

# GF-TADs

GLOBAL FRAMEWORK FOR THE  
PROGRESSIVE CONTROL OF  
TRANSBOUNDARY ANIMAL DISEASES

*Africa*



Food and Agriculture  
Organization of the  
United Nations



World Organisation  
for Animal Health  
Founded as OIE

African  
Union 

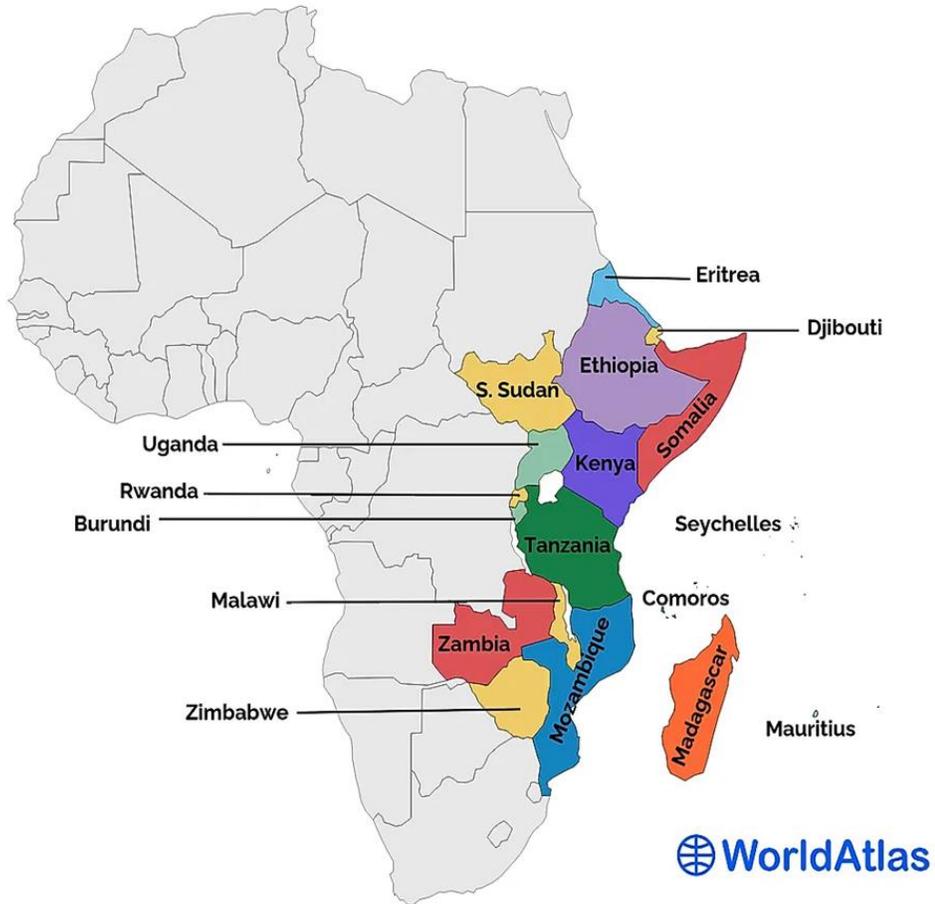


# VALUE CHAINS IN EASTERN AFRICA

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# Eastern Africa

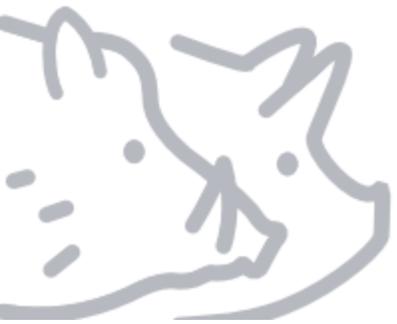


- ▶ There are 18 countries and 2 dependencies in East Africa
- ▶ Seven of East Africa's countries are landlocked countries.
- ▶ Most populous sub region of Africa; Population - 455 million
- ▶ 70% of the population live in rural areas.
- ▶ East Africa has some of the world's fastest growing economies, including Ethiopia, Rwanda, Tanzania and South Sudan

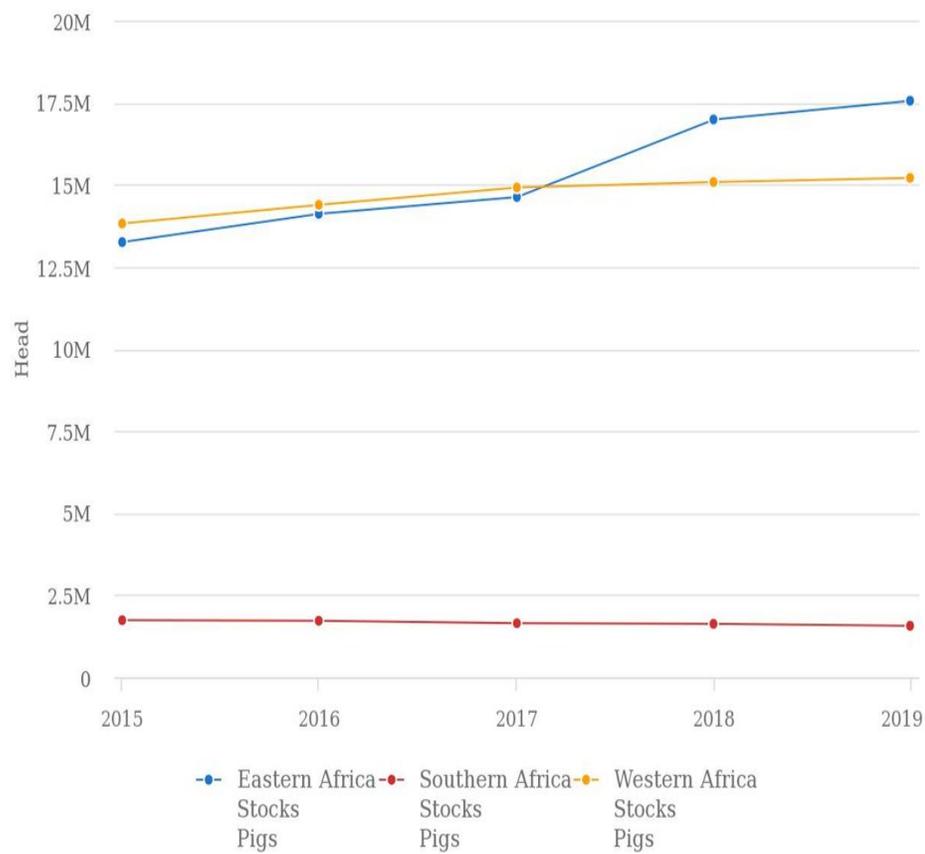


# Demographics of Pig Production in Eastern Africa

- ▶ Pig production is a dynamic and rapidly growing sector in the region.
- ▶ Growth is driven by a rising demand for pork and pork products.
- ▶ Recent estimates indicate that demand for pork and poultry products in East Africa will increase 4-fold by 2030.
  - ▶ Changing tastes
    - ▶ Increasing human population
    - ▶ Increased incomes
    - ▶ Urbanisation
- ▶ Small scale pig farming is the predominant production system > 70%, across the region but it's contribution to improving livelihoods and enhancing food security is limited by frequent disease outbreaks.
- ▶ Breeds kept - indigenous, Exotic or crosses of the 2



# Eastern Africa Pig Population



Source: FAOSTAT (Nov 21, 2021)

Area	Item	Element	Year	Value
Kenya	Pigs	Stocks	2019	596414
Madagascar	Pigs	Stocks	2019	1166555
Malawi	Pigs	Stocks	2019	7283584
Mauritius	Pigs	Stocks	2019	18643
Mozambique	Pigs	Stocks	2019	1635049
Zimbabwe	Pigs	Stocks	2019	298532
Rwanda	Pigs	Stocks	2019	1228465
Seychelles	Pigs	Stocks	2019	4618
Somalia	Pigs	Stocks	2019	3859
United Republic of Tanzania	Pigs	Stocks	2019	523563
Uganda	Pigs	Stocks	2019	2746453
Ethiopia	Pigs	Stocks	2019	36535
Zambia	Pigs	Stocks	2019	1207294
Burundi	Pigs	Stocks	2019	804013

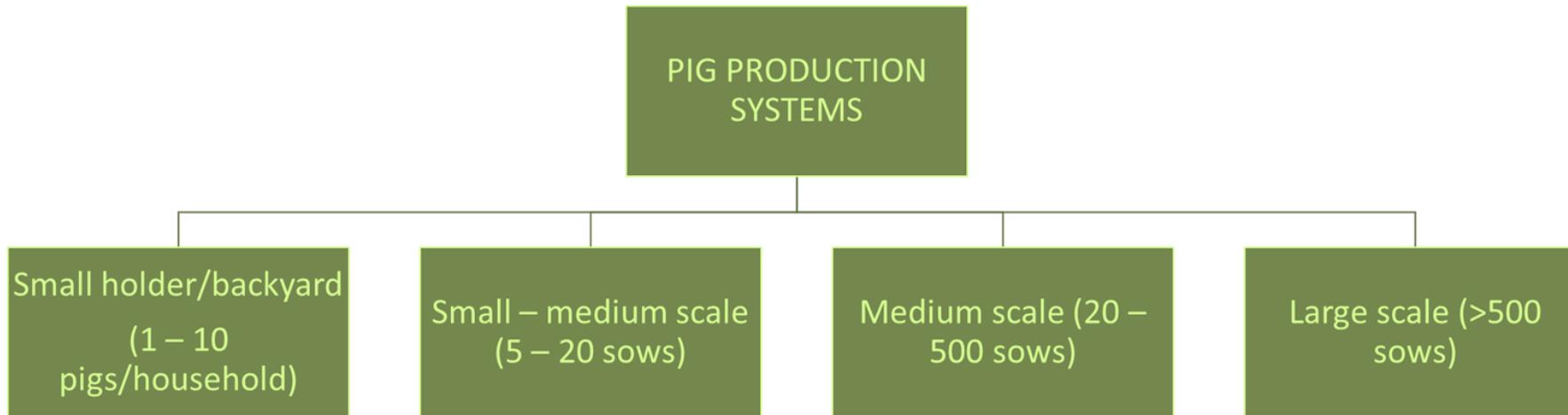


COUNTRY	Total meat production (all species, Tonnes)	Proportionate (%) contribution of each species to total meat production (2015 -2019 average)					
		Chicken	Cattle	Goat	Pig	Sheep	Camel
Burundi	42,631.40	16	35	22	25	2	
Ethopia	684,811	10	50	12	0.3	13	4
Kenya	750,756	10	63	6	2	4	10
Rwanda	105,023	17	31	19	12	5	
Uganda	413,544	16	42	9	31	2	
Tanzania	562,938	14	68	7	3	4	



# Pig Production Systems

Free range/Extensive  
Small - Medium Scale/Semi - Intensive  
Large Scale/Intensive systems





# The Pork Value Chain in Eastern Africa

## INPUT SUPPLY

- Live pigs
- Feed, water
- Vet. and lab Services
- Extension

## PRODUCTION

- Feeding
- Mgt. of the animal

## MARKETING

- Buying (traders, marketing groups)
- Transporting

## PROCESSING

Slaughtering  
Chilling  
value addition  
Packing  
Distribution

## CONSUMPTION

Domestic  
Export

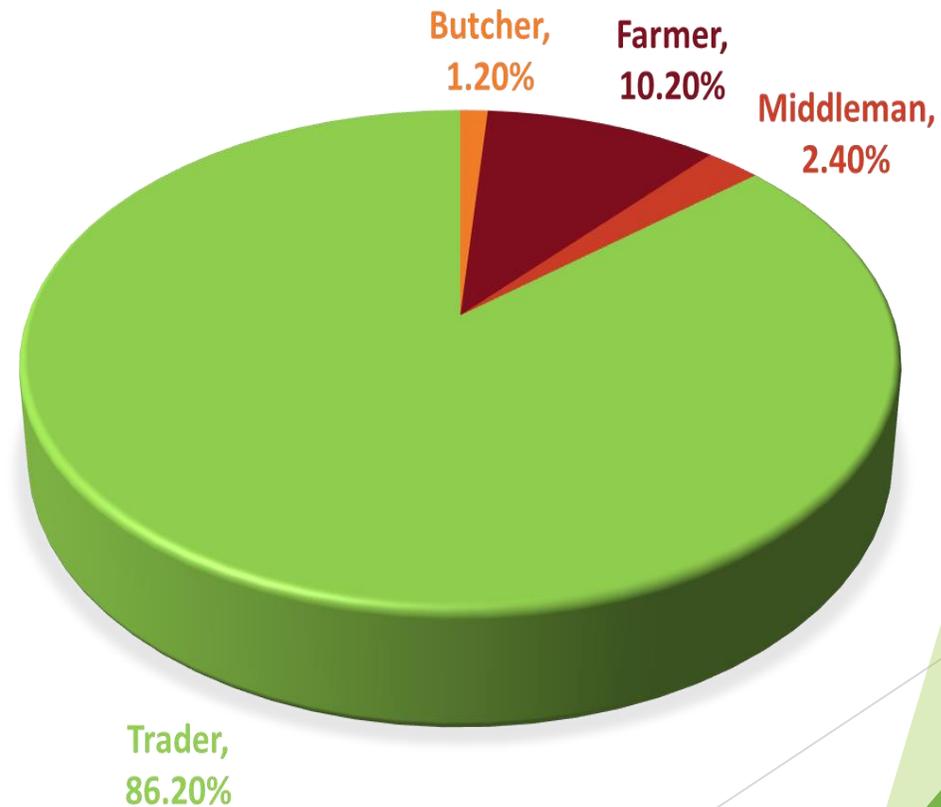


# 1. Free Range (Backyard)/Extensive

- ▶ Less than 10 pigs
- ▶ Pigs left to roam freely and in some cases are housed in the evenings.
  - ▶ Owners don't own land
- ▶ Poor access to Veterinary, Extension, financial and market information services.
- ▶ Poor husbandry and health management practices.
- ▶ Poor genetics characterised by inbreeding - absence of appropriate breeding strategies.
- ▶ Breeding stock/pigs sourced from neighbours.
- ▶ Feed options - scavenging from dumpsites, swill, kitchen leftovers, market spoils.
- ▶ Market weight is low and pigs take long to attain this >10 months
- ▶ Low input and gain
- ▶ High sales occur mostly during festivities or disease outbreaks

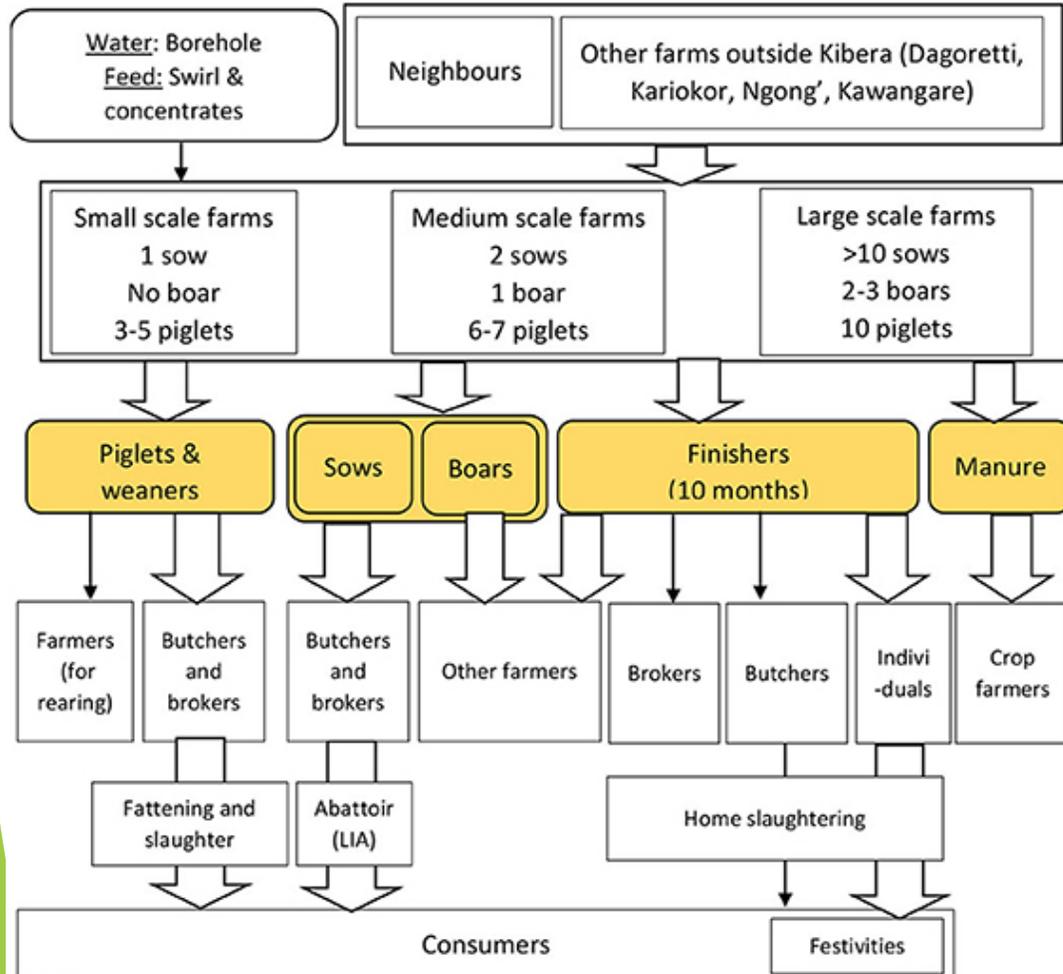


- ▶ Butchers and traders move from homestead to homestead and village to village - fattening &/or slaughter.
- ▶ Transport modes - pick - ups, saloon cars, boda bodas, bicycles.
- ▶ Local slaughter - small to medium size slaughter houses, slaughter slab.
- ▶ Consumption mostly local - pork joints, butchers.

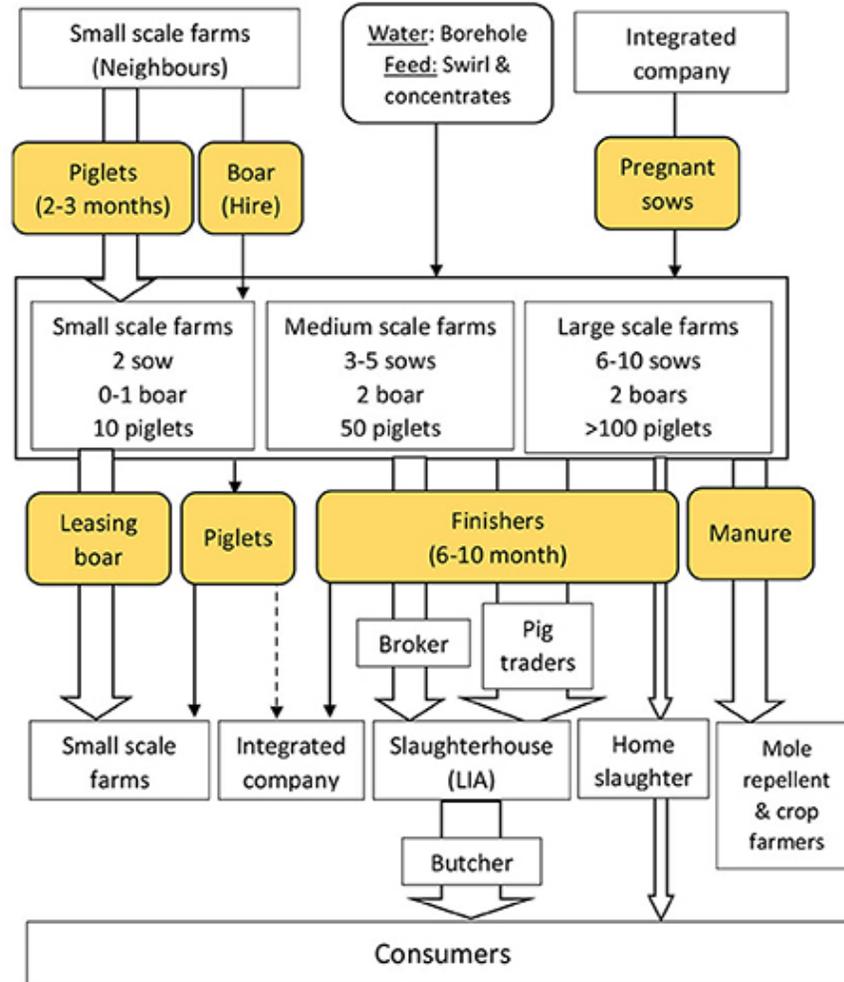


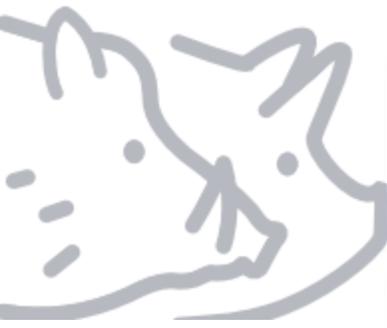
Sources and movements of pigs, the types of people involved and commodities traded. Courtesy - Murungi et al 2021

Kibera pig farms (Nairobi informal settlements)



Dagoretti pig farms (Nairobi peri-urban area)

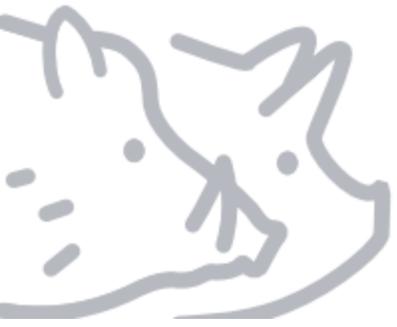




# Transport modes

► Photos courtesy - World Animal Protection





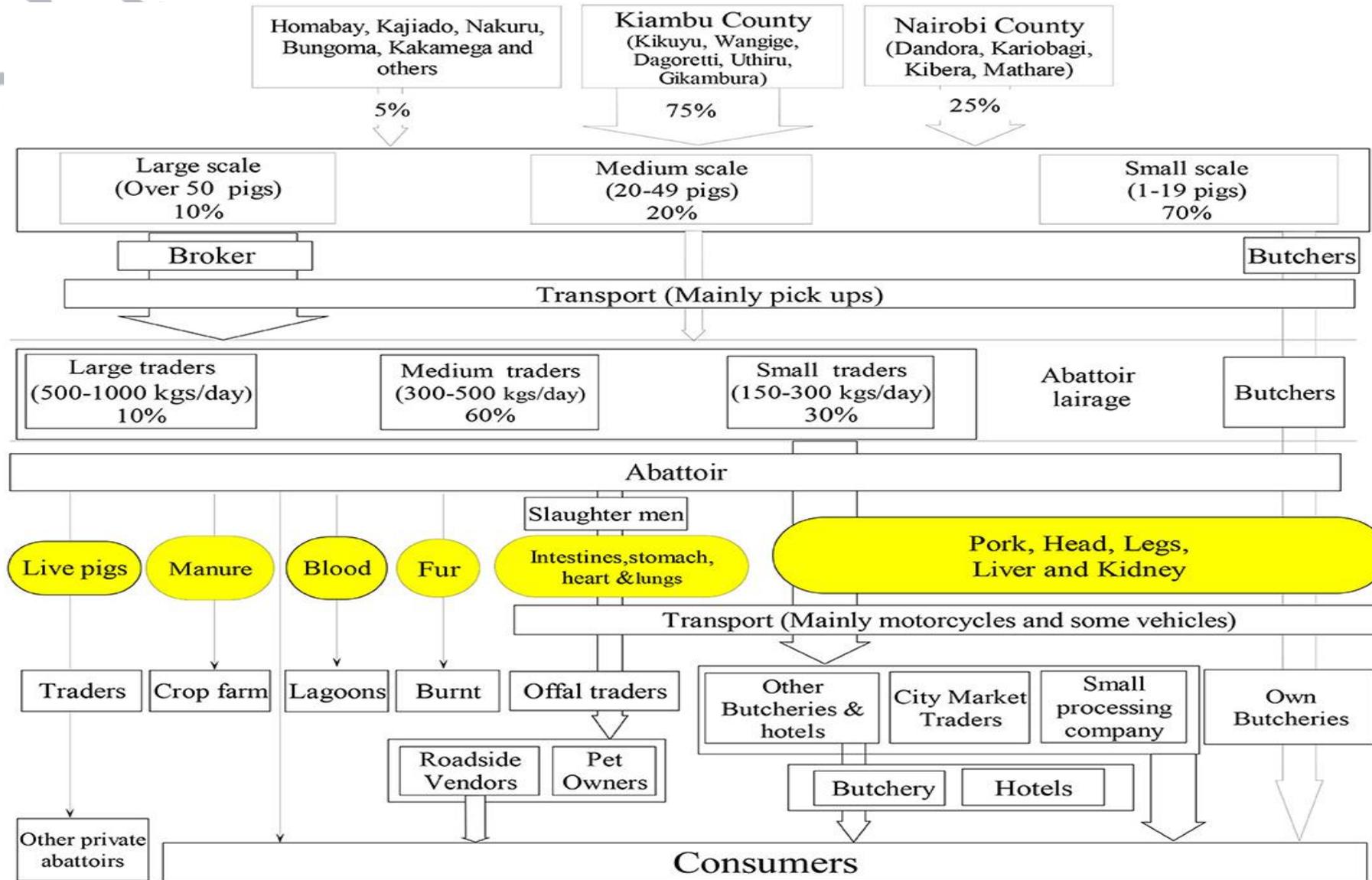
## 2. Small - Medium Scale/Semi - Intensive

- ▶ 5 - 500 sows.
- ▶ Improved genetics, sourced from private and government institutions and sometimes from neighbours.
- ▶ Use of communal boars. A.I in some cases
- ▶ Feed - commercial supplemented with swill/kitchen waste whilst others do their own mixing.
- ▶ Improved husbandry practices coupled with access to Veterinary and extension services.
- ▶ Housing provided - Semi permanent or permanent using locally available materials.
- ▶ Majority are farrow to finish units with a small percentage selling off weaners.
- ▶ Improved access to markets and market information.
- ▶ Higher market weights at a younger age.
- ▶ Better biosecurity knowledge and implementation.



- ▶ Farmers sell directly to slaughter houses or to butchers & traders. May be contracted.
- ▶ Higher number of pigs sourced from one farm.
- ▶ Medium - large size slaughter houses or own slaughter slabs.
  - Lairage - running water - Chillers/Cold rooms - Meat inspection
  - Stunning and bleeding area - Waste management - Trained personnel
- ▶ Transport better organised - Pick ups, trucks.
- ▶ Consumption - local butchers, pork joints, further processing.

Courtesy - Murungi et al 2021









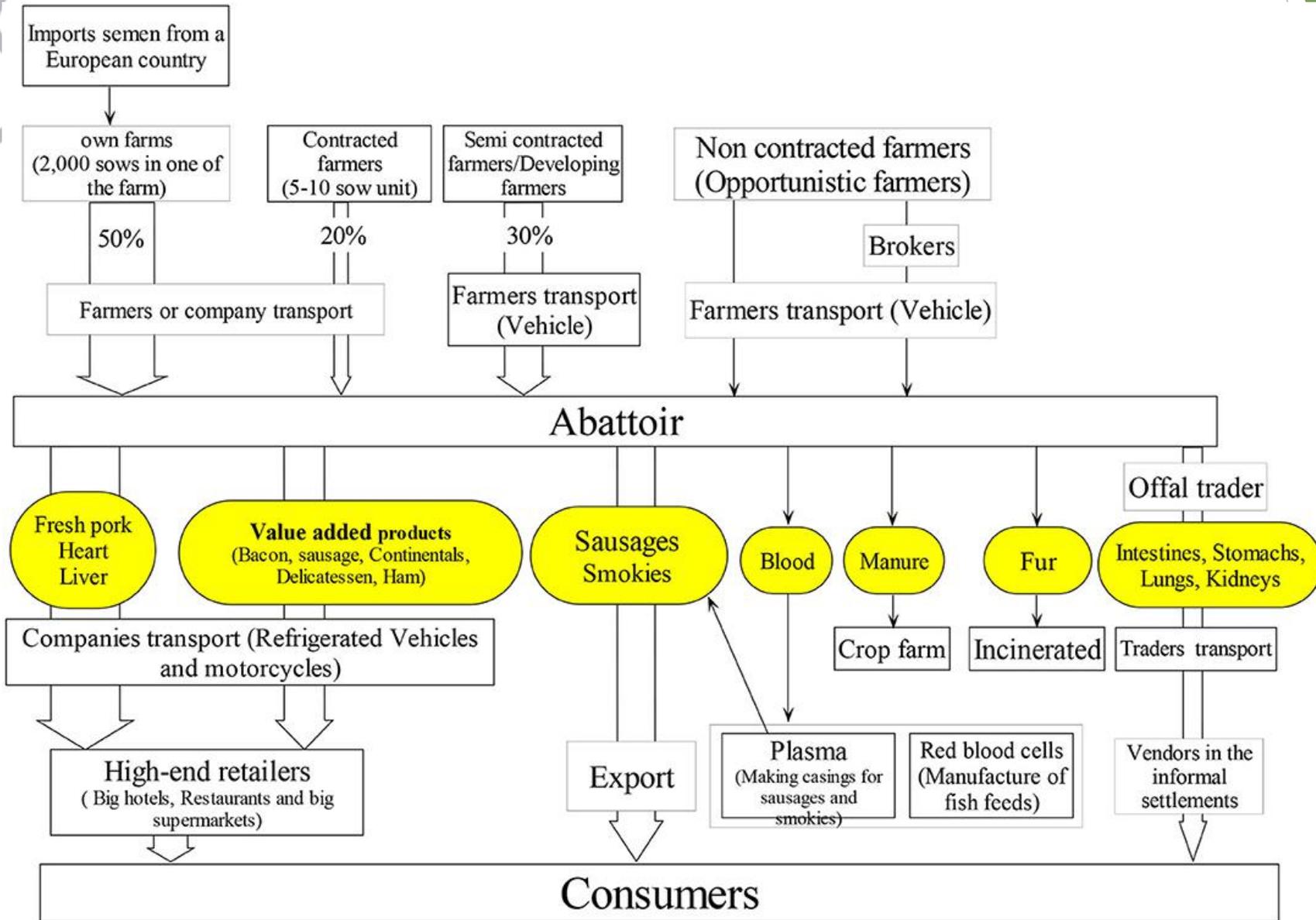
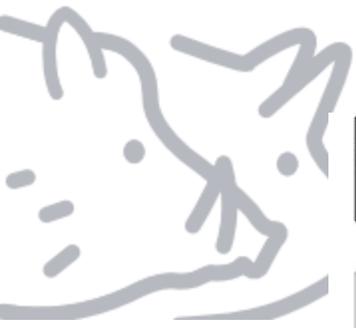
### 3. Large Scale/Intensive Systems

- ▶ > 500 sows
- ▶ World class genetics often imported from Europe with breeding strategies in place.
- ▶ High investments - Modern housing, management, labour, piped & treated water, biosecurity and better gains.
- ▶ Vertical integration common.
- ▶ A.I favoured over natural mating.
- ▶ Feeds - High quality commercial feeds, suited to the different classes of pigs.
- ▶ Access to good veterinary services coupled with high biosecurity leads to low diseases burden and mortality.
- ▶ High market weight at a young age < 6 months.
- ▶ Waste management strategies - manure, carcasses.
- ▶ Structured and better market access.
- ▶ Examples - Farmers Choice Ltd - Kenya, Breeds, Feeds and Meats - Uganda



- ▶ Produce high numbers.
- ▶ Deal with medium - large scale slaughterhouses.
- ▶ Payment done on cold dressed weight after slaughter.
- ▶ Welfare friendly transport, mostly trucks.
- ▶ Value addition - Fresh and processed products.
- ▶ Market - High end retailers (hotels, restaurants, supermarkets), export.

# Sources and flows of pig and pork meat in a nearly fully integrated production system. Courtesy - Murungi et al 2021













**Farmer's Choice**  
Your Guarantee of Quality

# ONJA UTAMU WA Sausage

**!!CRAZZZZZZY OFFER!!**  
ON FRIDAY 27TH

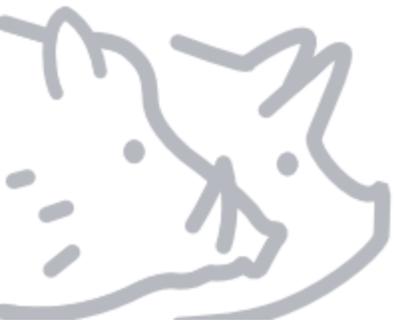
**ONLY KSH. [smiley face] WORTH THE WAIT**

The graphic features a central illustration of a sausage on a silver fork. To the left is a smiling sausage character with red hearts above its head. To the right is another smiling sausage character. In the center is a package of "SAFARI BEEF SAUSAGES" with a price tag of "19". The package also shows a car and the text "500g".



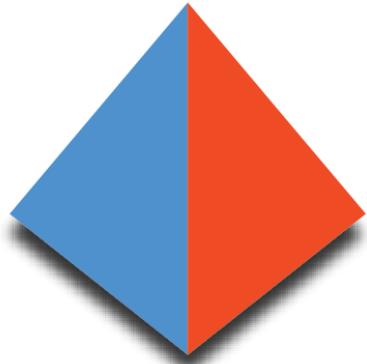
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- ▶ Dione. M, et al 2017: Enhancing Biosecurity along Uganda's Pig Value Chains.
- ▶ Dione et al 2016: Qualitative Analysis of the risks and practices associated with the spread of ASF within the small holder pig value chains in Uganda.
- ▶ Lichoti et al 2017: Pig Traders' Networks on the Kenya Uganda border highlight potential for mitigation of African Swine Fever virus transmission and improved ASF disease risk management
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- ▶ Yamo 2021 - Animal welfare in pig production.



**THANK YOU**





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