SUCCEEDING IN AFRICA

UNLOCKING AGRIBUSINESS GROWTH AND OPPORTUNITIES

Nkosi’ Mcineka
FOOD SECURITY ISSUES IN THE WORLD

- Protection of prime agricultural land (UN)
- Bridging the gap within farming communities
- High agricultural input costs
- Transport costs (fuel)
- Lack of drought resistant seeds
- Food wastage – 1.3 billion tons (CNN)
- Costs of goods packaging - $700 billion (FAO)
- Production before Agro-processing
- High food prices
- Possible change of diet
- Lack of media coverage (Food Network types)
60% of arable land is not cultivated
Availability of labour and farming skills
Support (Gov, AU, CAADAP, GrowAfrica, SAGCOT)
Political stability
Food security industry -> $3 trillion by 2030
Diversity (multi-cultured societies)
Half of population is under 30 years old
Fast growing middle class
Healthy living attitude
Fast growing use of technologies
30 countries have direct access to oceans
Africa is Huge!

The following countries could fit within Africa:

- **China**: 3,705,390 sq. mi.
- **United States**: 3,618,770 sq. mi.
- **India**: 1,266,595 sq. mi.
- **Europe**: 1,905,000 sq. mi.
- **Argentina**: 1,065,189 sq. mi.
- **New Zealand**: 103,736 sq. mi.

Total: 11,664,680 sq. mi. or 30,211,551 km²

Africa's area: 11,707,000 sq. mi. or 30,321,130 km²

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Program Focuses on Emerging Farmers

- 10% - Feed your household (vegetables)
- 30% - Cash crop (vegetables + Herbs)
- 60% - Main crop (guar beans/timber/cane)

Production and project management

Leasing of community/state farm land

Market access

Facilitate partnership in ‘Support industries’
Environmental Analysis

Obtain farm land

Land preparations

Harvesting

Planting

Crop protection

PRIMARY FOOD PRODUCTION CYCLE
APPROACH TO INVESTMENT

PRODUCTION
- Nursery
- Agri Plant Hire
- Irrigation

PROCESSING
- Processing Plant
- Packaging + BRANDING
- Storage

DISTRIBUTION
- Logistics
- Marketing
- FP SHOP + EXPORTS

PROJECT MANAGEMENT

Funding Institution
Technologies
Employment Agency
Training
Real Estate
Risk Management
Work Clothes
# Herb Profiles

<table>
<thead>
<tr>
<th>Seedlings</th>
<th>Season</th>
<th>Growth Period</th>
<th>Life Span</th>
<th>Crops to Plant With</th>
<th>Repellant for</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rosemary</td>
<td>Sunny</td>
<td>6 months</td>
<td>8 years</td>
<td>Sage, cabbage, carrots</td>
<td>Mosquitoes, slugs, snails, Cabbage maggot/moth</td>
</tr>
<tr>
<td>Thyme</td>
<td>Cool</td>
<td>6 months</td>
<td>8 years</td>
<td>All herbs, eggplant</td>
<td>Cabbage maggot</td>
</tr>
<tr>
<td>Sage</td>
<td>Sunny</td>
<td>6 months</td>
<td>8 years</td>
<td>Cabbage, carrots, tomatoes, beans, rosemary</td>
<td>Cabbage moth and worm</td>
</tr>
<tr>
<td>Marjoram</td>
<td>Sunny</td>
<td>6 months</td>
<td>8 years</td>
<td>Peppers, sage,</td>
<td>ATTRACTS: bees &amp; butterflies</td>
</tr>
<tr>
<td>Oregano</td>
<td>Sunny</td>
<td>6 months</td>
<td>8 years</td>
<td>Broccoli, peppers, cucumber</td>
<td>Cucumber beetle, squash bug</td>
</tr>
<tr>
<td>Mint</td>
<td>Sunny</td>
<td>6 months</td>
<td>8 years</td>
<td>Cabbage, cauliflower, tomatoes</td>
<td>Ants, cabbage maggots/moth</td>
</tr>
<tr>
<td>Lemon grass</td>
<td>Sunny</td>
<td>6 months</td>
<td>8 years</td>
<td>Ants, cabbage maggots/moth</td>
<td>Insects, (insect spray)</td>
</tr>
<tr>
<td>Basil</td>
<td>Sunny</td>
<td>2 weeks</td>
<td>2 years</td>
<td>Beans, cabbage, peppers, tomatoes</td>
<td>Tomato hornworms, Mites, Flies, Beetles</td>
</tr>
<tr>
<td>Parsley</td>
<td>Sunny</td>
<td>2 weeks</td>
<td>2 years</td>
<td>Tomatoes, onions, chives, garlic</td>
<td>Asparagus beetle</td>
</tr>
<tr>
<td>Chives</td>
<td>Cool</td>
<td>2 weeks</td>
<td>6 years</td>
<td>Carrots, parsley, strawberries,</td>
<td>mites, aphids</td>
</tr>
<tr>
<td>Coriander</td>
<td>Sunny</td>
<td>2 weeks</td>
<td>2 months</td>
<td>Potatoes</td>
<td>Aphids, carrot rust fly, potato</td>
</tr>
</tbody>
</table>
INVESTMENT OPPORTUNITIES (HERBS)
INVESTMENT OPPORTUNITIES (CORE)

- **Herbs for health industry**
- **Guar beans for Oil, Gas and Mining industry**
- **Groundnuts (peanut butter, cooking oil)**
- **Sweet potatoes (chips and baby foods)**
- **Fruit farming**
- **Game farming (venison)**
- **Fish farming**
- **Goat farming**
- **Essential oils**

Amaphisi Farmers
We feed the Nation
INVESTMENT OPPORTUNITIES (GUAR)

• Beans with proteins and gum
• Semi-arid 3 months-crop
• Hydrocolloid (turns into gel in water)
• Applications of gum (powder)
  — Food industry (thickening agent)
  — Mining (reagent in ore processing)
  — Oil and gas drilling (hydraulic fracturing) - $9000/t
• Applications for proteins
  — Feedlot, fish pellets, pet foods
  — Food industry
END-TO-END PRODUCTION

Guar - different forms from seed to powder

- Guar Seed
- Undehusked Split
- Refined Split
- Guar Protein
- Guar Meal
- Guar Meal
- Pulverised Guargum Powder
- Pulverised Guargum Powder

Amaphisi Farmers
We feed the Nation

South Africa
OIL & SHALE GAS MARKET

Gas Shale Basins of the United States

- Niobrara
- Bakken
- New Albany
- Antrim
- Davenian/Ohio
- Floyd and Conasauga
- Barnett and Woodford
- Caneey and Woodford
- Fayetteville
- Lewis and Mancos
- Palo Duro
- Green River
- Monterey
- McClure
- Cane Creek
- Green River

Applications for shale gas exploration

Mafia Basin

Total
ARM
AngloAmerican
Royal Bafokeng
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