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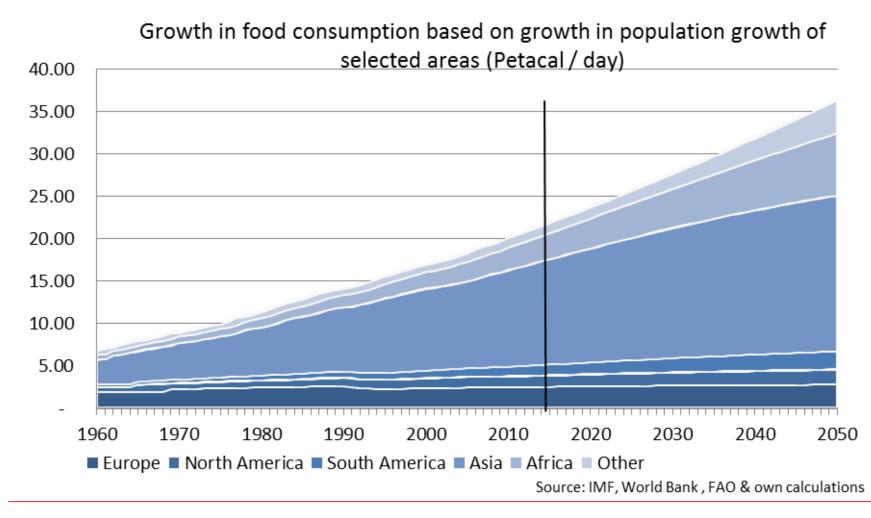
Presented By Ernst Janovsky

28 October 2014

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Global food consumption in the next 40yr's is to exceed total food production of the last 500 years

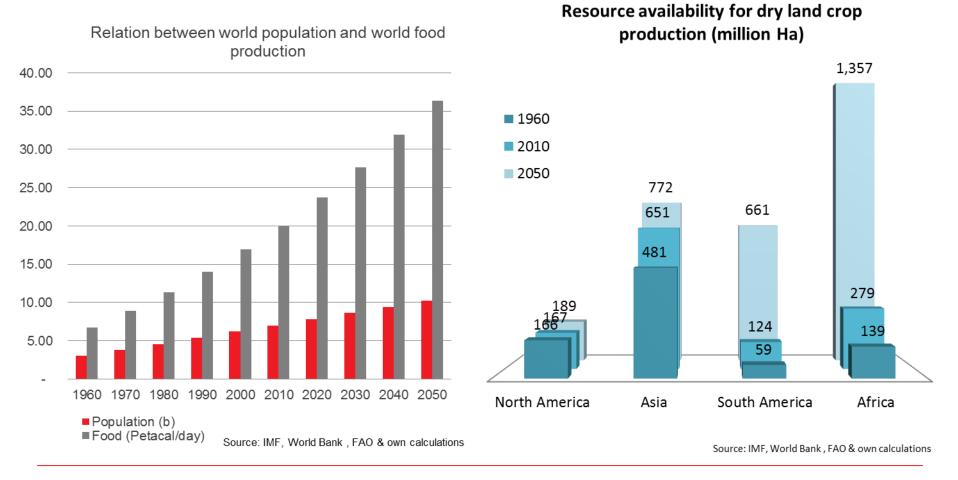






Demand for food outstrip prediction based on population growth

Growth in demand can easily be met by unlocking production growth in Africa and South America.

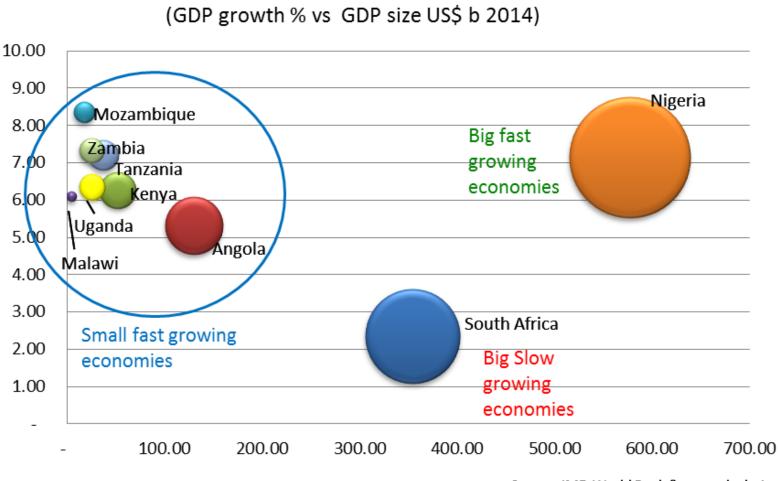






Investment opportunities in Sub-Sahara based on the economic prospects

Sub -Sahara countries economic prospects



Source: IMF, World Bank & own calculations

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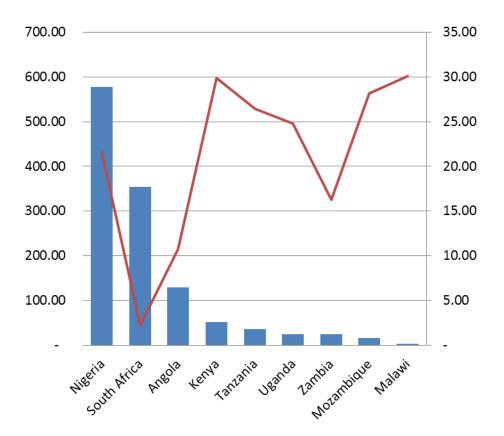


Investment in agriculture needs to be match to investment in infrastructure

Other factors to consider before investing

- Asset Management Risk (access to title or asset through leasehold)
- 2. Operational risk (ease of doing business, accesses to inputs etc.)
- 3. Marketing risk (Market access, Price discovery, Government intervention etc.)

Relation between 2014 GDP (US\$ b) and Agricultures contubution to GDP (%)

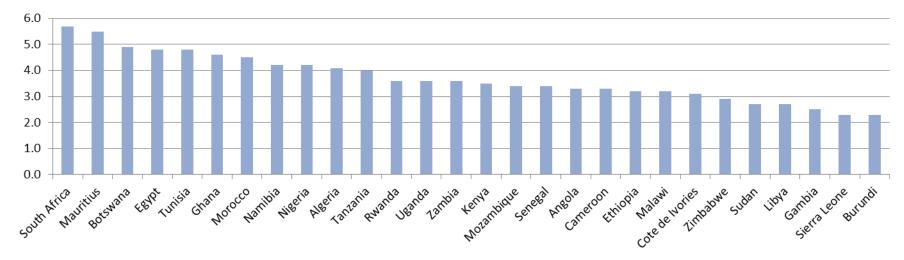




Investment risk rating (PESTLE) for selected Africa countries

PESTLE anilist	South Africa	Mauritius	Botswana	Egypt	Tunisia	Ghana	Morocco	Namibia	Nigeria	Algeria	Tanzania	Rwanda	Uganda	Zambia	Kenya	Mozambique	Senegal	Angola	Cameroon	Ethiopia	Malawi	Cote de Ivories	Zimbabwe	Sudan	Libya	Gambia	Sierra Leone	Burundi
Political	6.9	7.0	7.7	4.5	4.8	5.5	5.1	6.1	3.9	5.3	5.4	1.7	4.5	5.4	3.9	4.5	5.5	4.7	4.3	4.0	4.8	4.1	2.7	2.2	2.8	1.7	1.4	1.5
Economic	5.1	4.1	3.8	5.2	4.6	4.0	4.3	3.5	4.6	4.3	4.2	3.5	3.9	3.9	4.0	3.8	3.3	4.2	3.5	3.6	3.1	3.6	2.5	3.1	3.2	3.2	2.5	2.5
Social	3.3	3.6	2.4	4.3	3.6	3.9	3.5	2.4	3.3	2.7	2.5	1.9	2.2	2.2	3.2	2.3	2.6	1.8	3.0	2.3	2.2	2.1	3.4	2.8	3.0	1.4	1.6	1.6
Technology	6.0	7.0	4.9	6.9	7.0	4.5	7.2	4.7	4.0	6.7	2.7	1.7	2.4	2.4	3.3	1.9	4.1	3.0	3.5	1.5	1.6	3.9	4.1	2.0	6.7	2.9	1.4	0.6
Legal	6.7	7.9	6.2	4.4	6.1	6.0	4.2	5.1	4.5	3.0	4.7	8.1	4.4	4.4	3.6	3.9	2.5	2.3	2.7	3.8	3.9	2.4	2.8	3.5	0.0	3.4	3.9	4.6
Environment	5.8	1.7	1.9	3.8	2.1	2.6	2.6	2.5	4.2	3.8	2.4	1.3	1.9	1.9	2.0	2.3	1.6	2.8	2.3	2.2	1.5	2.3	2.8	2.3	2.9	1.4	1.7	1.2
Total	5.7	5.5	4.9	4.8	4.8	4.6	4.5	4.2	4.2	4.1	4.0	3.6	3.6	3.6	3.5	3.4	3.4	3.3	3.3	3.2	3.2	3.1	2.9	2.7	2.7	2.5	2.3	2.3

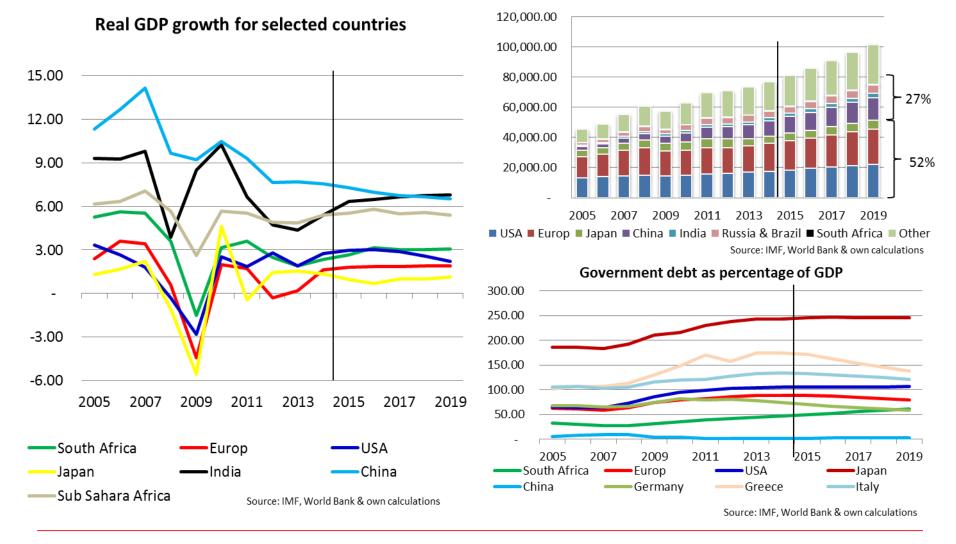
PESTLE score per countery (1=high risk 10 = low risk)







Global demand shifts immanent if GDP growth is used as indicator of expected demand growth.

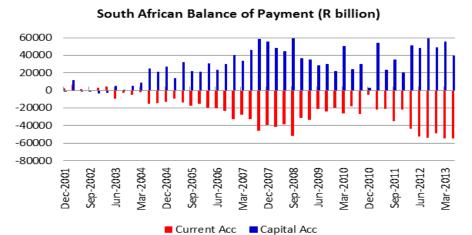


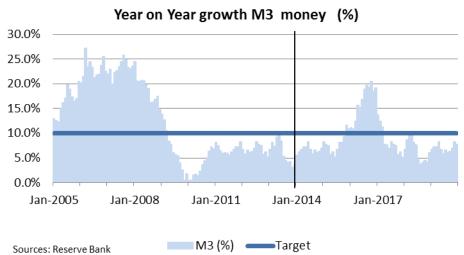
World GDP for selected countries

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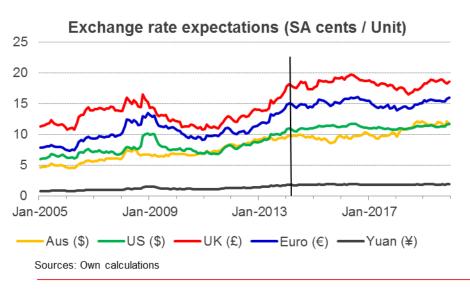


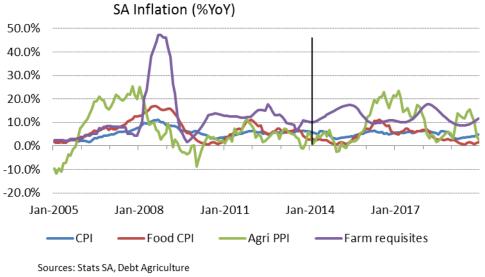
Market sentiments drive exchange and interest rates and market volatility





Sources: Reserve Bank

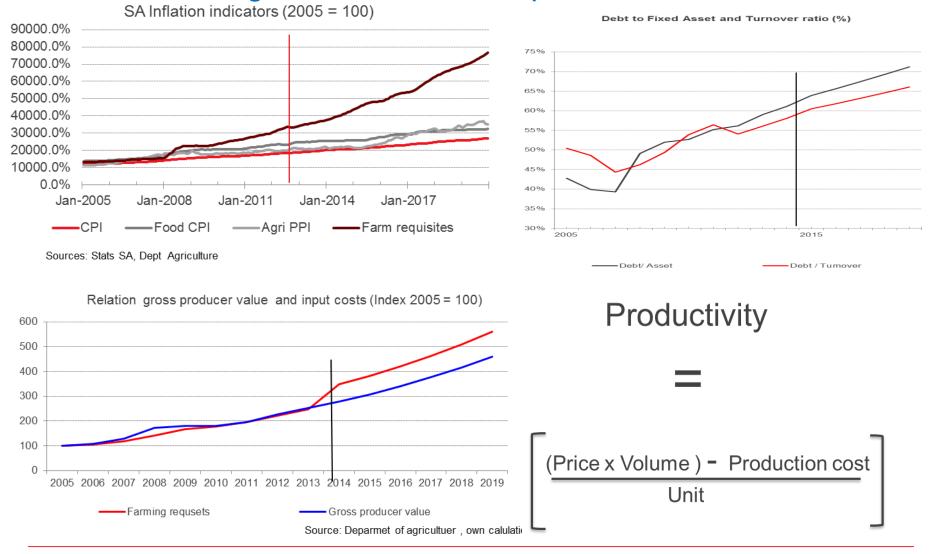




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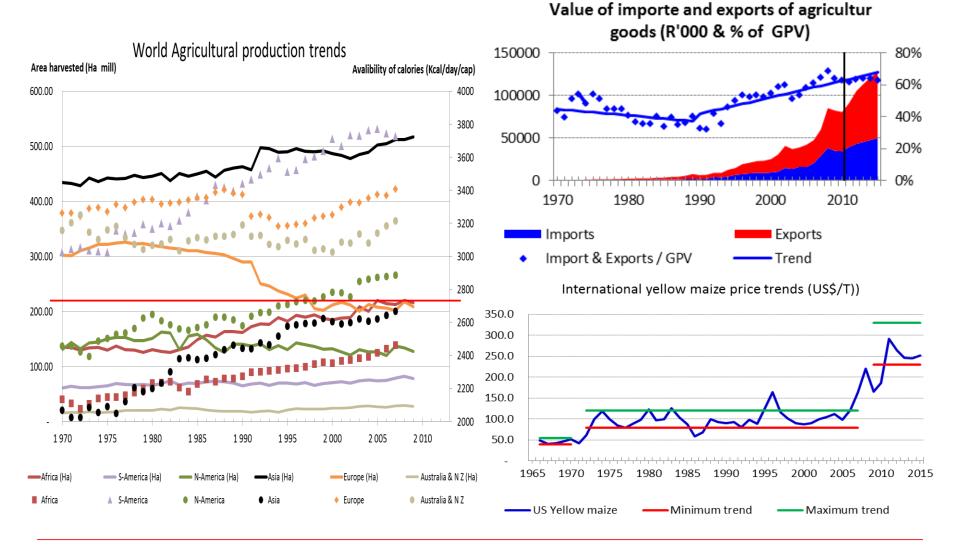
Constant improvement in productivity is needed independent of the farming method to remain profitable.







Producers do not have any control over price and are deemed to be price takers







Domestic price volatility is the net result of domestic supply and demand trends with in the boundaries of import and export parity prices

Import parity price =

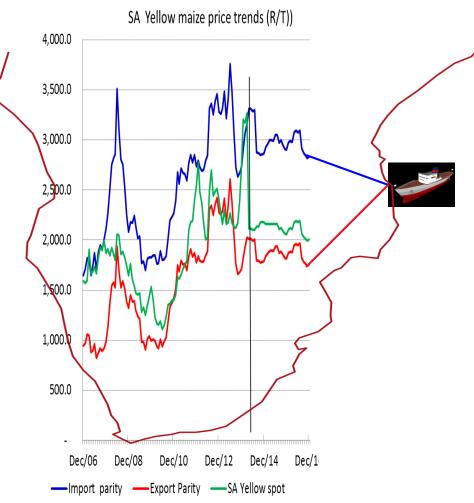
World price x Exchange rate

- + Unload costs
- + Tariff
- + Transport Cost
- + Importer's margin
- + Shrinkage and Spillage

Export parity price =

World price x Exchange rate

- Upload costs
- Transport Cost
- Exporter's margin
- Shrinkage and Spillage







Through productivity increases, Farming Enterprises can continue to remain profitable in spite of a Cost Curve

- 1. Demand technology
 - Taste enhancement / Packaging / Presentation / Time value enhancements
 - Variety, safety and convenience is taken as a given
- 2. Storage technology
 - Improved shelf life
 - Dairy UHT
 - Apples CA treatment 18mth
 - No more seasonality
- 3. Information technology
 - Connectivity
 - Precision farming Effective utilization of inputs
 - Measurement and efficiency Management
 - Positioning of seed
 - Automation tractors, dairy etc.
 - Here now attitude / instant gratification

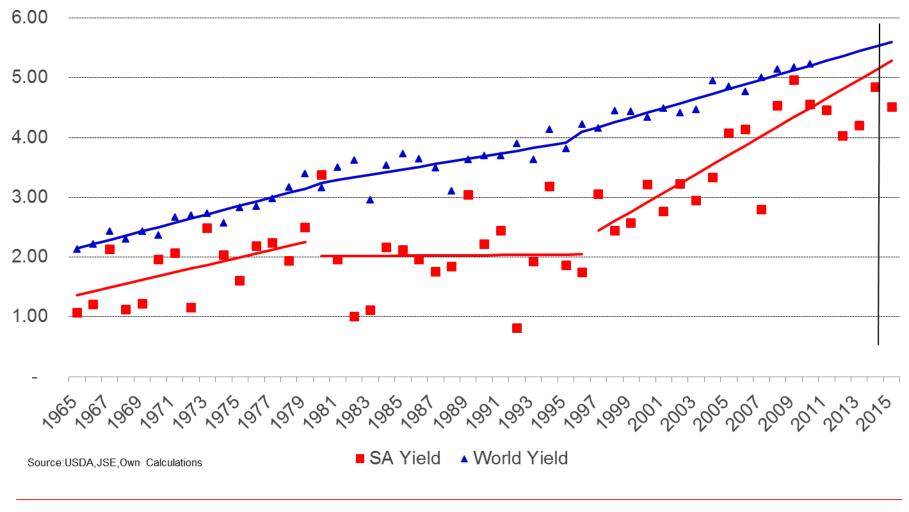
- 4. Energy efficiency and Transport
 - World is becoming a smaller place
 - No till 12-17L/ha
 - New efficient tractors
 - Green energy applications
 - Delivery just in time
- 5. Production technology
 - Biological farming
 - Bacterial soups
 - Organic and Chemical
 - Genetic technology
 - Selection via gene traits
 - Manipulation of genes
 - Improved Efficiency's
- 6. Economy of scale
 - Size efficiency





Maize productivity improvement through yield improvement

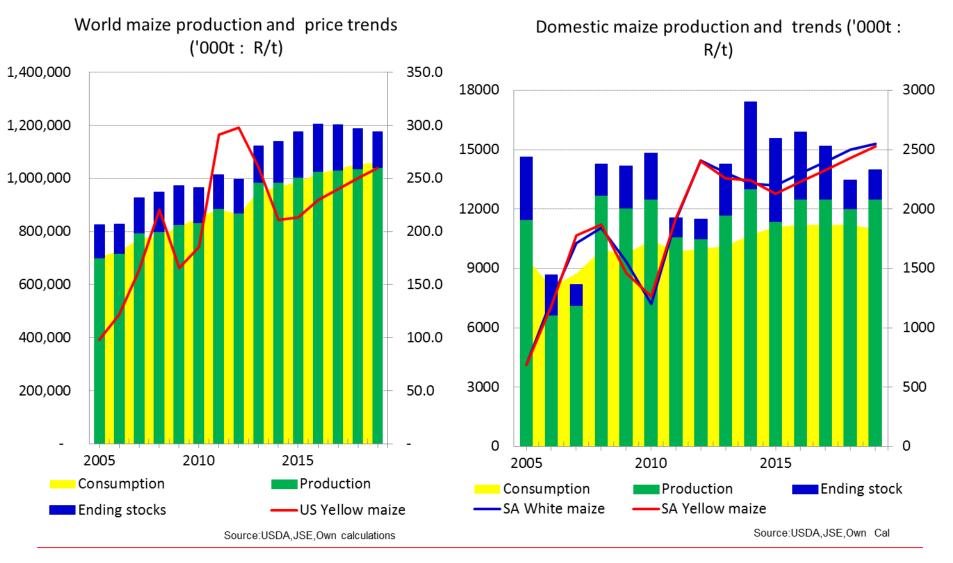
Maize yield trends (t/ha)







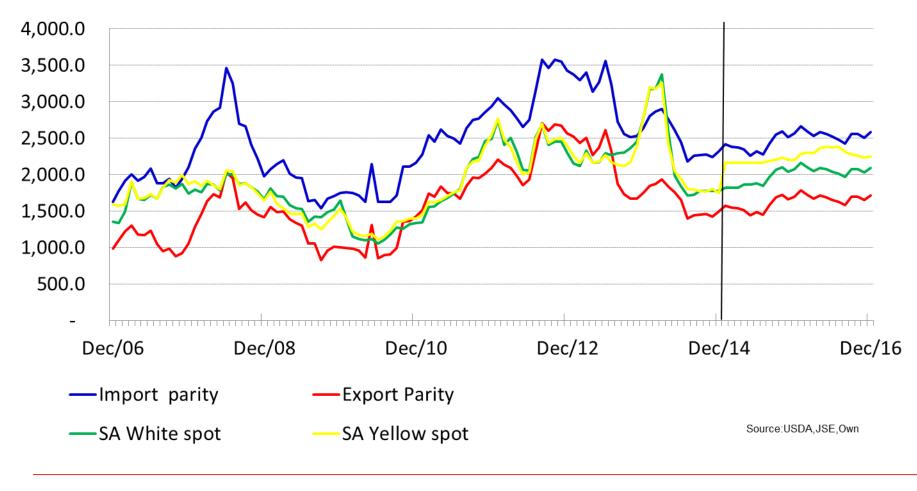
International and domestic long term maize outlook







Domestic short term maize outlook

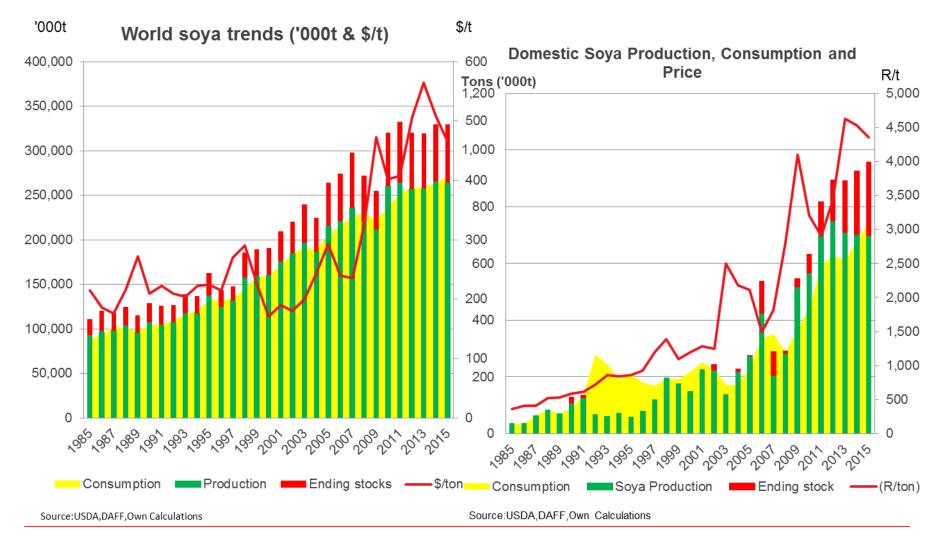


SA White and Yellow maize price trends (R/T))





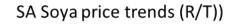
World and domestic soya trends





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Domestic Oil seed price outlook

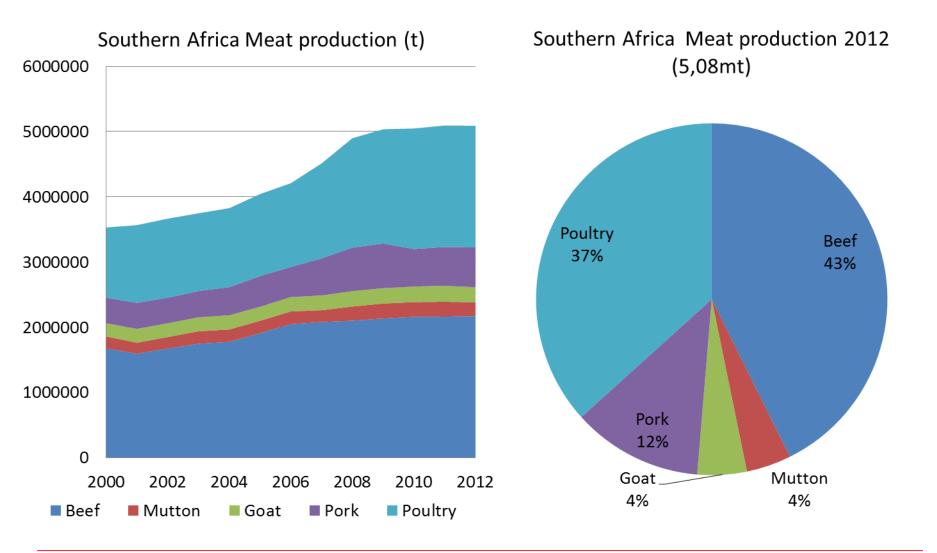






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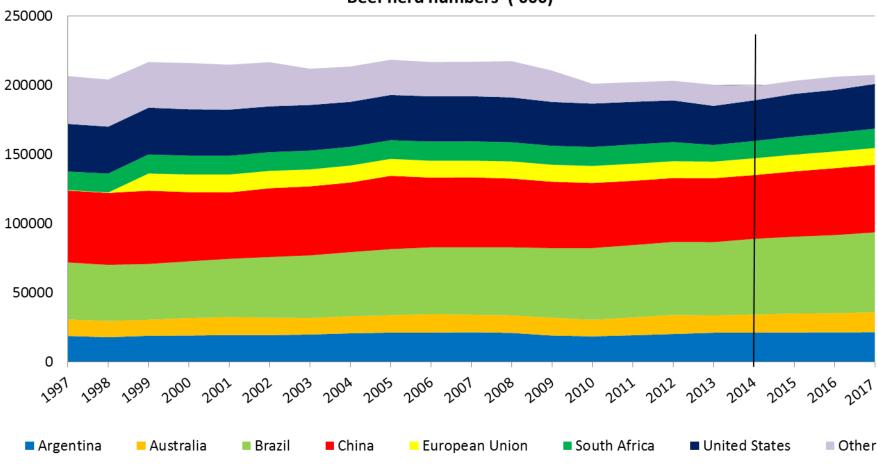
Southern Africa livestock meat production trends







World Cattle numbers

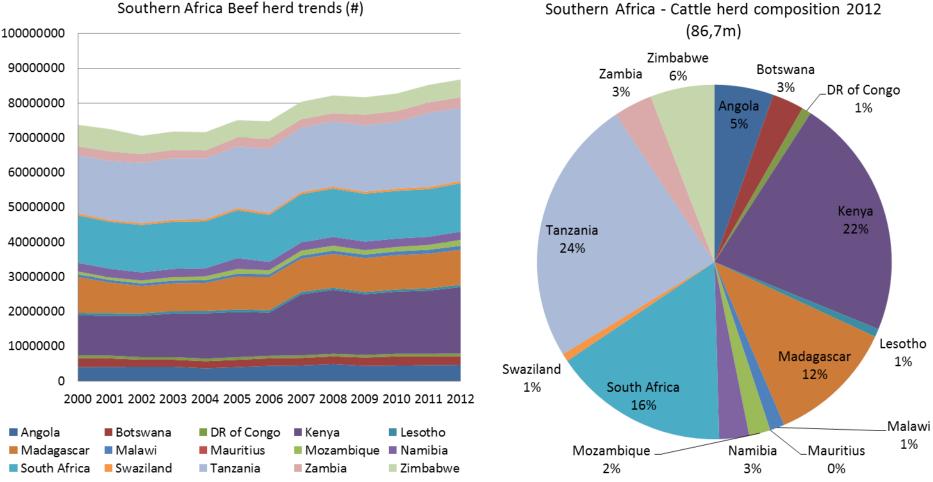


Beef herd numbers ('000)





Sothern Africa Beef herd numbers



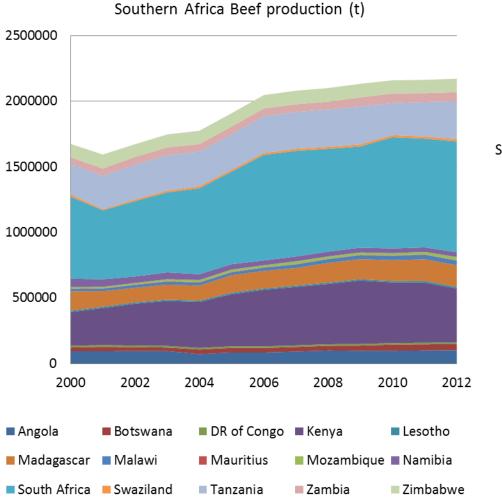
Southern Africa - Cattle herd composition 2012







Southern Africa beef production

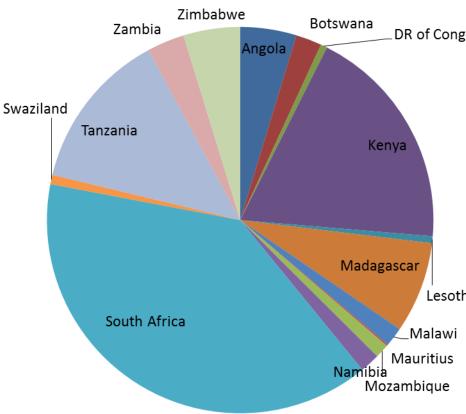


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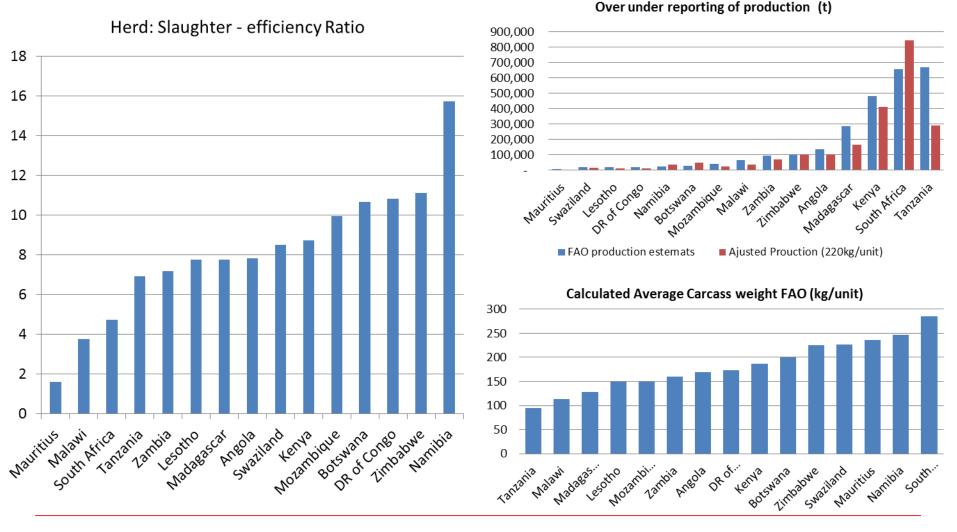
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Southern Africa - Beef production 2012 (2,17mt)





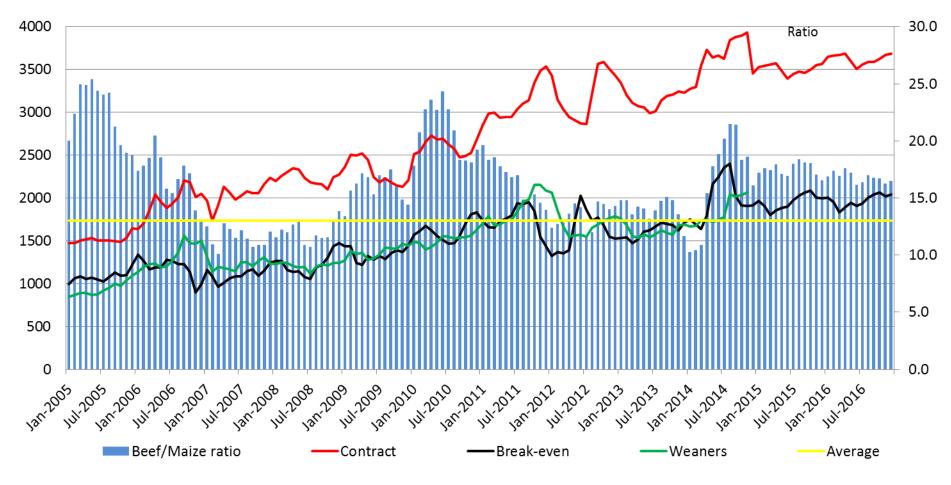
Southern Africa beef herd efficiencies ratios as well as over and under reporting of production trends







Beef price outlook

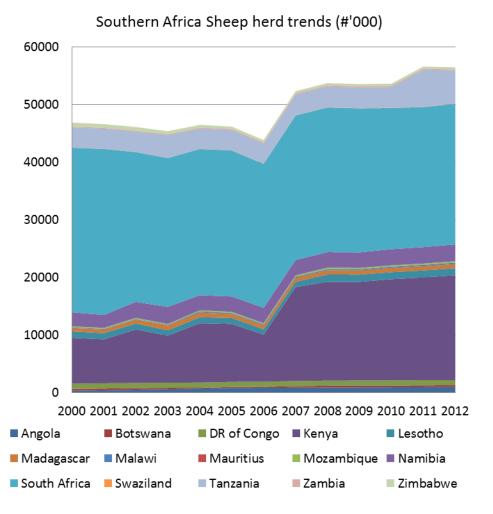


Relationship between maize & weaner calf prices





Southern Africa Sheep Herd trends



1% 2% 0% 2% 1% Swaziland 0% Tanzania 10% Kenya 32% South Africa 43% Madagascar Mauritius 1%

Southern Africa - Sheep herd composition 2012

(56,5m)

Botswana

Zambia Zimbahyela

0% Malawi Namibia J Mozambique 0% 5% 1%



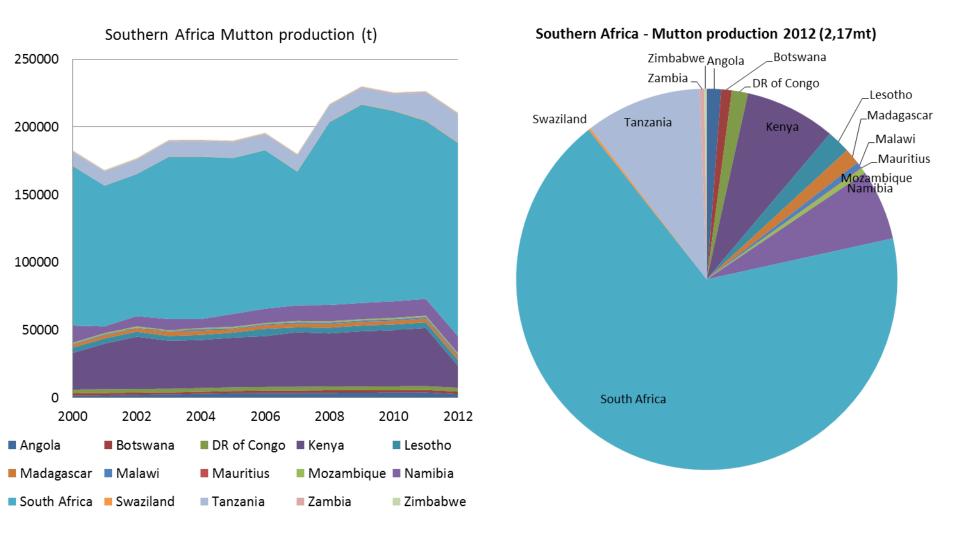
DR of Congo

Lesotho

2%



Southern Africa Sheep Production trends

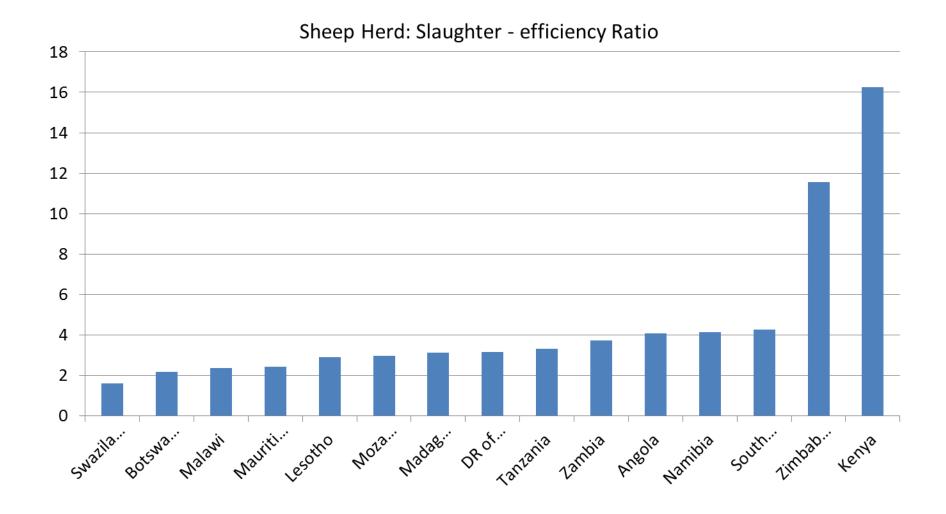








Southern Africa Sheep herd efficiencies ratios

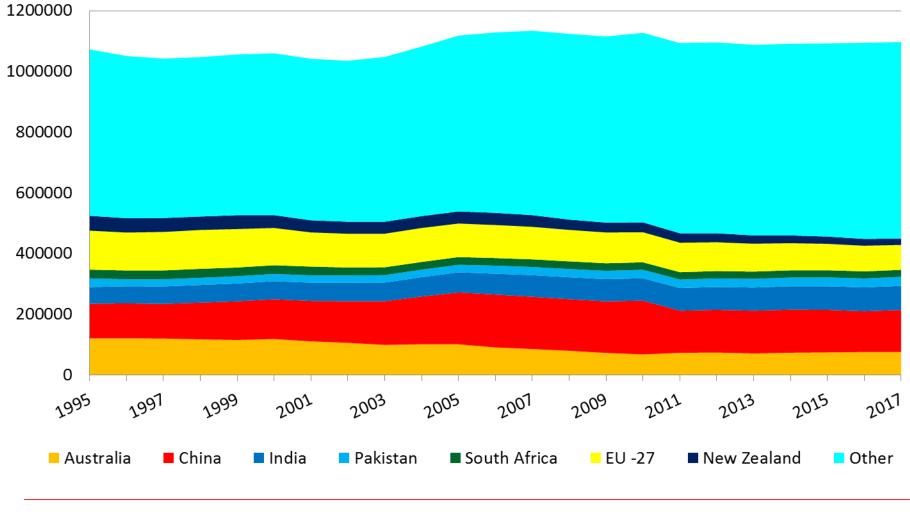






Sheep herd numbers

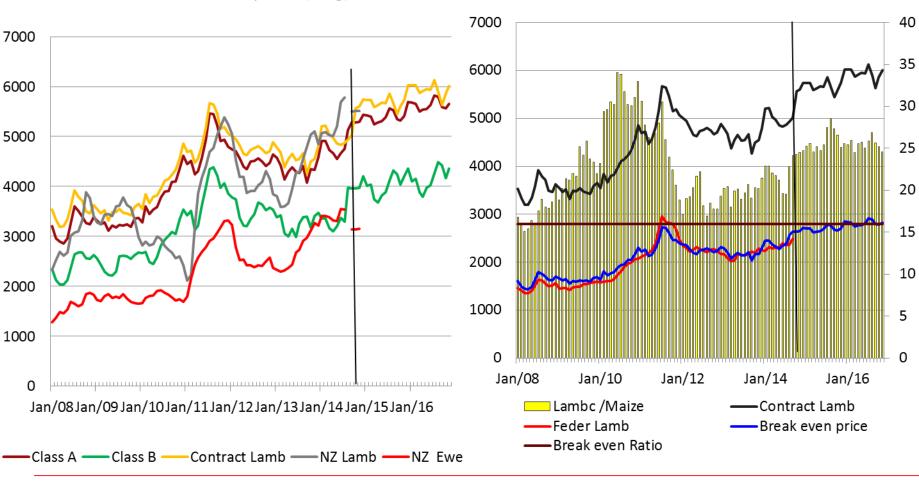
World Sheep numbers ('000)







International Mutton price trends



Domestic Mutton prices (c/kg)

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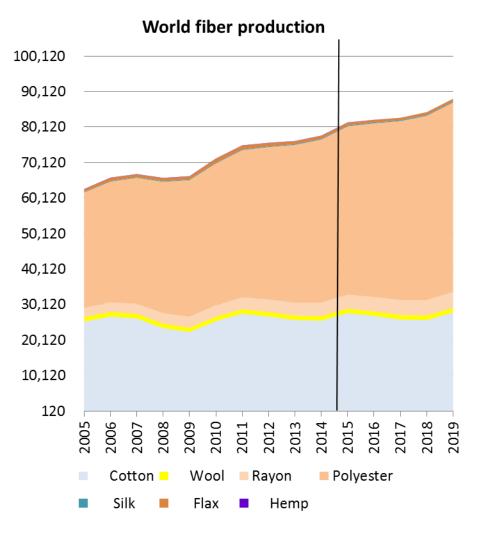
BARCLAYS

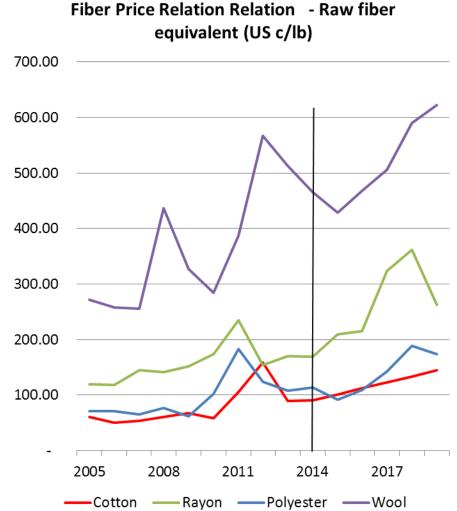




Relationship between mutton and maize priceprice (c/kg) price ratio

International fibre outlook









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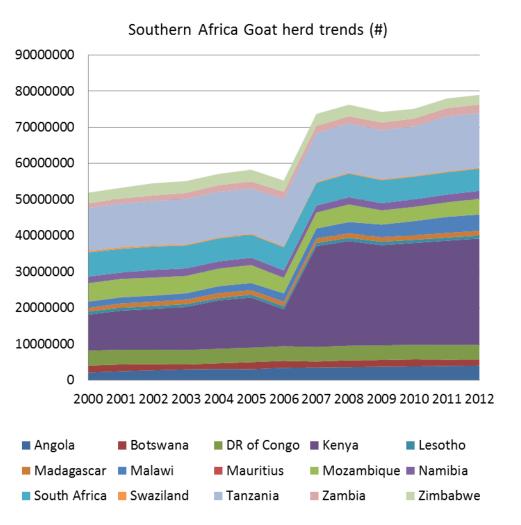
Wool price outlook

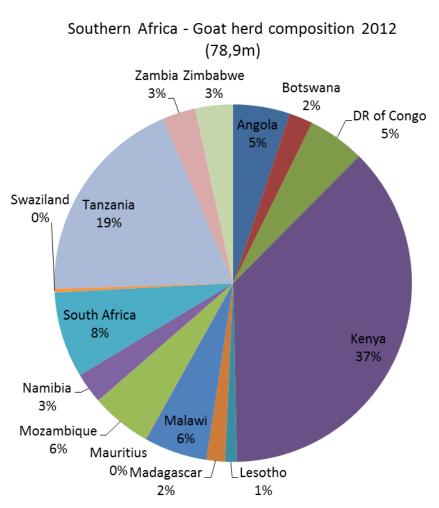






Southern Africa Goat Herd trends

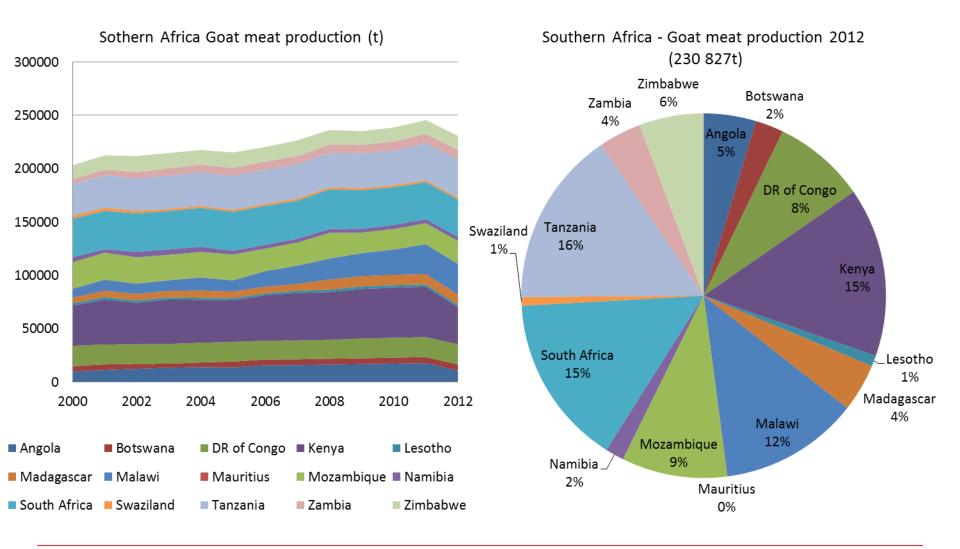






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Southern Africa Goat Production trends

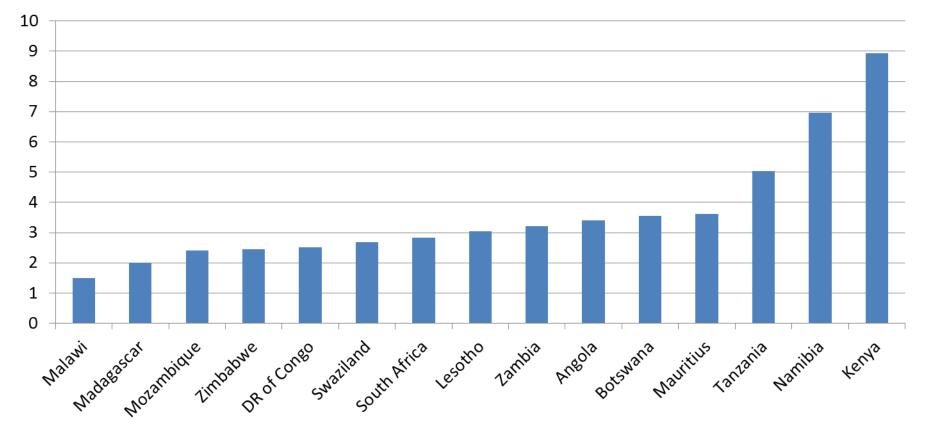




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Southern Africa Goat herd efficiencies ratios

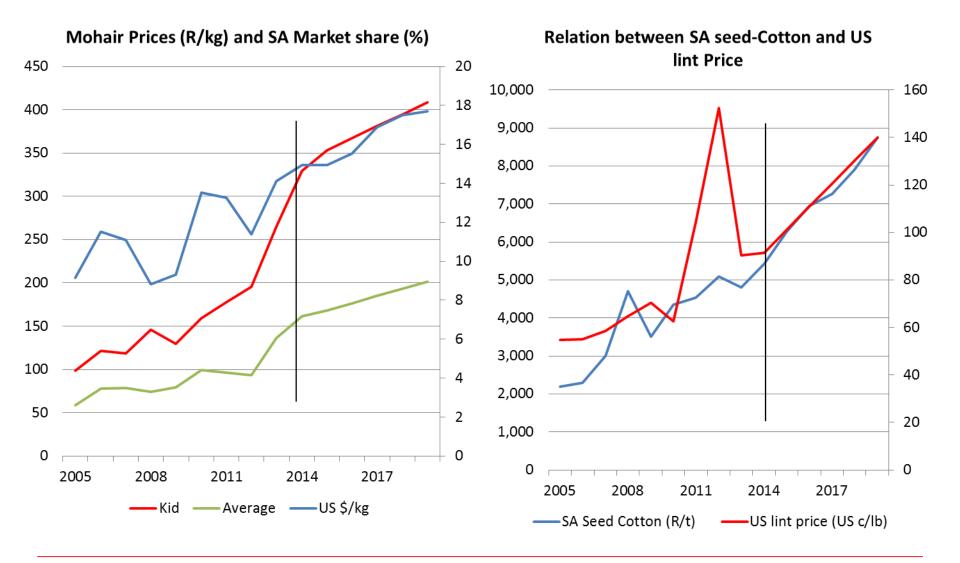








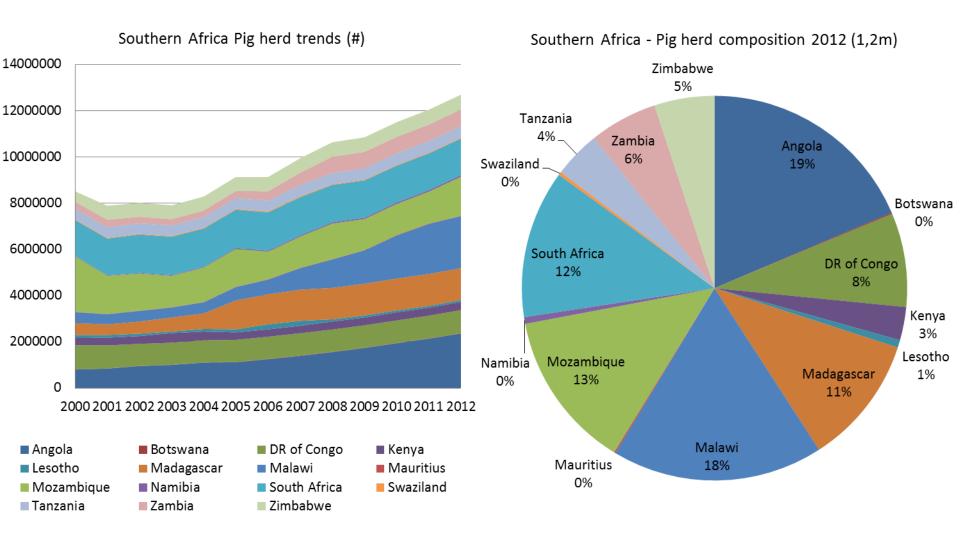
Mohair and cotton price outlook





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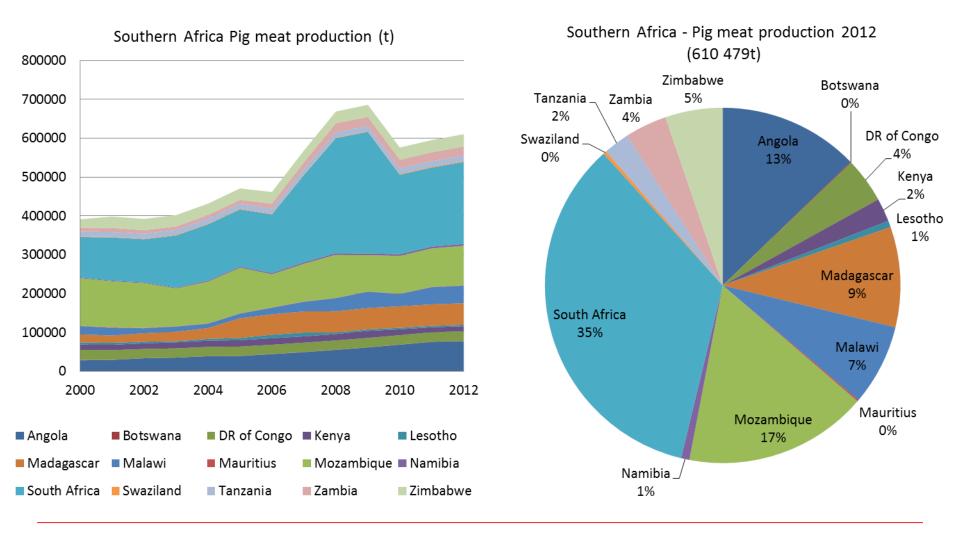
Southern Africa Pig Herd trends







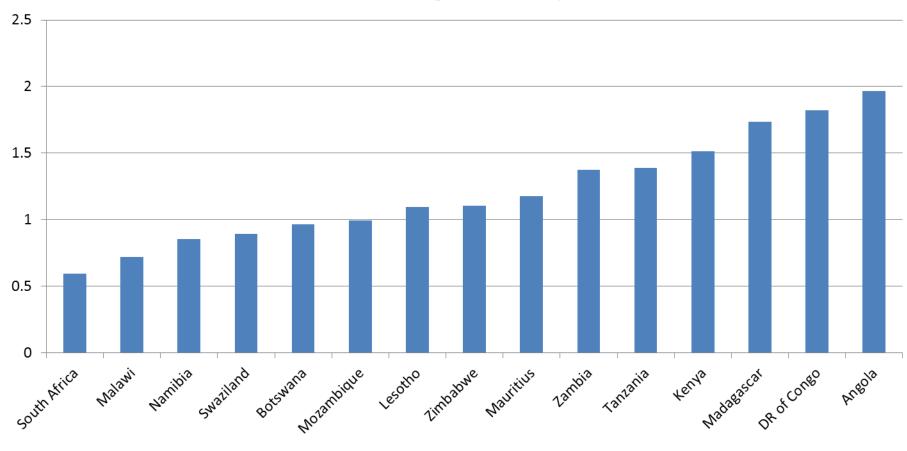
Southern Africa Pig Production trends



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Southern Africa Pig herd efficiencies ratios

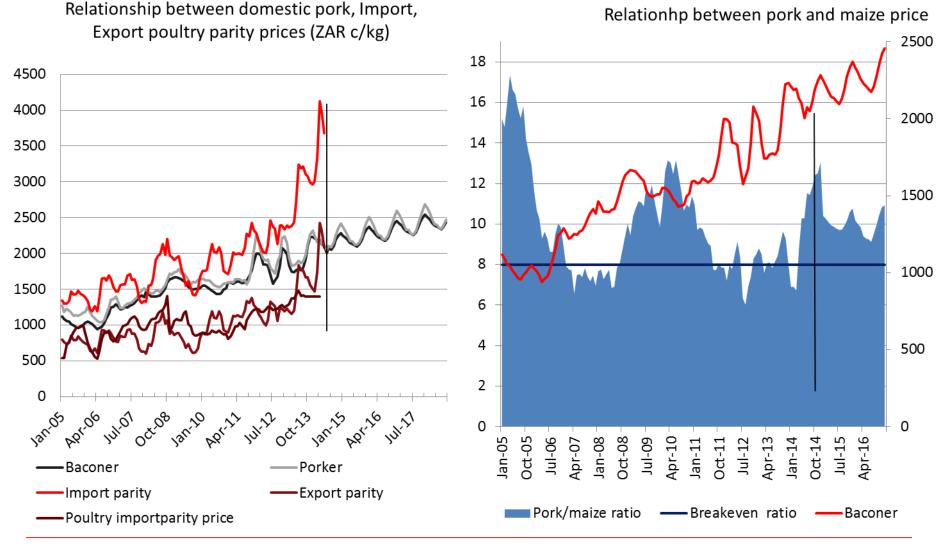


Goat Herd: Slaughter - efficiency Ratio





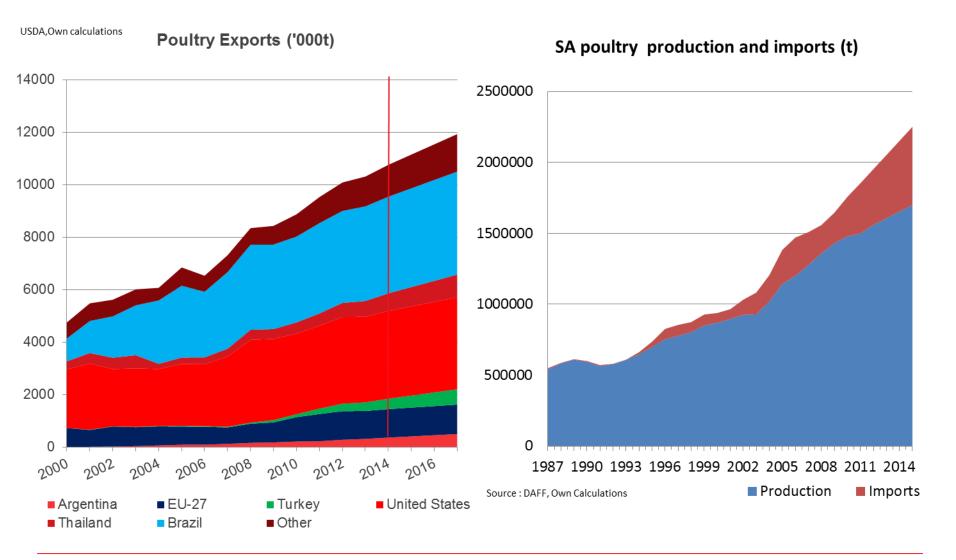
Pork price outlook







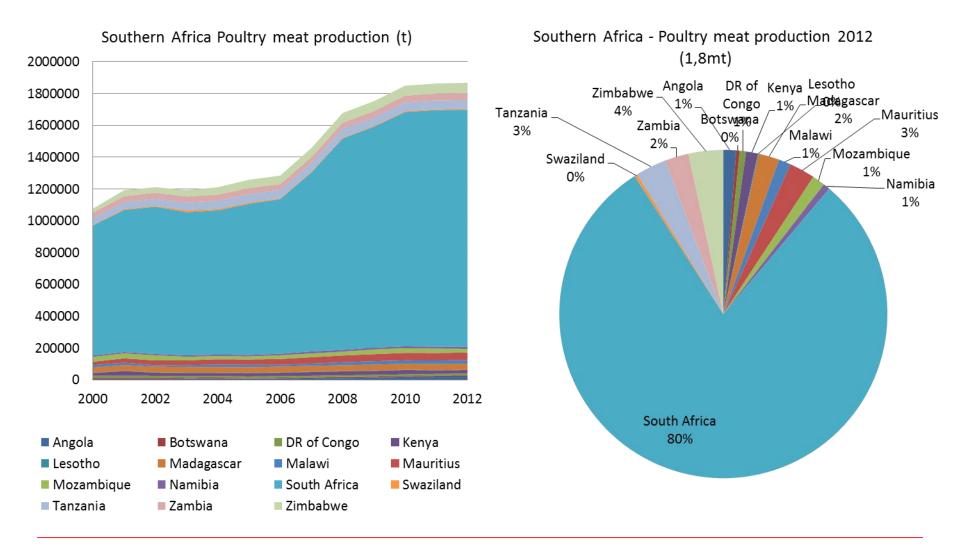
World and domestic poultry production





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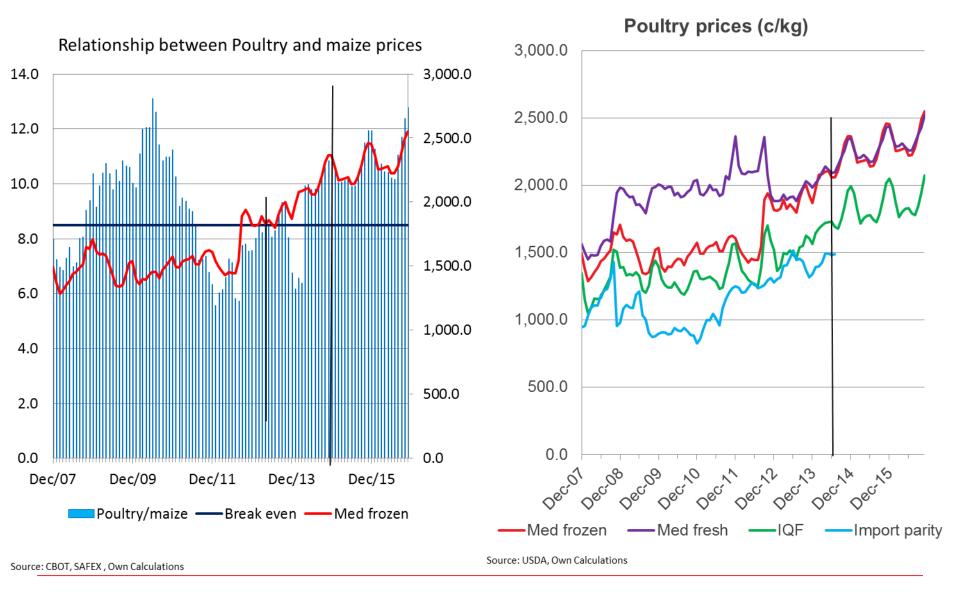
Southern Africa Poultry production trends







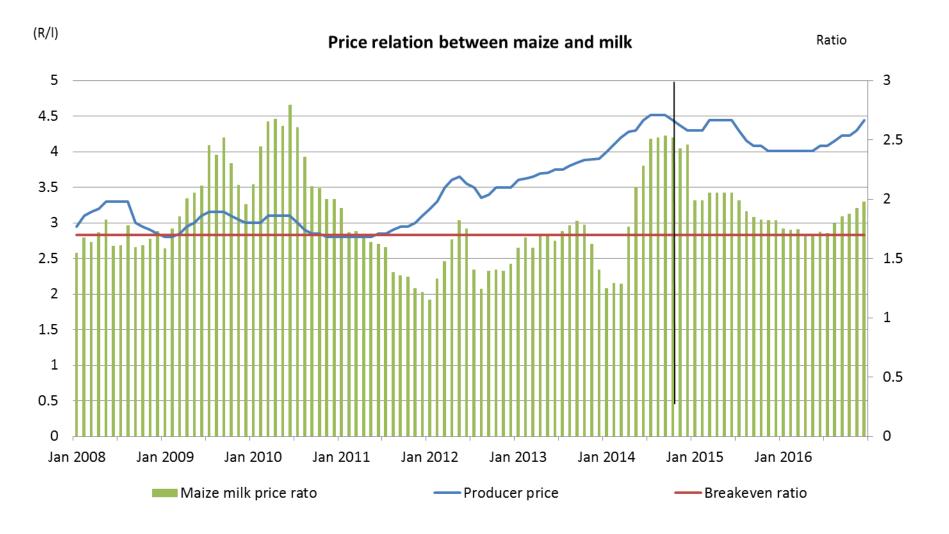
Poultry profitability and price trends







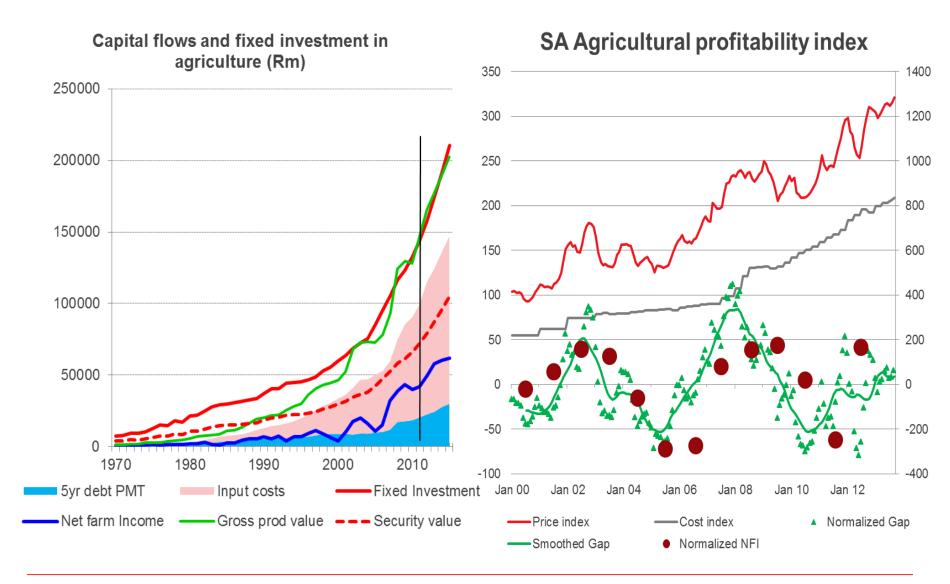
Milk outlook







Given all challenges and opportunities farming remain profitable







Thank you for the opportunity to share some ideas

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