

Cacao Value Chain Analysis in Toledo District, Belize





Gentry Mander gmander@ufl.edu







Introduction

- 79% of Toledo is impoverished, mostly farmers
- deforestation in Belize is on the rise, mostly due to slash-and-burn agriculture

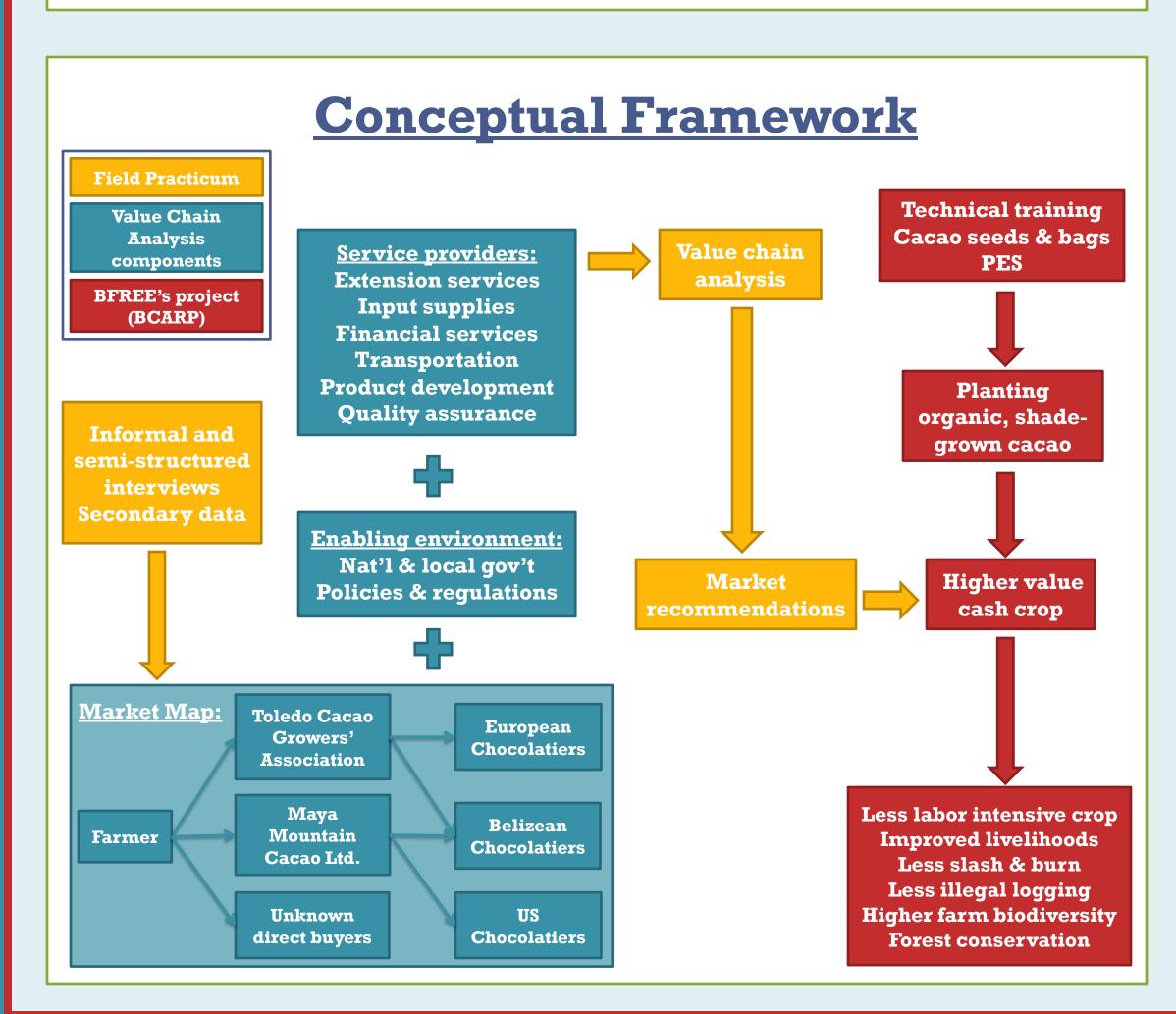
Organic, shade-grown cacao can be a lucrative cash crop. Cacao-based agroforestry can be favorable for creation of buffer zones to protected areas and for maintaining biological corridors, by retaining some forest integrity.

Objective

Examine the economic viability of organic, shadegrown cacao as a method for improving livelihoods and forest conservation, by identifying economic opportunities and barriers for smallholder farmers within the context of Belize.

Methods

- value chain analysis employing:
 - informal, semi-structured interview with cacao farmers and key informants
 - secondary data



Results & Analysis

Toledo Cacao **Growers' Association** orld market price June 2013 Prices are in USD **Market Map** \$1.04/lb. dry beans and may be vorld market price Oct 2013: \$1.24/lb. dry beans **Chocolatier Prices Seed Prices Exporter Prices Farmer Prices** 1 lb. Dry 1 lb. Dry 1 lb. Wet Bean 1 lb. Chocolate Beans **Beans Abro** \$2.04 \$0.40-\$0.50 \$1.25 \$1.98 ? from Moho to Taza, to MMC to MCC to Moho \$35 from Taza Roni Sue, \$64 from Tejas Dick Taylor \$0.05 (seed \$60 from Dick Taylor & Mast from YCT \$54 from Mast \$1.10 - \$1.25 \$1.60 free \$1.73 to TCGA to Ixcacao, \$20 from Ixcacao from TCGA to Green & \$55 from Kakaw Kakaw, Blacks \$18 from Cotton Tree Cotton Tree & ? from Goss Goss \$0.25-\$0.50 \$14 from G & B (pod) from **\$1.00 - \$1.5** o neighboi ? from unknown chocolate maker

Enabling **Environment**

Structures (national/local gov't and research agencies)

o direct buy

- little interest from the government prior to June 2013
- a National Cacao Platform was created in June 2013
- Ministry of Agriculture does not often service small farmers
- no research agencies dedicated to
- poor transportation infrastructure
- undifferentiated world market disfavors organic, shade-grown cacao

Institutions (policies and regulations)

- some over-story trees (mahogany and cedar) protected by law
- high US import duty on chocolate, but 0% on beans
- high BZ import duty on packaging materials (burlap, plastic bags)
- unclear land registry or communal land tenure issues
- no national organic standards
- no fire prevention policies

Pro: consistent buyer, higher prices, funding for training, expansion or facilities improvement

Con: difficult to establish trusting relationship, disrupt local market "balance"

Pro: fetch higher prices

Con: costly to maintain, bureaucratic

Service Providers

	MMC	TCGA	Local NGOs	Other Providers
Extension Services	X	X	YCT, SHI & BFREE (if part of project)	Ministry of Natural Resources and Agriculture
Input Supplies		X	YCT, SHI & BFREE (if part of project)	
Market Information	X	X		
Financial Services	X (via KIVA)	X (via funders)	BFREE	Toledo Teachers Credit Union (not currently used)
Transport Services	X (weekly pick up)		YCT & BFREE (if part of project)	Private bus companies
Quality Assurance	X (to USDA standards)	X (Fair Trade, organic)		Belize Agricultural Health Authority (phytosanitary for export)
Crop Development		X (via funders)	YCT & SHI (if part of project)	

Conclusions

- strong international market for fine flavored cacao
- mechanisms for accessing this market are uncertain
- enabling environment is limited
- service providers are insufficient
- farmers need a better outlet if they will continue growing cacao after payments end
- price for dark chocolate is significantly higher than price for cacao beans





Recommendations for Trio

Trio Agro-processing Cooperative

Pro: higher quality beans, less functions performed by farmer, decreased operating and transportation costs

Con: costs and leadership required for establishing and managing

Contract Directly with Chocolatier

• Eco-Labeling (organic, bird-friendly, fair trade, etc.)

Recommendations for Cacao Sector

- Establish Geographic Indication for Cacao
- Upgrade Enabling Environment

protect cacao trees from negligent or malicious fire casualty develop research agency

educate consumers

establish domestic certification schemes

Upgrade Services Provided

farm roads

transportation

technical training

business skills and time management training







