

The United Republic of Tanzania Agriculture Sector Lead Ministries

4TH ANNUAL AGRICULTURAL POLICY CONFERENCE [AAPC]

Integrating Food and Nutrition Security into Economic Transformation and Industrialization Agenda: How can agriculture be the driver rather than follower of economic transformation in Tanzania?

New Dodoma Hotel, Dodoma

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Industrialization and Edible Oils

MUNA NGENDA – PROJECT MANAGER, DALBERG



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Objective: The study assesses market opportunities, value chain dynamics and potential investments in Tanzanian edible oils

- The study is informed by the Government of Tanzania's commitment to industrialize the economy, as framed in the latest Five-Year Development Plan
- Edible oils value chains have been identified as key to the success of the agriculture sector
- Two other edible oils studies were conducted in parallel.
 - Tariff regime study (Palladium I4ID)
 - Demand analysis (MSU/ASPIRES)
- Findings will be used by the government to prioritise sector support, and enable and attract new investment into local value addition



Ministry of Finance Planning Commission Ministry of Agriculture PORALG TFDA TBS TanTrade TIC



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<u>Methodology</u>: Sunflower, palm and cotton value chains were selected from initial oil crops based on assessment criteria below, and stakeholder group priorities



Social impact opportunity



<u>Methodology</u>: Following desk research, we conducted 150 interviews across 5 regions - in areas with the most stakeholders in the respective value chains

1. Mwanza

Cotton: interviewed LGAs, input companies and providers, farmers, aggregators, ginners, crushers, retailers, and consumers

2. Kigoma

Palm: interviewed LGAs, input providers, farmers, plantations, aggregators, crushers, refineries, distributors, retailers, consumers, and service providers



Sunflower + Cotton: interviewed LGAs, input companies and providers, farmers, aggregators, crushers, refineries, distributors, retailers, consumers, and service providers

4. Dodoma & Singida

Sunflower: interviewed LGAs, input companies and providers, farmers, aggregators, crushers, refineries, distributors, retailers, consumers, and service providers

5. Dar es Salaam

Market Research & Stakeholder Consultation: interviewed end users and edible oils stakeholders including donors, ministries, regulators, financiers, retailers, and private sector players



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<u>Methodology</u>: Value chain and cost analyses were used to develop investment approaches and assess their feasibility

In the (which is the domestic retial price) the price competitive, series the domestic retial price the price competitive, series the domestic retial price the price competitive, series the domestic retial price In the following section, we assess the barriers to palm pill competitiveness and production, identify. the price competitive, series and production, identify. the price competitive, series and production, identify.			
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solutions and determine what investment opportunities are achievable in the short and long term	Activities 0 t t t moroved seed Contract taming 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
2. Support programs 3. New smallholders 2. Support programs 3. New smallholders 3. New smallholders 2. Support programs 3. New smallholders 3. Setem solution 1000000000000000000000000000000000	Existing + new integrated crushers Z. New dedicated crushers Capital Equipment Distribution eart : Distribution Veart: Distribution		
 A difference difference	Install crushing equipment		



Analysis: Palm and cottonseed value chains face more significant growth challenges than sunflower

Severity of growth

	Critical enablers for value chain growth barr		
OWER	\diamond	Improving access to high yield seeds for higher productivity	
SUNFLOWER	888 888 888 888 888 888 888 888 888 88	Providing extension services focused on Good Agricultural Practices to increase production and reduce costs	Low
	\Diamond	Improving access to high yield seeds for higher productivity	High
PALM	•: ****	Large scale production of palm to meet demand for refined oil	
	Ü	Lowering transport costs to major refineries and urban centers	Medium
COTTON		Processing overcapacity in the sector (5x seed supply) limits need for	
	• کیسٹے	additional investment even with production growth Improving awareness of cottonseed oil in the local consumer market	High



<u>Findings</u>: Prioritized investments in production and refining are necessary to realize the potential of the edible oil industry

	PRODUCTION	CRUSHING	REFINING		
SUNFLOWER	High seed demand to	30% utilization of	Opportunity to		
	meet crushing and	existing crushing	displace palm's		
	refining needs	capacity	demand share of 64%		
PALM	Production of only	Artisanal crushing	Contingent on		
	2%, but high palm oil	that does not meet	increased fruit		
	demand	global standards	production		
COTTONSEED	Increasing production	50% utilization of	Opportunity to		
	with government	existing crushing	expand the 2%		
	support	capacity	national demand		
Relative priority of investment: Low Medium High					



<u>Findings:</u> Investments in palm and cotton can be made more attractive in the medium- to long-term, if challenges within the two value chains are resolved

Sunflower

- The highest share (83%) of domestic production volumes
- Second most consumed edible oil in Tanzania (30% of consumption)
- Strong distribution networks between farmers and crushers

Cotton

- Underutilized crushing capacity (c. 50% utilization)
- Low incentive for ginners to crush cottonseeds given low margins
- Low consumer awareness of double-refined cottonseed oil beyond Lake Zone

Palm

- Poor access to highyielding seeds. Farmers require concessionary financing to offer longterm and low-interest loans
- Poor land access for plantation models to circumvent smallholder input finance issues

Sunflower provides the best opportunity to expand domestic edible oils production



<u>Findings</u>: Sunflower provides the best opportunity to expand domestic edible oils production

Proposal:

Replace crude palm oil imports with c. 200,000 MT of domestically produced refined sunflower oil



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<u>Implications</u>: Addressing the bottlenecks that limit offtake will unlock several investment opportunities for the sunflower sector



Investment and sector support to the sunflower value chain will benefit Tanzanian smallholders and SMEs who can help serve domestic oil demand



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<u>Implications</u>: Farmers could use high-yielding seeds, and good agricultural practices to increase production; these efforts could be supported by development partners

Existing sunflower farmers

1.6m

Potential for 1,000,000 additional farmers to grow sunflower

2.6m Farmer livelihoods improved Farmers should use highyielding seeds and good agricultural practices to support the value chain

- Improved seeds increase yields by c. 3x current production volumes
- Spacing alone increases farmer yields by 25%, leading to higher incomes from seed sales

Development partners can support farmers' efforts through training and financing programs

- Provide high quality seeds to farmers
- Train farmers in Good Agricultural Practices,
- Support access to markets, both domestic and exports
- Support organic certification and compliance









Implications: The sunflower value chain can create additional jobs in small and medium enterprises



Existing crushers and aggregators

Potential to include 7,500 additional SMEs

10,300

SMEs included in supply chain

VAT reductions lower costs and improve margins all through value chain

- Lower producer costs allow expansion of local production and processing
- Lower consumer prices help to increase local demand for refined sunflower oil
- Industry links are supported by cheaper seed and animal feed inputs

SMEs should improve processing efficiency and off-taker relationships

Crushers

- Improve crushing efficiency by adopting better technology
- Supply additional refineries and consumers with crude oil

Aggregators

- Increase presence in new sunflower production areas
- Offer farmers and crushers fair (market) prices for inputs to build trusting relationships



Implications: Banks should develop more farmer-oriented products and programs to ensure farmer cashflows and industry expansion

<u>II\$II</u> TZS 300k Average input Ioan per farmer

> Up to 1m more farmers could grow sunflower

TZS 300B in credit services to farmers Farmers and SMEs will require financing for inputs and processing equipment to meet rising demand

- Farmers need access to affordable loans to invest in improved seeds and inputs
- SMEs need working capital to purchase farmer produce and invest in processing equipment, seeds and inputs

Banks can support farmers by developing new credit and insurance products to fit their needs

- Innovate tools for credit checking and risk management
- Train farmers on savings and business practices
- Expand access to physical and mobile banking services
- Partner with input and training providers



"The Farmers' Bank'









Implications: New investments in sunflower solvent extraction are needed to make sunflower oil competitive to imports



of refined sunflower oil currently produced by solvent extraction

> **12,000 MT** of additional refined oil projected by 2022

188,000 MT

of new solvent extraction required for import replacement

- Investments in solvent extraction are needed to drive down production costs
- Seedcake is a low cost input to refining, compared to seed and crude oil
- Of the 5 major sunflower refineries, only Mt. Meru has solvent extraction capacity
- At least 200,000 MT of oil needed to displace food-use oil imports, through solvent extraction

- Investments in solvent extraction will help to drive increases in seed output
- Lower prices for refined sunflower oil will encourage demand for domestic oils
- Increased processing output will require more seed as raw material
- Seed demand will create farming opportunities and support employment throughout the sunflower value chain, from farms to feed industries



50%

<u>Implications</u>: Refined sunflower oil offers a healthier oil variety, that when processed using solvent extraction could be sold at retail price that is on par with refined palm

Saturated fats in refined palm oil Switching oils provides an 80% reduction in saturated fats intake

10% Saturated fats in sunflower



Lower retail price will increase demand, that is driven by health benefits of sunflower

- Retail price on par with imports, and can lead to substitution
- Perceived health benefits of sunflower oil drives consumer demand
- Refined sunflower oil is a healthier oil variety than palm oil, which has more saturated fat content



<u>Recommendations</u>: The government should support value chain actors and create policies that encourage investments in locally produced sunflower oil

sector price-competitive

Impact:

Farmer incomes and job opportunities

FOREX savings and corporate tax revenues

Local industries and value addition

Support temporary VAT zero-rating of domestically sourced and produced sunflower products to make

Policy

Practice

- Maintain 10% tariff on imports of crude palm oil
- Support the SAGCOT Center in creating a platform for **rapid seed registration and local multiplication** for wider access and lower prices of high-yield seed
- Train farmers on good agronomic practices: highquality inputs use and proper seed spacing
- Support seed grading and quality premiums to farmers from offtakers



<u>Recommendations</u>: VAT-supported import replacement could *increase* edible oils tax revenues by at least 12% and lower the national import bill by up to TZS 413B in later years



GROWING THE EDIBLE OILS INDUSTRY IN TANZANIA

TZS. 25b initial minimum investment committed from the private sector to refine sunflower oil

Up to **1500** direct jobs (permanent hires), and **45,000** seasonal jobs generated from additional solvent extraction investments to replace palm imports



Increasing refined oil production to 200,000 MT could attract **C. 1,000,000** new farmers into sunflower

\$

Potential to include **7,500** SMEs (small crushers + aggregators) in the value chain

TZS. 400 billion in annual forex saved (from import substitution/reduced import bill)

30m more consumers of a healthier product (80% less saturated fats in sunflower than palm oil)

22

200,000 MT additional domestic oil production from 20% increase in extraction efficiency

THANK YOU

