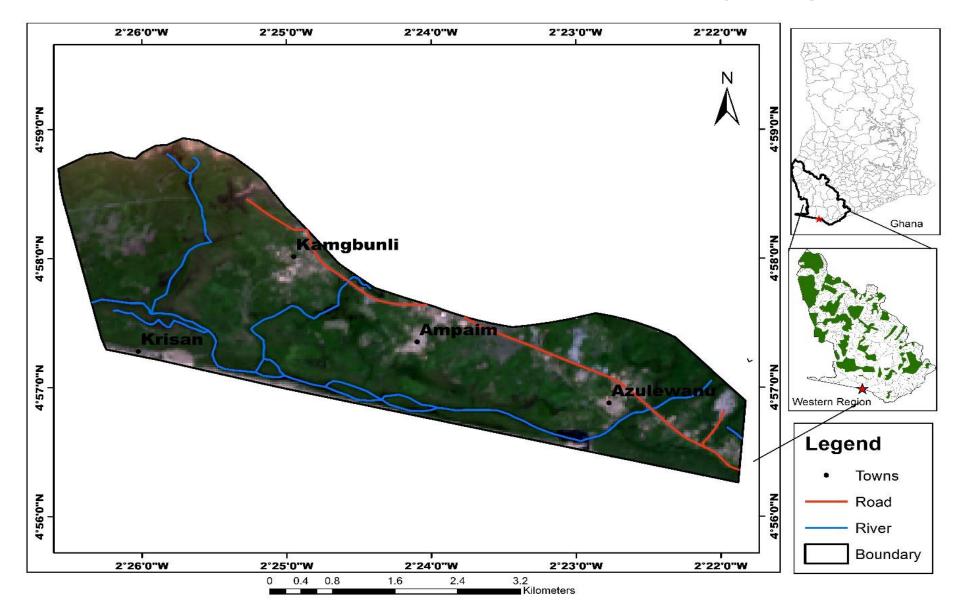
SPATIAL MAPPING OF CARBON STOCK IN MANGROVES IN THE ELLEMBELLE DISTRICT.



Dr. E.M. Osei Jnr Rev. John Ayer

Mangroves



Benefits of Mangroves

- Mangrove protect the coastline.
- Provides a perfect breeding habitat through its roots system for countless fish, crabs and shrimps.
- Have high density wood good for timber for boats, firewood, fences.
- Nowadays used for charcoal production.
- Used for dyeing leather... Tannins.
- The extract from the bark of mangroves is very good medicine.

What is happening to our mangroves?





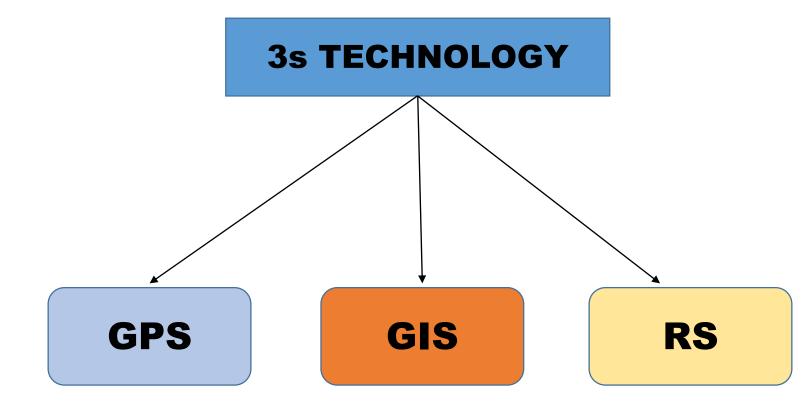
Deforestation

Afforestation

Method

AIM

- 1. To map out mangrove and determine the rate of change of the areal extent of mangrove.
- 2. To determine the amount of carbon sequestered in mangroves



This Presentation concentrates on the 1st Aim.

What was used for the Research?

Satellite Image---(USGS → earthexplorer.usgs.gov)

Landsat Imagery

1991

2000

2015

2000

Landsat 4 Landsat 7 Landsat 8

Software

ArcGIS Software

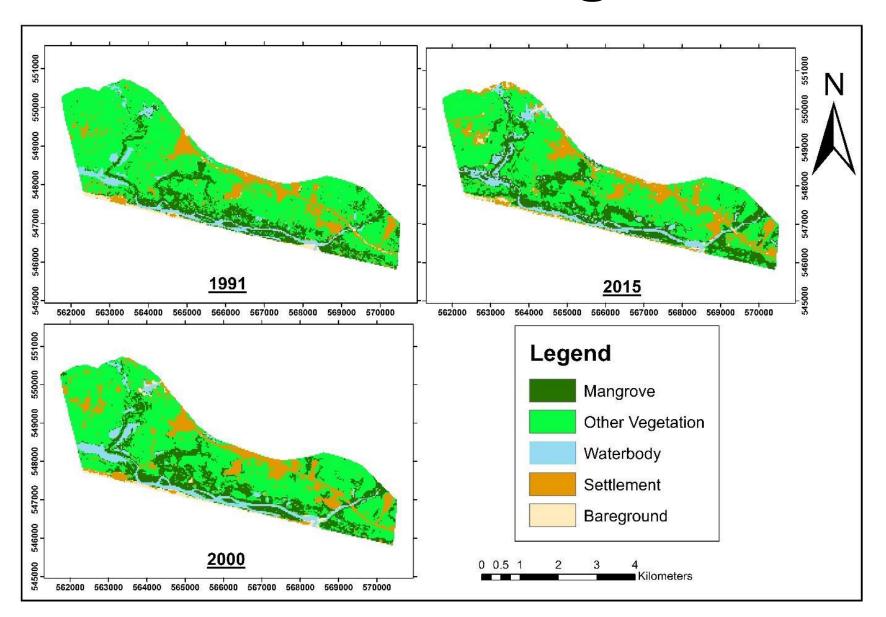
❖IDRISI Kilimanjaro

❖R Studio

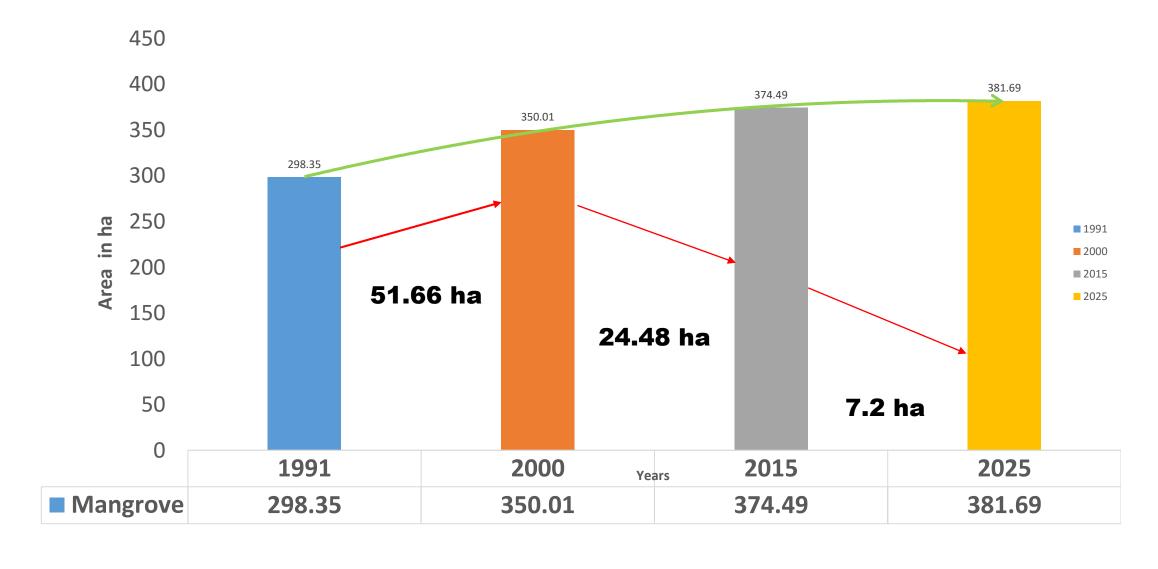


1991

Classified images



Rate of change of areal extent of mangrove



Further Research

- Salinity also has an effect on growth of mangrove.
 - Increase in the salinity of the mangroves can affect the growth rate of mangroves.
- There is more room for research on mangroves in Ghana.

Thank you