

Integrating MSEs into Value Chains: Evidence from Guatemalan Horticulture and Handicrafts

Accelerated Microenterprise Advancement Project (AMAP)

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PRESENTATION OVERVIEW

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I. INTRODUCTION

Guatemala background

- I 2.3 million people (growing at 2.3%)
 40% indigenous population
- GDP per capita (PPP): \$4,900 (\$12,000 for Costa Rica)
- 75% below poverty line (18% for Costa Rica)



- GDP composition vs. labor force occupation by sector:
 - agriculture:
 22%
 vs.
 50%

 industry & services:
 78%
 vs.
 50%

Story of two MSEs: Guatemalan homestead #1

- Uses land primarily for grazing livestock and subsistence farming
- Small portion of land devoted to horticulture for sale in market
- Limited access to market information, without assurance of a buyer
- Sells crops directly to local consumers or to truckers supplying wet markets in local cities

Low risk, low return strategy

Story of two MSEs: Guatemalan homestead #2

- Allocates a significant portion of land to high-value laborintensive horticulture
- Assured of buyer for crops with agreed upon quantities and prices
- Sells a portion of crops in higher value-added markets such as supermarkets or exporters
- Buyer provides assistance in the form of inputs, technical advice, and business development services

High risk (with risk offsetting), high return strategy

Study overview

- Study assesses the nature, determinants and consequences of MSE participation in value chains
- Methodology: in-depth interviews and surveys of buyers and producers in handicrafts and horticulture value chains in Guatemala
- Major contribution: primarily uses a "bottom up" (producer) perspective that utilizes empirical testing

Study approach – mixed methods

Qualitative field study (n=70)

 Individual and focus group interviews with firm owners, government officials, and NGO representatives

Quantitative buyer survey (n=132)

- Sample frame includes all firms on an export association list (AGEXPRONT), referrals, and a random walk strategy

Quantitative producer survey (n=785)

 Sample frame uses Respondent Driven Sampling (RDS), an innovative sampling method for hard-to-reach populations

Producer survey sample frame

 Respondent Driven Sampling (RDS) employs a modified chain-referral methodology



Wave	Total Respondents in		Cumulative Number of	
Number	Wave		Respondents	
	Handicrafts	Horticulture	Handicrafts	Horticulture
1 (Seeds)	10	15	10	15
2 (Referrals)	20	20	30	35
3 (Referrals)	40	40	70	75
4 (Referrals)	80	80	150	155
5 (Referrals)	80	80	230	235
6 (Referrals)	80	80	310	315
7 (Referrals)	80	80	390	395

Handicrafts and horticulture VCs in Guatemala

- Urgent need for development
- Significance to the Guatemalan economy
- High MSE participation, both within Guatemala and worldwide
- Value chains are labor intensive, providing a potential edge to MSEs
- Value chains are inter-connected





Key research questions of study

- What is the nature of **MSE participation** in VCs?
- How can we best enhance inter-firm coordination and cooperation?
- How can we best encourage MSE owners to upgrade?







MSE participation in value chains

Most firms in both samples are micro and small enterprises

Number of Employees by Firm Type and Sector.			
	Handicrafts Producer	Horticulture Producer	
Total Employees During Busy Season	(n=381)	(n=383)	
Mean	5	6	
Range	l to 2l	l to 33	
50th Percentile	4	5	

- MSEs have limited knowledge of market conditions
- MSEs have restricted access to international markets despite expressing a preference for these channels

Guatemala horticulture value chain



Guatemala handicrafts value chain



Horizontal relationship characteristics

- MSEs report low levels of producer group membership:
 - Handicrafts 12%
 - Horticulture 20%
- Fraudulent, opportunistic, and rent-seeking behavior among producer group members has limited group participation



Determinants of horizontal relationships

- Organizational innovations can mitigate group problems, including:
 - Improved group governance (e.g., directly electing group leaders)
 - Increased market knowledge among producers

- Measures can also be used to facilitate group participation:
 - Cost-effective information and communication technology (ICT)
 - Increased in-born social capital

Vertical relationship characteristics

- MSE relationships are concentrated
- Personal communication is the predominant form of interaction
- Trust of buyers is high among producers
- Business relationships are long-lasting (avg. 6 years)



Determinants of vertical relationships

- Vertical relationships depend on trust, which is promoted by:
 - Greater **personal communication**
 - Increased producer knowledge in the form of transparency about the distributions of rents

 Vertical relationships can be facilitated by lowering transaction costs

Upgrading practices

Horticultural Sector

Type of upgrading practice	Classification	Yes	
Knowledge of approved agrochemicals	Product	96%	379
Using practices that signal future upgrading	Product	54%	203
Being certified in good agriculture practices	Product	11%	40
Selling other producers' products	Functional	6%	24

Handicrafts Sector

Type of upgrading practice	Classification	Yes	
Using the foot loom	Process	31%	120
Using new designs from buyer in past 12 months	Product	33%	130
Selling other producers' products	Functional	9%	35

Determinants of upgrading

- Vertical linkages with buyers in higher value-added markets
- Horizontal linkages with producer groups

- Risk offsetting opportunities
- Information on costs and benefits



4. IMPLICATIONS

- Horizontal and vertical relationships impact upgrading and we should be promoting their formation
- Based on this study, there are numerous action steps we should consider. We should:
 - Facilitate information based services
 - Leverage information and communication technology (ICT)
 - Foster transparency
 - Encourage personal communication
 - Offer risk-offsetting incentives
 - Promote awareness



THANK YOU!

What do YOU think about the implications?

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PHOTO CREDITS

Slide	Image	Source
3	Map of Guatemala	CIA Factbook
8	RDS training	AMAP Guatemala team
9	Female with loom	AMAP Guatemala team
9	Farmers in field	Care International
10	Male / Female at market	AMAP Guatemala team
10	Farmer	The New Farm
10	Female artisan vendor	AMAP Guatemala team
14	Farmers gathered in group	Env'l News Service / IADB
16	Processing vegetables	AGEXPRONT
19	Back strap loom	AMAP Guatemala team