

Capturing the African Poultry Investment Opportunity



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Time for Africa

Global poultry markets have been growing for years and this is set to continue—a demand growth of more than 60% is expected over the next 20 years. This leads to significant global investment streams in an industry that is evolving from a national and regional basis to a more global platform. Most recent investments have focused on Europe, the Americas and Asia, driven by bullish market circumstances. Africa has attracted relatively limited investor interest. But this is changing.

Driven by a rising middle class and rapid urbanisation, a more modern poultry industry is taking shape in Africa. The growing middle class is changing its consumption patterns, moving from vegetable-based consumption to a more protein-rich diet.

Supermarkets and Quick Service Restaurants have responded to the opportunity of a rising African middle class, and are expanding across the continent, pulling new investments into the region.

Modern poultry supply chains are attracting investors—with companies usually starting with feed mills and hatcheries and building from there. We see a trend of building a smarter poultry value chain, encompassing breeding, growout farms, and processing facilities. In some cases, companies also invest in distribution, through butcher shops and restaurant chains.

However, capturing this African poultry investment opportunity is not easy. It requires a pioneering spirit, a good market and risk assessment, capable local partners and patience, as investment risks can be high. If done well, the rewards can be large, especially for companies that move early and are well prepared.

Rabobank has built up significant knowledge and experience in the African poultry industry, and is ready to support investors with market and industry assessments, Export Finance, Mergers & Acquisitions activities, leasing, and full-service local banking via Rabobank's network of partner banks in Africa.

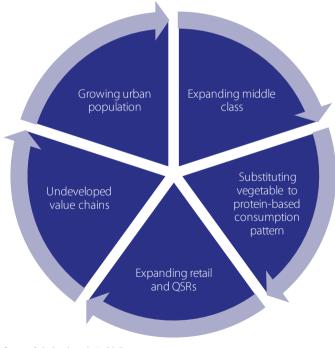






Time for Africa: Benefit from early-mover investment opportunities

The changing investment environment in Africa



Source: Rabobank analysis, 2017

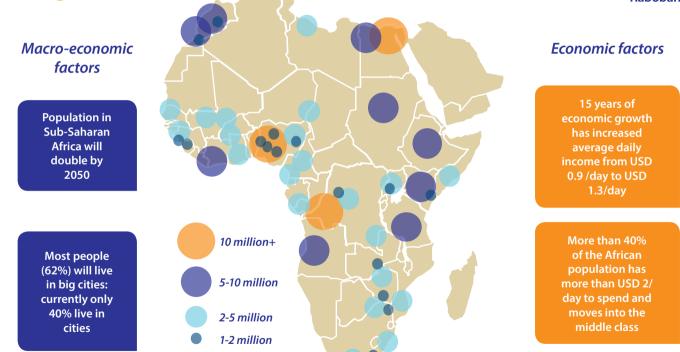
The early investor opportunity:

- Need for new investors to strengthen the grains-to-feed-tomeat value chain
- Compound feed and hatchery as base
- Gradual move to vertically-integrated models: up- and downstream
- Various strategies to reduce business risks in the value chain

Early-mover benefits can be significant

More favourable macro conditions push market change



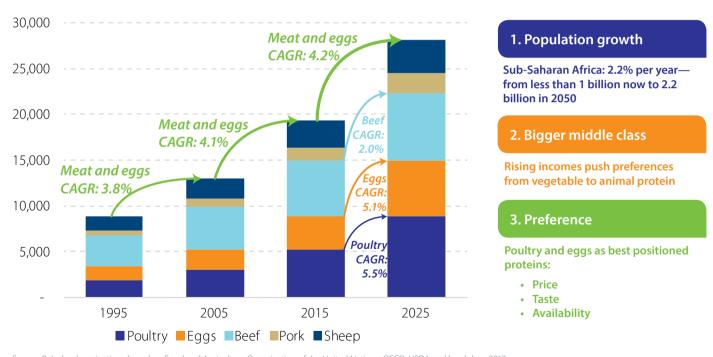


Source: Rabobank analysis based on World Bank and Food and Agriculture Organization of the United Nations, 2017

Feeding Africa's mega cities in 2030 offers significant opportunities

Poultry and egg industry—the key sector to benefit from growth

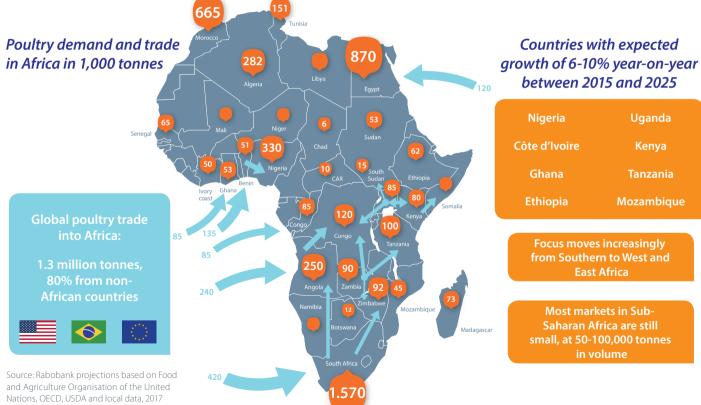
Africa meat and egg market: Poultry and eggs to grow fast



 $Source: Rabobank\ projections\ based\ on\ Food\ and\ Agriculture\ Organization\ of\ the\ United\ Nations, OECD,\ USDA\ and\ local\ data,\ 2017$

Many small, but fast growing, markets in Sub Saharan Africa

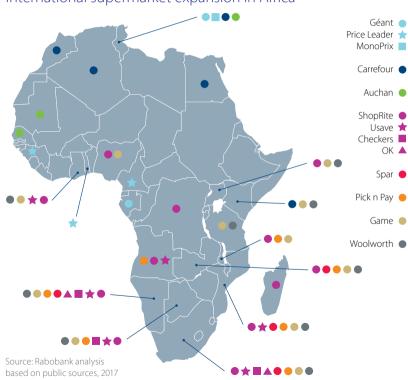




Supermarket and restaurant chains are spreading across the continent



International supermarket expansion in Africa



"Walmart to open more stores in Africa via Massmart"

Financial Times, 2015

Carrefour

Shoprite Group

Spar international

Massmart/Walmart

> Pick n Pay Group

Woolworth

Auchan

"Famous brands continue expansion in Africa"

CNBC Africa, 2015

"KFC to expand in Africa but it lacks only one thing: Chickens"

Financial Times, 2016

Rising opportunities for poultry investors to tap into this market opportunity

Current value chain model needs an upgrade



model:

Sn

Feed

Grains & oilseeds

Breeding/Hatchery

Farming

Traders

Wet markets/Processing

Customer

Smallholders

Old/traditional

Large inefficiency

Small volumes

Live bird focus

Traditional breeding

No cold chain

New/modern model:

Small/ mid sized integrations

> Feed/ breeding base

Bigger volumes

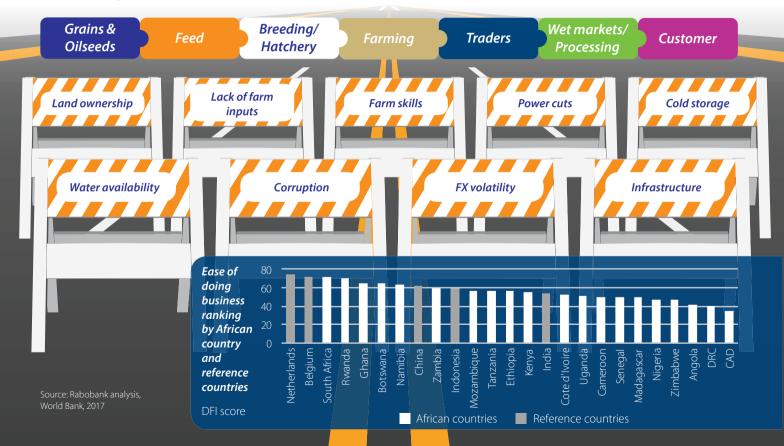
Modern breeding

New cold



The challenges in Africa are significant, but rewards can be big

A pioneering spirit plus a well prepared business analysis and plan is essential



Feed grains: still dependence on imports but big upside



Sub-Saharan Africa wheat self-sufficiency still low:

Wheat: 24% Corn: 94% Soybeans: 95%

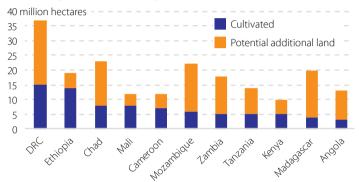
Investing in feed mills and feed grain supply:

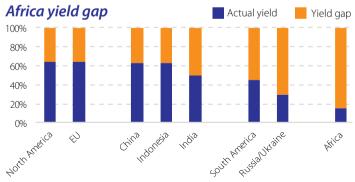
- · Highly dependent on local agricultural policy?
- Is it a staple food?
- Is the country landlocked?
- · Are adequate farm inputs available?

Strong grains to feed supply chain upside:

- More stable and homogenous quality/supply
- · More efficient supply: better prices
- Take away middlemen margins

Africa's potential to expand farmland





Source: Rabobank, Food and Agriculture Organization of the United Nations, 2017

Breeding: fast shift to modern breeds, but how to create scale?



Modernising the breeding value chain in Africa

Source: Rabobank, 2017

Traditional breeding Modern breeding

Now

Future

- Shift from importing hatching eggs and DOC to parent stocks
- Establishing more PS and GPS farms, but scale is required

- Need to identify the most appropriate hubs for production
- Lack of skills: need for training and education

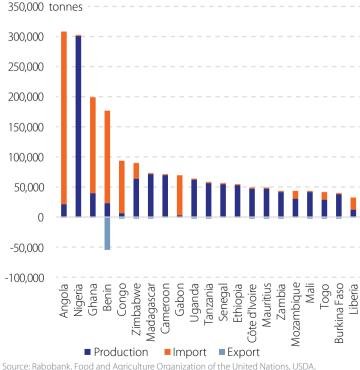
Poultry processing: Up-scaling and investments in cold chains





The future of trade

Imports: Mainly west coast, but changing focus



Source: Rabobank, Food and Agriculture Organization of the United Nations, USDA national statistics. 2017

Intra-African trade streams: Limited but growing

Limited intra-African trade

 Relatively limited intra-African trade of 250,000 tonnes (<5% of the market) compared to 1.3 million tonnes of imports from non-African countries

Why is trade so limited?

- · Tariff and non-trade barriers
- · Lack of a cold chain, focus on live bird markets
- · Weak infrastructure

Potential trade hubs

- · Southern Africa: Zambia and Angola
- · Eastern Africa: Kenya and Uganda
- · West Africa: Ghana and Benin

Imports: More protection, but how sustainable?

2015: Benin bans poultry imports

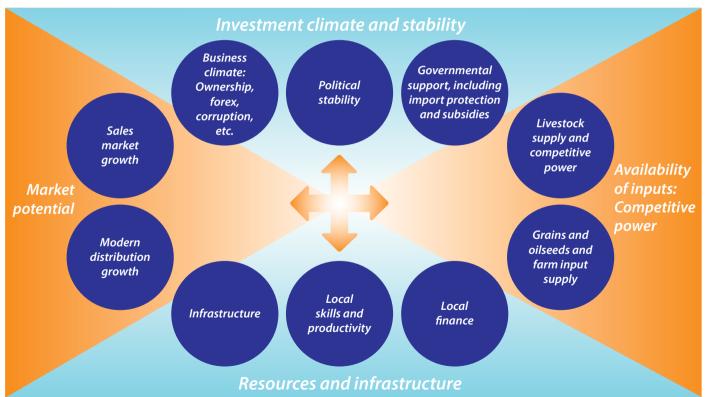
2015: Nigeria improves border control for imports

2015: Angola introduces quota system for food production, including eggs

2016: Ghana regulates imports

Capturing the African opportunity: The Rabobank investment model





How to set up a successful business model in Africa: the value chain



How to invest in Africa: Lessons to be learned



Lessons for successful investors in Africa



Gradual approach is necessary

Most successful investments in Africa start with a feed mill and/or a hatchery and build a successful business from this base

Depending on local market conditions, the next step could be to invest in the supply of feed grains (farm land) and genetics (breeding farms) or to invest downstream in processing and farming to supply retailers

Adjusting to the local market conditions is essential and JVs are often a good approach. Developing local skills throughout the value chain is key

Source: Rabobank analysis, 2017



Capturing the African investment opportunity: Conclusions

Sub-Saharan Africa offers exciting business opportunities for companies with a pioneering spirit.

The poultry industry is in a fast growth mode and evolving from a traditional to a more modern business structure, which offers investment opportunities for companies in several areas:

- Meat processing: Developing a modern poultry value chain
- Breeding: Establishing a modern breeding supply chain
- **Equipment:** To supply the right equipment for the growing, more modern, industry
- Animal nutrition: Set up feed mills to supply more modern compound feed, distribute premixes and additives

The modern distribution growth offers a great entrance platform, but business models should not depend too heavily on a narrow business segment. Optimal market, business and risk assessment is key when investing in Sub-Saharan Africa as risks can be significant.

Rabobank has built up strong knowhow and a good track record when it comes to this type of investment decision. The bank is willing to sharing its knowledge and network with companies who want to benefit or develop business in Africa, along with offering the most appropriate financial products to support company growth.

Rabobank's footprint in Africa



Norfund, FMO and Rabobank are establishing *Arise*: a new investment and development company under joint ownership

Rias Advisory Arise shareholdings Rabobank in partner banks Office SRB Africa Support Wholesale Clients in Africa Flying International Desk • Support to SME clients in Africa

Rabobank

Arise will take and manage strategic minority stakes in Financial Service Providers (FSPs) in Sub Saharan Africa with the goal to develop these institutions into strong, operationally stable FSPs serving the strategic goals of Arise

	Shareholdings in partner banks in East and Southern Africa	FTEs	Branches	Balance Sheet
	Bank of Africa Group ~10%, listed 5,800 500 328.6m Retail, SME and Corporate clients in Mali, Niger, Senegal, Burkina Faso, Côte d'Ivoire, Ghana, Togo, Djibouti, Ethiopia, Uganda, Kenya, Burundi, Tanzania, Madagascar, DRC			
	Banque Populaire de Rwanda 38%, private Retail, SME and Corporate clients	1,407	192	159.6m
	National Microfinance Bank, Tanzania 35%, listed Retail, SME and Corporate clients	3,163	175	1.1bn
	BTM, Mozambique 52%, private Retail and SME clients	184	9	47.4m
	DFCU, Uganda 55%, listed - Retail and SME clients	727	45	247.5m
	Equity Bank, Kenya 12%, listed Retail, SME and Corporate clients in Kenya, Tanzania, Uganda, Rwanda, South Sudan and DRC	8,043	226	4.2bn
	Zanaco, Zambia 46%, listed Retail, SME and Corporate clients	1,361	66	333m
	Socremo Microfinance Bank, Mozambique 36%, private - Retail and SME clients	359	14	1.4bn
	NMBZ, Zimbabwe 18%, listed Retail, SME and Corporate clients	346	21	333m
	Real People, South Africa 16%, private Retail and SME clients in South Africa, Kenya, Tanzania and Uganda	1,600	22	265.4m

Export finance

- Financing of imports and exports of capital goods, mainly under Export Credit Agency ('ECA') cover:
- Servicing of clients of Rabobank member banks, Dutch wholesale clients, international food & agri clients and trade & commodity clients worldwide;
- · Usually structured on a corporate basis or recourse basis;
- Maturities up to 12 years post construction in combination with favourable financing terms and conditions;
- · Dedicated Africa team of 2 FTE.





Time for Africa

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Our 80 analysts are specialists with solid, in-depth knowledge in their individual sector—ranging from grains and oilseeds to dairy, vegetables, fruit and floriculture, coffee and cocoa, and global F&A supply chains.

























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