

Monitoring of Forest Resources in Respect to Climate Change: The case of Kenya



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Climate Change in Africa



- ❖ **46 % of Africa is affected by desertification and 55 % of areas are vulnerable (Geo-3, 2002)**
- ❖ CDM Initiatives
 - South Africa (15), Egypt (4), Morocco (4), Tunisia (2), Nigeria (2), Uganda (1) Tanzania (1) and Kenya (1).
 - Most of the actions not integrated in development plans and strategies (stand alone projects)
 - Weak development due to institutional (approval systems) economic, and financial constraints.

Climate Change in Africa Cont.



❖ **REDD**

- **Cameroon, Democratic Republic of Congo, Gabon, Ghana, Kenya, Republic of Congo, Senegal, Sierra Leone, Sudan, Tanzania, Uganda**
- **Most of the projects are supported by World Bank (Readiness stage)**
- **Smaller projects funded through the voluntary C market**

Challenges Facing Africa



- ❖ **Reforming the rules of market mechanisms such as the Clean Development Mechanism (CDM) to increase accessibility by African countries**
- ❖ **The procedures, technicalities, methodologies and beauracracies related to CDM and REDD limits most countries' participation in the Carbon markets**
- ❖ **Inadequate technical and sustainable financial capacity to implement mitigation and adaptation activities**

Forests Types and Area

Indigenous Forests: 1,140,000 ha



Plantation forests
197,000 ha



Open woodlands /Bush lands
26,560,000 ha



Rate of Change in Forest Area Since 2000 (FAO, 2010)

Category of forest	1990	2000	2005	2010	Annual change 1990 to 2010
Indigenous Forest	1240	1190	1165	1140	-5
Mangroves	80	80	80	80	0
Open woodlands	2150	2100	2075	2050	-5
State Plantations	170	134	119	107	-3.2
Private Plantations	68	78	83	90	+1.1
Bush-lands	24800	24635	24570	24510	-14.5
Farms with Trees	9420	10020	10320	10385	+48.3
Total Area	37928	28217	38412	38362	

Drivers of Deforestation and Forest Degradation

Illegal logging



Charcoal burning / over utilization

Land – use change



Forest fires



Why Forest Assessment?



- ❖ **Generate information to guide national policy processes and Support sustainable development programmes**
- ❖ **Enables long term monitoring of forestry resources**
- ❖ **Provides information to guide decisions for carbon trading schemes and projects**
- ❖ **Support International efforts to global monitoring of carbon emissions**

Research Issues



- ❖ **Development of forest inventory methodologies for volume and biomass equations**
- ❖ **Development of technologies for rehabilitation and forest restoration**
- ❖ **Determination of the C sequestration capacity of various tree/shrub species and the effect climate variables**
- ❖ **Establishment of a monitoring system to measure, report and verify (MRV) effects of GHG emissions on livelihoods, biodiversity and forestry sector**
- ❖ **Identification and development of species that can withstand the impacts of climate change**

Progress to Date



- ❖ National climate change strategy developed
- ❖ Grant Agreement with FCPF signed to support development of the Readiness activities
- ❖ Formulation and submission the **REDD Preparation Proposal** that will inform the framework for developing the Readiness activities
- ❖ Establishment a multi-institutional consultative forum for discussion

Kenya REDD+ Management structure



❖ **Multi stakeholder Technical Working Groups**

- **Consultation and Participation sub-group**
- **Methodology sub-group**
- **Policy and Institutional Subgroup**

Institutional Responsibilities



- ❖ **Policy and coordination:** *Kenya Forest Service*
- ❖ **Research and development – Kenya Forestry Research Institute and Universities**
- ❖ **Communications, Education and Awareness :** *media, universities, NGOs, civil society and training institutions*
- ❖ **Emissions Trading, CDM and Technology Transfer Division:** *the DNA, Development partners..*
- ❖ **Monitoring & Evaluation:** *External M&E experts, Internal Auditors, External Auditors, Office of the PM*

*Thank you
for
your attention!*