



ALFRED NZO
DISTRICT MUNICIPALITY

Climate Change Information Sharing

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Overview

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

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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.

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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

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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.

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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.

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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.

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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)

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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.

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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.

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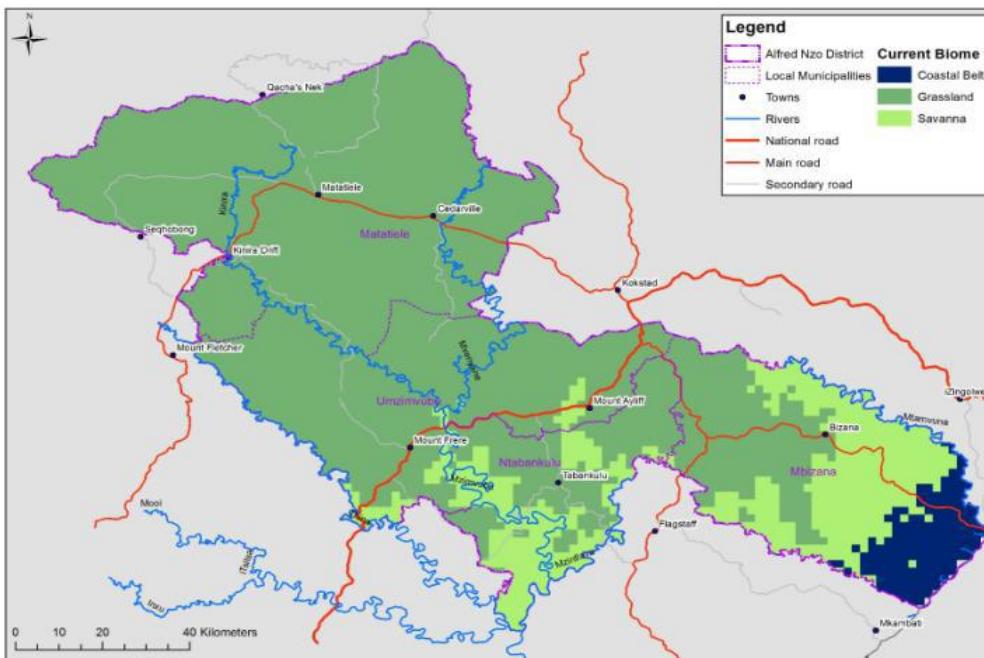
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VA Outcomes

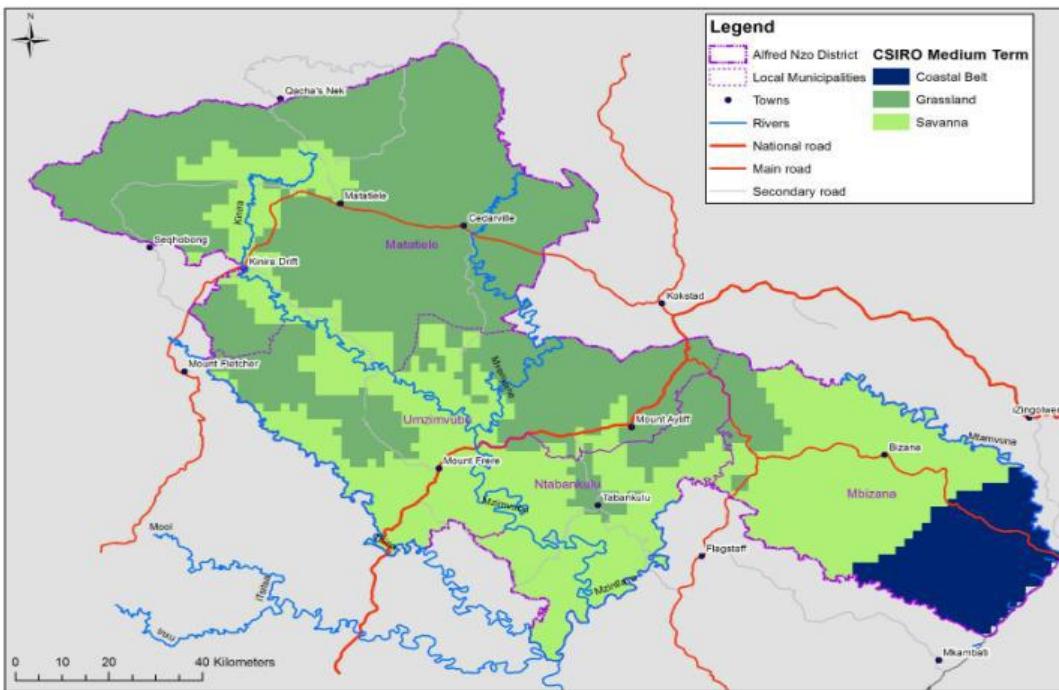
- Biodiversity priority areas & water related EI
 - areas important for protection (Protected areas expansion)
- Ecosystem Based Adaptation
 - importance of maintaining and restoring Ecological Infrastructure (rivers and wetlands)
 - areas important for supporting climate change resilience

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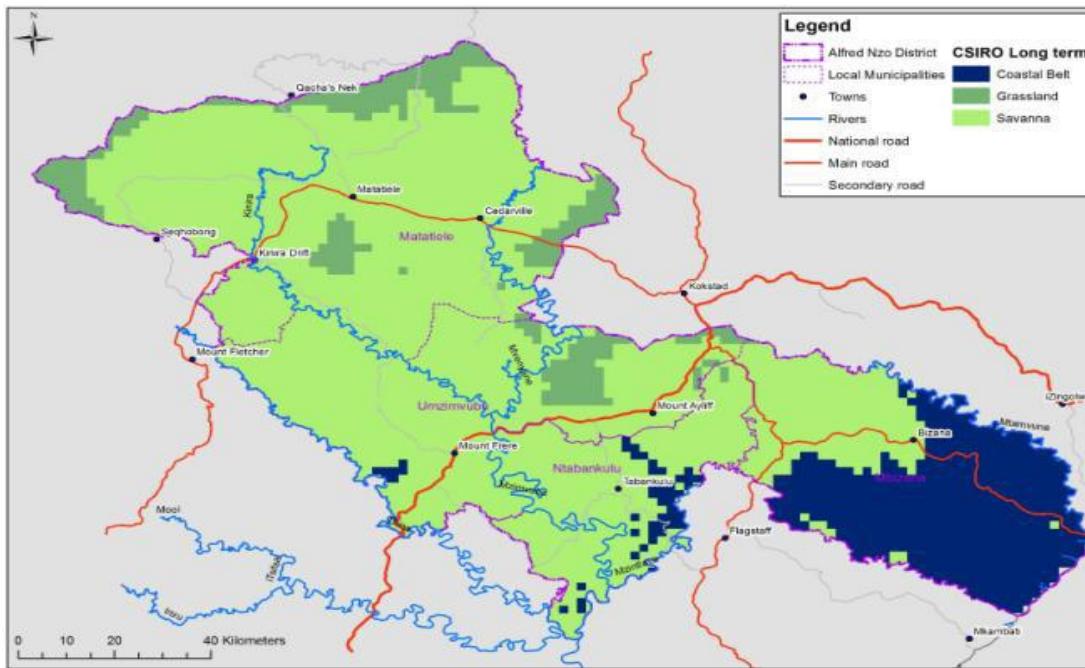
Current ANDM biomes



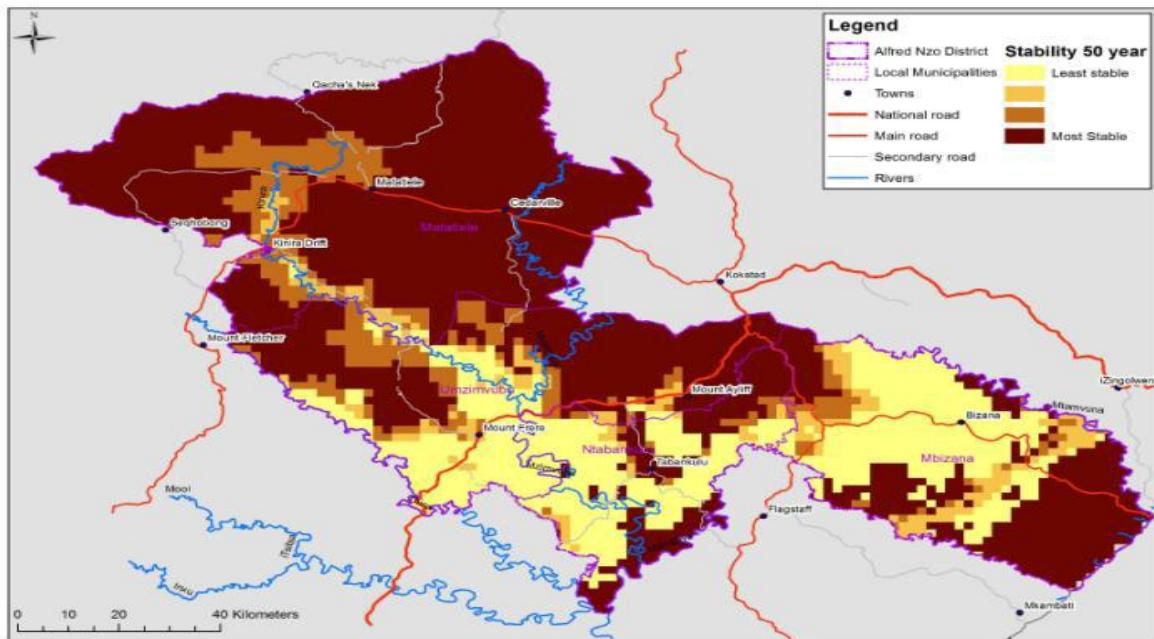
ANDM biomes in 50yrs



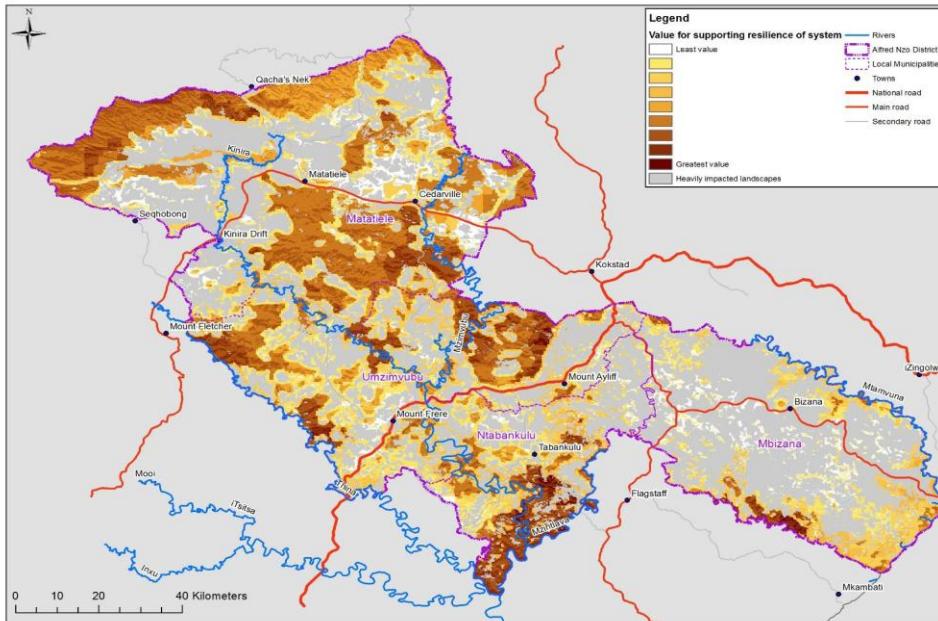
ANDM biomes in 100yrs



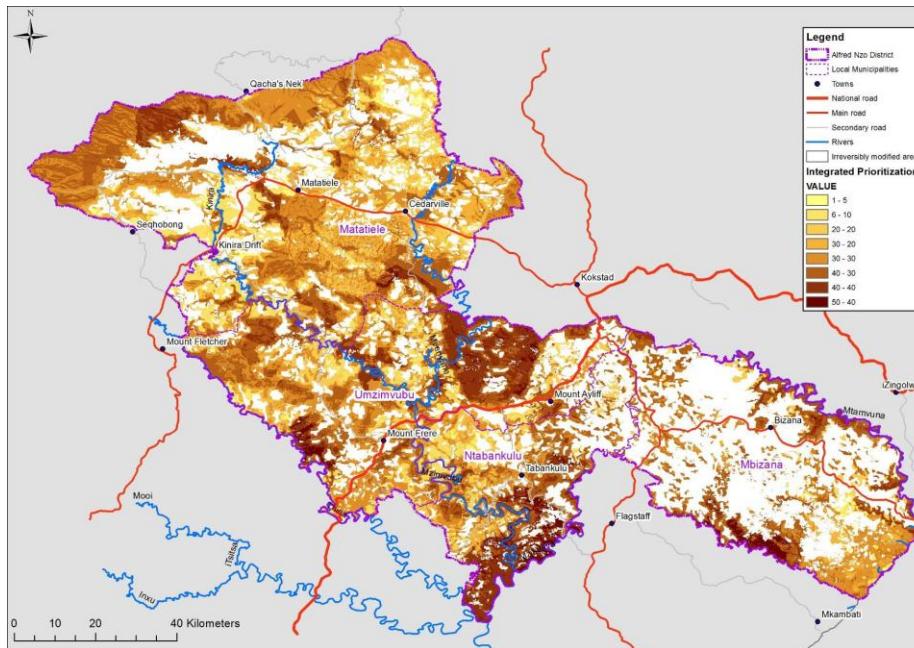
What needs to be done? Conserve the darker areas.



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



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Climate change summit

- 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..

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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

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Climate change response strategy

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

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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



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Thank you

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