

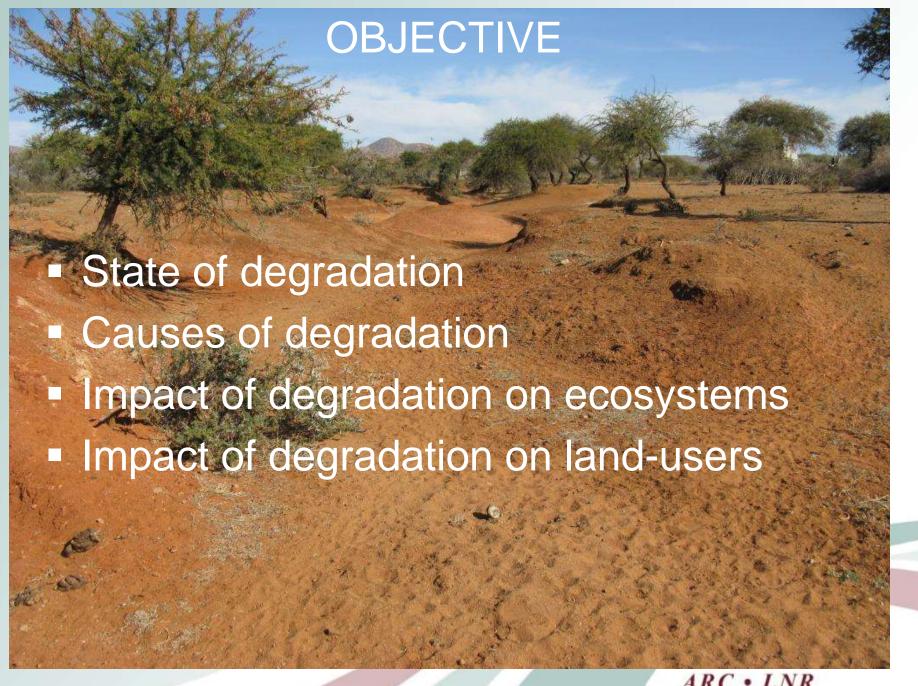
# LOCAL LEVEL LAND DEGRADATION ASSESSMENT IN THE MPHANAMA VILLAGE -VEGETATION SURVEY

P J J Breytenbach\* and G Trytsman ARC-API Rangeland and Nutrition

#### INTRODUCTION

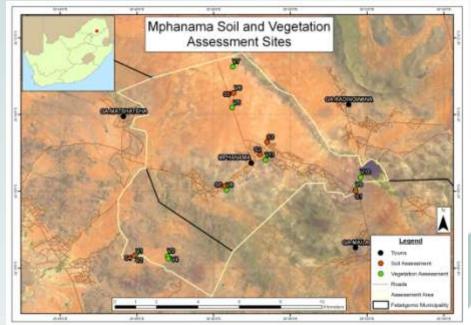
- Degradation and desertification
- Food security, poverty, urbanization, climate change, loss of biodiversity
- Vegetation degradation species composition, loss of plant cover, bush encroachment





#### STUDY AREA

- Fetakgomo Municipality Mphanama village
- Sekhukhune Bushveld according to Mucuna and Rutherford





#### **METHODS**

# Vegetation survey LADA-L manual:

 Point method for species composition, basal cover (200m line transect)



 Veld condition – subjective method that include density, basal cover, botanical composition, vigour and the condition of the soil surface.

#### **RESULTS**

#### State of degradation

- Basal cover <1% to 4%</li>
- Veld condition very poor
- Standing biomass very low





#### DISCUSSION

#### Causes of degradation:

- No veld management plan
- Lack of fencing and animal control
- Stock theft community kraals close to town and river



Impact of degradation

Soil erosion due to low vegetation cover

especially close to river



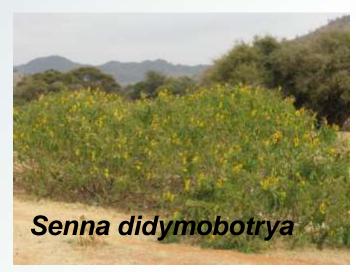


# Bush encroachment in area adjacent to river Acacia tortilis



High occurrence of declared exotic and invasive species





Also Agave sisalana, Opuntia ficus-indica



#### Impact on livelihood

- Poverty
- Socioeconomic development implications



## **DISCUSSION** (Cont.)

#### Recommendation:

- Dissemination and replication of good management practices and technologies
- Effective participation by a broad range of stakeholder groups such as the traditional leaders, community, the Department of Water and Environmental Affairs (DWEA), the Limpopo Department of Agriculture (LDA) and the municipality.

# Acknowledgments

- The community members who participated in the focus group discussions, household interviews and transect walks.
- The Ward Committee for mobilizing the community
- The local Department of Agriculture for organizing and facilitating community meetings



# THANK YOU

