Kenya's Investment case

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Food and Agriculture Organization of the United Nations







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Presentation Outline

Accelerating Agriculture Investments in Kenya **Context** Country Objectives & Indicators

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Investment Priorities & Agri-Food Value Chains

Investment Cases







Liberal Free Market Economy

Repatriation of Capital & Profits

Investment Guarantees

Special Purpose Investment Entity

Digital Hub

Labour Productivity

Locational Economies - logistic hub

Why Kenya: Investment Climate

ECONOMY	GDP Growth Rate	GDP per Capita
3 rd largest economy in sub-Saharan Africa	4.8% in 2022	\$ 2,080





51,525,602 KNBS, 2023



US\$100 Billion World Bank, 2022



US\$ 21.2 Billion

World Bank, 2022

AGDP

FOOD SECURITY





Vision 2030: Upper Middle-Income Status

- At least 10% GDP growth rate per year
- Agriculture as key economic driver
- Treble Agriculture Trade
- Halve levels of poverty
- Build Inclusive and Resilient Food Systems







Kenya Development Agenda



Bottom Up Transformation Agenda (BETA)

INCREASING INVESTMENT

- MSMEs economy
- Housing and Settlement
- Health care
- Digital super-highway and creative economy
- Agriculture transformation





BETA

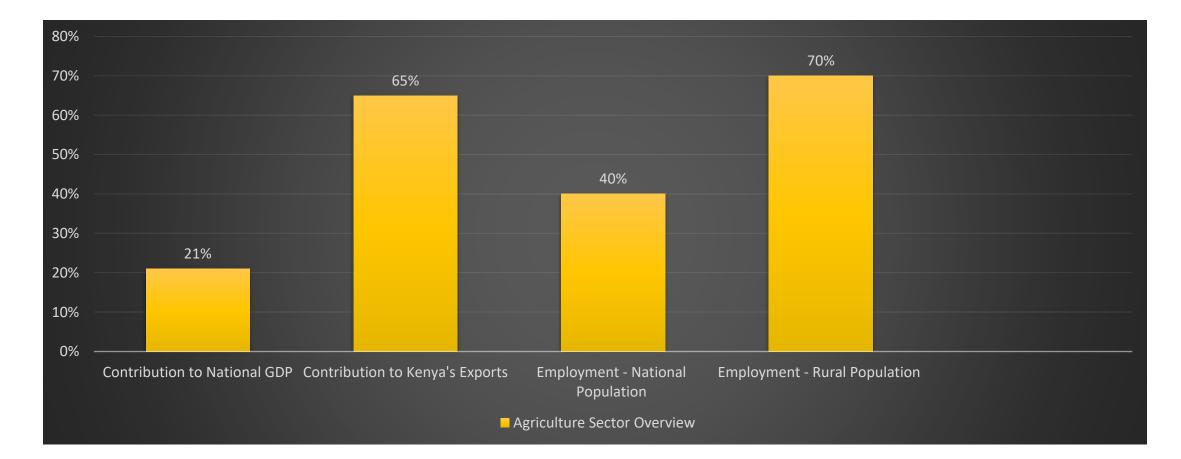
AGENDA for Agriculture Transformation 2022-2027

- 2. Increased access to market
- 3. Land use transformation
- 4. Increasing productivity of key food value chains
- 5. Reducing dependence on basic food imports
- 6. Adding value to agricultural exports
- 7. Development of the Arid & Semi-Arid Lands (ASALs)





Agriculture Sector Overview





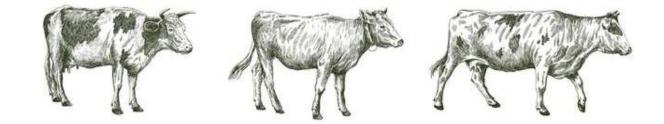


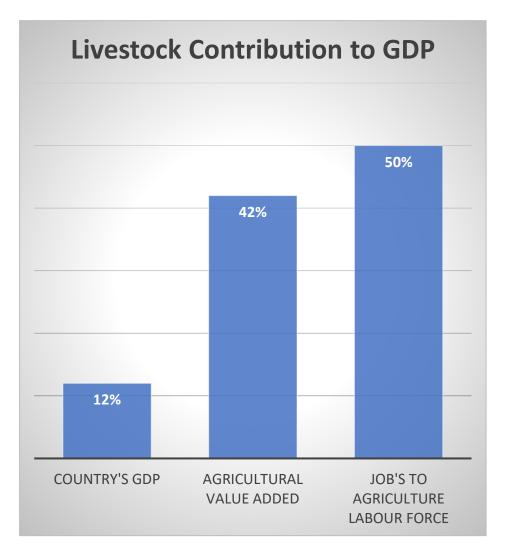


Drivers of Livestock Production and Productivity

Growing demand for Animal source foods by 2030

FOOD PRODUCTS	DEMAND
Milk	10.5 B Liters
Meat	1.6 M MT
Eggs	8.9 Billion



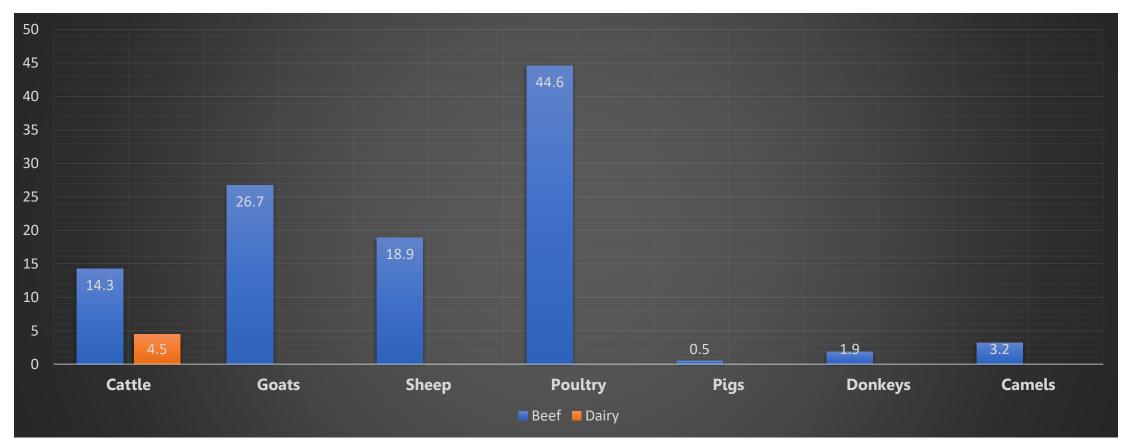








National Livestock Population - 2022 in Millions









Options for Improving Livestock Production and Productivity

Livestock Transformation Agenda

- 1. Farm Management Technical Advisory Model
- 2. Ward Cooperative Model
- 3. Feedlot Model in ASALs
- 4. Dairy (Cow) Value Chain
- 5. Beef Value Chain
- 6. Indigenous Chicken
- 7. Leather Value chain

Drivers of the Livestock Agenda

- 1. Animal Breeding
- 2. Animal Feeds
- 3. Animal Health
- 4. Policy Environment

Opportunities and Challenges in Feeds

Livestock Feed Opportunities

- Growing human population
- Demand for animal Protein
- National economic growth.

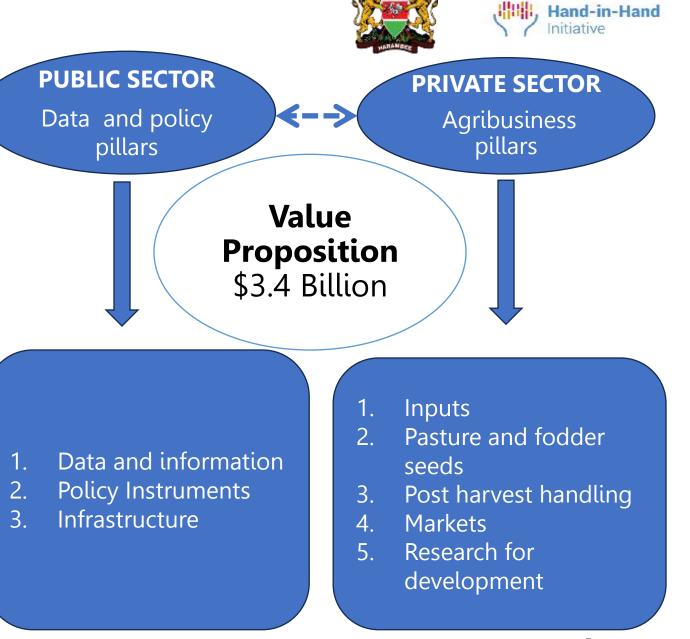
Livestock Feed Challenges

- ✤ 60 % feed deficit annually (Annual total of 55 M MT)
- Post-Harvest Feed Losses 46.3% Annually
- Low Mechanization and Transport Connectivity.
- High Cost of Feed Inputs 60 80% of total cost of production
- Importation of energy and protein ingredients 475,000 MT per year.



Strategic Animal Feeds Investment Planning for Kenya

Feed resource	Metric Tons	Hectares
		(Ha)
Нау	447,504.6	233,989
Silage	4,193,366	524,171
Maize	3,123,852	462,793
Sorghum	896,717	199,270
Cassava	438,483	25,056
Soya beans	204,625	110,908
Sunflower seed cake	1,268,147	289,862
Cotton seed Cake	455,051	104,012
Lucerne	4,296,496	211,637
Black Soldier Fly	63,407	-
(BSF)		
Total	16.5M MT	2,161,699







Country Level Priority Areas for Investments

Investment Hub	Coverage	Investment Target USD	No of beneficiaries
Hay production	240,000 Ha	283.2 M	201,600
Sunflower production	283,400 Ha	246.7 M	476,000
Hay mechanization	240,000 Ha	171.4M	192,000
Sunflower oil pressing	700,000 MT	242 M	6,946
Feedlot	141 Units	668,834	50,700
Slaughterhouse	6 Plants	1 Billion	6,666
Digitization	180 m Cattle	90 M	340,000
Grand Total		\$ 2.0 Billion	1,273,972

Country Level Priority Areas for Investments

Investment Target	Number of	
\$2.0 Billion	Beneficiaries	
	1,273,972	
AGRICULTURE & FOOD	DIRECT, INDIRECT AND SERVICE	
SYSTEM TRANSFORMATION	PROVIDERS	
AGENDA		
Catalytic Investments		

(Donors/Impact Investors/Government)

Investment Facilitation & Services

One Stop Investment Services Centre (OSISC)

- Company/ Business Registration
- Tax registration
- Issuance of Investment License
- Immigration permits
- Processing of Environmental Impact Assessment (EIA)
- Connectivity to utilities like water and power, securing land
- Advisory services on any other statutory requirements







Hand in Hand Initiative in Kenya

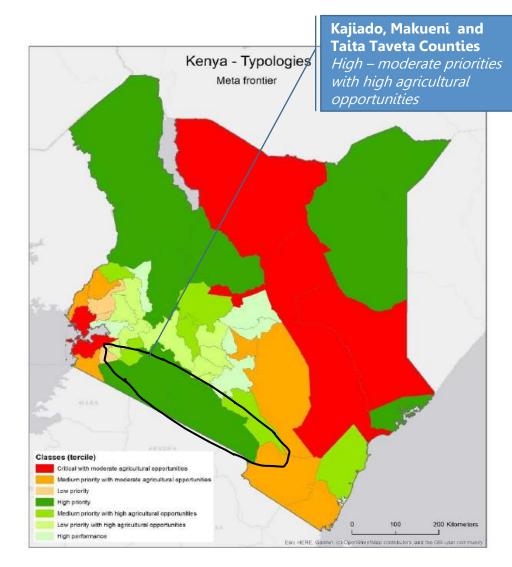
Prioritizing areas identified having high – medium agricultural potential and medium – moderate efficiency to:

- Attract market led investments
- Enhance agricultural productivity
- Provide a process to implement
- · Strengthen the institutional environment
- Consider positive and negative

Why the Focus on Arid & Semi-Arid (ASALs)

- Constitute 80% of Landmass;
- 36 % of human population
- Host over 70% of all livestock
- 80% of households livelihood
- High poverty rates -
- Food insecurity 17%
- GAM rates 69%

Livestock Feed Management improving food and nutrition security for enhanced livelihoods resilience in ASAL communities, Kenya



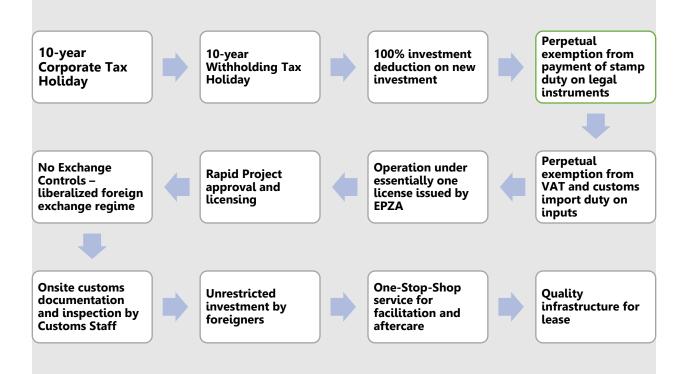




Hand-in-Hand

Kenya's Investment Incentives

Range of Fiscal, Physical & Procedural Incentives under the Kenya Export Processing Authority (EPZ) Programme



The EPZA Small & Medium Enterprises (SME) Development Programme – Nurture SME Exporters with Majority Local Shareholding

SMEs from the Horticulture/food processing, Textile/apparel, Leather, Commercial crafts, BPO, and ICT sectors also have access to:

- Purpose-built infrastructure with smaller warehouses.
- Reduced rent rate and service charge;
- With a rent-free period of 4 months to allow for set up.
- Capacity building: Business Development Services are provided.

Following are the incentives currently accessed by EPZ SMEs:

- EPZ Tax incentives: similar to other large EPZA enterprises.
- Purpose-built warehouses.
- Reduced rent rate and service charge.
- Business Development Services are provided to the SMEs.





HiHl Investment Opportunities in Kenya

A Value-Chain Approach (Farm to Shelf)

Total Investment Outlay: USD 163,968,543

HiHI Investment Clusters

INVESTMENT CLUSTER 1 Feed Production Systems (US\$134,110,143)

11 Commercial Hay Production hubs – US\$129,352,113 9 Sunflower Seed Production hubs: US\$4,758,030

INVESTMENT CLUSTER 2 Value Addition & Mechanization System (US\$24,557,900)

50 Hay Mechanization Hubs: US\$21,428,350 4 Sunflower Processing Plants US\$2,074,076 60 Feedlots with a total throughput of 180,000 cattle/year: US\$284,4000 1 Scalable Slaughterhouse with a throughput of 26,000 cattle/year: US\$771,074

INVESTMENT CLUSTER 3 Digitization & Digitalization US\$5, 300,500 1 Scalable RFID livestock traceability System: US\$5,300,500



10,000 Ha/Year Base Case Economic & Financial Analysis

Profitability Indicator		
Investment Outlay	\$11,759,283	
Operating Margin	\$2,648,143	
Internal Rate of Return (IRR)	21%	
Net Present Value	\$6,427,591	
Environmental Performance Indicators		
Climate smart pasture varieties		
Reduced resource conflicts		
Socio-Economic Performance Indicators		
Direct beneficiaries (farmers) 2		
Indirect beneficiaries	6,300	
Total beneficiaries	8,400	
Additional HH Incomes	US\$617/Household/HA	
Other Benefits to Farmers	50% Reduction in Feed Cost Higher Incomes	
	50% reduction in malnutrition	
Macro-Economic Benefits	20% Import Substitution	





11 Modular Hay Production Hubs Investment Outlay US \$129,352,113 M

Micro-Region Hay Supply Deficit/Gap 27Million Bales/Year		
Investment Model	Establishment of 11 Hay Production Clusters of 10,000Ha Each	
Total Ha	110,000Ha	
Production	27 Million Bales per Year	
Micro- Regions	3-Identified Micro-Regions (Kajiado, Makueni & Taita Taveta	
Total beneficiaries	92,400	

Government incentives :

- Import duty exemption on agriculture equipment
- Up to 40% Subsidized Fertilizers, seeds & Agro-chemicals



600Ha/Year Base Case Economic & Financial Analysis

Profitability Indicator		
Investment Outlay	\$528,670	
Operating Margin	\$127,599	
Internal Rate of Return (IRR)	23%	
Net Present Value	\$346,662	

Environmental	Performance Indicators
–	

- Deep rooted crop
- Enhanced feed intake reduced methane emission per unit

Socio-Economic Performance Indicators		
Direct beneficiaries (farmers) :	255	
Indirect beneficiaries:	765	
Total Beneficiaries	1,020	
Addition Incomes/Kgs	\$0.04/Kg	
Other Benefits to Farmers Production of animal-source foods Increased Incomes,	50% reduction in malnutrition	
Macro-Economic Benefits	20% Import Substitution	



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Hand-in-Hand Initiative

Investment in Sunflower Production

9 Modular Sunflower Production Hubs Investment Outlay US\$4,758,030

Establishment of Modular Sunflower Production Hubs		
Investment Model	Establishment of 9 Sunflower Production Clusters of 600Ha Each	
Target Hectares	5,400Ha	
Micro-Regions	3-Identified Micro-Regions (Kajiado, Makueni & Taita Taveta	
Production	21.6 Million MT of Sunflower Seeds per Year	
Total Beneficiaries	9,180	
 Government incentives : Import duty exemption on agriculture equipment 		

Up to 40% Subsidized Fertilizers, seeds & Agro-chemicals



600Ha/Year Base Case Economic & Financial Analysis

Profitability Indicator		
Investment Outlay	\$428,567	
Operating Margin	\$103,176	
Internal Rate of Return (IRR)	23%	
Net Present Value	\$279,247	
Furthermontal Davi		
Environmental Peri	ormance Indicators	
Benefits	Annual reduction in land under cultivation	
Socio-Economic Performance Indicators		
Direct beneficiaries (farmers)	150	
Indirect Beneficiaries	450	
Total	600	
Additional Incomes	\$0.74/Bale	
Other Benefits to Farmers	Feed loss reduction	
	Improved feed quality	
Macro-Economic Benefits	Import substitution of meat	





Investment in Hay Mechanization Hubs

50 Modular Hay Mechanization Hubs Investment Outlay \$21,428,350

Investment Model	Establishment of 50 Hay Mechanization Hubs
Target Hectares	30,000Ha
Micro-Regions	3-Identified Micro-Regions (Kajiado, Makueni & Taita Taveta
Production	1.8 Million Bales per Year
Total beneficiaries	30,000

Government incentives :

Import duty exemption on agriculture equipment



2,625MT/Year Base Case Sunflower Oil & Cake Milling Economic & Financial Analysis

Profitability Indicator					
Investment Outlay \$518,519					
Operating Margin \$134,148					
Internal Rate of Return (IRR) 22%					
Net Present Value \$347,029					
Environmental Performance Indicators					
200kw Solar lighting to displace of 23.12MT of CO2 Eq/Year from grid					
Socio-Economic Performance	e Indicators				
Direct beneficiaries742(farmers):6,678Other Beneficiaries:7,420Total beneficiaries7,420					
Additional HH Incomes	\$0.04/Kg				
Other Benefits to Farmers Reduced feed costs Improved nutrition					
Macro-Economic Benefits	Import Substitution of oil and protein feed concentrates				



Hand-in-Hand Initiative

Investment in Sunflower Oil Pressing and Sunflower Cake Milling

4 Modular 10.5Million MT of Seed/Year Sunflower pressing Investment Outlay US\$ 2,074,076

Establishment of 4 Modular Sunflower Processing Plants					
Investment Model	Establishment of 4 Sunflower Seed Processing Plants				
Location	3-Identified Micro-Regions (Kajiado, Makueni & Taita Taveta				
Annual Sunflower Seed Throughput	10.5Million MT of Sunflower Seeds per Year				
Outputs	Sunflower Oil: 4,200MT/Year Seed Cake: 6,300MT/Year				
Total beneficiaries	29,680				

Government incentives :

Import duty exemption on agriculture equipment



Base Case 3000 Cattle/Year Feedlots

Economic & Financial Analysis

Profitability Indicator					
Investment Outlay	\$4,740				
Operating Margin	\$1,749				
Internal Rate of Return (IRR)	20%				
Net Present Value \$2,262					

Environmental Performance Indicators

180MT/Year of methane gas avoided (60% cattle reach market earlier & Organic fertilizer Production

Socio-Economic Performance Indicators

Direct beneficiaries (farmers): Indirect Beneficiaries Total Addition Incomes	60 producers/Feedlot/year 300 360 \$74/Cattle		
Other Benefits to Farmers Reduction in production costs Reduction of livestock losses to droughts	Guaranteed livestock market for cattle		
Macro-Economic Benefits	Export Earnings		



Hand-in-Hand Initiative

Investment in Feedlots

60 Modular Feedlots Investment Outlay US\$244,000

Establishment of Modular Feedlots						
Investment Model	Establishment of 60 feedlots with a throughput of 3,000 cattle/Year each					
Cattle Throughput	180,000 Cattle/Year					
Feed supply	Local Hay Production (10,000HA), 6,300MT/year of Sunflower Seed Cake & Government Macro Plans on Energy, Protein, mineral & Vitamin feeedstuffs					
Micro-Regions	3-Identified Micro-Regions (Kajiando, Makueni & Taita Taveta					
Environmental benefits	 10,800MT of Methane Gas Avoided @60% 3- months early off-take Approx. 311,500MT CO2e./year 					
Total beneficiaries	21,600 feedlots, farmers & employees (Average of 50 cattle/farmer in ASAL)					

Government incentives:

Import duty exemption on agriculture equipment



100 Cattle/Day Base Case Modular Slaughterhouse Economic & Financial Analysis

Profitability Indicator				
Investment Outlay	\$771,074			
Operating Margin	\$173,052			
Internal Rate of Return (IRR)	21%			
Net Present Value	\$417,477			

Environmental Performance Indicators

200kw Solar lighting to displace of 23.12MT of CO2 e./Year from grid displacement (116gm of CO2e./kWh grid Intensity)

1,600MT of Methane gas avoidance/year equal to 45,000MT CO2e./year

Organic fertilizers from slaughter waste

Socio-Economic Performance Indicators

Direct beneficiaries	470
Indirect Beneficiaries (feedlots)	21,600
Total	22,070
Additional incomes	\$220/Cattle
Other Benefits to Farmers	Guaranteed Market Leather Production
Macro-Economic Benefits	Meat Export Earning



Hand-in-Hand Initiative

Investment in Slaughterhouse

1 Modular Slaughterhouse Investment Outlay US\$771,074

Investment Model	Establishment of a slaughterhouse with daily throughput of 100 cattle/day				
Cattle Throughput	26,000 Cattle/Year				
Micro-Regions	3-Identified Micro-Regions (Kajiado, Makueni & Taita Taveta				
Environmental Benefits	 45,100MT CO2.e/Year from 200kw solar lighting & Methane Gas avoidance Use of slaughter waste into Blood and Meat Meal for Non-Ruminant feeds 				
Direct beneficiaries Indirect beneficiaries Total beneficiaries	470 21,600 22,070 farmers, feedlots, employees				

Government incentives: Import duty exemption on agriculture equipment



1,000,000 Cattle Base Case RFID Traceability System Economic & Financial Analysis

Profitability Indicator				
Investment Outlay	\$5,300,500			
Operating Margin	\$1,339,900			
Internal Rate of Return (IRR)	24%			
Net Present Value	\$3,884,678			
Environmental Perform	ance Indicators			
Deployment of energy efficient devi	.ces/Network Elements			
Socio-Economic Performance Indicators				
Direct beneficiaries Farmers & Feedlots:	20,000			
Incomes	5% Price Premium			
 Other Benefits to Farmers Herd Management Diseases Control Livestock Insurance 	Credit CodingMarket AccessFood Safety			
Macro-Economic Benefits	Export Earnings			





Investment in RFID Based Cattle Traceability System

Modular RFID Based Cattle Traceability System

Investment Model	Establishment of a National Cattle Traceability System			
Cattle	18 Million Cattle			
Micro-Regions	 3-Identified Micro-Regions (Kajiado, Makueni & Taita Taveta Progressively to national coverage 			
Environmental benefits	Smart, green, energy saving & emission neutral network elements & end-use devices			
Direct Beneficiaries	200,000 livestock keepers & Feedlot Operators in ASAL			

Government incentives : ICT investments

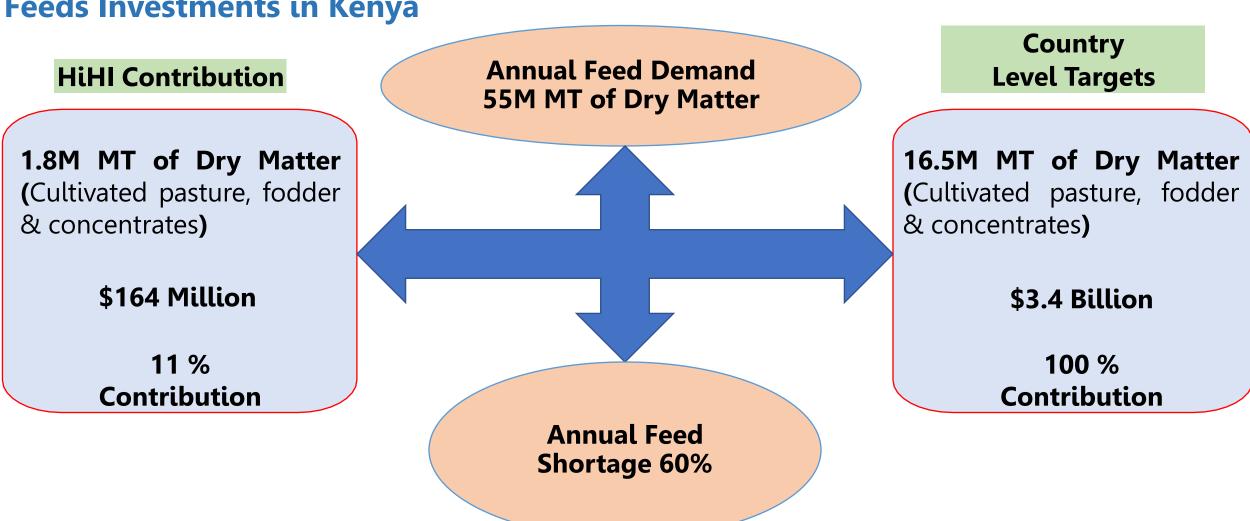
- 10% corporate tax for the first 10 years after start of operation, 15% for the next 10 years and 30% thereafter
- Government ICT infrastructure



Next Steps for Animal Feeds Investments in Kenya



Hand-in-Hand Initiative







						Abitan	
US\$ 164 M 22% Total Investment Overall Average IRR	239,933 Total Direct Beneficiaries	164,997 Total Indirect Beneficiaries		\$ 49.2 M ome Increase	45,100MT CO2e./year Emission Reduction	K	enya Investment Plan: Summary
Cluster 1 Feed Production Systems				ation & Value	e Addition		Cluster 3 Digitization & Digitalization
 1. Hay Production Investment Cost: US\$129.4M IRR: 21% NPV:US\$6.4M Sustainability Benefits: 50% Feed Cost Reduction 92,400 Beneficiaries US\$617/HA additional Incomes Climate Smart Pasture Varieties Reduced Resource Conflicts 2. Sunflower Production Investment:US\$4.8M IRR: 23% NPV: US\$346,662 Sustainability: 20% Feed Cost Reduction 9,180 direct jobs & other beneficiaries 0.04/Kg of sunflower in additional incomes Climate smart crop – sunflower is a deep-rooted Crop 	 US\$0.74 per b 30,000 direct. Reduced emiss feeds/nutritio 2. Sunflower Oil Milling Investment Co IRR: 22% NPV: US\$ 347 Sustainability B Reduced prote Reduced feed 29,680 direct j US\$0.04 per k farmer income 23MT CO₂e./y 	t: US\$21.4M enefits: vest loss reduction ale in additional incom lobs & other beneficiar sions from better n I Press & Seed Cake ost: US\$ 2.1M 029 enefits: ein concentrate import costs & prices obs & other beneficiar g of seed in additional es ear avoided from d with a 200kW solar	es ies	 Reduced anim Reduced meth Production of Livelihood sup US\$0.74 per cd Slaughterhou Investment Cost IRR: 21% NPV: US\$417,477 Sustainability B Market for fee Reduced anim Livelihood sup entrepreneurs US\$150 per ca 23MT CO2e./ya 200kW solar li 45,000MT CO2 avoidance Climate smart from slaughte 	enefits: -take market for farmers hal losses to drought hane gas reduction for intense fattening organic fertilizers/manure oport to 21,600 livestock suppliers attle in additional incomes se :: US\$771,074 7 enefits: hal losses to drought oport to 470 farmers & feedlot attle additional incomes ear avoided from displacing grid with a ighting system e./year avoided from methane gas technologies to produce animal feeds		 RFID Livestock Traceability System Investment Cost: US\$5.3M IRR: 24% NPV: US\$3.9M Sustainability Benefits: Improved market visibility & access Digitalization of livestock data for data led policy making Traceability of animal welfare standards Livelihood support to 200,000 farmers and feedlot and slaughterhouse Improved herd management, disease surveillance, response and control De-risking of livestock insurance Credit coding Smart, green, energy saving & emission neutral network elements & end-use devices