6 November 2023

 $\langle \hat{} \rangle$ 

# **Innovations Session N°15**

Technological innovations in the agrifood sector: adoptions by SMEs and entrepreneurs











.....

Stephen Muchiri CEO 9<sup>th</sup> November 2023







"e-Granary is unique in many ways, First and foremost it is by farmers and for farmers; Secondly it helps facilitate farmers access markets and create a financial history; Thirdly it facilitates access to credit by farmers as it will provide tailor made credit based upon future production and expected sales/profit; access certified inputs and lastly it is easy to interact with the platform this is why I support the e-Granary and request many farmers to support it".. <u>Chairperson e-Granary committee: Mbadfa -Ug</u>

.....





- EAFF
- E-Granary implementation
- How it works; value proposition

.....

- Results
- Sustainability
- To note







EAFF

membership

We have a 3<sup>rd</sup> strategic plan 2021-2028 -Transforming small scale agriculture into a rewarding investment

#### EAFF Vision

A Prosperous and Cohesive Farming Community in Eastern Africa

Currently (> 25 million farmers)

 Member -PAFO; is recognized as the highest representative body of African farmers at the continental level; representing about 80million of farmers from 73 National Farmers Organizations in 48 African countries.

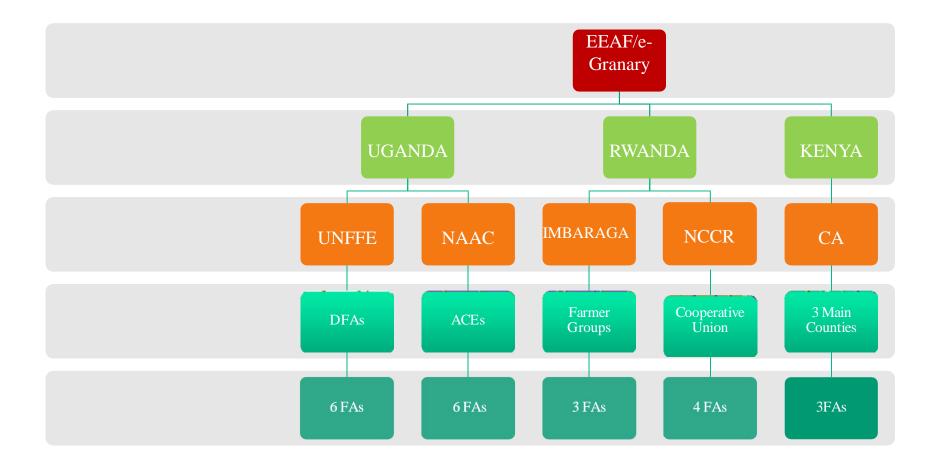


## Strategic plan PILLARS

- This transformation will be realized through investment in the following 5 mutually reinforcing thematic thrusts:
- I. Taking aggregation in use to scale;
- **II.** leveraging digital technology;
- III. taking provision of economic services to scale;
- IV. advocating for supportive policies; and
- V. improving capacity of members to discharge their representation mandate.

#### E-Granary IMPLEMENTATION FRAMEWORK





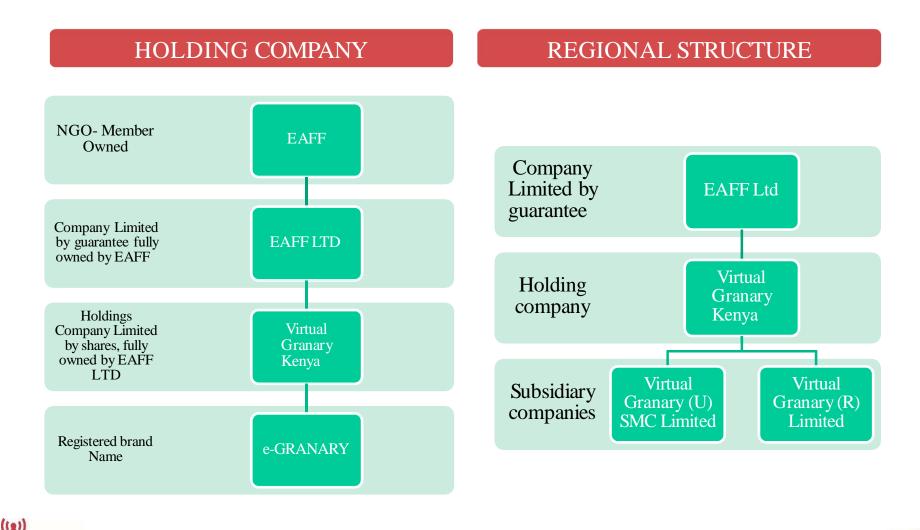




### LEGAL STRUCTURE

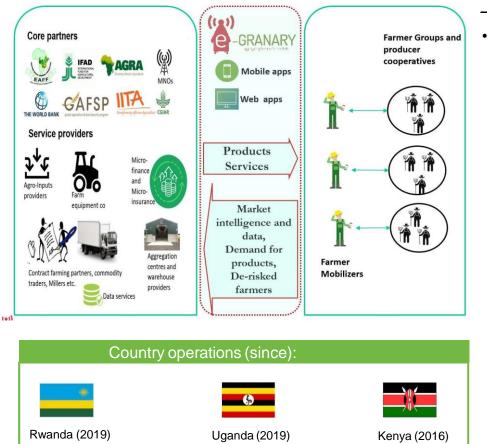


E-GRANARY operates on a subsidiarity principle with core staff at the HQ in Nairobi supported by country managers in Uganda and Rwanda and seconded staff from National Farmers Organizations (NFOs)



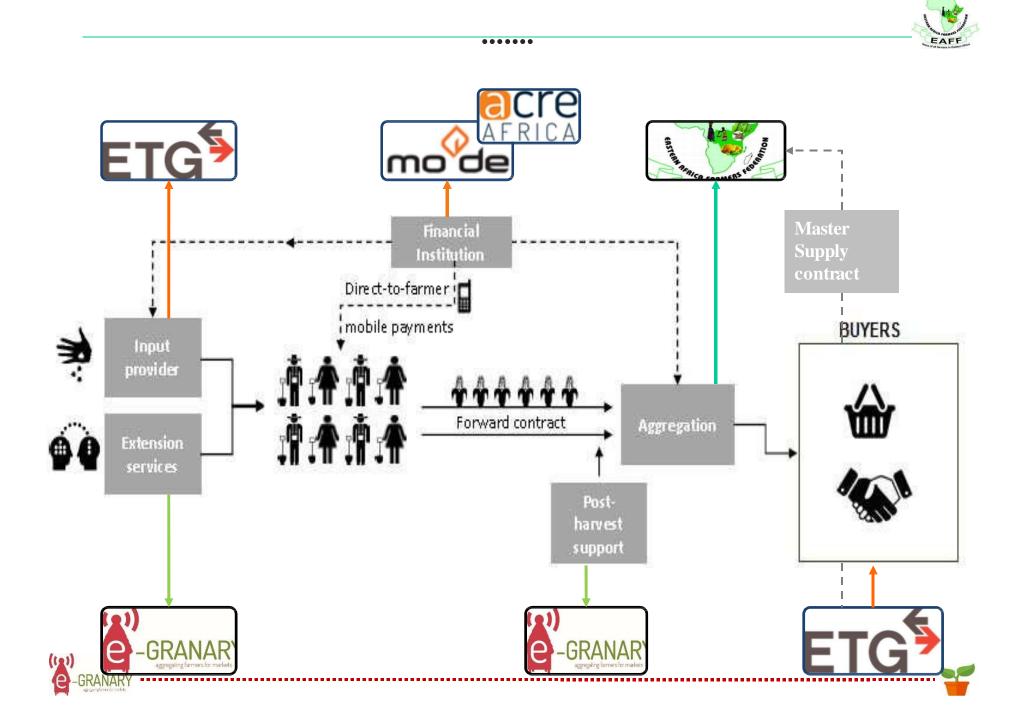


## e-GRANARY platform is a multi-stakeholder farmer led partnership that takes a full ecosystem approach to supporting smallholder farmers



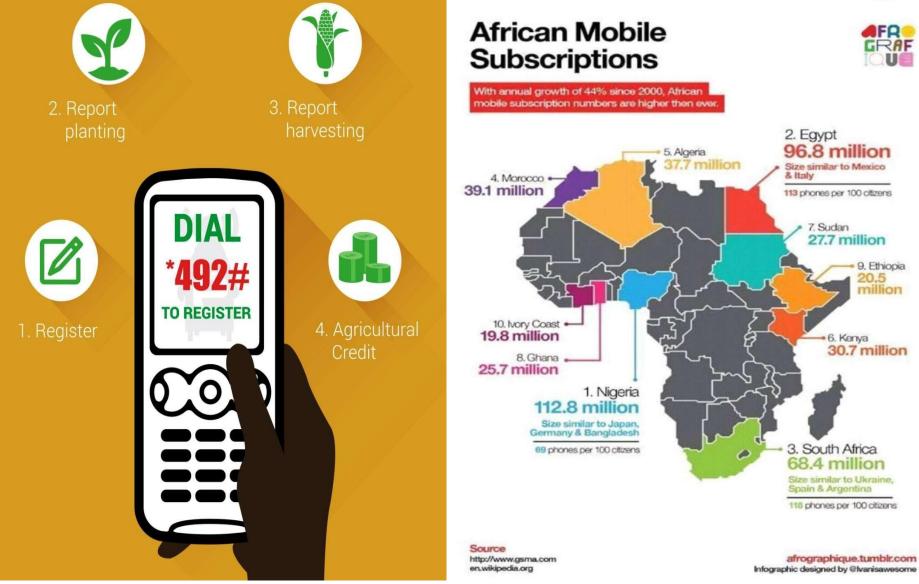
#### Approach

- The e-GRANARY platform seeks a unified approach to transforming the agricultural ecosystems of target countries through a comprehensive demand driven model featuring four key elements:
  - Access to finance from Financial Service Providers (FSPs) employing innovative lending models to deliver input loans to farmers
  - Access to inputs through access to certified quality inputs at preferential rates through input as credit in partnership with FSPs
  - Access to agronomic training eGRANARY together with relevant research institutions has implemented a text and voice based e-extension services that accessible to all our farmers.
  - Access to market for marketable surplus – through forward contracts secured with large offtakers.









# FARMERS' BIO DATA

Show 100 • entries

	Name	•	Phone   Number	Nearest Town	County \$	National 🕴	Organization	¢	Year of Birth	Gender 🛊	Time Registered
-	Arthur Mbati Iyadi		+254722608347	NZOIA GRAIN MARKETING	TRANS NZOIA	59	NZOIA GRAIN MARKETING		1947	male	19:13 PM 22/11/16
	David Kiptanui Lagat		+254729364775	kitale	Trans nzoia	8333598	nzoia grains Cooperative		1965	male	11:57 AM 23/11/16
	Dinah n wangila		+254728396067	kitale	Trans nzoia	7595595	nzoia grains		1963	female	16:54 PM 12/11/15
	Donald barasa		+254716823856	Kitale	Transnzoia	9298492	Nzoia grains		1968	male	16:56 PM 21/11/15
	<u>Edward Wamukota</u> <u>Osanya</u>		+254724105644	Kitale	Trans Nzoia	6539056	Nzoia Grain Cooperative		1963	male	12:02 PM 17/04/18
	Francis Kedogo adeh		+254721272831	kitale	Transnzoia	5723265	amuka marketing. Nzoia grains		1955	male	08:10 AM 23/11/16
	GEORGE MBAGU		+254725331321	KITALE	TRANS NZOIA	7248737	NZOIA GRAIN		1961	male	14:26 PM 19/11/15
	Hilda Nyukuri		+254723635794	Kitale	Trans Nzoia	16010929	Nzoia Grains		1954	female	14:30 PM 19/11/15



Total Farmers	19693
Maize Farmers	4,925
Rice Farmers	249
NERICA Rice Farmers	174
Bean Farmers	3,038
Green Gram Farmers	389
Black Eyed Bean Farmers	310
Total Maize Bags Harvested	833,633.0
Total Rice Bags Harvested	11,652.0
Total NERICA Rice Bags Harvested	11,163.0
Total Bean Bags Harvested	41,647.6
Total Green Gram Bags Harvested	1
Total Black Eyed Bean Bags Harvested	5,830.0
Total Maize Planted	1,020,555.3



- 1. Farmers per enterprise
- 2. Total plantings
- 3. Total harvest (per grade)
- 4. Archived data helps e-Granary create a "payslip"

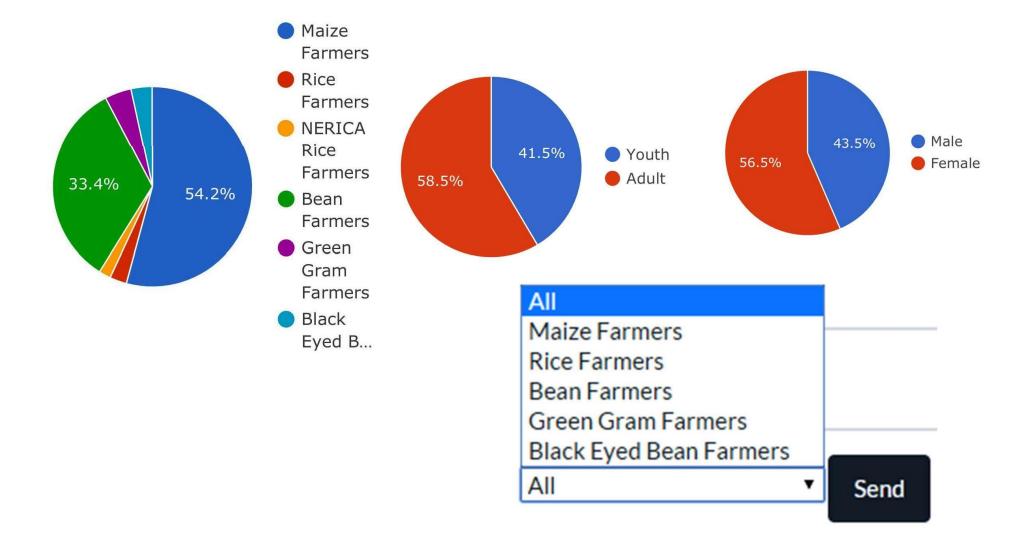




#### Farmer Crop Distribution

#### Farmer Age Distribution

Farmer Gender Distribution



#### VALUE PROPOSITION



	Roles	Drivers of value	Costs		
Financial service providers	<ul> <li>Provide payment product,</li> <li>Manage loan book - application, credit scoring, and repayment</li> <li>Farmer group risk profiling</li> </ul>	<ul> <li>New farmer and aggregated customers,</li> <li>improved lending margin and transaction fees</li> <li>Access to trade finance channels</li> </ul>	<ul> <li>Agent network</li> <li>Marketing &amp; branding</li> <li>Customer service (call center)</li> </ul>		
이지 (이미) Input providers	<ul> <li>Provide and deliver inputs to farmers</li> <li>Provide extension services to farmers to improve know-how</li> <li>Extension</li> </ul>	<ul> <li>Guaranteed New business, improved profit margin</li> <li>Reduction in dealer financing</li> <li>Bulk selling</li> </ul>	<ul> <li>Warehousing/ delivery vehicles and logistics</li> <li>Ordering platform</li> <li>Customer service and marketing</li> </ul>		
<b>buyers</b>	<ul> <li>Enter into forward contracts to buy set volumes of offtake at an agreed price floor and no ceiling – prices are set by market prices at time of harvest</li> <li>Extension</li> </ul>	<ul> <li>Margin increase from quality / aggregation efficiencies, new sales volume, secure supply</li> <li>Reduction in buyer financing costs</li> <li>Quantity of commodities procured</li> </ul>	<ul> <li>Warehousing/pickup vehicles and logistics</li> </ul>		
-GRANARY Departement	<ul> <li>SDM operator</li> <li>Facilitation of service provision/ organize B2Bs</li> <li>Liaise with farmer groups to provide extension services</li> <li>Provide training and coordination</li> <li>Assist with post-harvest services</li> </ul>	<ul> <li>Commission for fertilizers</li> <li>Commission on sales of commodities</li> <li>Subscription fees</li> </ul>	<ul> <li>SDM operations costs</li> <li>Farmer group coordination</li> <li>Trainings</li> </ul>		
() (C)-GRANARY	<ul> <li>farmer onboarding, and communications platform</li> </ul>		🍃		



#### VALUE PROPOSITION CONTD.....

((2))

ρ



	Roles	Drivers of value	Costs
Farmers	<ul> <li>Owns the production process - land preparation, planting, growing, harvesting and aggregating</li> <li>Provision of data on the e- GRANARY platform</li> </ul>	<ul> <li>Increased production from high- quality inputs and right application</li> <li>Increased production area</li> <li>Increased household income from higher quality and volume of commodities traded</li> <li>Improved food security</li> <li>Guaranteed markets for produce</li> <li>Access to relevant training on GAPs, structured trade, digital literacy and financial literacy.</li> </ul>	<ul> <li>Cost of services and products</li> <li>Tech access costs</li> <li>Production and aggregation costs including labour</li> </ul>

Affordable products and services.

-----

#### **RESULTS TO DATE**





Farmers are unable to access financing



Alternative collateral solutions - based on forward contracts, group guarantees and use of alternate nontraditional data for credit scoring process. Farmers received bundled input loans (with insurance).

#### About \$1,195,000

has been disbursed
to farmers to date in the three countries!





#### **RESULTS TO DATE**





Non existence data on farmers -

Lack of bio data, traceable financial and production history



>263,321 small holders already registered on e-GRANARY platform in Kenya, Uganda and Rwanda



#### e-GRANARY TECHNOLOGIES





A USSD application that helps farmers register themselves, report production data and request a loan.



A web app that helps field assistant and group champions collect data on inputs required



Outbound Voice web app for sending audio messages to farmers. Messages can be customized to farmers local language



**Call centre application** for managing support to the farmers



Web dashboard- for managing reports and users.



.....

Payment gateway integrated with MPESA -Farmers now receive payments via mobile money.



#### PARTNERSHP STATUS



e-GRANARY Partners in Uganda				
Financial Partners	Agreement status			
Equity Bank Uganda	MOU signed			
Vision Fund Uganda	MOU signed			
Post Bank	MOU at final stages of review			
Agro Consortium	MOU signed			
Input supplying Partners	Agreement status			
ETG Uganda	Regional MOU under review at their Nairobi office			
Balton corp	Letter of undertaking			
NASECO seeds	letter of undertaking			
Offtake Partners	Agreement status			
Grain Pulse Limited	Supply contract			
Over Land	MOU signed			
Barya United Agencies Ltd	MOU signed			
Inland Commodities/Malcom	MOU signed			
Public Sector Partners	Agreement status			
UCC	MOU signed			

e-GRANARY Partners in Kenya			
Financial Partners	Agreement status		
Coop Bank in Kenya	Onboading letter signed		
Vision Fund Kenya	MOU signed		
AFC bank	MOU signed		
Acre Africa	MOU signed		
Offtaking Partners	Agreement status		
ETG Kenya	Regional MOU under review at their Nairobi office		
Jungle Nut Kenya	Agreement signed - supply contract		
Input supplying Partners	Agreement status		
ETG Kenya	Regional MOU under review at their Nairobi office		
Farmer Centre	Letter of undertaking		

#### e-GRANARY Partners in Rwanda

Financial Partners	Agreement status		
KCB Bank Rwanda	MOU signed		
Vision Fund Rwanda MFI	No agreement. MOU		
	under review		
Offtaking Partners	Agreement status		
EAX	MOU under discussion		
SARURA	MOU under discussion		
Minimex	MOU under discussion		
Input Partner	Agreement status		
YARA	MOU under discussion		



#### E-GRANARY SUSTAINABILITY



#### e-GRANARY sustainability strategy has three main objectives:

#### 1) Financial sustainability:

*At farmer level:* Yield increment, growth in land under cultivation and income improvement

**At e-GRANARY** - To ensure steady flow of funds by generating revenue to maintain and continue with e-GRANARY activities.

#### 2) Institutional/organisational sustainability

Ensuring all organization structures and systems are working well and are ready to support the company growth. e-GRANARY has already developed key structures which are:

- a) The hub structure At the local community level eGRANARY sets up operational hubs where a network of Field mobilizer are contracted to reach out and manage farmers.
- **b)** Leadership and management The e-GRANARY board provides leadership and the technical team is in place for implementation and operations.
- c) e-GRANARY corporate structure limited subsidiary companies have already been set up in countries of operation
- d) Processes and procedures To achieve efficiency, quality output and uniformity of performance, while reducing miscommunication, e-GRANARY has developed some standard procedures

.....

**3)Partnership development** - Key commercial partnerships (offtakers, banks, Microfinance inst. etc) are in place and e-GRANARY continues to look for more relevant partnerships



## Farmer Registration on e-Granary





### Aggregation centres (GPS located) & Traceability







#### **CONTACTS: info@eaffu.org;**

<u>www.eaffu.org</u> 205 David Osieli Road, Off- Waiyaki Way, Westlands

**KENYA** 

Tel: +254 20 445 1691

# Thank You for listening merci beaucoup votre attention

