

6th November Nairobi, Kenya

Sowing the Seeds of Transformation: Tanzania's Digital growth in Agriculture





#ALE2023 #AgriFinALE2023

Chapter 1: Pre - 2010 Era

Pre – 2010 Era

Marketing



- Farmers had no market access (unregulated selling).
 - Products were not standardized or graded.
- Producers received less than 10% of their goods' value.

Productivity



- Lack of market incentives led to subpar production.
- Value chains were controlled by a few individuals, which hurt farmers, especially men.
 - The sector was primarily dominated by financially powerful and well-connected individuals

Inclusivity



- Farmers lacked proper recognition for their products.
- Many value chains were controlled by a select few, often at the expense of farmers.
- Payments to farmers were made manually in cash.
- Farmers faced difficulty accessing loans due to their perceived informal status.

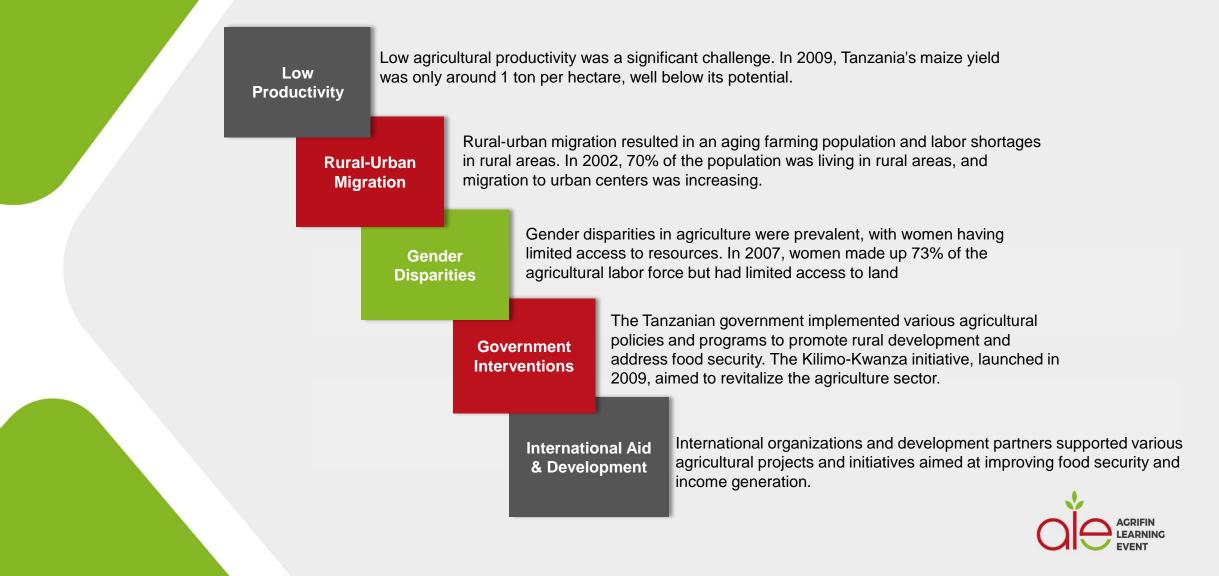
Info & Tech Access



- Information about the products was hard to find.
- The government had difficulty collecting data related to production, input needs, storage locations, and other areas requiring support



Pre – 2010 Era...



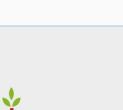
Chapter 2: Building blocks for more structured and inclusive agriculture sector From 2010 to 2022

The era of things coming together

What is special is how the initiatives complement each other:

- The formation and re-establishment of farmer groups and cooperatives helped to lay foundation for rural financial inclusion.
- The emergence of mobile banking and simplified KYC allowed financial service providers to onboard millions of farmers.
- Marketing of crops via warehouse receipts made available more data on farmers, commodities, and value chains.

Leveraging technology and developing solutions	 Instant bank accounts (NMB Chap Chap) Payment of AMCOs farmers via mobile money (Tigo Korosho 2018) Digital banking and mobile money solutions Warehouse Receipts Management System (WRMS) Cooperative Supervision Management Information System (CSMIS) TMX Online Trading System 		
Emergence of new Institutions	 Tanzania Cooperative Development Commission Tanzania Mercantile Exchange Warehouse Receipts Regulatory Board Mobile money operators CRDB Foundation 		
Legal and regulatory reforms	 The Cooperative Societies Act of 2013 The Warehouse Receipts (Amendment) Act of 2015 The National Payment Systems Act of 2015 The Commodity Exchanges Act of 2015 		



The Journey

2015

- Launch of the Commodity Exchange
- Expansion of WRS in the country
- Launch of the CRDB Foundation
- Access to finance for MSMEs
- Strengthening of Cooperatives

2011

- Dawn of Access to Finance

2016/17

- Increased inclusivity where many farmers in south regions opened bank accounts
- Increased P2P transactions
- Increase of Cooperatives in the country
- improved involvement of women & youth

2019

- Piloting of the Commodity Exchange on sesame seeds
- CRDB accredited to GCF
- Access to market amid the pandemic

2022

- Issuance of electronic Warehouse Receipts
- Introduction of Coffee Cherries trade on the Exchange
- Increased in Farmers' revenue through price discovery



Milestones

5,392 Cooperatives registered in CSMIS out of 7,392 in total 8.3 million cooperative society members in 2023 17 commodities traded through Warehouse Receipts System since 2008

72K tons of cocoa, coffee, sesame, green grams and pigeon peas worth \$113m traded via TMX by 2023 86% of adults have access to a mobile phone and 72% have mobile money accounts



Progress

Registration Summary							
Registered Coops	AN	ICOS	SACCOS 1,212		S	Other Cooperatives	
5,396	3	,676				508	
Members Registration Summary in CSMIS							
Total Member	S	Non-members			Remaining		
929,596		135	5,861			7,234,543	
Progress Made in CSMIS User Training							
Total Users Trained (incl. Coop Officers)				Remaining			
3,600			3,820				
						ale)

Progress

Saturday, 21 January

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AGRIFIN EARNING

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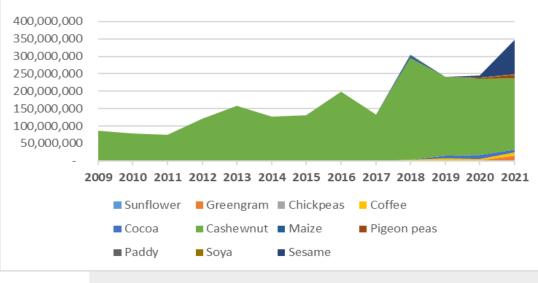
Using CSMIS, famously known as MUVU

- System is integrated to Digital Weighing Scales
- Farmers get instant information of their commodity

Ubora : Jina la Ghala : Jina la Mpokeaji :	GRADE 2 KIJANI KIBICHI AMANA A AMCOS		21 JAN 2023	
Kiasi Kwa Maneno: Ubora :	THREE T	HOUSAND TWO HUNDRED	KILOGRAM 21 JAN 2023	
Kiasi/Uzito/Ujazo:	3,200 KG			R 0 +
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	STAK	ABADHI YA MAZAO		B @ +
Baruapepe : kissuuramadhani@gmail.com			Mkoa: Iringa	
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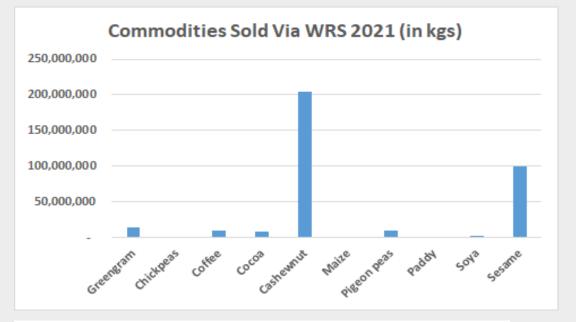
Success Stories (2010 – 2023)

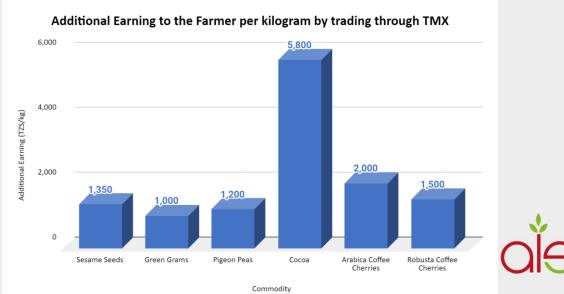
Commodities sold via WRS 2009 - 2021



RCN Price Trend Before and After WRS







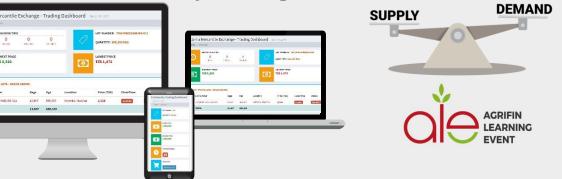
Progress

TMX progress

- 1. 8 settlement banks participating in auctions managed by TMX, including the main local banks CRDB and NMB.
- 2. Online trading system is in place, facilitating price discovery, fair competition and market transparency.
- 3. Awareness is ongoing with more than 190,000 people, including farmers, traders, financial institution staff and others trained since 2018
- 4. Value chain analysis done on crops traded on platform, including sesame, green gram, chick peas, cashew nuts, cocoa, coffee, tea, cotton and sisal.
- 5. Collaboration with other commodity exchanges including Ghana Commodity Exchange and Ethiopia Commodity Exchange



Online Commodity Trading



Overall Progress – In a nutshell

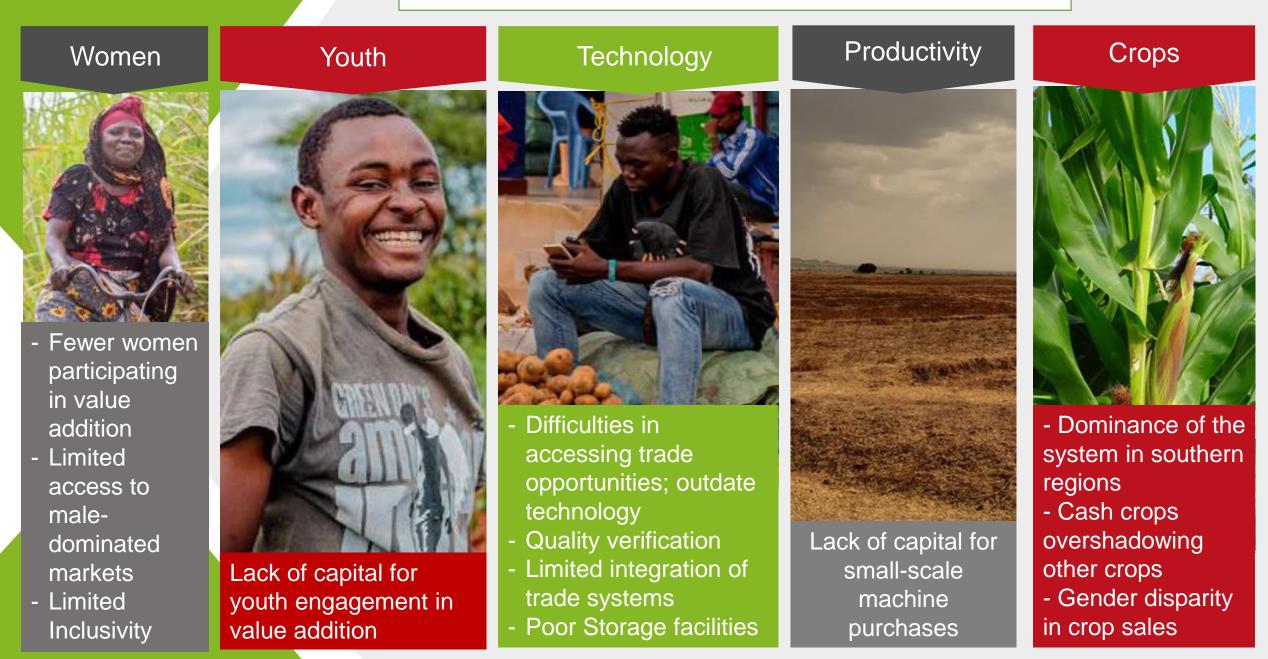
	WRS	ТМХ	TCDC	CRDB
Productivity improvements by farmers	Productivity level, for example in the cashew nut crop increase by an average of 12% per year	Price Discovery & market information mobilized farmers to increase their production	Improved service provision (inputs, fertilizers, packages) through availability of farmers information	710,000 smallholder farmers registered with simplified KYC through Mkulima serving Account
Price increases of commodities through the system	Price has improved from 500tshs to 4000tshs, a more than 200% increment	Online Trading System provides a fair competitive environment enabling price discovery	Proper Strategic Planning for the next crop season through market information, improved livelihood of farmers	Total Agribusiness Loan/Lending exposure – TZS 801Bn
Availability of data on quantity and quality of commodities stored and sold in country.	Quality of produce improved, i.e cashew nut grade A from 20% to 98%	2019 – USD 639.6k 2022 – USD 46.9m Average gain per kilo to farmers - 2,140/- from 2019 - 2023	Data on deliveries and sales of commodities of farmers.	Wekeza Akiba Project Insurance Products Imbeju Program Sim-banking
The number of AMCOS and farmers.	800 AMCOS have utilized the system in the 2022/2023 season compared to around 150- 200 in 2010	Timely Payment to farmers through AMCOS, where T+2 settlement has been achieved	1,065,457 members registered through MUVU	43% of the market share for the total agricultural lending in Tanzania



Chapter 3: Gaps

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Despite progress gaps remain



Chapter 4: Going Forward

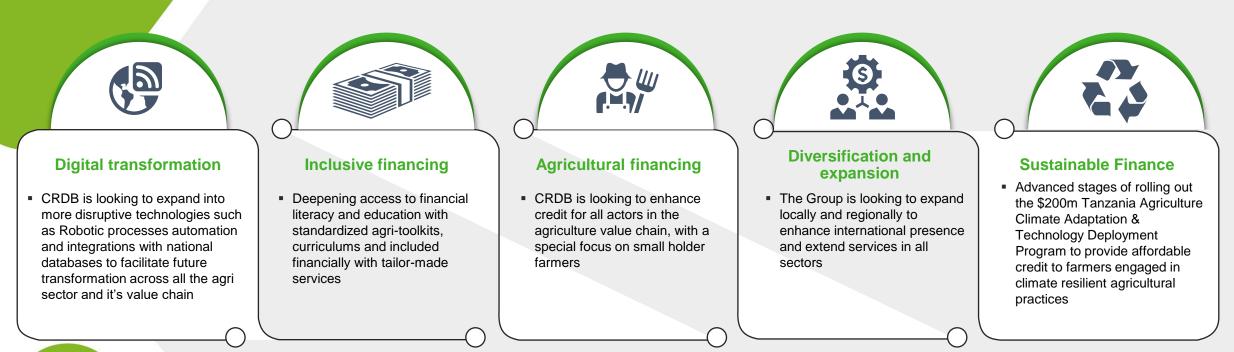
Desired Impact

Increased inclusiveness

Improved resilience, productivity, and efficiencies Income and competitiveness growth



Desired Impact





Targets to be Achieved

TCDC

- Reach the remaining Gap of 7,234,543
- Scaling up on Traceability and tracking aiming at improving farmers' access to information
- Increase provision of e-Coop Services
 through digital solutions
- Grading of Cooperatives

WRRB

- Expanding into new regions. By 2025, at least 50% of all regions to be covered with the service. By 2030, 100% to be covered.
- Improve collateral management facility for women and youth to reach 95%
- Improvement on the system capabilities to accommodate more data & information
- Formalize more small farmers and producers into their system to improve their inclusivity, resilience and earnings.

CRDB

- Data research and collation to integrate within the online climate risk assessment interface, enabling financial institutions to estimate farmers' climate risk rating), providing recommendations on technologies to improve productivity, and incorporating flexibility
- 6,144,344 beneficiaries to the system for the next five years

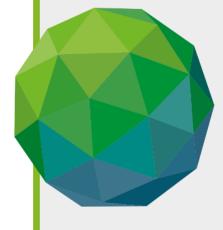
TMX

- More volumes to be traded with a potential to reach commodity trade value of USD 365m per year.
- Systems integration
- Scale up participation by incorporating complex market architectures including Futures market and Options

Targets to be Achieved

CRDB

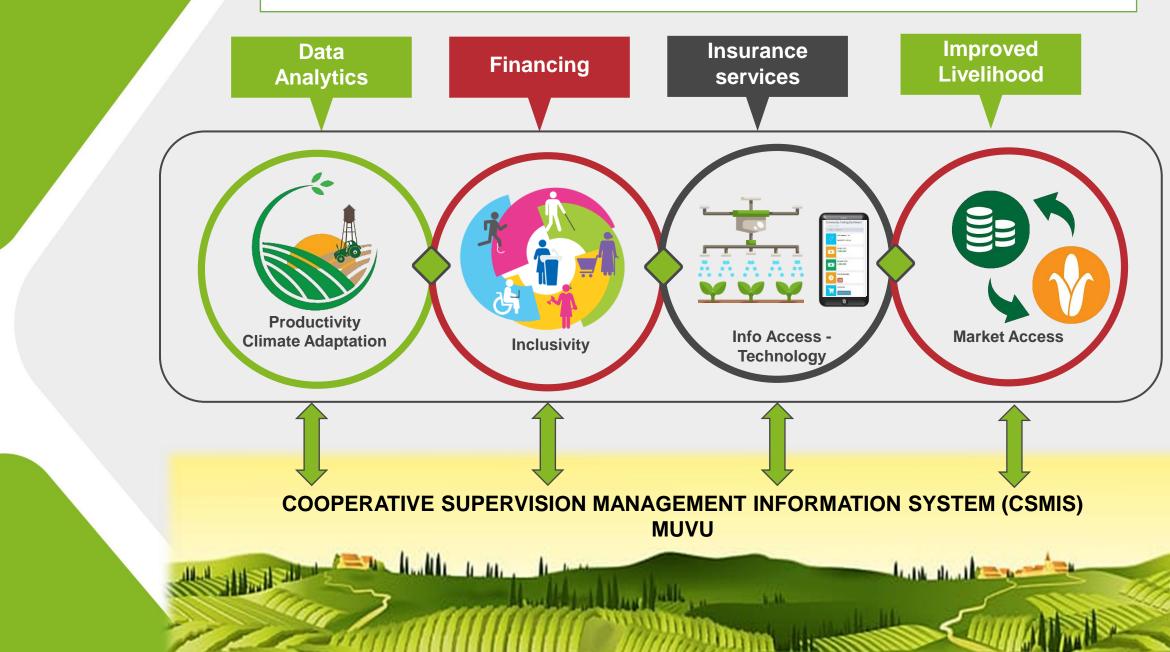
- Develop an online interface for CRDB Bank and other interested financial institutions to utilize to access covering climate change modelling and climate change variability, including climate-crop modelling and associated climate risks
- Promote capacity building on financial inclusion for youth & women and access to finance through the iMbeju program to reach 100,000 and TZS 10 Bil deposits
- Expand insurance coverage to farmers(crop and health), storage warehouse facilities and training to farmers
- Open 100,000 bank accounts for farmers and improve their financial inclusivity



GREEN CLIMATE FUND



Coming out of the maze: The Super Platform (MUVU)



Areas of Partnerships

Climate Adaptation & Digital Solutions

Financing of USD 70 million Focus on:

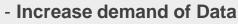
- Creating more access to financial services to farmers
- Creating more market linkages for their produce
- Facilitating access to real time data to farmers
- Building capacity and seed funding to youth and women to small holder farmers.

Duration & Sustainability

Solutions to embarked on 5 year period with sustenance found in:

- Increasing demand of food crops
- Trade Policies

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Thank You!