

REPUBLIC OF KENYA



MINISTRY OF AGRICULTURE

Climate Change and the Agricultural Sector: Overview of National and Sectoral Initiatives and Programmes

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Mandate of Ministry of Agriculture

- Promote and facilitate production of food and agricultural raw materials for food security and incomes
- Advance agro-based industries and agricultural exports
- Enhance sustainable use of land resources as a basis for agricultural enterprises

How does Climate Change Impact Agriculture?

Kenya is richly endowed with

- soils
- climatic resources (Temperatures, radiation, rainfall)

Agriculture is a weather sensitive sector

- Changes in temperatures and rainfall patterns

Result in decline in Crop production due to:

- Water stress as a consequence of prolonged droughts
- Heat stress
- Inundation/degradation of farmland and crop damage by floods and landslides
- Increased level of pests and diseases
- Socio-economic factors

Ministry of Agriculture's Priorities Regarding Climate Change

Climate-Smart Agriculture that sustainably:

- Increases productivity
- Increases resilience (adaptation)
- Reduces/removes greenhouse gases (mitigation)
- Enhances achievement of national food security and development goals

National and Sectoral Initiatives and Programmes

➤ **Institutional Capacity**

- Climate Change Unit created to mainstream climate change adaptation and mitigation in all activities, programmes and projects of the ministry and to roll out priority actions in the NCCRS and NCCAP

➤ **Policy and Legislation**

- **Vision 2030** – Integration of environmental protection in agricultural production as a strategic thrust to address climate change

National and Sectoral Initiatives and Programmes ...

- **NCCRS, 2010** – Focuses on ensuring that adaptation and mitigation measures are integrated in all government planning and development objectives
- **ASDS, 2010-2020** – Stipulates commitment of all Agriculture Sector Ministries to implement NCCRS
- **NASEP, 2012** - modalities for effective management and organization of agricultural extension in a pluralistic system
- **Agriculture Farm Forestry Rules, 2009** – Stipulate compulsory farm tree cover of at least 10% to promote environmental services

National and Sectoral Initiatives and Programmes...

- **Agriculture, Fisheries and Food Authority Act (AFFA), 2013** – Consolidation of the laws for the regulation and promotion of agriculture to transform Kenyan Agric Sector to a commercially oriented and internationally competitive industry

➤ **Technological Development**

- Agricultural Technology Development Centres
 - Tillage equipment
 - Equipment for utilization of solar energy
- Research institutions
 - Drought tolerant crop varieties
 - Climate smart production techniques

National and Sectoral Initiatives and Programmes...

- **Micro-level adaptations** – Programmes and Projects to:
 - Promote efficient use of water for increased agricultural production
 - Enhance soil productivity and carbon sequestration
 - Enhance resilience of crop production systems
 - Promote efficient use of energy
 - Enhance food quality and quantity

National and Sectoral Initiatives and Programmes...

➤ **Market Responses**

- Value addition and diversity in existing range of products
- Market information
- Market development
- Regional and international trade

National and Sectoral Initiatives and Programmes...

Projects:

- Water harvesting for crop production project
 - Promotes water harvesting to enhance agric productivity
- Community based grain drying and storage project
 - Mobile grain driers and grain storage facilities
- Adaptation to Climate Change and Insurance (ACCI) project
 - Increase capacity of small scale farmers to adapt to CC by adopting climate risk measures
 - Promotion of index based agricultural insurance as a risk transfer option (Policy, Products, Publicity)
 - Develop method to measure change in farmers' adaptive capacity

Challenges

- **Institutional Capacity**
 - Insufficient Knowledge on Climate Change
 - Low budgetary allocation
- **Legislation**
 - Weak enforcement
- **Technological Development**
 - Low uptake
- **Micro-level adaptations**
 - Low uptake

Going Forward

- Collaborate with stakeholders to enhance institutional capacity, enforcement of legislation and uptake of technology
- Mobilize resources from Government and development partners (Climate Change Adaptation Fund)
- Mainstream and upscale adaptation through programmes and projects
- Roll out priority actions in the NCCAP, 2013-2017

Thank you



END