UNITED NATIONS CONFERENCE ON TRADE AND DEVELOPMENT

UNCTAD

Promoting cotton BY-PRODUCTS

in Eastern and Southern Africa

Project: 1617K - Funded by the United Nations Development Account - 2016-2019

WTO Cotton Days, Geneva, 29 November 2018













Outline of the presentation

- Overview of the project
- Project countries and their cotton sectors
- Impediments to the development of cotton by-products
- Project activities and deliverables
- Cooperation with CIRCOT
- By-products selected for development
- Policy advantages of cotton by-products
- Lessons learned
- Next steps





Title	Promoting cotton by-products in Eastern and Southern Africa (ESA)			
Funding source	United Nations Development Account (Project 1617K)			
Countries	United Republic of Tanzania, Uganda, Zambia and Zimbabwe			
Start date	March 2016			
End date	December 2019			
Total budget	US\$ 591,000			
Implementing agency	United Nations Conference on Trade and Development (UNCTAD)			
Partners	United Nations Economic Commission for Africa (UNECA)			
	Common Market for Eastern and Southern Africa (COMESA)			

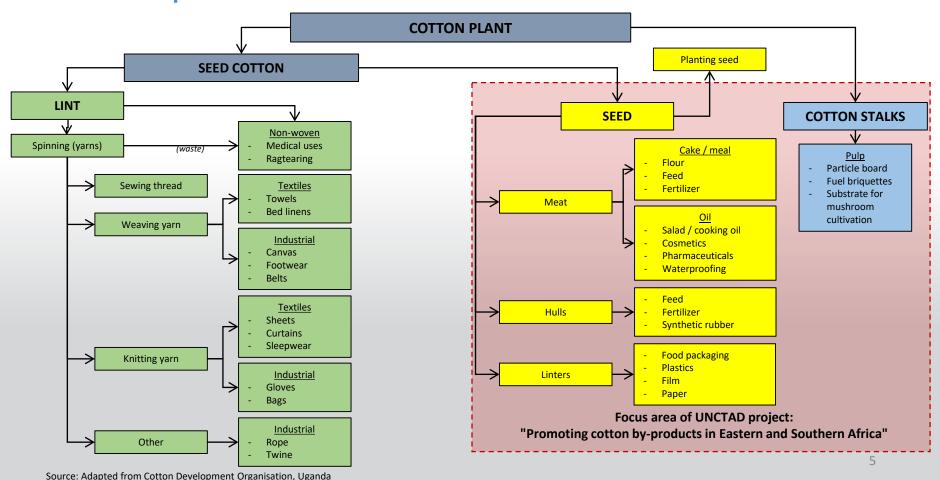


Overview of the project (cont)

- Expected Accomplishment 1:
 - Improved capacity of cotton value chain stakeholders (government officials, the private sector and farmers) to assess the potential value, market situation and prospects for cotton by-products.
- Expected accomplishment 2:
 - Improved capacity of policymakers to (a) formulate evidence-based policies that improve the value added of cotton by-products; and (b) devise investment profiles to attract potential investors.
- Focus on new / pre-commercial opportunities, e.g. applications for cotton stalks, rather than upgrading opportunities, e.g. replacing obsolete oil extraction technologies.
- Approaches:
 - Process-based, not expert-based
 - Build capacity of country experts
 - Inclusive participation, with an emphasis on farmers and women
 - · Inter-agency collaboration
 - South-South cooperation



Our project on by-products looks at "products derived from the non-lint parts of the cotton plant".





Value addition in the 4 countries is characterized by collapsed textile industries and minimal use of by-products.

General

- Collapse of textile sectors as of liberalization in the mid-1990s
- Contributed to lower average yields, quality, cultivation area and production
- Ginneries currently operating at 30% or less of installed capacity
- 95% or more of lint exported

By-products

- Oil milling relatively developed, but with obsolete technology
- Oil mills operating at 30% or less of installed capacity
- Unmet demand for edible oil; less reliable market for cottonseed cake
- Otherwise only a few cottage activities for by-products: mushrooms or chicken feed from hulls
- Pest management regulations require farmers to destroy their cotton stalks



Country surveys highlighted the main impediments to the development of cotton by-products.

Primary

- Economies of scale due to low production of raw material
- Lack of general awareness
- Lack of policy coherence from production, to value addition, to trade

Secondary

- Misaligned incentives in farmer-ginner relationship, including:
 - Skepticism among farmers that they will not receive by-product income through the seed cotton producer price formulae; and
 - Contract farming models that provoke race-to-the-bottom competition, especially on inputs.
- Asymmetric tax treatment with respect to imported substitutes
- Obsolete oil milling machinery



Project activities run from 2016 until mid-2019, followed by an evaluation by end-2019.

ITS BY-PRODUCTS

in Zambia

ANALYSIS OF COTTON

BY-PRODUCTS SURVEY

Complete

- Surveys
- National capacity-building workshop (National Action Plan)

Underway

- · Investment profiles
- Study visit

Remaining

- Draft pilot project plans and fundir proposals
- Regional workshop
- Evaluation



Uganda

4 October 2018

National action plan

Golf Course Hotel, Kampala, Uganda, 15 March 2018

Validated by the Cotton Development Organisation

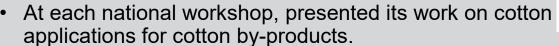
Agreed by consensus at the multi-stakeholder national workshop



Cooperation with India's Central Institute for Research on Cotton Technology (CIRCOT)

- UNCTAD selected India as an example for project countries, due to:
 - Similarities between the production models and geographic densities;
 - India has revived its cotton sector by developing local value addition technologies and businesses, adapted to the rural context.
- CIRCOT researches, designs technologies and incubates businesses for post-harvest processing of cotton and its by-products.
- Close link with processors and machine fabricators.

CIRCOT participation in project activities:





Will host a study visit for project participants in January 2019.

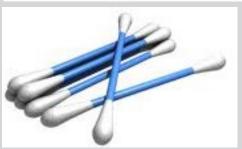




At national workshops, stakeholders agreed on National Action Plans to develop 2-4 by-products.

Cotton by-products selected for National Action Plans

products constitutional resistant						
Raw material	End product	Tanzania	Uganda	Zambia	Zimbabwe	
Stalks	Briquettes and pellets	16	16	16	16	
Stalks / hulls	Mushrooms		16			
Cottonseed cake	Gossypol- free cake	16	16		16	
Short staple cotton	Absorbent cotton wool	16	16	16		













In each country, the selected cotton by-products respond to several policy priorities.

Policy priority	Biomass briquettes / pellets from stalks	Mushrooms from cotton stalks	Absorbent cotton wool	Gossypol-free cottonseed cake
Income opportunities for farmers	Y (direct)	Y (direct)	Y (indirect)	
Small-scale, rural business opportunities, including for women	Υ	Υ		
New business opportunities for entrepreneurs	Υ	Υ	Y	
New markets for existing businesses				Υ
Import substitution	Υ	Υ	Υ	
Substitution of fossil fuels	Υ			
Reduced pollution	Υ			
Reduced deforestation	Υ			



Lessons learned

- Value addition for lint or by-products can't be treated in isolation from cotton production
- Existing producer price formulae don't give farmers sufficient incentive to grow more cotton
- Governments and ginners can help develop by-products to increase incentives for farmers to grow cotton
- In Africa, economies of scale are only possible for a few by-products
- In project countries, cotton by-product opportunities mostly for domestic consumption and import substitution, not export
- Trade deficits in project countries for: edible oil, surgical wool and fuel
- Economics aside, cotton stalk-based fuels respond to policy priorities on forests, emissions and substituting fossil fuel imports



Next steps

- Remaining project activities:
 - Complete investment profiles for priority cotton by-products;
 - Study visit to CIRCOT in Nagpur, India, 14-18 January 2019;
 - Regional workshop, May-June 2019;
 - Project evaluation, by end 2019.
- Work with country focal points to draft selected initiatives into project plans and funding proposals for next phase of work.
- Propose a similar project to other cotton-producing countries in Africa.
- Coordinate with joint WTO-UNCTAD-ITC initiative on cotton by-products.



For more information

Project site, including all project documents:

https://unctad.org/en/Pages/SUC/Commodities/SUC-Project-1617K.aspx

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