



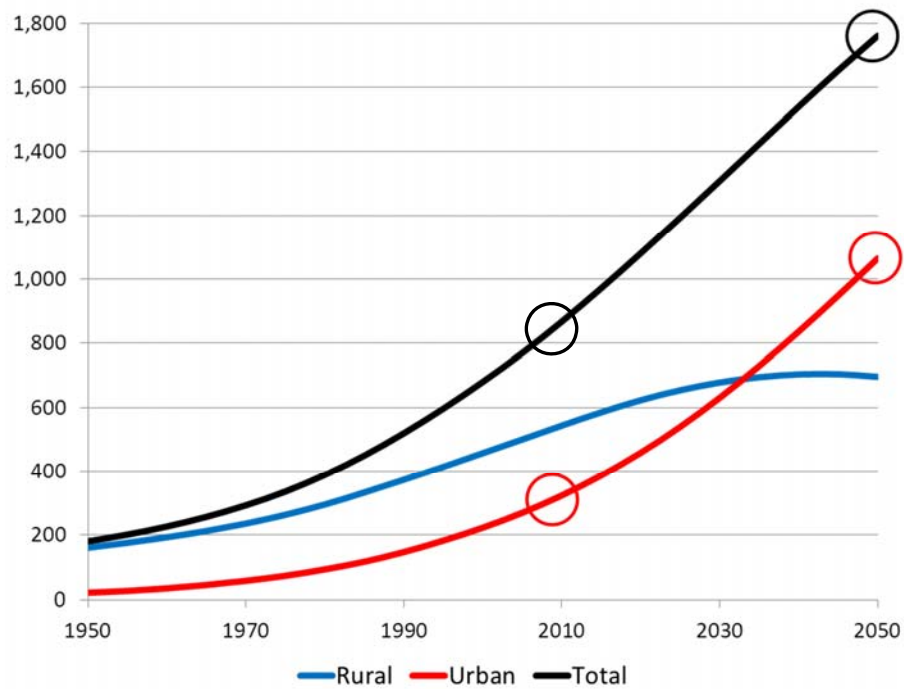
Partnerships for Capacity Development for Modernizing African Food Systems

Isaac Minde, on behalf of
Makerere, Michigan State, Pretoria and Stellenbosch Universities
Presentation at the Conference on Higher Education in Africa
Speke Resort and Hotel, Munyonyo, Kampala, Uganda
16 November 2010

Outline

1. Trends in African food systems
2. Changing skill requirements
3. Partnership for capacity development

Population trends in SubSaharan Africa



Source: UN Urban Projections (<http://esa.un.org/unup/>)

Urbanization (3%) + income growth (2%)

- rapidly growing food markets
- changing composition of demand
 - + meat
 - + dairy
 - + fresh produce
 - + processed foods

Increases 2010 to 2050

Total population: double

Urban population: triple

Marketed food: 5-6 times

Source: UN Urban Projections (<http://esa.un.org/unup/>); Maddison (2008) income projections; USDA (2010) consumption elasticities

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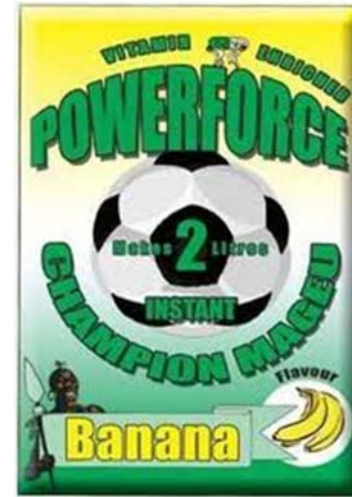
2. Changing skills: marketing



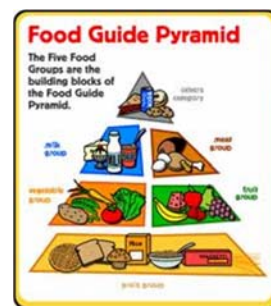
2. Changing skills: food processing



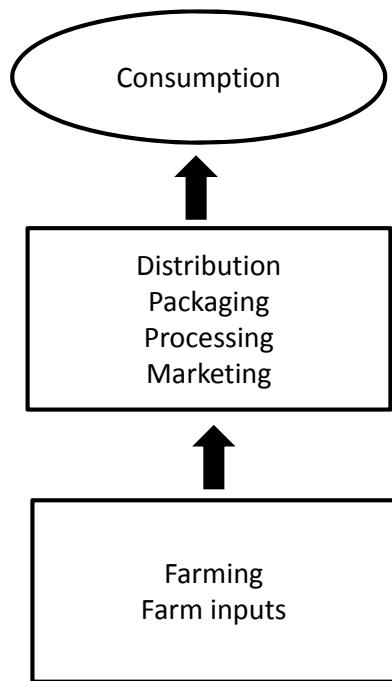
2. Changing skills: packaging



2. Changing skills: food safety, nutrition, regulation

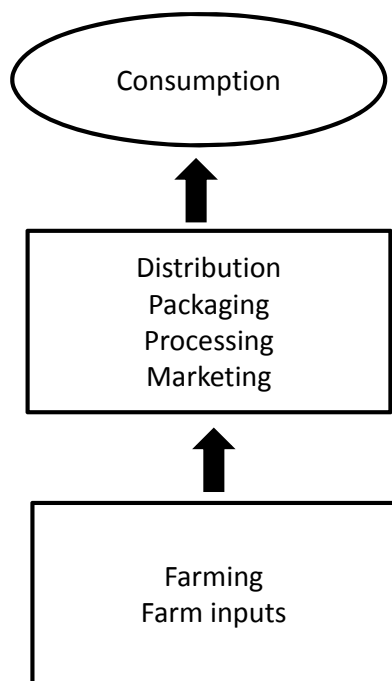


Food value chain



Food value chain

Skill requirements



- Food policy
- Nutrition
- Food safety
- Packaging
- Food biochemistry
- Logistics management
- Supply chain management
- Financial management

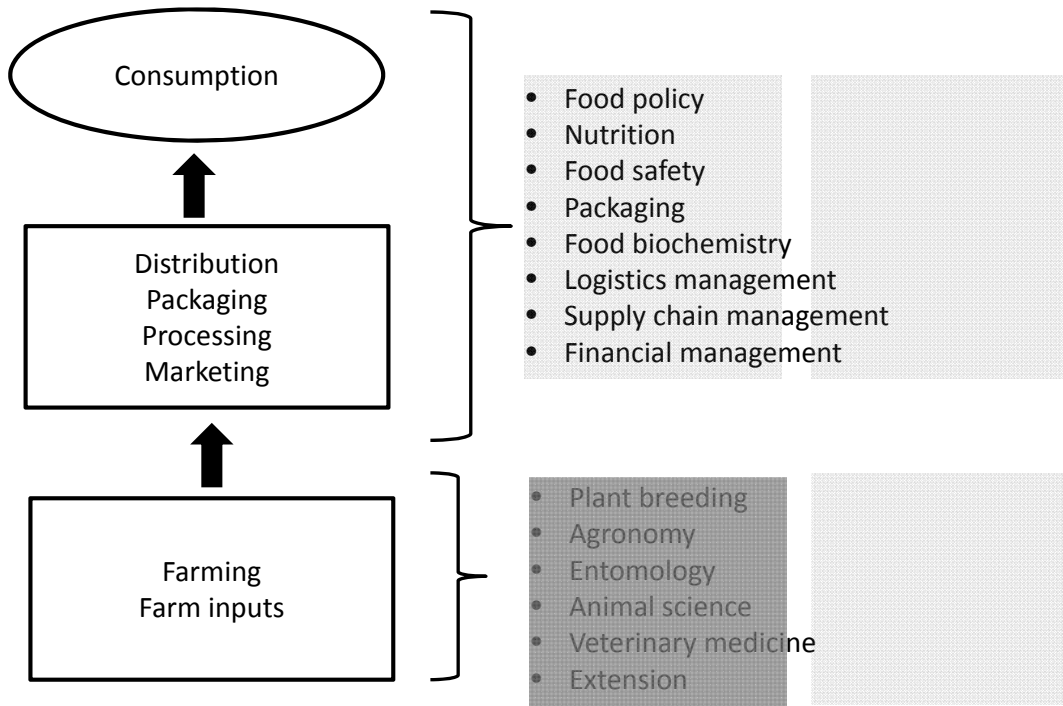
- Plant breeding
- Agronomy
- Entomology
- Animal science
- Veterinary medicine
- Extension

Food value chain

Past 40 years

Public

Private

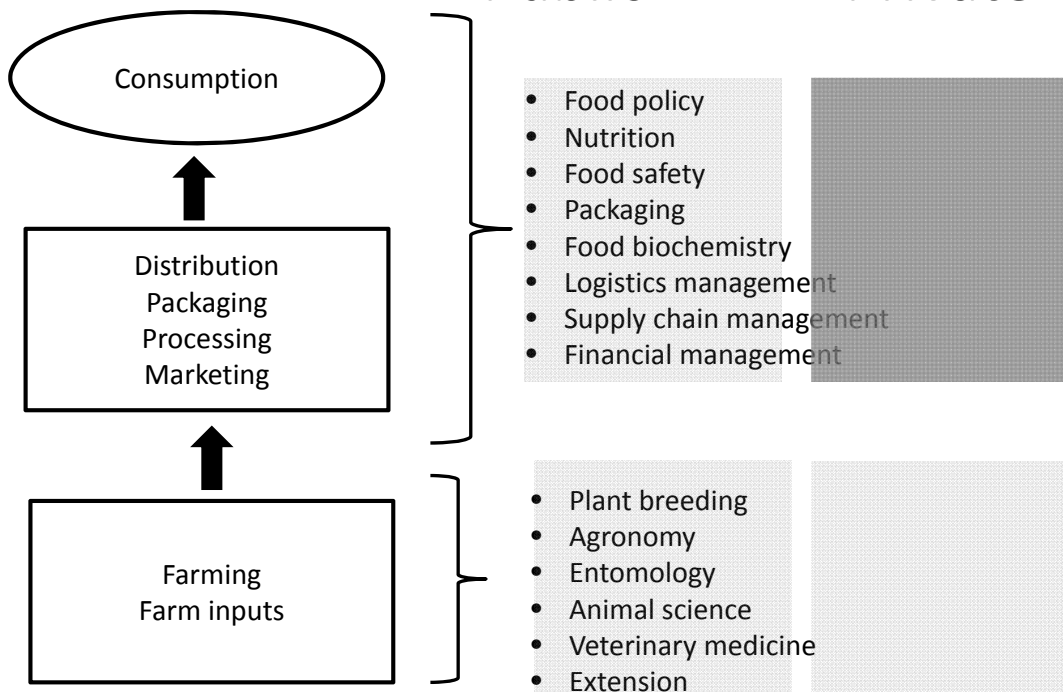


Food value chain

Next 40 years

Public

Private



2. Changing skill requirements

- + More post-farm skills (marketing, processing, distribution, consumption)
- + More private sector clients

African agricultural universities will need to adjust.

Outline

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3. Capacity development partnership

- Technical team (*Agricultural universities*)
 - Makerere University
 - Michigan State University
 - University of Pretoria/Stellenbosch
- Supervision:
 - NEPAD PCA
 - Advisory Board
- Private agribusiness interactions
- Open source model

Five Public Goods

1. **Food system dynamics:** How fast? What value chains? What new skill requirements? Public and private sector?
2. **Models of engagement between agribusiness and universities:** South Africa CSIR, Makerere value chain, others
3. **Inventory existing capacity at African agricultural universities**
4. **Impact of past institution building efforts in African agricultural universities:** literature review; tracer interviews with former students
5. **Case studies of African universities with regional footprints:** curriculum, staff retention, finances, student placement

Expected Outcomes

- Five public reports/data bases
- Structured engagement between universities and private agribusinesses
- African agricultural universities (and other interested parties) use outputs in formulating capacity development proposals

Thank you very much for your attention.