







Agricultural Investment Opportunities in Malawi

Sugarcane Business Case

December 2012



Abbreviations and Acronyms

Abbreviations and acronyms used in this Business Case are defined below

ASWAp	Agricultural Sector Wide Approach		
bn	Billion		
CAGR	Compound Annual Growth Rate		
CEO	Chief Executive Officer		
EU	European Union		
GBI	Green Belt Initiative		
GDP	Gross Domestic Product		
GoM	Government of Malawi		
ha	Hectare		
MCC	The Millennium Challenge Corporation		
MITC	Malawi Investment and Trade Center		
mn	Million		
MT	Metric Tons		
NES	National Export Strategy		
PPP	Public-Private Partnership		
SHF	Smallholder Farmer		
USD	US Dollar		



Objectives of This Document

- Provide an introduction to Malawi and highlight the potential that exists in Malawi's agriculture sector
- Showcase a high-level investment opportunity in sugarcane production and processing for local, regional, and international investors that are interested in strategic investments in the agriculture sector
 - Outline the relevant market opportunity, investment overview, and enabling environment, for the investment
- Provide contact information for prospective investors interested in this or other opportunities in Malawi's agribusiness sector



Content

- Why Invest in Malawi
- Sugarcane Investment Opportunity
- Contact Information



Why Invest in Malawi Overview of Malawi

Malawi is a Southern African country of 15 million people, which has a diversity of topographies and is home to the third largest lake in Africa

- Malawi, the "Warm heart of Africa", is a Southern African country with a population of 15.4 mn people
- It has a land area of 118,500 square kilometers, comparable in size to the U.S. state of Pennsylvania
- The capital city is Lilongwe, and the second largest city, Blantyre, is the center for commercial activity
- Lake Malawi, the third largest lake in Africa, and Lake Chilwa cover ~21% of Malawi's land area
- Though it is small, Malawi boasts a widely diverse topography and scenery, ranging from sweeping lake views, breathtaking woodlands and unique cityscapes
- The official language of Malawi is English, but Chichewa is also widely spoken















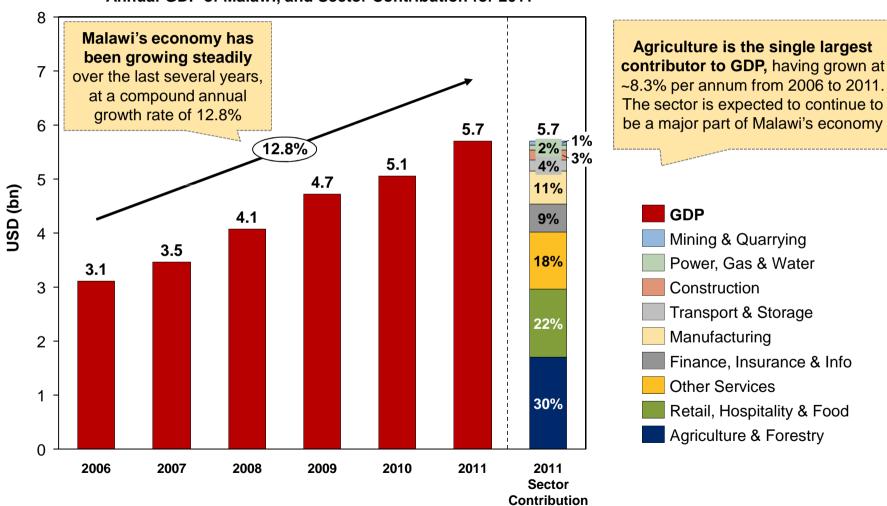


Why Invest in Malawi

Growing Economy and Agriculture Sector

Its economy has experienced consistent growth over the last several years, with agriculture being an important contributor, representing 30% of GDP in 2011

Annual GDP of Malawi, and Sector Contribution for 2011



Note: GDP is given in current prices

Source: World DataBank; World Economic Outlook



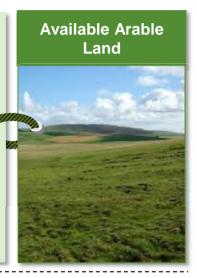
Why Invest in Malawi

Favorable Conditions for Agriculture

The country possesses significant resources that support diverse crops, such as good water supplies, vast land resources, favorable agro-ecological conditions and capable farmers

Abundant Water Supply

- Lake Malawi and lake Chilwa cover over 20% of Malawi's land area
- There is significant potential for irrigation in the Shire River
 Valley for winter cropping
- If irrigation is fully implemented, Malawi has enough water to become completely food independent
- Malawi has 3.6 million ha of arable land, of which 2.1 million is already under cultivation
- 42% of potentially productive land is yet unused, presenting vast potential to increase agricultural output



Good Agro-Ecological Conditions



- Malawi has five distinct agroclimatic zones: Highlands, Escarpment, Plateau, Upper Shire Valley, and Lower Shire Valley
 - These regions have different soil textures and rainfall patterns, and support a mix of crops including cereals, legumes and an assortment of cash crops

- 90% of Malawi's population is engaged in agriculture
- The majority of farmers possess at least basic skills in agriculture
 - Farmers require training in improved methods
- Malawi's smallholder farmers (SHFs) are commercially inclined and respond to markets, growing crops they can sell

Ingrained Agrarian Culture





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Sugarcane Investment Opportunity Introduction

Investment Overview The investment opportunity is a green field sugarcane production and processing venture. It is founded upon the Government of Malawi's Green Belt Initiative (GBI) and the development of 6,000 ha of irrigated land set aside for the production of sugarcane. In addition to developing the land for sugarcane production, a processing facility will be established. Malawi's potential to achieve high sugarcane yields of excellent quality provide the investment with strong profit generating potential. As a public-private partnership (PPP) the investor can be assured of government support in all aspects of the investment. There is high potential for social impact due to the planned engagement of smallholder farmers (SHFs) as out-growers, as well as the expected job creation from the processing plant



Sugarcane Investment Opportunity

Executive Summary



- Local demand growth is limited at ~0.2%, however, significant supply gaps exist in regional and global markets, indicated by increasing imports of 33% and 8%, respectively between 2006 and 2010
- Sugarcane producers in Malawi can take advantage of this development, given favorable agro-climatic conditions and yields 62% above the weighted regional average, resulting in significant expected increases in production over the next years
- 2 Investment Overview
- As part of the GBI, the Government of Malawi (GoM) is looking for a strategic partner to form a public-private partnership in the development of a 6,000 ha sugarcane estate with an attached processing facility
- The immediate opportunity is a ~USD 70 mn investment for the development of 4,000 ha of irrigated land, and the purchase of equipment and inputs. In the long term, the investor will operate the processing facility constructed as part of the initiative under the PPP arrangement
- 3 Enabling Environment
- Enablers provided by the GoM to support the sugarcane investment include access to a 4,000 ha tract of continuous land, sugarcane supply from out growers cultivating an additional 2,000 ha, and the construction of a processing plant to be operated by the investor under the PPP arrangement
- In addition, the GoM is encouraging private sector led growth through policy reforms, incentives to attract investment, and overarching sector wide strategies that focus government intervention



Sugarcane Investment Opportunity Market Opportunity

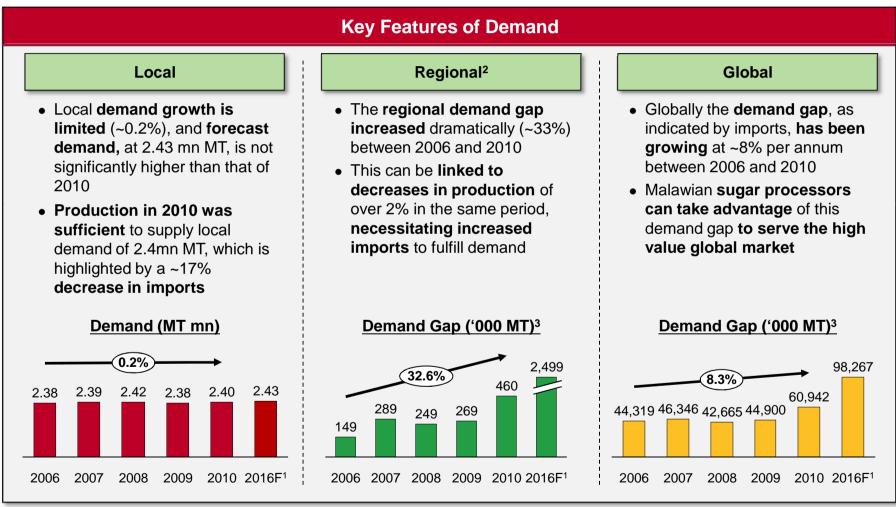


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Market Opportunity Sugarcane Demand

While local demand is high but stagnant, significant supply gaps exist in regional and global markets which are becoming increasingly dependent on imports to meet demand



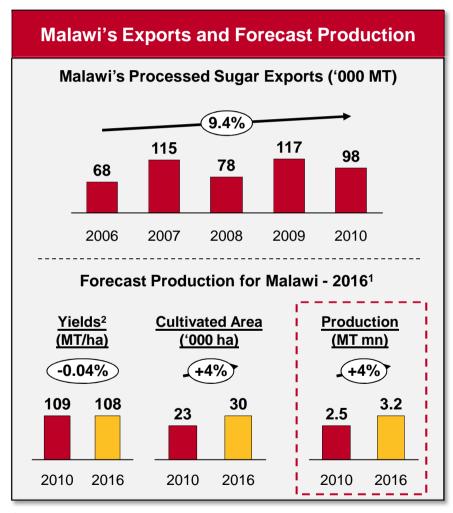
Note: ¹ Forecast values calculated using the 2006-2010 CAGR; ² Regional includes: Mozambique, South Africa, Tanzania, Zambia and Zimbabwe; ³ Regional and global demand growth is not expected to continue at the current rate and a slowdown in growth beyond 2010 is likely Source: FAOSTAT; International Trade Center; Illovo Annual Report, 2012; Monitor Analysis



Market Opportunity

Malawi's Potential to Satisfy Demand

In addition to supplying the local market, Malawi's exceptional yields and favorable agro-climatic conditions provide the basis for high production growth to serve regional and global markets



Cultivation of Sugarcane in Malawi

- Sugarcane cultivation is on a commercial scale with out grower schemes supplying ~13% of production
 - Production is expected to grow significantly between now and 2016, with conservative estimates showing a 4% CAGR
 - The GBI will lead to more land prepared for sugarcane production and higher yields due to irrigation
- Surplus production will allow for increased exports of processed sugar, regionally and abroad, to take advantage of markets experiencing supply deficits
- Malawi's agro-climatic conditions are well suited to the production of sugarcane and support yields that are
 ~62% above the weighted regional average
 - Commercial plantations achieve yields of between 104 and 114 MT/ha, whilst SHFs yield 80-90 MT/ha
- Malawian sugar is mostly sold domestically (~60%), followed by European exports (~28%), and regional exports (~12%), primarily to Zimbabwe

Note: ¹ Forecast production is based on the addition of 6,000 ha of irrigated land plus constant growth in area under cultivation, and assumes constant growth rates for yield; ² Yield growth does not account for yield improvements due to the GBI, which are likely to be highly positive Source: FAOSTAT; International Trade Center; GBI Interviews; Illovo Annual Report, 2012; Monitor Analysis



Market Opportunity Malawian Competitive Landscape

The sugarcane industry in Malawi is currently dominated by Illovo, however, the implementation of the GBI will support the development of additional producers and processors



The government of Malawi is seeking new producers and processors to secure sufficient volumes of sugarcane for the local market while also expanding the competitive landscape in the sugarcane sub-sector



Sugarcane Investment Opportunity Investment Overview



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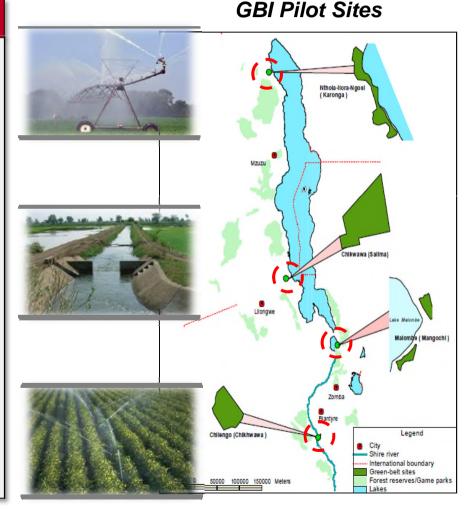


Overview of the Green Belt Initiative (GBI)

The GBI is a key government initiative with significant potential to unlock the agriculture sector, stimulate private sector development, and improve the livelihoods of Malawians

Overview of the GBI

- The GBI is a government program aimed at using the abundant water resources in Malawi to increase:
 - Agricultural production and productivity
 - Incomes
 - Food security
- The GBI is aligned to Malawi's medium term poverty reduction and economic development strategy (MGDS II¹) and it is, in effect, the implementation arm of pillar 3 of the Agricultural Sector Wide Approach (i.e., Sustainable Agricultural Land and Water Management)
- The creation of the GBI was to a large extent driven by Malawi's overdependence on rain-fed agriculture, which has left the country open to weather shocks, such as droughts and floods, which threaten food security
- The four pilot sites and the respective focus crops are:
- 1. Nthola-Illora-Ngosi (Karonga) 1000 ha focused on rice
- 2. Chikwawa (Salima) 600 ha focused on sugarcane
- 3. Malombe (Mangochi) 500 ha focused on rice
- 4. Chilengo (Chikhwawa) 500 ha focused on maize



Note: ¹ Malawi Growth and Development Strategy II Source: Interviews with the GBI Working Group; Strategic Plan for the Green Belt Initiative, 2011; Monitor Analysis



Specific Objectives of the GBI

The overarching goal is the creation of wealth through increased agricultural production, productivity, and enterprise development for domestic and export markets

Specific Objectives

- To increase area under irrigation
- To increase production and productivity of crops, livestock and fisheries technologies
- To improve market access
- To increase volumes and quality of value added products
- To improve access to other socioeconomic infrastructure within the context of the rural growth centers

Expected Outputs

- Area under sustainable irrigation farming increased from 90,000 ha to at least 200,000 ha in the first 5 years from 2011 onwards
 - The ultimate goal is to bring all potentially irrigable land (~1mn ha) under irrigation
- Increased agricultural output, exports and trade
- Improved participation of the community and private sector in the agricultural value chain

Expected Outcomes

- Increased household wealth and enterprise incomes
- Equitable access and efficient use and control of household and community resources and benefits
- Increased contribution of the agriculture sector to GDP
- Increased employment in the agriculture sector
- Increased food and nutritional security



The **GoM's willingness to engage the private sector** to support the achievement of these goals shows a drive towards **fostering an investor-friendly environment** in Malawi for the **development of the agriculture sector**



Overview of Investment Opportunity

As part of the GBI, an investment opportunity in sugarcane production and processing is being developed with the full support of the government

The Opportunity

- The first site to be developed is Chikwawa in Salima
- An irrigation scheme will be established covering 6,000 ha of land that has been prioritized for sugarcane production and processing
 - 4,000 ha of the land is to be made available to an investor to develop a sugar plantation, whilst the remaining 2,000 ha will be developed for SHFs who will operate as out growers
 - The produce from both the anchor farm and out growers will supply a processing plant to be built by the GoM within the production area
- An Indian company will be contracted to build the processing plant and to run it for the first year or two of operation, after which the investor will take over to run the plant under the public-private partnership agreement
 - The choice of contractor stems from Malawi having been granted a
 USD 40 mn line of credit by the Indian government
- Development of the first 500 ha of land for SHFs has already been initiated by the government

Current Status

The GoM has taken the lead in initiating this development and has already broken ground in the first phase of the development

"President Joyce Banda officially launched the Chikwawa Estate Green Belt Initiative (GBI) Scheme in Salima on Monday..."

> Malawi News Agency, 09 October 2012



The **GoM** is actively seeking a strategic partner, with whom to form a PPP to develop a sugar plantation and ultimately run the sugar processing plant which will be located within the scheme



Investment Overview Investment Timeline

The investment opportunity will be implemented in four phases

- Development of first 500 ha of irrigated land by GoM
- · Identification of SHFs as out growers by GoM
 - The SHFs will start off growing legumes this season (2012/2013) while development of irrigation infrastructure is still underway
- Strategic partner identified to invest through GoM's standard tendering process





- Investor takes over operation of both plants under PPP agreement
- Investor in full control of both production and processing



- Development of 4,000 ha commences with investor's capital and oversight
- Building of the processing and a power generation plant by Indian company contracted by GoM
- GoM continues development of 2,000 ha for out growers

- Production on the 4,000 ha of land commences under the investor
- Plant begins operation under management of the contracted company
- Investor and out growers supply plant with raw materials (sugarcane)







The Public-Private Partnership (PPP) Structure

As a PPP, the structure of the investment will be clearly outlined to ensure that investors are able to maximize profit generation, as well as meet the needs of the government

Roles and Responsibilities						
Government		Investor				
Land	 2,000 ha provided and developed by GoM for smallholder farmers (SHFs) 	 Provide capital for development of 4,000ha of irrigated land Various ownership structures possible including a long-term lease or government co-investment 				
Production	 Irrigation will be laid for SHFs on the 2,000 ha and the land will be prepared to the point at which production can begin 	 Investment into the required inputs, labor and materials necessary for production on 4,000 ha, including equipment and machinery 				
Processing	 Processing plant, together with a power plant, to be constructed by an Indian contractor under a build-operate-transfer agreement Still to define who will cover costs of operation and maintenance in the first 1-2 years 	 Investor run the fully functional plant with trained staff after 1-2 years under the PPP agreement 				
Power	As part of constructing the processing plant the GoM will also provide the investor with a power generation plant to ensure sufficient power supply is available for sugar processing	Use the power generated by biomass from processing waste material to supply the processing plant, irrigation water pumping, and sell extra capacity to the national power grid				
Market	 GoM is responsible for alleviating barriers to market access through its broader government initiatives 	 Market development is the primary role of the investor, as is the setting up of a reliable sales network to identified markets 				



Investment Overview Investment Required

The immediate opportunity is a USD 70 mn investment for the development of 4,000 ha of irrigated land, purchase of machinery, equipment and inputs, as well as training of the workforce

What is Required from an Investor?

Development of Irrigated Land

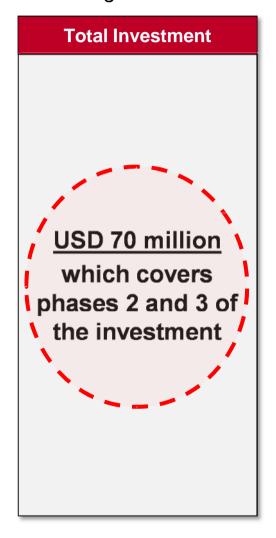
<u>USD 42 mn¹</u> is required from an investor for the development of the 4,000 ha of irrigated land that the investor will operate

Agricultural Machinery and Equipment

 <u>USD 19 mn²</u> is needed for the purchase of agricultural machinery and equipment for use in the production of sugarcane

Inputs,
Training,
Skills, and
Market
Development

 <u>USD 9 mn</u>² will be required for the purchase of planting materials and related chemicals, for the training of the workforce, as well as for market development activities



Note: ¹ Exchange rate of MWK1:USD0.00324; ² This is an estimated figure and will be revised Source: Interviews with the GBI Working Group; Strategic Plan for the Green Belt Initiative, 2011; Monitor Analysis



Business Model

The investor will be provided with a high degree of control over the business as a result of overseeing both production and processing

Key Commercial Drivers

Sourcing and Aggregation

- Sourced from the anchor farm and out growers

2 Processing

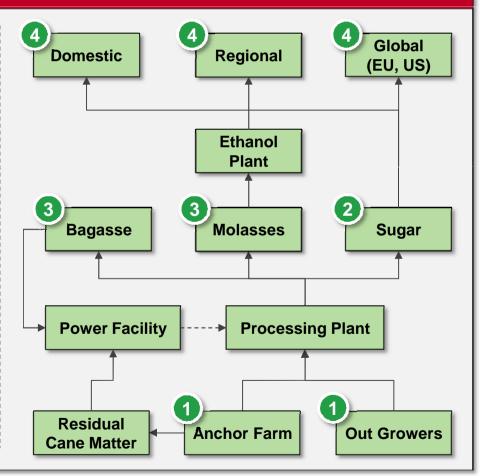
- Malawi has a good reputation for producing high quality sugarcane and refined products popular amongst regional, EU and US buyers
- Sales will primarily be of refined sugar in various forms and raw sugar can also be sold

3 By-Products

- Post-harvest and processing biomass can be used in power generation to reduce the cost of running the plant
- Molasses, a by-product of processing, can be supplied to an ethanol plant in close proximity to the processing plant

4 Access to Markets

 Supplying global demand will provide the highest returns, however, domestic and regional markets also offer good potential





Investment Highlights

The high demand for sugar and its excellent sale price make it an ideal export product, both regionally and globally, with a number of potential sales channels that can be leveraged





 The majority of raw materials will be supplied by the anchor farm, whilst the remainder will be aggregated from the out growers commissioned to produce for the plant





- Raw and refined sugar will be produced in bulk and packaged forms
- By-products, such as molasses, used in ethanol production, and bagasse, used for power generation, will also be produced

Target Markets



- Processed sugar can be targeted locally, regionally and globally, with Malawi's regional position being advantageous to serve neighboring markets and fill supply gaps
- Molasses will be supplied to local ethanol plant

Channels



- Local sales directly to stores, hotels, restaurants, and Illovo
- Regional sales to stores, hotels, restaurants, as well as to national wholesalers to distribute the product
- Global sales to large international buyers

Price



• Local sugar retail shop price of about USD 1 / kg



Investment Overview Social Benefits

Due to the scale of this investment and its combination of both production and processing, a high level of social impact is expected for the communities involved

Employment Creation and Skills Development



Employment will be created on the 4,000 ha **anchor farm**. The **processing plant** will also create jobs for people in the area, and provide **valuable skills development** for working in the processing sector

Roughly 1,000SHFs and their families will benefit by being incorporated into the out grower scheme, ~40% of whom are expected to be women. They will be provided with land and a guaranteed buyer for their produce. Training and support will be provided to improve production and thus profitability



Support to Smallholder Farmers

Provision of Infrastructure



Irrigation development for sugarcane will also provide benefits to other crops. Improved access to **electricity** will benefit the community and enable the **establishment of small enterprises**

A clinic will be established by the GoM to provide healthcare for workers involved in sugarcane production, as well as for surrounding communities. This will support improvements in the quality of life of people in the area

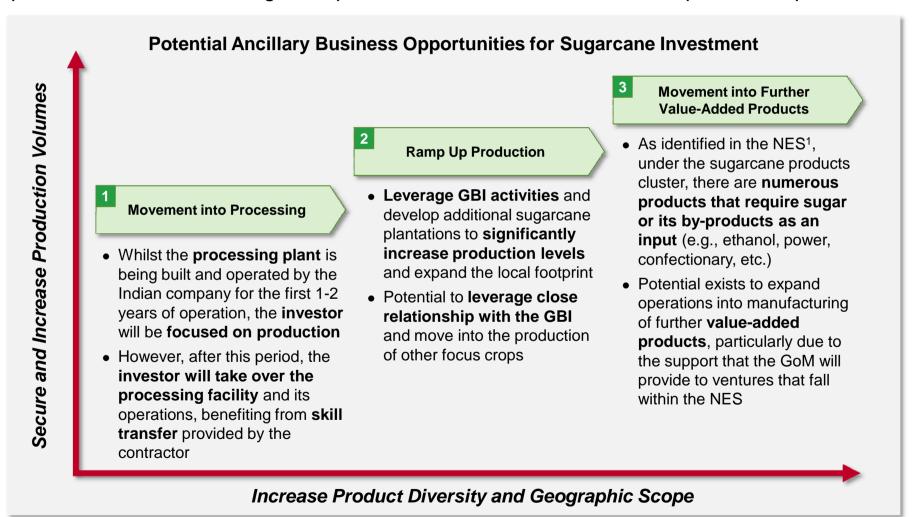


Improved Health Services



Long-Term Growth Potential

In the near term, potential exists for an investor to move into processing and expand the scale of production, while in the long term, production of additional value-added products is possible



Note: ¹ National Export Strategy

Source: Interviews with the GBI Working Group; Monitor Analysis



Key Challenges and Mitigating Strategies

Due to direct involvement of the Government of Malawi many of the typical barriers associated with production and processing are mitigated, leaving fewer challenges facing the investor

Key Challenges	Description	High	Med	Low	Mitigation Strategies (Ongoing vs. Planned)
Water Management	Risk of putting strain on the water supply used for irrigation, as well as contamination with chemicals used in the farming process		*		Leverage the Ministry of Irrigation and Water Development to support the implementation of water management strategies, including ongoing testing of water quality
Health Issues	Dealing with injuries to employees, particularly those working in the processing plant, as well as diseases that come with irrigation water			*	 Ensure a safe working environment with safety training for all employees Obtain support from the Ministry of Health for the construction of a clinic to provide basic healthcare to employees and community members
Resettlement	Resettlement of communities who reside on the land identified for development		*		✓ Government engagement with community to facilitate resettlement
Market Linkages and Marketing	Physical access to market, as well as establishing relationships with buyers		*		 ✓ Ensure government support for transport infrastructure ≈ Leverage Malawi's growing reputation for producing high quality sugar, and use increasing global supply deficit as an advantage
				<u>Legend</u> : ✓ Ongoing ≈ Planned	



Sugarcane Investment Opportunity

Enabling Environment



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Enabling Environment

Government of Malawi (GoM) Initiatives

The Government of Malawi is encouraging private sector-led growth through policy reforms, incentives to attract investment, and a number of turnkey projects that facilitate operations

Private Sector Development

- The GoM has enacted new bills targeted at supporting the development of the private sector, for example:
 - Public Private Partnership Bill: Easing of private sector action in the economy, with GoM support in removing barriers
 - Business Registration Bill: Automation of business registration and digitization of business records
- Specific incentives, such as provision of large irrigated pieces of land as part of the GBI, will support this particular investment, whilst general incentives, such as an allowance on expenditure for new machinery will benefit the investor

Sector Strategies

- The ASWAp¹ is a comprehensive agriculture sector strategy focused on agriculture-led economic growth
 - The sugarcane opportunity supports the ASWAp's goals as it falls under the GBI, a key implementing pillar
 - The investment is aligned to the focus on sustainable water management, agro-processing and increasing exports
- The NES² is a roadmap for developing a productive base for export competitiveness and economic empowerment
 - The sugarcane products
 cluster is a prioritized cluster
 - Its development aims to increase exports and to diversify sugarcane-based product development

Turnkey Projects

- The Nacala Corridor Project
 - Improved access to global markets through the development of better road and rail linkages to the Nacala port
 - This will also lower transportation costs
- The Millennium Challenge Corporation (MCC) Energy Project
 - By improving electricity efficiency and providing more reliable access to power the number of hours lost to power outages by processors will be significantly reduced
 - This will substantially improve the operating environment for processors



Enabling Environment

Government Enablers and Benefits to the Investor

The GoM is putting a number of enablers in place to facilitate this investment, thus supporting the investor in overcoming many of the hurdles typically associated with investing in Malawi

Government Enablers Benefit to the Investor Provision of large continuous Mitigates barrier of accessing land. Land tracts of land for cultivation particularly large tracts, which is a common **Provision** issue in Malawi Physical development and laying Allows investor to focus on remaining 4,000 Land of **irrigation** for 2,000 ha to provide ha and provides the investor with a ready out out growers with high quality land for grower scheme to supply additional cane to **Development** the processing plant cultivation • Development of the processing Lessens the financial burden on the **Processing** plant through the use of an Indian investor for the initial phase of the investment contractor and with the support of and allows investor to focus on scaling up **Plant** the loan from the Indian government production volumes Mitigates the difficulty of community **Out Grower** • Pre-selection of SHFs to be engagement and SHF selection, particularly Identification as the investor will likely have limited insight included in the out grower scheme into which farmers are suited to the task • Engagement with and resettlement • Evades a highly sensitive issue that would Community of communities living on the land be difficult for the investor to successfully Resettlement designated for development achieve without government intervention



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Contact Information

Government and GBI Contact Details

For more information about this investment opportunity or other investment opportunities available in Malawi, please contact the representatives below

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