Empowering MSMEs in the agricultural sector in Africa
(Case studies from women-led farming cooperatives in Zambia and Kenya)

Supply chain barriers, solutions, and the influence of ISO standards

By

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Chongwe district: Marketplace

Micro Tomato women-led farmers

- **Input (tomato seeds)**
- **Farm** (Waste issues)
- **Collection** (Waste Issues)
- **Market Place** (small yield or no return)
- **Waste** High levels
Chongwe District: Zambia
Women-led Farmers

Mwalumina, Chongwe District

Lwimba, Chongwe District

Lukoshi, Chongwe District
Chongwe Women’s Tomato Supply Chain - Zambia

- **Input (seeds)**
  - Organic produce

- **Farm**
  - Climate Smart Agri

- **Processing**
  - Premises/equipment/clothing
  - Organic produce

- **Packaging**
  - ISO 22000/patent/copyright

- **Storage/Collection**
  - Lack of storage space
  - Electric vehicles/transportation

- **Market Place**
  - Limited market relationships

- **Consumer**
  - Limited relationships

**Process Flow**

1. **FINISHED PRODUCT**
   - **FINISHED PRODUCT**

2. **FINISHED PRODUCT**
   - **FINISHED PRODUCT**

3. **FINISHED PRODUCT**
   - **Packed Finished Product**

**Steps**

1. **TOMATO SAUCE PROCESSING**
   - **Drying of Tomato**
   - **Dried Product**
   - **End Product**

2. **MAKING TOMATO SAUCE AND PASTE**
   - **Input (seeds)**
   - **Farm**
   - **Processing**
   - **Packaging**
   - **Storage/Collection**
   - **Market Place**
   - **Consumer**
Working Partnerships

**MICRO – Tomatoes (ZAMBIA)**
- Input (seeds) (Barriers/Solutions) Education
- Farm (Barriers/Solutions) Land rights / Farming practices / food loss
- Processing (Barriers/Solutions) Premises / equipment / clothing
- Packaging (Barriers/Solutions) ISO 22000 / patent / copyright
- Storage / Collection (Barriers/Solutions) No Storage
- Market Place (Barriers/Solutions) Limited market / Local Relationships
- Consumer (Barriers/Solutions)

**SMALL – Peas (KENYA)**
- Input (seeds) (Barriers/Solutions) Organic seeds
- Farm (Barriers/Solutions) Land rights / Farming practices / food loss
- Processing (Barriers/Solutions) Renting Premises
- Packaging (Barriers/Solutions) ISO 22000 / certification / patent / copyright
- Storage / Collection (Barriers/Solutions) Consolidation / Lack of storage space
- Market Place (Barriers/Solutions) Limited market / Local Relationships
- Consumer (Barriers/Solutions)

**Medium – Ginger Jam (KENYA)**
- Input (seeds) (Barriers/Solutions) Natural pesticide
- Farm (Barriers/Solutions) Climate Smart Agri
- Processing (Barriers/Solutions) SPS (Sanitary and Phytosanitary)
- Packaging (Barriers/Solutions) Cross-border inter-trade / patent / copyright / Labelling
- Storage / Collection (Barriers/Solutions) Renting Storage / Electric vehicles / transportation – Reducing carbon
- Market Place (Barriers/Solutions) Regional / Inter-trade Relationships
- Consumer (Barriers/Solutions)

**Large – Chilies (KENYA)**
- Input (seeds) (Barriers/Solutions) Low Carbon / Fertilization Management
- Farm (Barriers/Solutions) Biofuels / Electric vehicles / energy
- Processing (Barriers/Solutions) SPS (Sanitary and Phytosanitary)
- Packaging (Barriers/Solutions) International patent / copyright / sustainable / labelling
- Storage / Collection (Barriers/Solutions) Electric vehicles / transportation – Reducing carbon
- Market Place (Barriers/Solutions) Export / International Market
- Consumer (Barriers/Solutions)
AgriFund Domestic Supply Chain Management

Supply Chain

Input
- Input suppliers (seedling)

Farming
- Small Growers
- Large Growers

Collection
- Consolidators

Wholesaling
- Wholesalers

Retailing
- Market Place / Local shops
- Shops / Supermarkets

Consumption
- Consumers

Traceability

Scan
- Scan

Sensors

Risks

Sustainability of suppliers
- Non-treated seeds
- Non-GMO seeds
- Are the seeds in danger of being lost?

Integrity & security of person
- Health & Safety
- Livelihood
- Equity & Justice
- Natural Resources

Waste
- Recycling
- Sustainable transport
- Sustainable storage

Sustainability of wholesalers
- Compliance and regulatory
- Operational risk
- Financial risk

Waste
- Theft
- Compliance and regulatory
- Operational risk
- Financial risk

End of life cycle
### Our approach to empowering women and the role of ISO Standards

#### Capacities
- Developing transformation capacities:
  - Collaboration
  - Dialogue
  - Systems thinking
  - Foresight
  - Coping with complexity

#### Relationships
- Improving multiple relationships:
  - Opening dialogue among opponents
  - Weaving a network/ecosystem
  - Building new partnerships and alliances
  - Strengthening teams

#### Insights
- Gaining system insights:
  - Building systemic understanding
  - Setting common goals and directions
  - Informing strategies and policies
  - Shifting mindsets and narratives
  - Establishing new language
  - Deepening public debate and awareness

#### Commitments
- Empowering for new commitments:
  - Generating commitment to actionable strategies
  - Facilitating agreement on goals and directions
  - New policies and rules

#### Actions
- Increasing social innovation:
  - Incubating experiments and innovations
  - Accelerating collaborative actions
  - Impactful system interventions
Thank you for listening