



EUROPEAN
MICROFINANCE WEEK 2013

THE FUTURE OF MICROFINANCE:
INVESTING IN INCLUSIVE GROWTH



Agricultural finance for smallholder farmers: Rethinking traditional microfinance risk and cost management approaches

With evidence from Uganda, Kenya, Benin and Cameroon

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Luxembourg, 13 September 2013



M1 Is farming a business?



M4 Money-out/Money-in
Know whether you
do good business



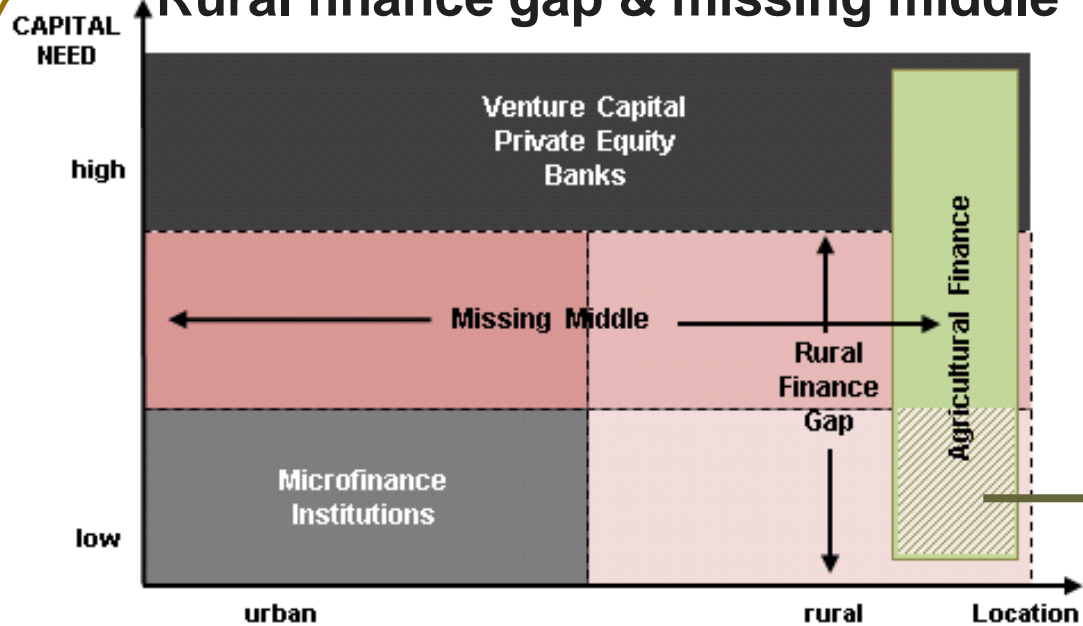
**M8 How to get good
financial services**

Background & Research Design

Findings

Lack of agricultural finance for smallholder farmers

Rural finance gap & missing middle



No finance for
smallholder farmers

Source: modified from Doran et al 2009: 9



High risk & cost perception

Risks & costs of agricultural finance

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High risk & cost perception

- **Additional risks and costs of rural areas and agriculture:**
 - ✓ ***external production and yield risks:*** natural disaster, plant/animal diseases
 - ✓ ***market and price risks:*** weak input and output markets, volatile prices
 - ✓ ***constraints in rural areas:*** high incidences of poverty, low productivity, low (financial) literacy
 - ✓ ***high costs*** due to dispersed clients and poor infrastructure
 - ✓
- **Incompatibility of some traditional microfinance risk & cost reducing mechanisms with agricultural investments**

Traditional microfinance features increase agricultural lending risk

Typical MF features/ requierements	Requirements for borrowers/ investments		Petty trade	Milking cow	Crop loan	Agric. equipment
Small loan amount	Investment amount	Small	Small	Medium	Small/ Medium	Large
Quick repayments	Delay between investment & return	Short	Short	Medium to Short	Long	Very Long
Cost covering interest rates	% Return on investment	High	High	Medium	Medium to Low	Low
Frequent repayments	Lump size of return	Low	Low	Low	High	High
Diversified hh income	Centrality of investment to hh income	Low	Low	Medium	Medium to High	Medium to High
Staggered loan dis- bursement within group	Time sensitivity of investment	Low	Low	Low	High	High
High volumes per loan officers	Distance between clients	Short	Short	depends	Long (mostly)	Long (mostly)
	Infrastructure	Good	Good	depends	Bad (mostly)	Bad (mostly)

How can MFIs adapt their traditional **loan features** and **lending procedures** to mitigate **credit risk** and manage **transaction costs** when providing agricultural finance for smallholder farmers?

- How to adapt traditional microfinance features and mechanism without increasing risks?
- How to manage additional risks and costs of agricultural lending?

Interviewed MFIs

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4 countries: Kenya,
Uganda, Benin,

	MFI/ country		Age (years)	GLP (MM USD)	Deposit (MM USD)	Clients (thousands)	Bran-ches	Agric. loan portfolio (MM USD)	As % of GLP
CB	Equity Bank	KE	20 - 29	1,301	1,501	7,151	186	39.5	3%
	CRDB	UG	20 - 30	215	284	1,134	39	26.5	12%
MFC	Faulu	KE	22	40	7	226	96	0.6	2%
	RUCREF	UG	13 - 20	1	0	6	7	n/a	n/a
	Juhudi Kilimo	KE	4 - 9	2	0	7	8	2.1	100%
MBFI	Agaru SACCO	UG	11	1	1	9	4	0.4	42%
	FECECAM	BJ	37	56	85	641	108	n/a	24%
	MC ² s	CM	21	28	62	132	90	4.5	16%

+ several experts and consultants in the field of agricultural finance

Outline

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**M1 Is farming a
business?**



**M4 Money-out/Money-in
Know whether you
do good business**



**M8 How to get good
financial services**

Background & Research Design

Findings

“Know your client *and*
know your crop”

- ✓ **Loan features that fit smallholder farmers and agricultural product**
 - Repayment schedules fitting the seasonal cashflow of smallholder household (hh); grace periods
 - No staggered disbursements within joint liability groups
 - Frequent interest repayments
 - Partial disbursements
 - Linkage of loan with insurance product (life/ animal/ weather)
 - Cooperation with value chain actors (e.g. vouchers instead of cash)
 - Warehouse receipt system to reduce market price risk

- Different strategies: 3 MFIs lower, 3 higher than commercial interest rates
- Quoted interest rates: 10 - 46 % p.a.
- Effective interest rates: 18 - 68 % p.a.; PTI between 50 - 80%

Effect of interest rates on income:

Example of a cotton smallholder farmer

- 1 percentage point **change of interest rate** → 0.79 US \$ income change
- 0.01 US \$ **farm gate price change** → 5 US \$ income change

Loan assessment

Choosing the “right” farmers is key for success

- ✓ Commercial smallholders
- ✓ Adequate agricultural experience

“Good farmers can even harvest reasonable yields in unfavorable weather conditions & have high enough yields to make some profits even in case of market price drops”

Assessment of

- ✓ 6 C's: 5 C's of traditional microfinance **plus Crop**
- ✓ Cash flow of the whole hh/ all hh activities
- Individual assessment by loan officer
- Use of joint liability groups for information gathering (internal credit committees & group discussion in absence of loan applicant)

Sound agricultural knowledge of specific crops & value chains is crucial

Loan monitoring & repayment

Loan monitoring

- ✓ Regular visits by loan officer according to crop cycle / animal lifecycle
→ partial disbursements based on successful completion of previous step
- ✓ Sometimes technical support/ agricultural advices

Loan repayment

- ✓ Group repayments
- ✓ Monthly interest payments
- ✓ Tough recovery processes in first year(s) to break distorted credit culture

Qualified staff with agricultural background

✓ Qualified staff with background in agriculture/ agricultural economics

- **at headquarter:** crucial for loan development & strategic decisions
- **as loan officer:** crucial for loan assessment and monitoring
 - able to properly analyze agricultural projects and validity of farmers' information
 - be up to date with agriculturally relevant data of specific area
 - right attitude & motivation to work in the field
 - able to technically advise smallholders

“You can't turn a banker into a farmer, but an agriculturalist into a banker”

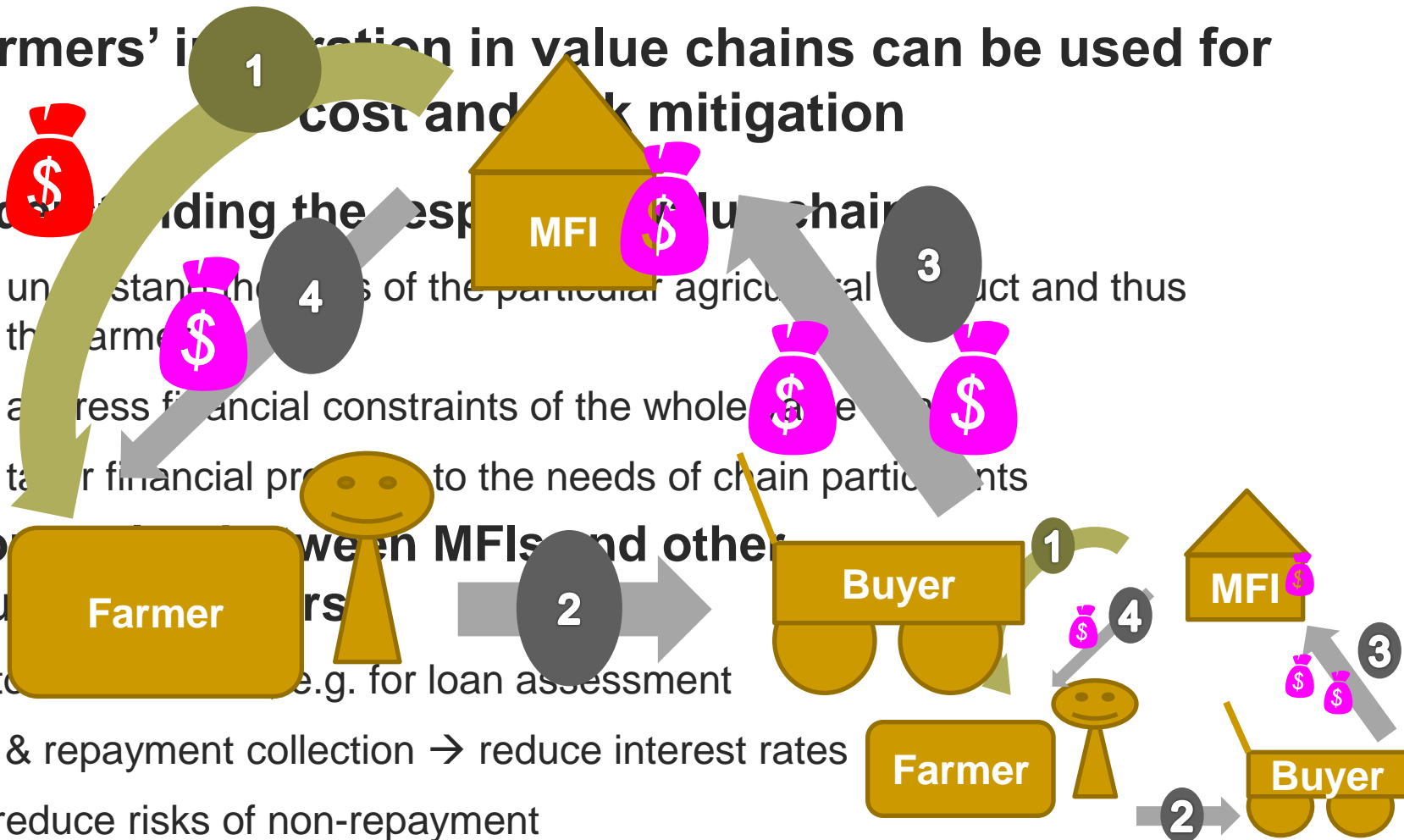
Farmers' integration in value chains can be used for cost and risk mitigation

✓ Understand the specific needs of the value chain

- understand the needs of the particular agricultural product and thus the farmer
- address financial constraints of the whole value chain
- tailor financial products to the needs of chain participants

✓ Coordinate between MFIs and other actors in the value chain

- to coordinate e.g. for loan assessment
- & repayment collection → reduce interest rates
- reduce risks of non-repayment



Cooperation with external actors

- ✓ **Comprehensive cooperation** with NGOs, development agencies, governments, extension services, insurance companies etc.
 - Technical assistance (e.g. loan product development; training)
 - Guarantee funds
 - Research & development of tools to mitigate external risks, e.g. index based weather insurance/ yield insurance
 - Make smallholder farmers “bankable”

✓ Innovative technology can reduce outreach costs

- mobile banking branches
- branch “outlets”
- agency banking
- mobile money (M-Pesa; M-kesho)



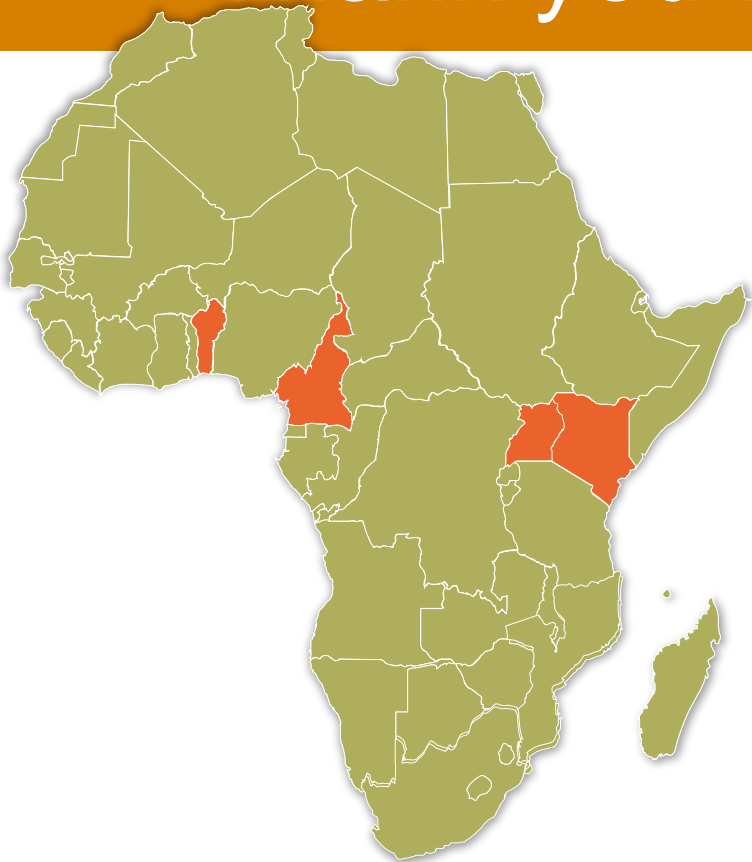
Profitability of agricultural lending

Agricultural microfinance for smallholder farmers is possible!

- ✓ adaption of loan features and lending procedures necessary
- ✓ agricultural knowledge is crucial
- ✓ value chain finance can help mitigate risks and costs

→ strong commitment and well thought out business strategy!

Thank you for your attention



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