



Generic Agrochemicals African Sectors

New Uses & Opportunities

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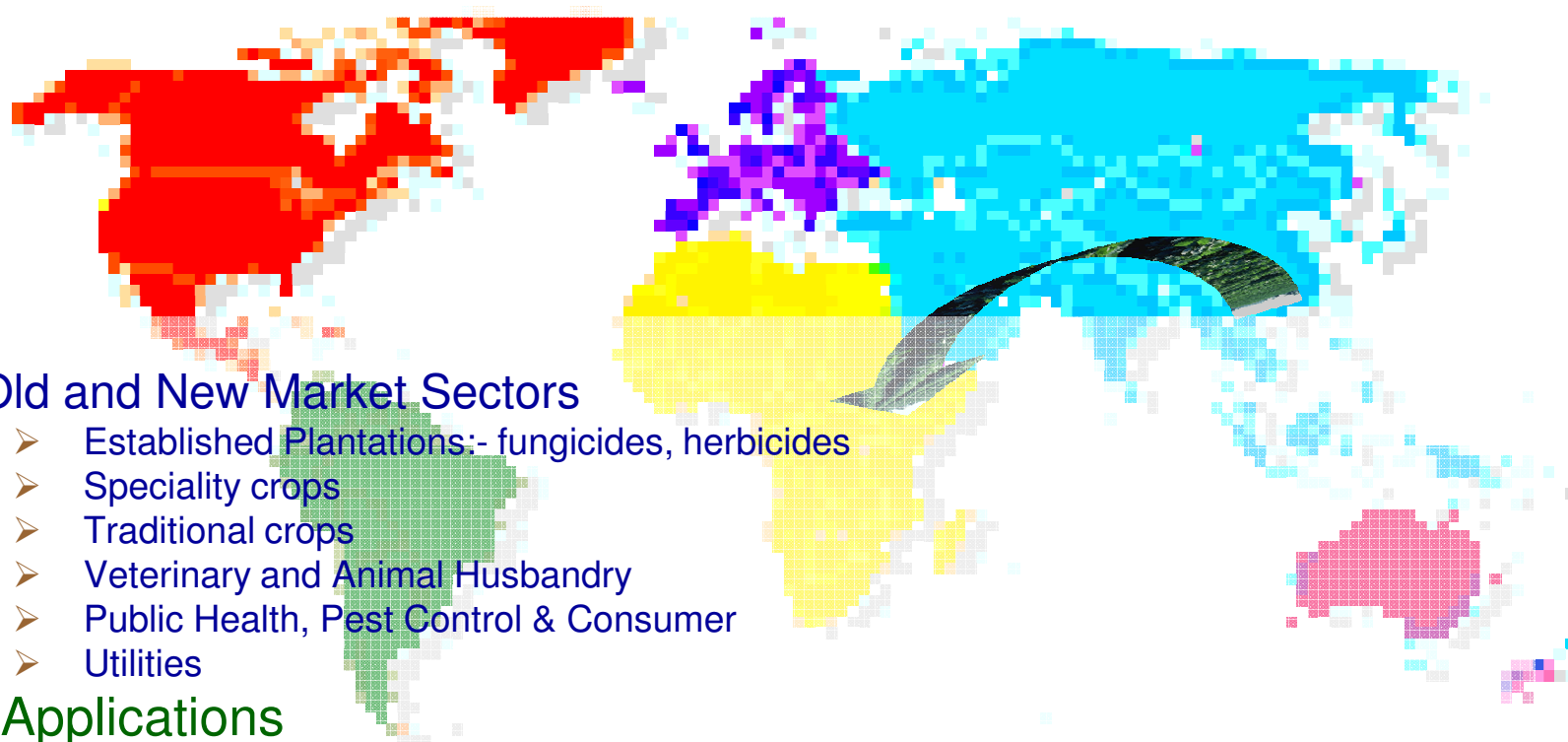
New Opportunities for Generics in Africa

❖ Old and New Market Sectors

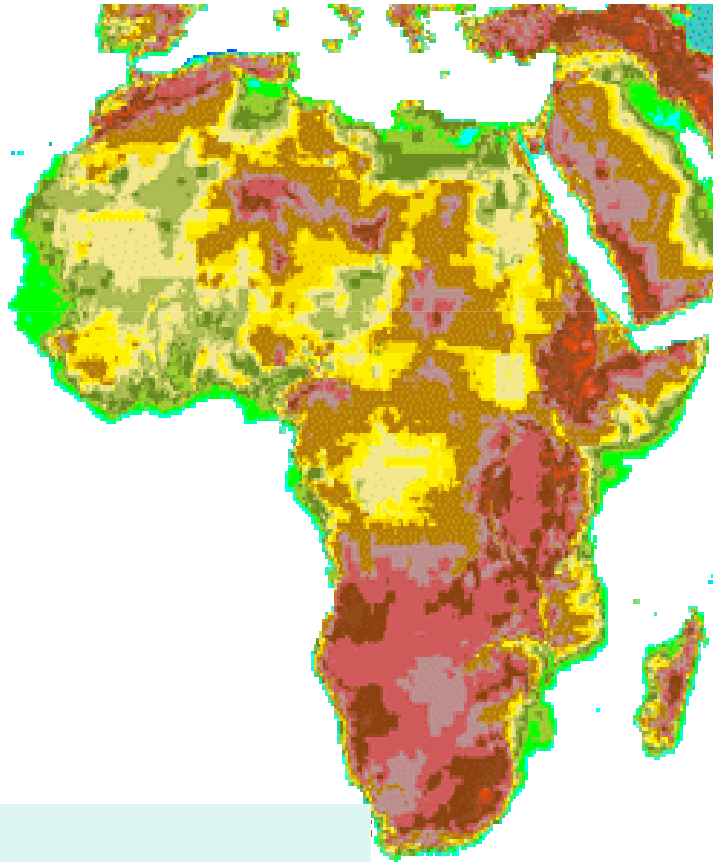
- Established Plantations:- fungicides, herbicides
- Speciality crops
- Traditional crops
- Veterinary and Animal Husbandry
- Public Health, Pest Control & Consumer
- Utilities

❖ Applications

- Herbicides- high value crops, industrial and aquatic, power utilities. Forestry
- Fungicides- floriculture, plantations, gardens, seed treatments
- Insecticides /nematicides- all crops, floriculture, veterinary ectoparasites
- “Soft” options- terpenes, neem, nicotine,
- Biologicals- most crops

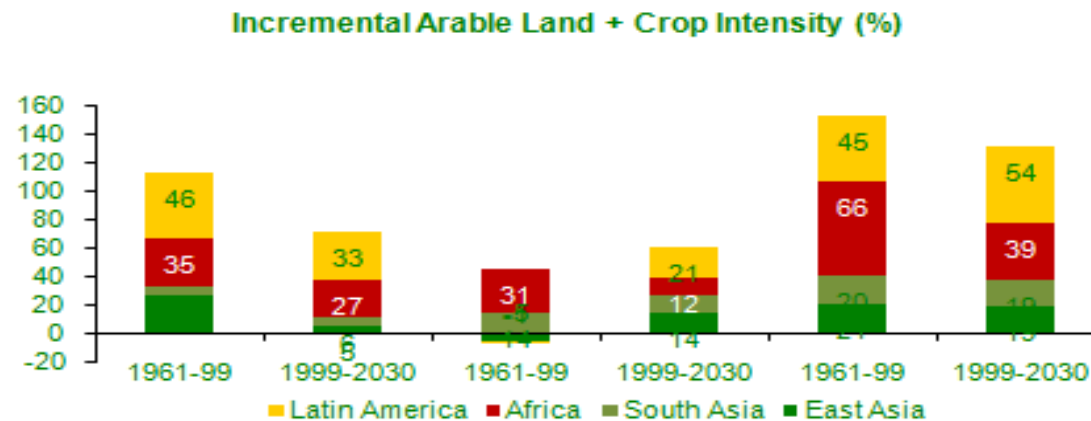


New Opportunities: Potential in Africa - Clustered diverse markets



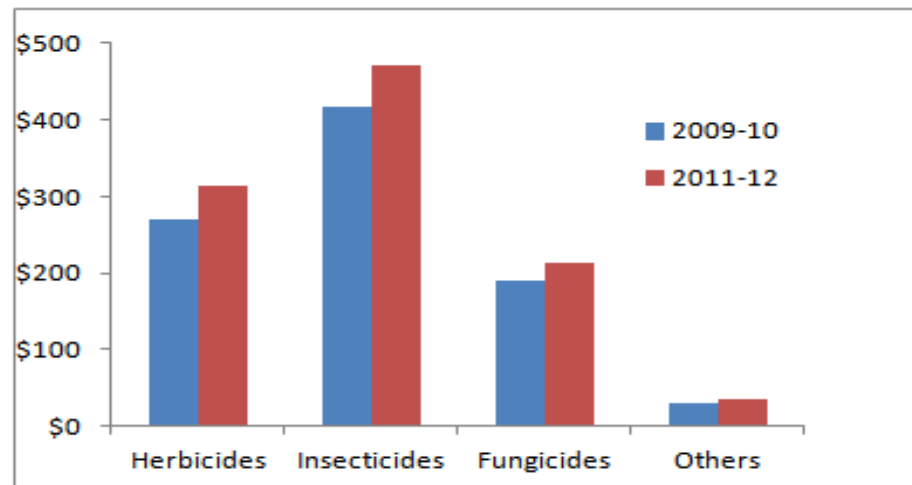
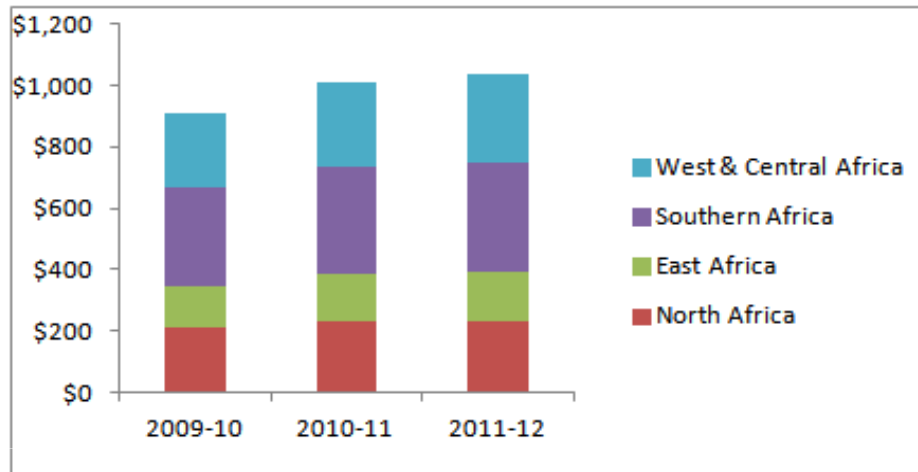
- ✓ North Africa – Maghreb cluster
 - ❑ Egypt, Sudan
 - ❑ Tunisia, Algeria, Morocco
- ✓ East Africa cluster
 - ❑ Kenya, Uganda, Tanzania, Ethiopia
- ✓ Southern Africa cluster
 - ❑ Republic of South Africa, Namibia
 - ❑ Great Lakes countries
 - ❑ Madagascar, Mauritius etc
- ✓ West & Central Africa cluster
 - ❑ Cote d'Ivoire, Senegal, Mali, Burkina-Faso, Guinea etc
 - ❑ Ghana, Nigeria
 - ❑ Cameroun, Niger, Chad etc

Arable Land Potential 1999-2030



- Potential land expansion 2nd highest after Latin America
- Proximity to European markets for exports
 - ✓ Floriculture
 - ✓ Citrus, grapes, stone fruit, pistachios, Vegetables
 - ✓ Coffee, cacao, tea, cotton
- Good potential for high quality crop protection chemicals and seeds
- Languages: Afrikaans, French, English, Arabic, Portuguese

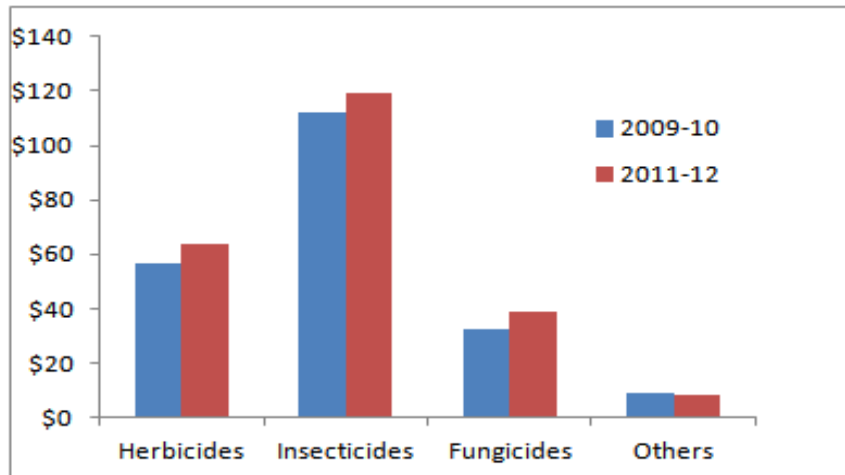
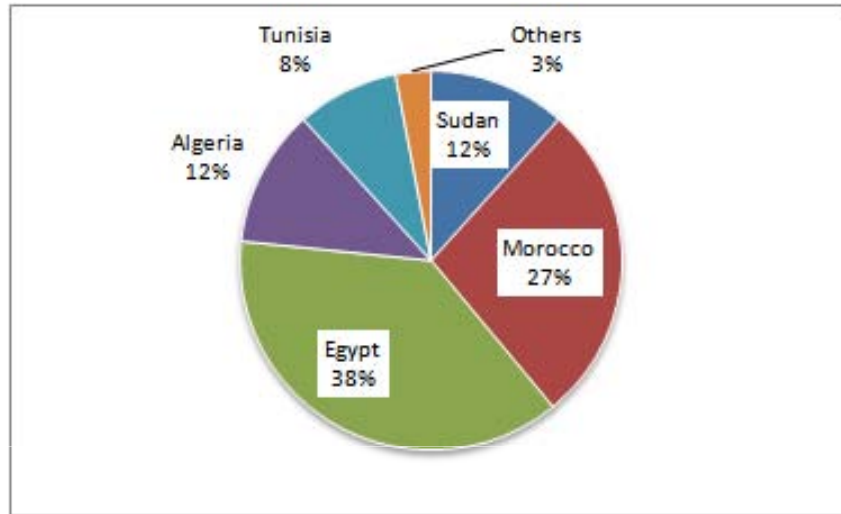
Regional Market Value \$ 1.02b - \$ 1.3b (CIF basis)



3% of Global Market

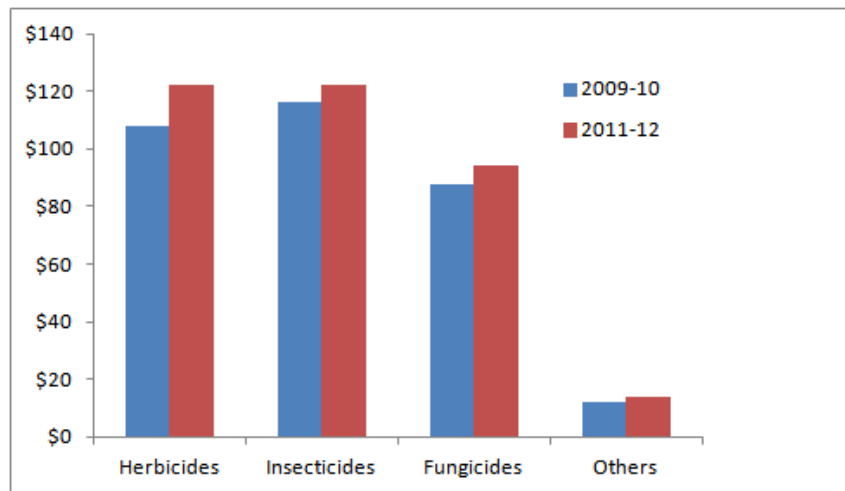
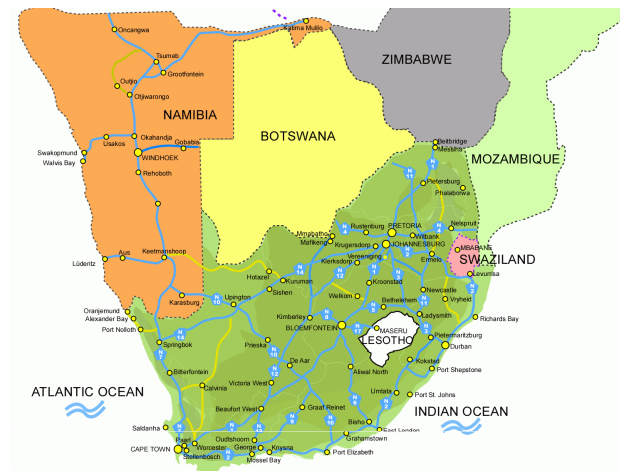
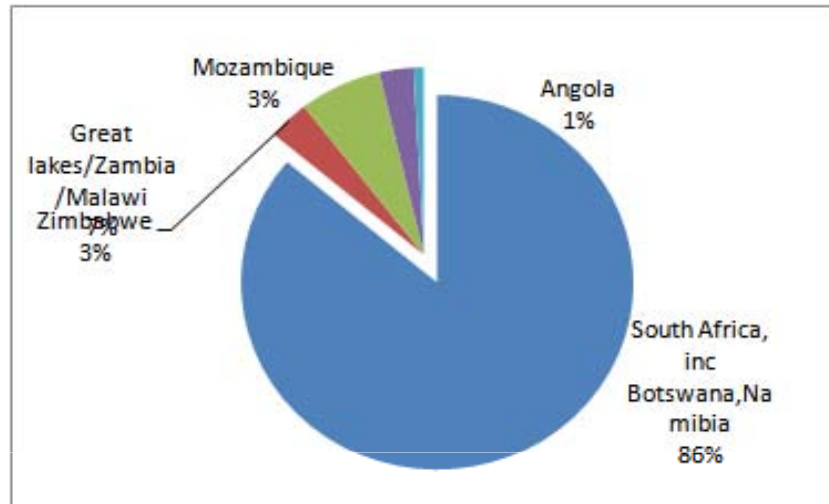
- High import level
- Formulation repack / exports
 - ✓ Larger country markets
 - ✓ Restricted by technology
 - ✓ Small packs predominant
- Competition issue
 - ☐ High brand & quality awareness
 - ☐ Generics need to meet /match
- Regulatory issues
 - ☐ Harmonise with EU / CropLife
 - ☐ Increasing costs – data provision

North Africa Agchems Sales \$231m



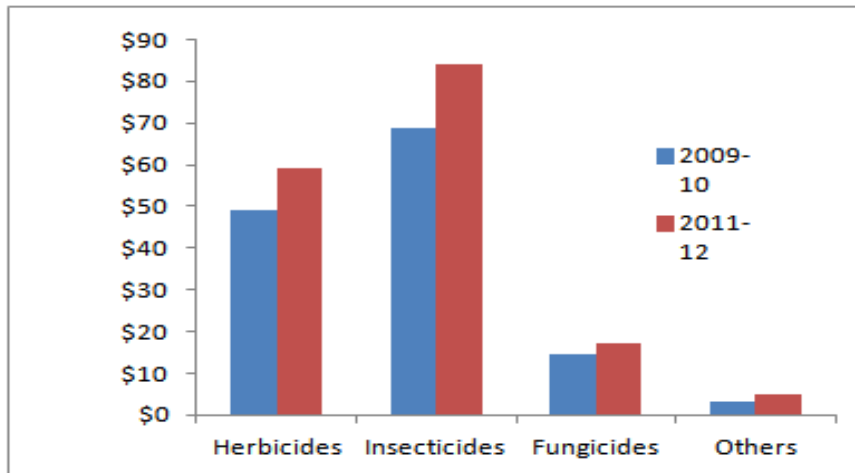
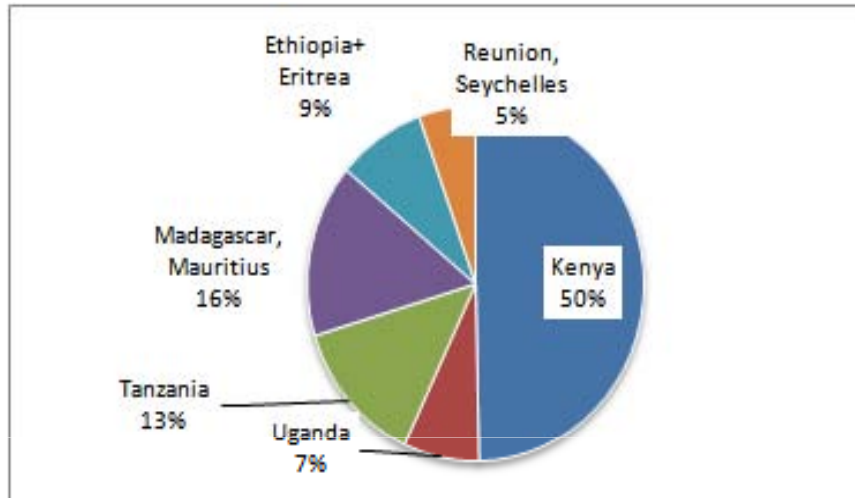
- ❖ Strong farming traditions, high yields
- ❖ Well-established distribution
- ❖ Mainly dates, cotton exports
- ❖ Insecticides fungicides
- ❖ Veterinary ectoparasites
- ❖ Political issues impact on trade

Southern Africa Agchems Sales >\$352m



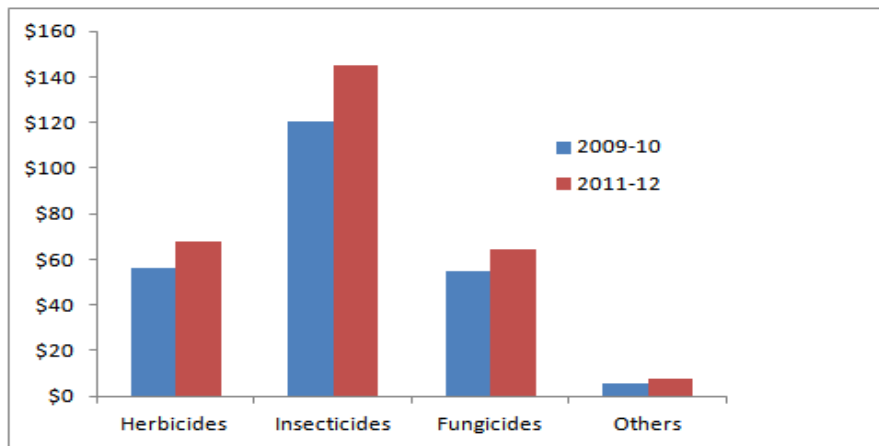
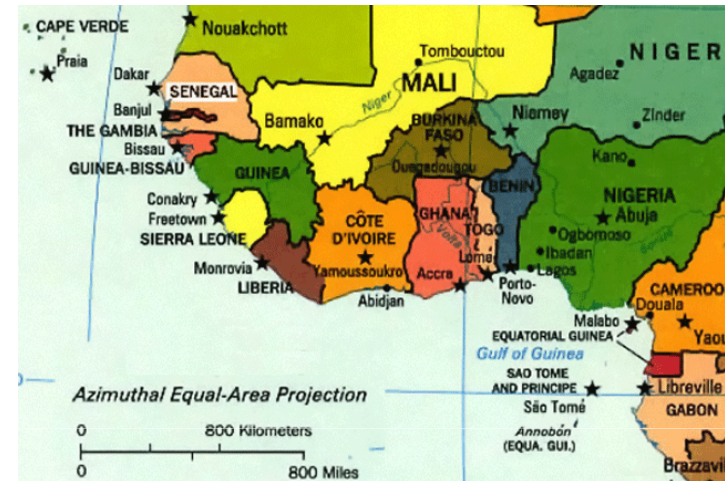
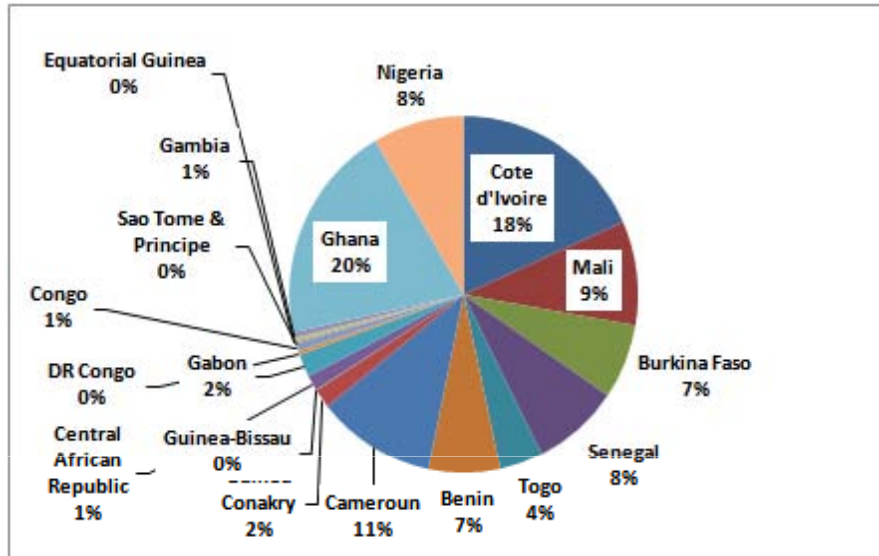
- ❖ Advanced farming conditions
- ❖ Largest country market
- ❖ Formulation & access to other African markets
- ❖ GM crops established
- ❖ Utilities, forestry, turf
- ❖ Veterinary, animal health

East Africa Agchems Sales >\$165m



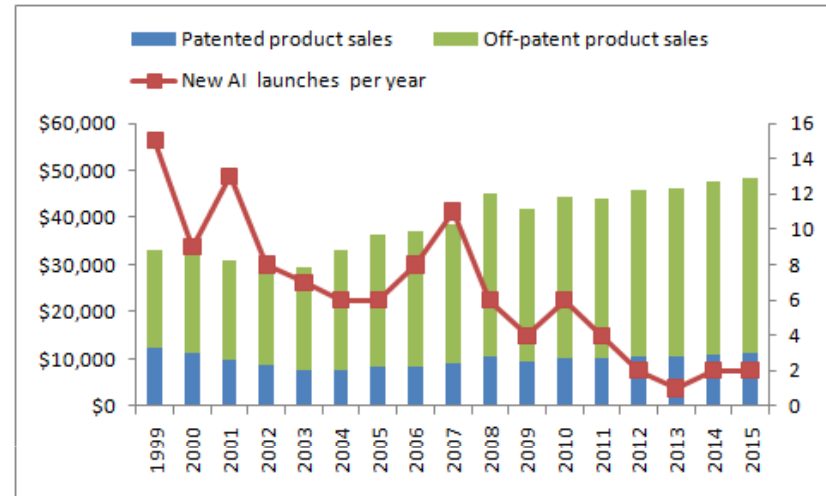
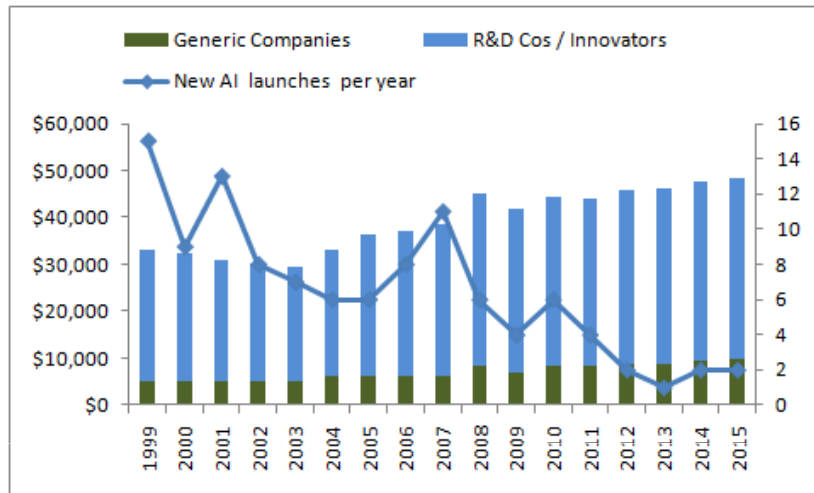
- ❖ High value agriculture, floriculture exports
- ❖ Plantations- Tea, coffee
- ❖ GM crops established
- ❖ MRL defined by exports

West & Central Africa Agchems Sales >\$285m



- ❖ Shift tenders > trade
- ❖ Plantation: cacao, cotton, oil palm, s'cane, rubber
- ❖ Small pack size
- ❖ Local formulation
- ❖ Ectoparasite market

Competitive advantage Patented vs. Off-patent Products Sales



- ❖ Fewer AIs introduced over time
- ❖ But sales of R&D companies keep increasing:
 - New uses
 - New formulations
 - New markets
- ❖ Success lies in innovation and distribution networks

Competitive advantage: Innovation

Performance and success: benchmarks of the industry leaders ?

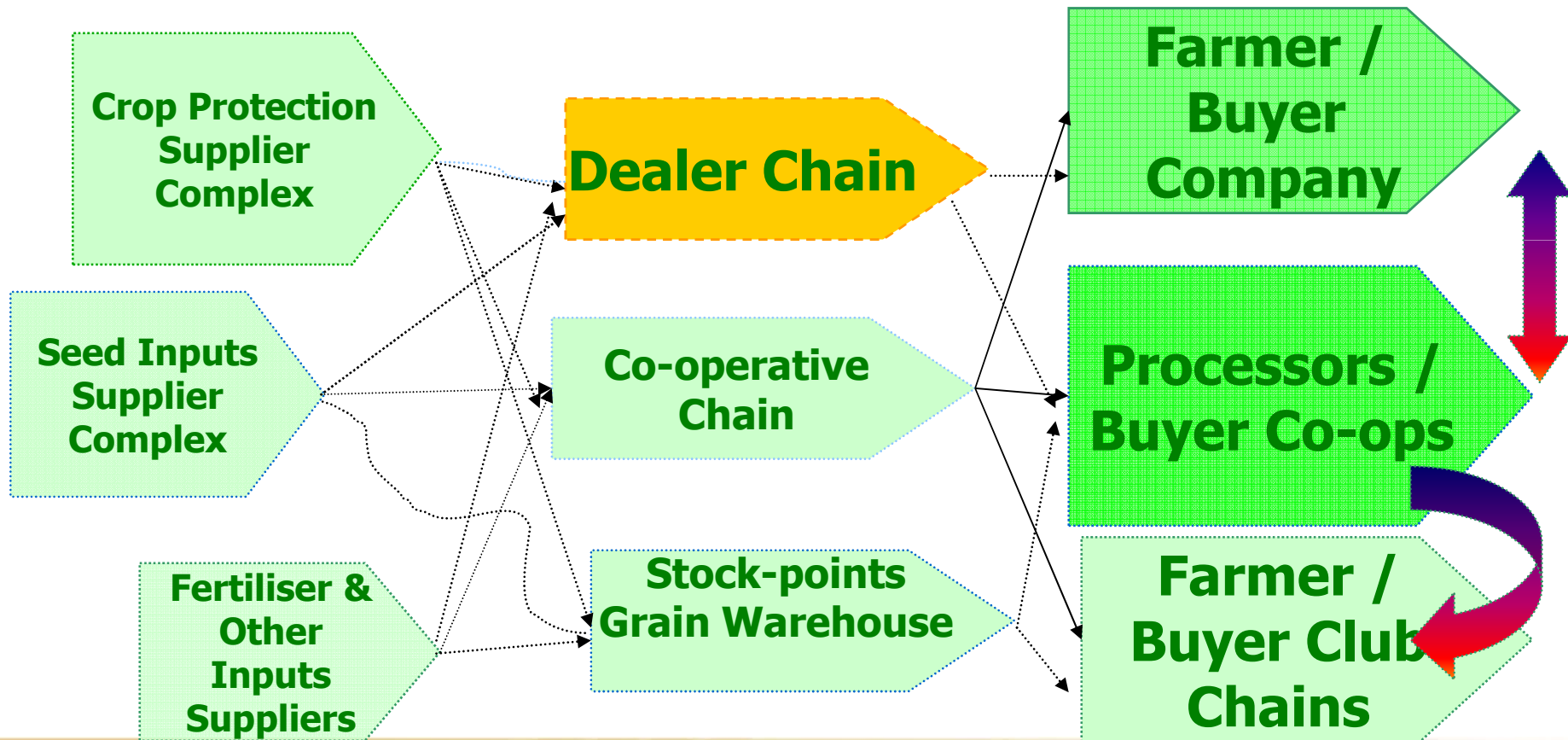
- ❖ Returns on R&D investment i.e. on innovation
 - Historically on AI's success: new molecules / chemistry resistance issues
 - Currently on formulation efficacy:
 - ✓ tech. superiority,
 - ✓ delivery systems
- ❖ **Time to market: the shorter the better**
- ❖ Ability to diversify active ingredients into:
 - More products
 - More crops
 - More target pests
 - **More applications => more label claims=> more registrations**

New Opportunities- Formulation/Packaging



- ❖ Formulations
 - Tailor-made for local conditions – crop-pest complex adaptation
 - Technical source certification similar to EU codes
- ❖ Volume adaptation
 - Sachets / dosettes
 - Tablets
 - Pre-measured
 - Pre-mixes
 - RTU (ready-to-use)
- ❖ Low-risk, safety primary

Competitive Advantage: Distribution Value Chain Linkages in the Supply Chain



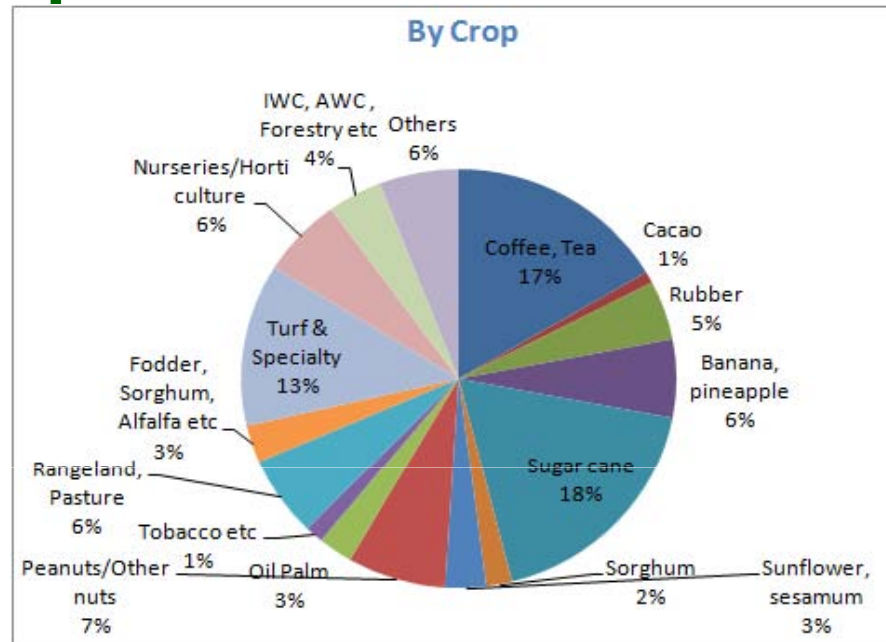
Distribution in Africa

- ❖ Security – Importers and Exporters - International
 - Standard Irrevocable Letter of Credit
 - Inspection, Certification, Risk Management – SGS / Cotecna
- ❖ Partnerships for local sales
 - Established distributors – crop and non-crop
 - Cooperatives
 - ✓ Collateral on harvest between producers and buyers
 - ✓ Wholesale buyers - commodities
 - ✓ Processors – coffee, cocoa, sugar, cotton
 - ✓ Similar to practices in India, China.
 - Local formulators
 - ✓ Reconditioning from bulk (packaging)
 - ✓ Formulate and pack locally.
 - ✓ Parallel imports
 - Fertiliser companies and distributors

Competitive Advantage: Key Drivers

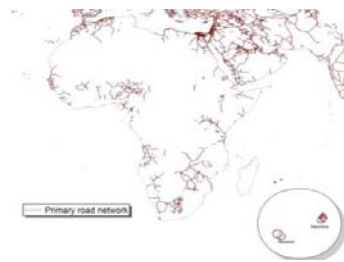
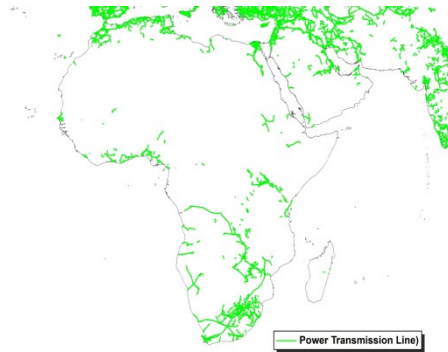
- ❖ Range and share of products current and in pipeline
- ❖ **Product innovation dependent on R&D and the capacity / capability to bring the fruits of these to the market**
- ❖ Manufacturing strengths (efficiency) in reducing costs
- ❖ Creating entry barriers through:
 - Patents
 - Data Protection
 - Tightening regulatory rules
- ❖ Managing brands/brand equity in both patented and post-patent situations
- ❖ Marketing and communications skills
- ❖ Logistics and distribution strengths

Other Crops 2011-12 CP Sales \$7bn

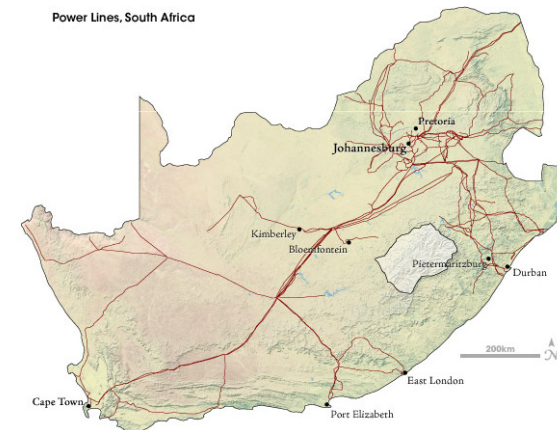


- ❖ Spread in each African cluster
- ❖ Each cluster different in profile
 - Southern Africa developed market with high veterinary, non-crop sales
 - West and Central Africa plantation and cattle spread, others developing
 - East Africa plantation and floriculture with others developing
 - North Africa good prospects with developing political stability

Industrial, Power and Aquatic Herbicides



Power Lines, South Africa

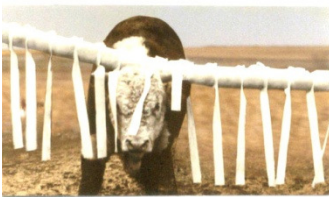
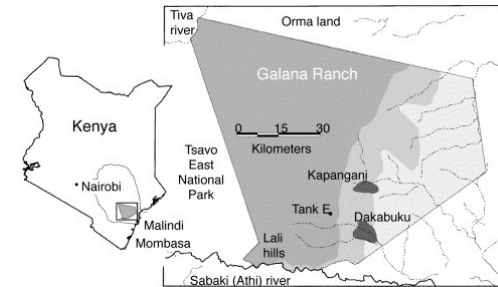
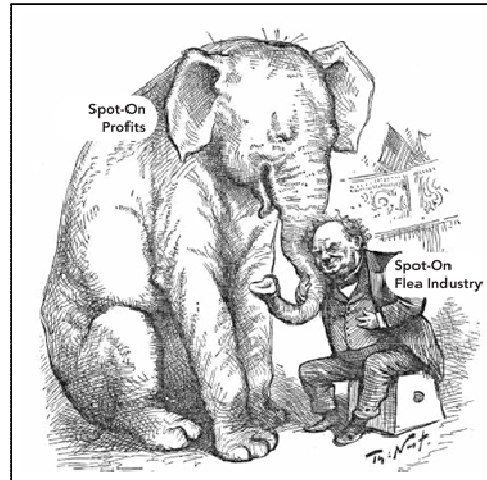


- ❖ Total vegetation control
- ❖ Stump and brush killers
- ❖ Line maintenance
- ❖ Large corporations with expertise

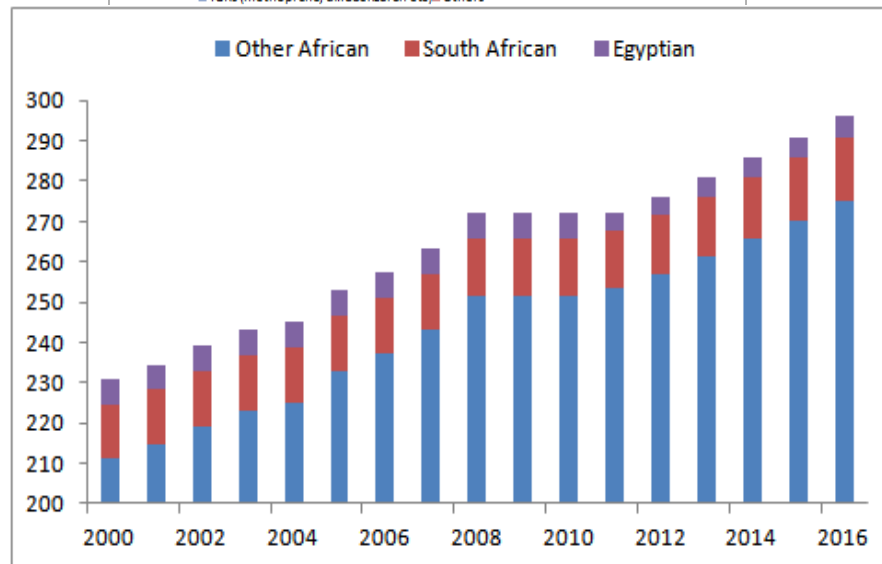
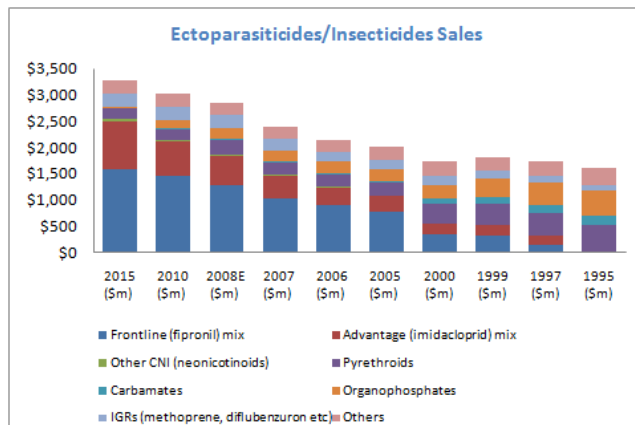
Post Harvest Investment Issues

- ❖ Losses in transport and storage 5% to 25% of harvest
- ❖ Post-harvest chemicals: fungicides, fumigants, insecticides, rodenticides
- ❖ Industry invests in seeds and chemicals but less in storage and warehousing facilities:
 - Losses in developing countries est. \$18b-\$20b
 - India alone >\$10b (= 17m-18m metric tons / year)
- ❖ Modernisation of infrastructure, grain handling needed

Veterinary Opportunities- Africa



Non-Crop: Veterinary Opportunities



- ❖ Low volume, high value – linked to pharmaceutical-veterinary network
- ❖ Types of application:
 - Pour-on leading market
 - Spot-on
 - Ear tags
 - Dips
 - Sprays
 - Wicks
- ❖ Growing annually @ 8.6% CAGR since 2005
- ❖ Short-term and long-term opportunities
- ❖ Cattle population growing
 - Midges, ticks, lice, fleas
 - Flies- biting, piercing

“It’s not the size of the dog in the fight.....”



It’s the size of the fight in the dog.....”
Mark Twain

Crop Progress Calendar

❖ Quarter 1

- USDA planting intentions
- COCERAL first European crop estimates.
- Mercosur, ANZ, S. Africa maturing crop, beginning harvest
- 35% of herbicide & 25% fungicide volume in Europe, NAFTA.
- Late winter crop Asia insecticide use

❖ Quarter 2

- Wheat harvest starts late in USA.
- Main herbicide markets in Europe, USA, Canada.
- Half of fungicide volume in Europe,
- Cotton, Rice planting in Asia. 40% of herbicide used
- Harvesting in S. Africa
- Planting in N. Africa

❖ Quarter 3

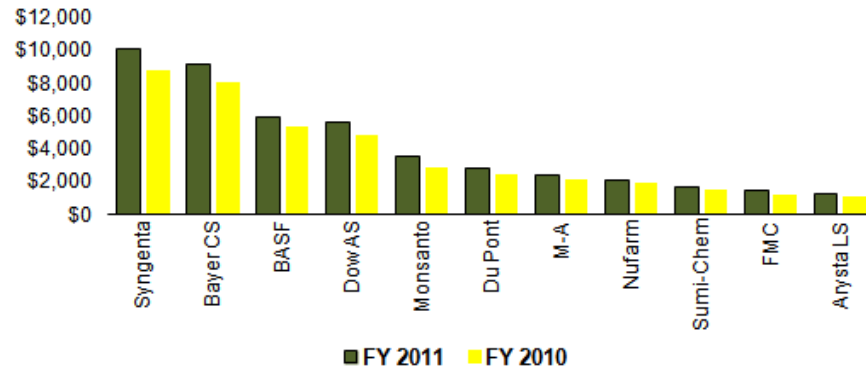
- Half of fungicide volume in Europe,
- Insecticides in rice, cotton Asia.
- Harvest in Northern Hemisphere.
- Planting starts in Australia.
- Growth in N. Africa, West Africa

❖ Quarter 4

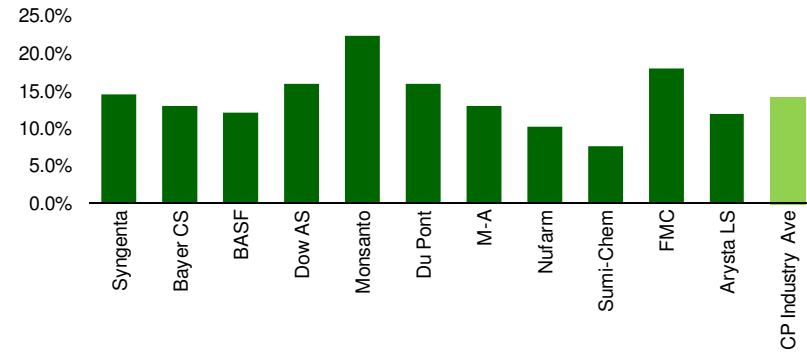
- Planting starts in Latin America. S. Africa
- 80 % European wheat planted, 60% European oilseeds planted.
- USDA forecasts for southern hemisphere harvests released.
- Asia-Pacific winter crop 50% herbicide 40% insecticide, fungicide begins
- Growth in S. Africa
- Harvests in N and West Africa

2011 Snapshot Leading Companies

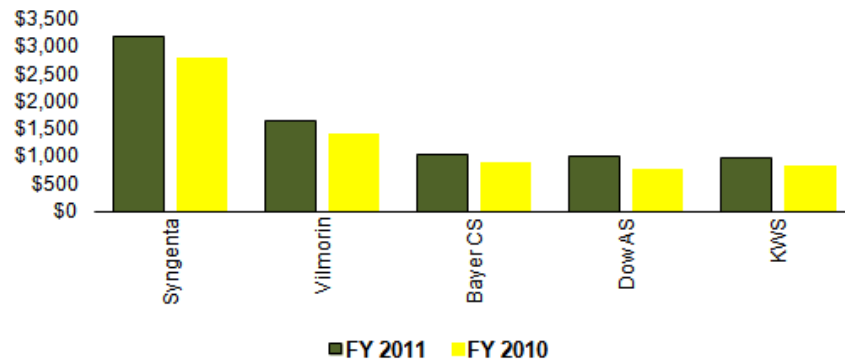
Agchems Performance FY 2011/10 (USDm)



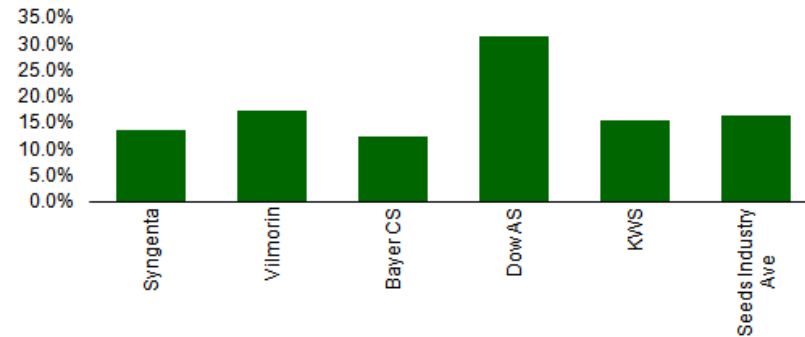
Agchems Performance FY 2011/10 (% change)



Seeds+Traits Performance FY 2011/10 (USDm)



Seeds+Traits Performance FY 2011/10 (% change)



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