2. Locations:** We identified the locations with the largest number of farmers in those crops.
- 3. Client Farmers: We chose smallholder farmers who have had at least one matured (finished) Opportunity agriculture loan in the priority crop.
- **4. Randomization/Sample Size:** Client farmer lists were systematically randomized, and sufficient numbers contacted to get sample size sufficient to achieve a 95% confidence (+/-10).
- 5. Control Farmers: Smallholder farmers who did not take an Opportunity agriculture loan during the 2009-12 period that were similar to client farmers. They grew the same crops in the same locations as clients.





## **Uganda Research**

Total farmers w/matured loans: 1580

**Total Farmers Surveyed:** 

**Crops Surveyed:** Coffee, maize, cotton, sugarcane

**Survey Locations:** Iganga, Kyenjojo, Masaka

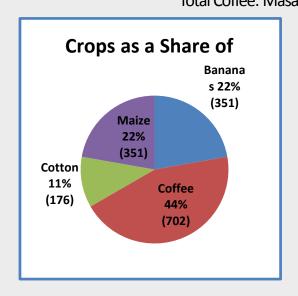
Sample sizes by crop & locations: Total Cotton/Maize: Iganga: 112 (75/37)

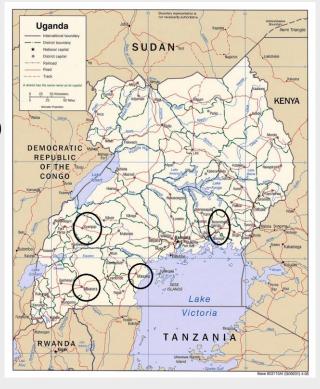
401

Total Sugarcane: Iganga: 70

(34/36)

Total Maize: Kyenjojo: 120 (83/37) Total Coffee: Masaka: 99 (69/30)





#### **AgFinance Impact – 2. Research Design**

#### Malawi Research

Total farmers w/matured loans: 9608 Total Farmers Surveyed: 416

Crops surveyed:Tobacco, soya, groudnutsSurvey Locations:Ntchisi, Kasungu, Dowa

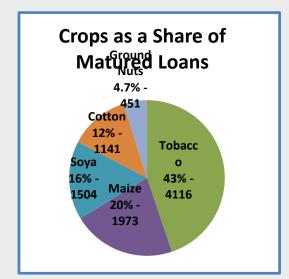
Sample Sizes by crop & locations: Total Tobacco: Dowa (30/14), Kasungu

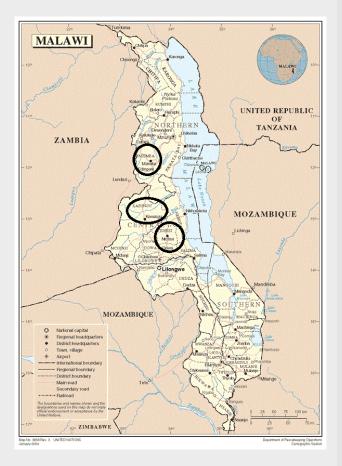
(107/41), Total: 192

(137/55)

Total Soya: Ntchisi 96 (58/38) Total Groundnuts: Dowa: 128

(85/43)





#### **Ghana Research**

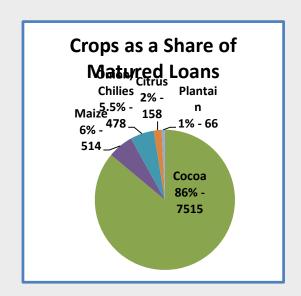
Total farmers w/matured loans: 8758 427 **Farmers Surveyed:** 

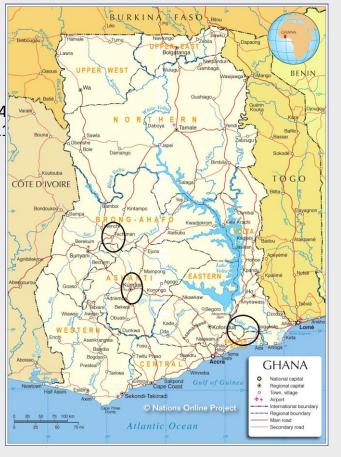
**Crops Surveyed:** Cocoa, maize, onion/chili Kejetia, Techiman, Ashaiman **Survey Locations:** 

Sample Sizes by crop & locations: Total Maize: Techiman 109 (84/25)

Total Cocoa: Kejetia 204 (157/4

Total Onion/Chili: Ashaiman: 11





#### 3. PRIMARY AGRICULTURAL IMPACT FINDINGS

#### Our client farmers surveyed experienced:

- Average number of loans: 1.7 loans/client
- Average amount loaned: \$505/client
- Increased access to agricultural inputs: 68% used fertilizer versus 49% in control group
- Increased crop yields: up to 54% greater than the control group
- Expanded crop production
  - 42% expanded crop production by renting land
  - 14% expanded crop production by purchasing land
- Increased access to marketing channels
- Experienced greater price transparency
- Modified their approach to farming after receiving agricultural support and training (83% of client farmers trained by extension services)
- Hired additional labor for their farms during peak seasons

# **Changes in Agricultural Production**

- Most client farmers increased
  - access to inputs, agricultural extension advice, links to markets,
  - production, quantity marketed, and yield.

#### The situation differs crop by crop

| Malawi | Tobacco<br>Soybean<br>Groundnuts   | <ul> <li>A success story</li> <li>A story of failure* (weak ESP partner, late seed/planting, water stress)</li> <li>A modest success</li> </ul>  |
|--------|------------------------------------|--|
| Uganda | Coffee<br>Sugar<br>Maize<br>Cotton | <ul> <li>A success story</li> <li>A temporary setback (processing plant opening delay, transitory issue)</li> <li>A modest success</li> <li>External constraints* (ESP partner project end, collapse of int'l market)</li> </ul> |
| Ghana  | Cocoa<br>Maize<br>Chilies          | <ul><li>Successes &amp; challenges</li><li>A success story</li><li>Farmers very happy</li></ul>  |

# **Uganda Coffee – A Success Story**

- Coffee cooperatives mobilize members for loans; market linkages to Fair Trade exporters
- Good prices & extension encouraging investment in inputs and new trees.
- 2X as many client farmers use fertilizer.
- Client production and yields 40% higher than for controls.
- More farmers selling collectively, and adding value by hulling.
- Less side-selling of unripe cherries while still on the tree.

| Table 10. Percent of Households Growing Coffee Reporting |                    |                    |                    |                    |  |  |  |
|--|--------------------|--------------------|--------------------|--------------------|--|--|--|
|  | Control            |                    | Client             |                    |  |  |  |
| Practice   | <b>2009</b> (n=28) | <b>2012</b> (n=28) | <b>2009</b> (n=67) | <b>2012</b> (n=74) |  |  |  |
| Proportion using Fertilizer                              | 25%                | 46%                | 33%                | 88%                |  |  |  |
|  | Average            |                    |                    |                    |  |  |  |
| Quantity produced (kg)                                   | 1,330              | 1,255              | 1,116              | 1,767              |  |  |  |
| Quantity marketed (kg)                                   | 1,314              | 1,240              | 1,097              | 1,725              |  |  |  |
| Yield (kg per acre)                                      | 716                | 551                | 542                | 779                |  |  |  |

# Malawi Soybeans – A Failure Story

- Partnered with a private wholesaler who organized farmers, supplied inputs, & extracted the loan payment through end of harvest repayment-in-kind
- Weak extension service provider in the area
- Late delivery of seed from input supplier which meant late planting
- Water stress on crop

| Table 9. Percent of Households growing Soybean Reporting |                    |                    |                    |                    |  |  |  |
|--|--------------------|--------------------|--------------------|--------------------|--|--|--|
|  | Con                | trol               | Client             |                    |  |  |  |
| Practice   | <b>2009</b> (n=30) | <b>2012</b> (n=40) | <b>2009</b> (n=49) | <b>2012</b> (n=57) |  |  |  |
| Improved seed  | 80%                | 90%                | 84%                | 98%                |  |  |  |
| Fertilizer   | 27%                | 35%                | 14%                | 61%                |  |  |  |
| Pesticides   | 10%                | 10%                | 6%                 | 14%                |  |  |  |
|  | Average            |                    |                    |                    |  |  |  |
| Quantity produced (kg)                                   | 377                | 450                | 662                | 520                |  |  |  |
| Quantity marketed (kg)                                   | 337                | 405                | 597                | 473                |  |  |  |
| Yield (kg per acre)                                      | 478                | 421                | 488                | 308                |  |  |  |

# 4. SECONDARY (QUALITY OF LIFE) IMPACT FINDINGS

**Our client farmers experienced:** 

- Improved cash flow as a result of increased production
  - 52% greater economic standing improvement and ability to meet basic needs than control group
- Households able to invest in assets and income generating activities
- Increased access to education and improved food security (less number of hungry days)
- Perceived greater positive changes to household compared to control

# **Challenges and Lessons Learned (for the Program)**

- Individual farmers. Must make sure that data on individual farmers within groups are being carefully tracked in-house, not just at the ESP level
- **ESPs**. Effective extension service providers are absolutely necessary. Finding them is a challenge. Given that they serve a crucial component, this area warrant further innovation.
- **Input dealers**. Timeliness of inputs is vital for optimal production. Finding responsible input dealers is therefore essential for success.
- Farmer Groups. Weak farmer groups defaulting members made other members'
  miss their opportunity to obtain a second loan, which was strongly encouraged in the
  perennial crops.
- Off-takers. Must build win/win relationships with market off-takers where marketing arrangements can be made

### **AGRICULTURAL FINANCE: Looking Forward**

- **Data-Gathering.** Account opening and loan processing in the field using digital data capturing technology on tablets (Ghana and elsewhere)
- Branchless Banking. Money in & money out using multiple Telcos with aggregated mobile money platform (SAGCOT Tanzania and elsewhere)
- Extension Services/Data-Gathering. Village-based extension services through Grameen Foundation's Community Knowledge Workers (Uganda)
  - Use of smart phones and lead farmers in groups to disperse GAP and to collect farmer-level data
  - Embeds extensions services within the community
  - Data-gathering can become a source of income for farmer
- Data-Gathering. Data exchange with key partners (greater data-level collaboration with value chain actors)
- Mobile Relationship Officers. Village-based loan officers & crop insurance



#### **Technology Enables:**

- Geo-Tagging
- Time Tagging
- Land Mapping
- Performance Measurement
- Other data gathering







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