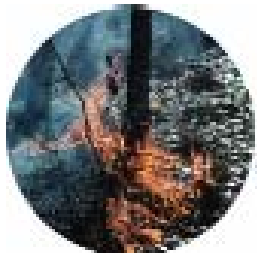


# CARBON AND COMMUNITIES IN TROPICAL WOODLANDS

*An International Interdisciplinary Conference*

*Edinburgh, UK*

*Tuesday, 17 June 2008*



MIOMBO  
NETWORK



*Abel Siampale – Forestry Department/PESAD (Zambia)*  
*Emmanuel Matsika – PESAD/Miombo Network (Zambia)*  
*Dominic Kwesha – Miombo (Mozambique)*



# The Integrated Land Use Assessment (ILUA) - Zambia

---

*Edinburgh, UK  
Tuesday, 17 June, 2008*

**The potential of carbon  
sequestration in  
the terrestrial ecosystems for  
Zambia**

# Zambia





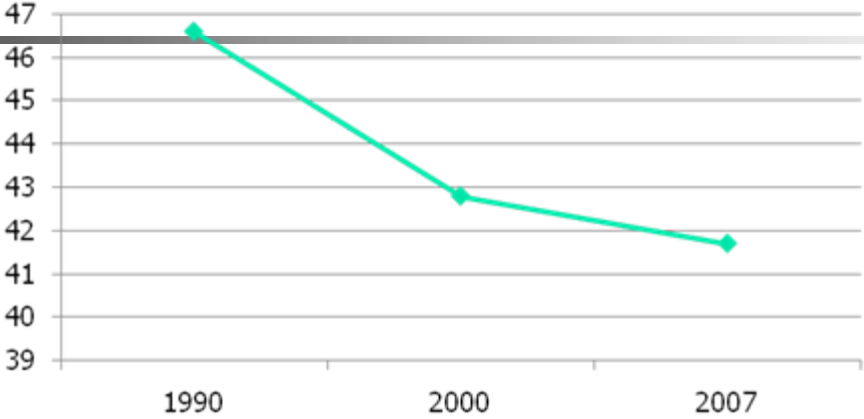
# Current Status of Forests

---

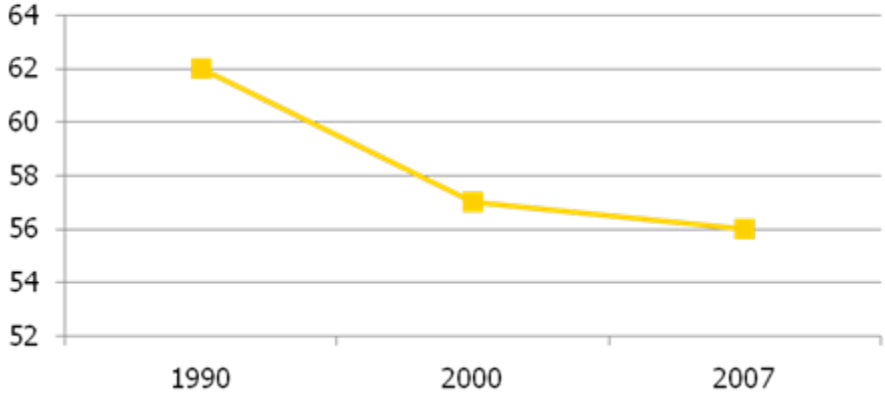
- Wooded area = 41.7m ha (55.4%)**
- FD conducted biophysical and socio-economic assessment (ILUA) in 2007**
- ILUA Partners: FAO, Fin. Govt, GRZ)**
- Generated Zambia land cover maps for 1990, 2000, 2007 from remotely sensed data**
- Determined most reliable deforestation rate**
- This forms baseline data for carbon sequestration projects**
- Updated 1976 vegetation map**

# DEFORESTATION RATE 1990 - 2005

### Forest Land (m ha) in Zambia



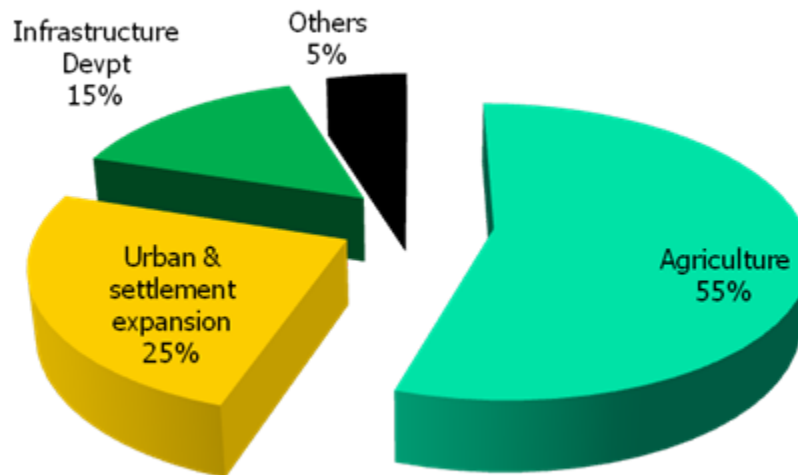
### Percentage Forest coverage in Zambia



# DEFORESTATION RATE 1990 - 2005

- ❑ Deforestation rate = 284,000ha/a.
- ❑ Charcoal production contribution ??

**Causes of Deforestation (1990 - 2007)**





# FOREST REGENERATION POTENTIAL

---

- ❑ **Miombo growth rate 1.3 to 2.1 m<sup>3</sup>/ha/a.**
- ❑ **Carbon sequestration potential is affected in two ways**
  - **Young growing trees have higher rate of carbon sinking**
  - **Older trees have highest quantities of carbon stored**



# CARBON SEQUESTRATION PROJECTS

---

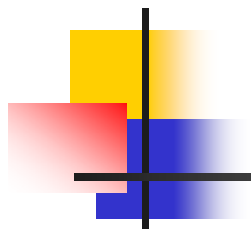
- ❑ Loss rate = 18.5mtC/a (**baseline**, can be potential saving if loss is mitigated - **additionality**)
- ❑ Revision of 1999 Forestry Policy to allow for protected areas for carbon sequestration
- ❑ Starting Point: ILUA, providing baseline data on AG biomass
- ❑ BG has been recommended
- ❑ Key issue: Impact of land tenure



# TOWARDS THE 2015 MDGs

---

- Collaborating with other institutions such as FD, MTENR, CBU, UNZA, CEEEZ, DoE, MEWD, PESAD, etc)
- Data and information to point to key issues to influence policy decisions
- Input into developmental needs and strategies
- Use AG data and information to initiate carbon stocks accounting
- Use ILUA framework for sustainable forest management
- Carbon sequestration project development



---

**Thank You!**

**Zikomo!**