



**ALFRED NZO**  
DISTRICT MUNICIPALITY

# **Climate Change Information Sharing**

PLACE OF UNITY IN DIVERSITY

**Presenter: S. Zukulu**



**ALFRED NZO**  
DISTRICT MUNICIPALITY

# Overview

- Background.
- Climate Change Committee.
- Learning Exchange.
- Vulnerability Assessment.
- Climate Change Summit.
- Lets Respond Tool Kit.
- Climate Change Strategy.

PLACE OF UNITY IN DIVERSITY



**ALFRED NZO**  
DISTRICT MUNICIPALITY

# Background

- ANDM- increasingly recognized as one of the areas in South Africa that will be hardest hit by climate change
- However, its natural biodiversity and ecosystems resource base presents significant opportunities for adaptation and building local community resilience against extreme hazards and adverse climate change impacts.

PLACE OF UNITY IN DIVERSITY



**ALFRED NZO**  
DISTRICT MUNICIPALITY

# Journey

- Existence of UCPP-platform for CSA/ANDM collaboration.
- Introduction of the Climate Change Adaptation Concept
- MOU developed and signed by all LM's, ANDM and CSA

PLACE OF UNITY IN DIVERSITY



**ALFRED NZO**  
DISTRICT MUNICIPALITY

# Climate change committee(CCC)

- Comprised of 4 LM's, ANDM, Sector Departments, CSA, SALGA.
- TOR were developed for establishment of CCC
- CCC responsible for integration of climate change into the IDP.
- Chaired by ANDM Environmental Management Unit.

PLACE OF UNITY IN DIVERSITY



**ALFRED NZO**  
DISTRICT MUNICIPALITY

# Learning Exchange

- The Namakwa District provides a comparative study which could be applied and also used to verify ANDM findings.
- Climate forecasting scenarios have highlighted a pattern of an increase in temperature and a reduction in precipitation.

PLACE OF UNITY IN DIVERSITY



**ALFRED NZO**  
DISTRICT MUNICIPALITY

# Vulnerability Assessment (VA)

- This was a CSA funded initiative.
- Objective:
  - undertake a scientifically robust and logical process to examine the climate change context in Alfred Nzo District.
  - identify the key areas for Supporting Climate Change Resilience, Ecological Infrastructure and Ecosystem-based Adaptation.

PLACE OF UNITY IN DIVERSITY

# VA outcomes

- Modelling of likelihood scenarios for primary climatic variables:
  - temperatures both medium (50 year) and long term (100 years)
  - rainfall patterns both medium (50 year) and longer term (100 years)





**ALFRED NZO**  
DISTRICT MUNICIPALITY

# VA outcomes.....

- Medium term: average temperatures are expected to rise by 1.7°C across the district.
- Medium term: decrease in annual rainfall is expected across the district, with main changes being spring and summer rain decrease, and increased winter rainfall.

PLACE OF UNITY IN DIVERSITY

# VA outcomes

- Long term: average temperature expected to rise by an average of 3.7°C above current conditions for the district as a whole.
- Long term: 5.4mm rainfall increase is predicted across the district,
- Grasslands, Savanna and Coastal belt biomes will be affected by all these changes.



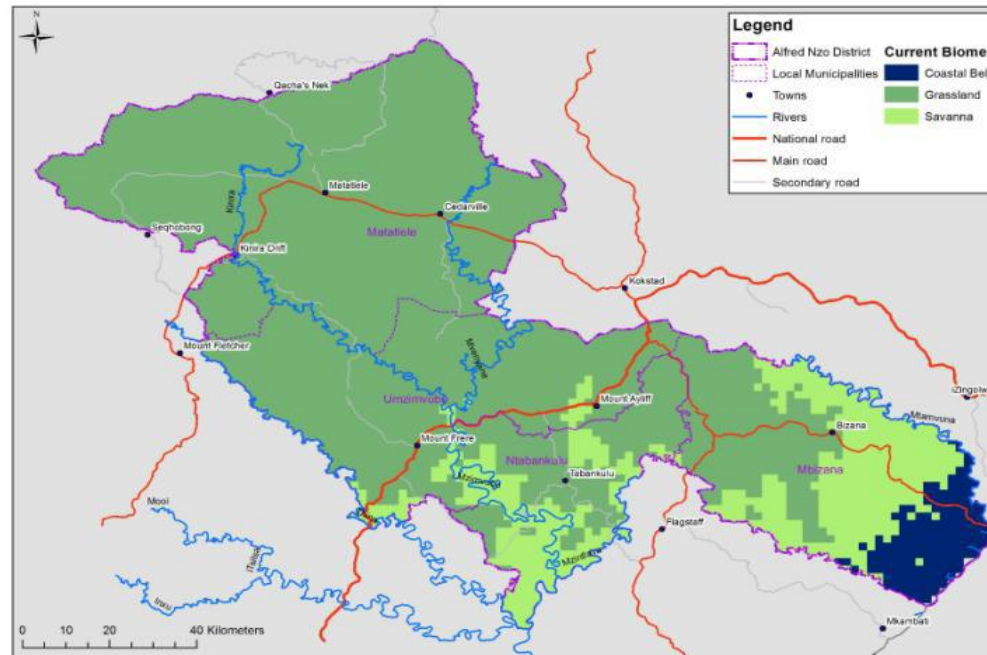
**ALFRED NZO**  
DISTRICT MUNICIPALITY

# VA Outcomes

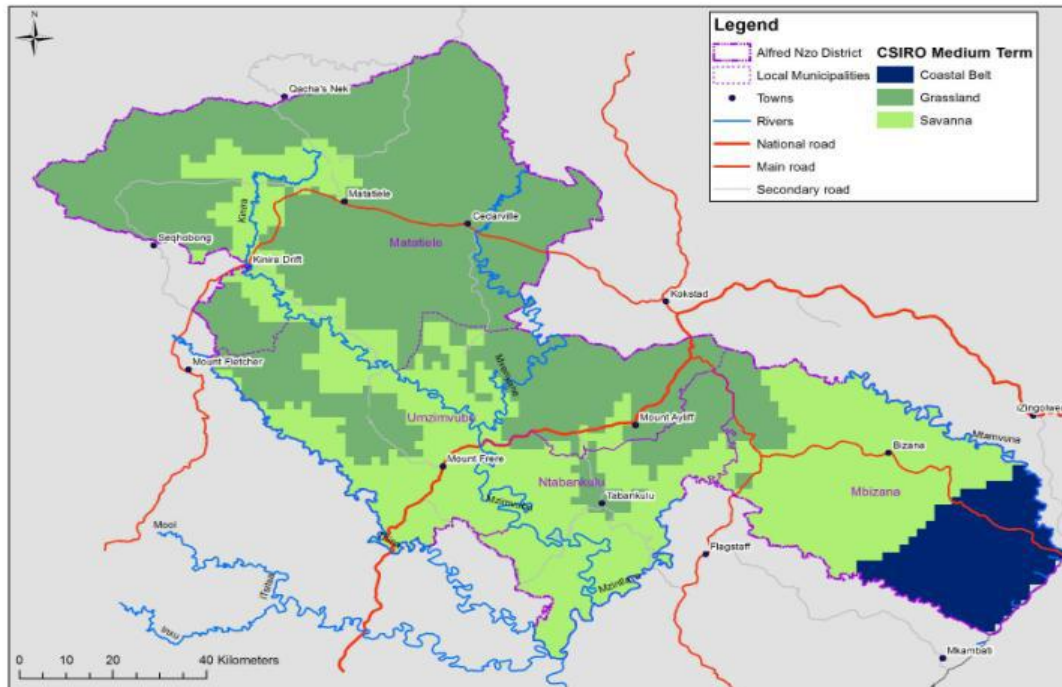
- Biodiversity priority areas & water related EI
  - areas important for protection (Protected areas expansion)
- Ecosystem Based Adaptation
  - importance of maintaining and restoring Ecological Infrastructure (rivers and wetlands)
  - areas important for supporting climate change resilience

PLACE OF UNITY IN DIVERSITY

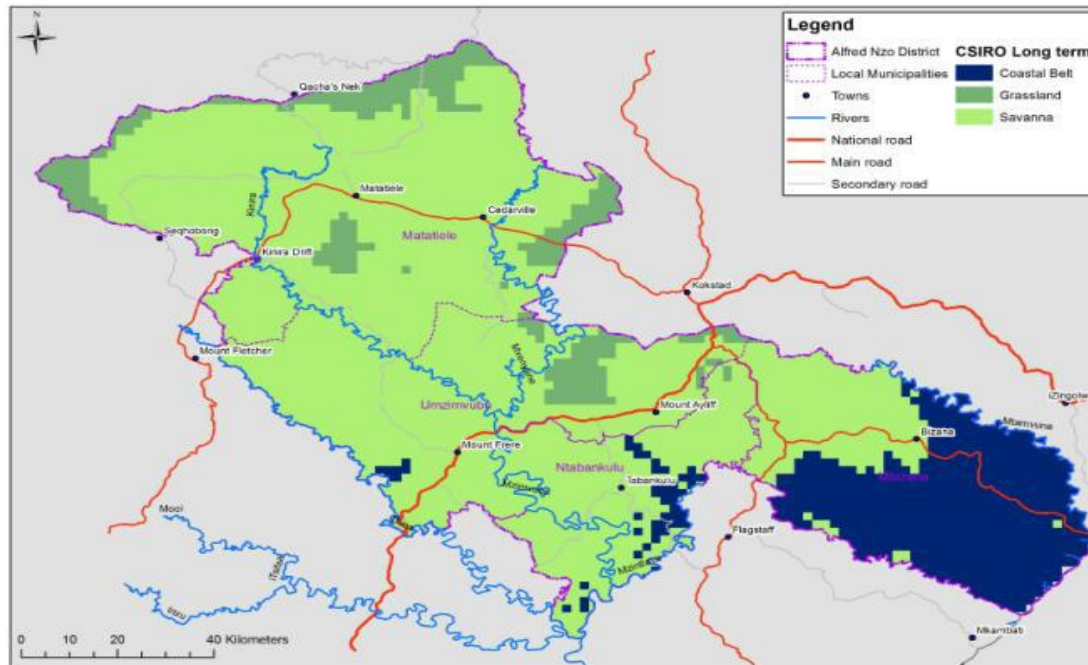
# Current ANDM biomes



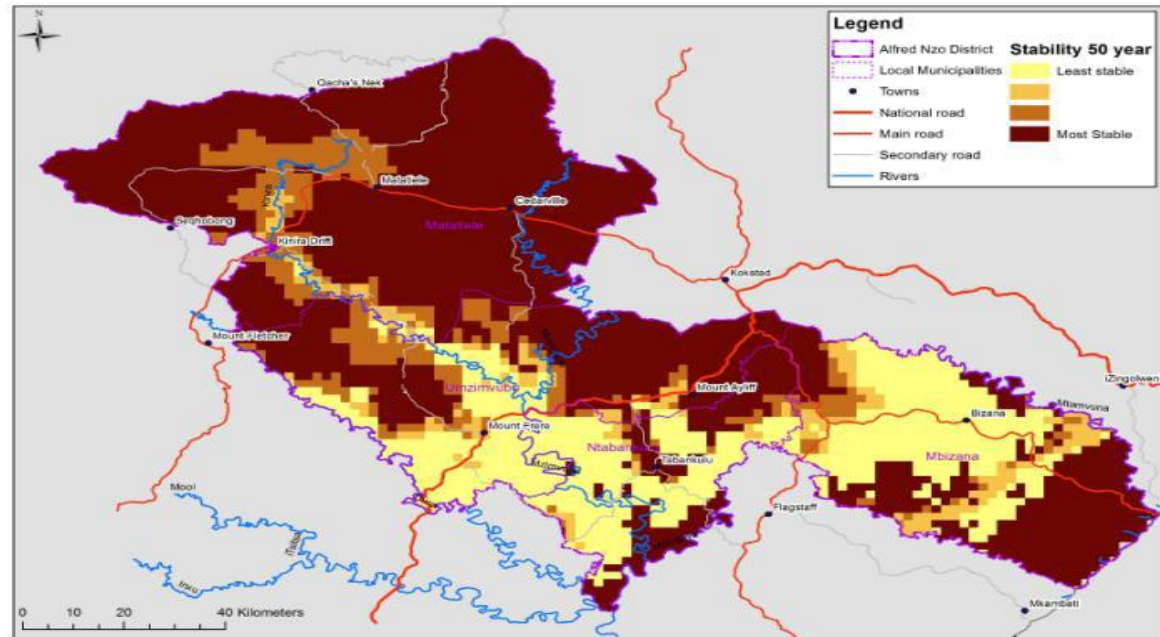
# ANDM biomes in 50yrs



# ANDM biomes in 100yrs

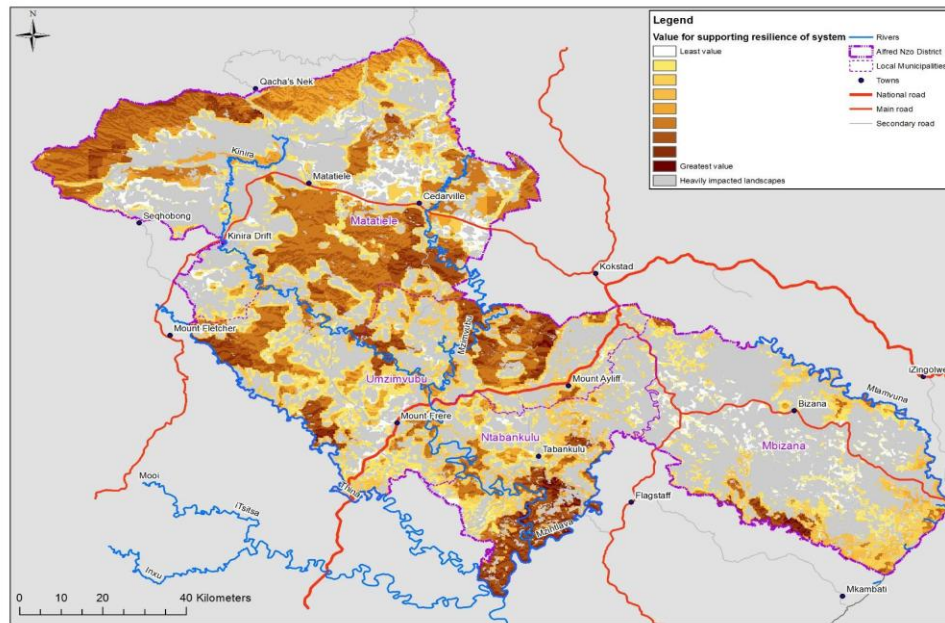


What needs to be done? Conserve the darker areas.



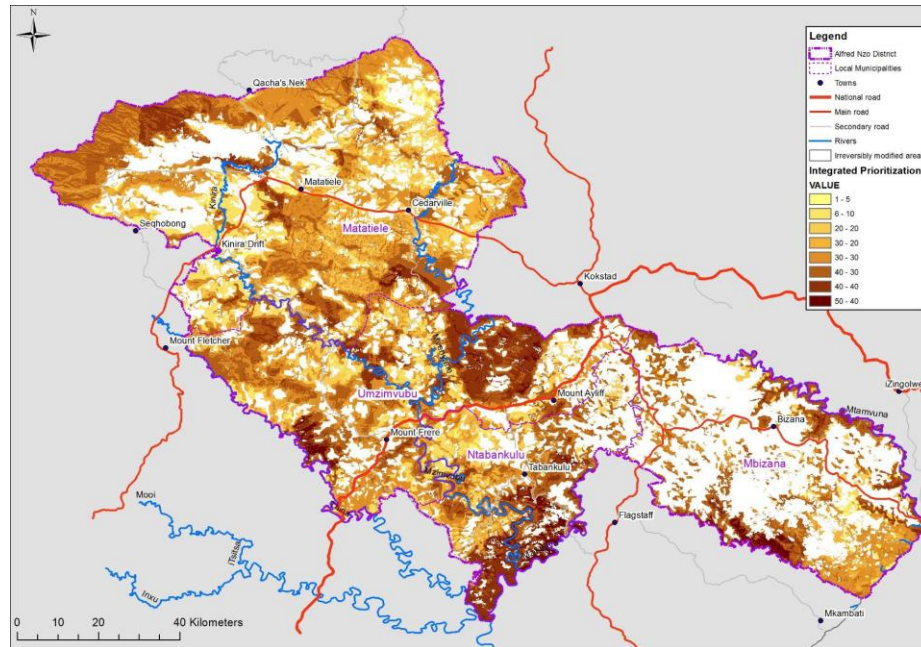


# Value of areas for supporting resilience to climate change impacts





# Areas important for Ecosystem-based Adaptation to climate change impacts



# How?

- In IDP's:
  - Job creation projects
  - Adaptation projects
  - Climate resilience projects
  - Infrastructural resilience or sustainability



# Climate change summit

**ALFRED NZO**  
DISTRICT MUNICIPALITY

- CCC Summit held in April 2014 and its objectives were:
  - ✓ To share ANDM climate change vulnerability assessment report with relevant stakeholders.
  - ✓ To develop a sector-based climate change adaptation strategy which would help vulnerable people becomes more resilient to climate change.
  - ✓ To discuss how the climate change committee can inform infrastructure planning.
  - ✓ To prioritise areas and projects for climate change adaptation and disaster avoidance..

PLACE OF UNITY IN DIVERSITY



**ALFRED NZO**  
DISTRICT MUNICIPALITY

# Lets respond tool kit

- ANDM/SALGA and CSA collaboration.
- Rollout of lets respond toolkit in the district focused on integrated development and how to incorporate climate change issues into municipal IDP.
- SALGA /ANDM CCC workshop

PLACE OF UNITY IN DIVERSITY



**ALFRED NZO**  
DISTRICT MUNICIPALITY

# Climate change response strategy

- Climate Change and IDP's:
  - Job creation projects
  - Adaptation projects
  - Climate resilient projects
  - Sustainable Infrastructure projects
  - Biodiversity protection
  - Wetlands management

PLACE OF UNITY IN DIVERSITY

# What to do?

- Manage land well e.g. rangelands management.
- Rehabilitation of degraded land (dongas & AIP)
- Community Stewardship through (CW office).
- ID various funds (NRM) & others (CC strat).
- Climate proof or climate resilient projects
- Land management related bylaws at ward level



**ALFRED NZO**  
DISTRICT MUNICIPALITY

*thank you*

PLACE OF UNITY IN DIVERSITY

ERF 1400 NTSIZWA STREET, PRIVATE BAG X 511, MOUNT AYLIFF, 4735, TEL: 039 254 5000, FAX: 039 254 0343, WWW.ANDM.GOV.ZA

CUSTOMER CARE LINE: 086 000 3781