

# FIS/FFM training Presentation

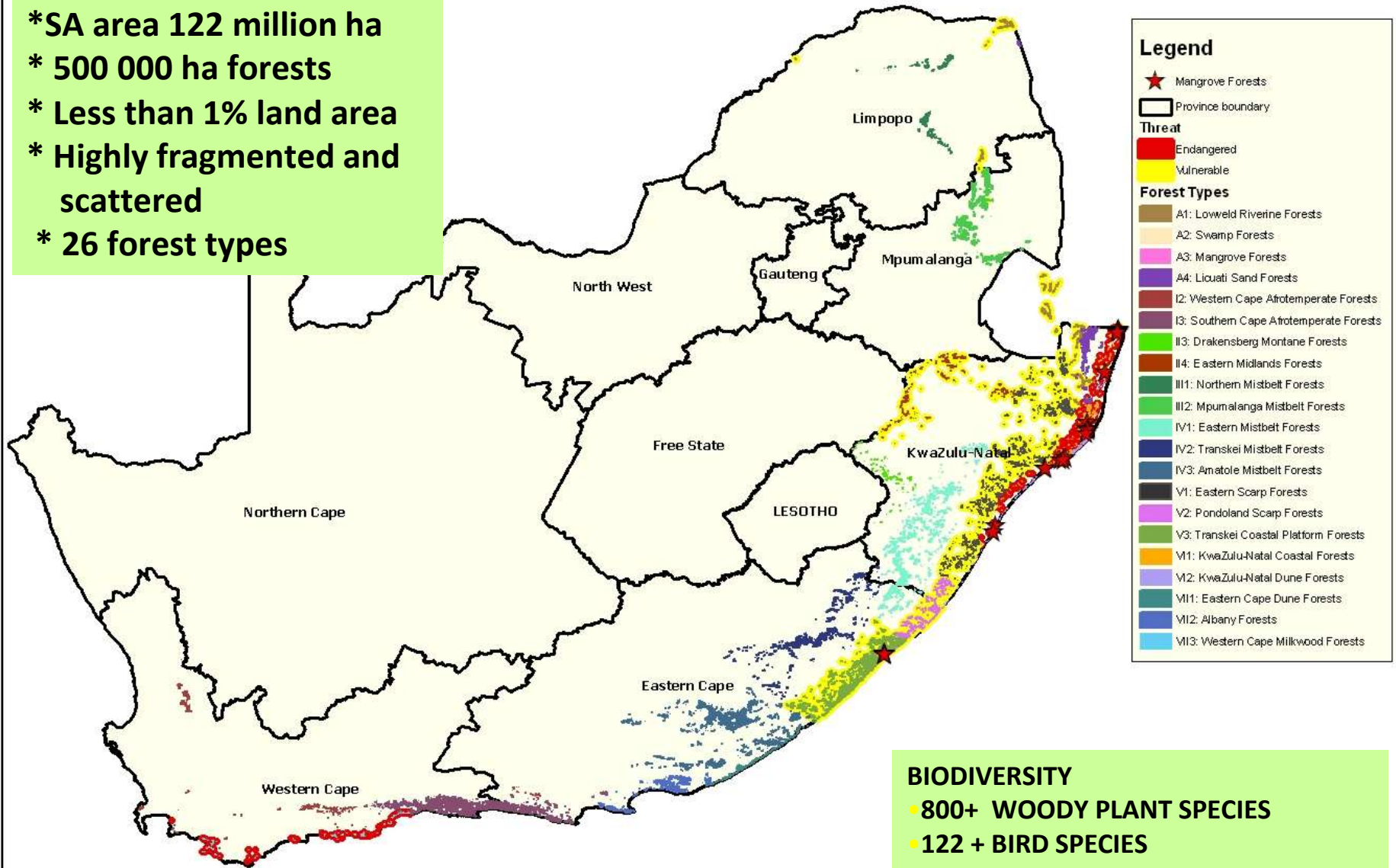
Presenter: Team South Africa



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- \* SA area 122 million ha
- \* 500 000 ha forests
- \* Less than 1% land area
- \* Highly fragmented and scattered
- \* 26 forest types



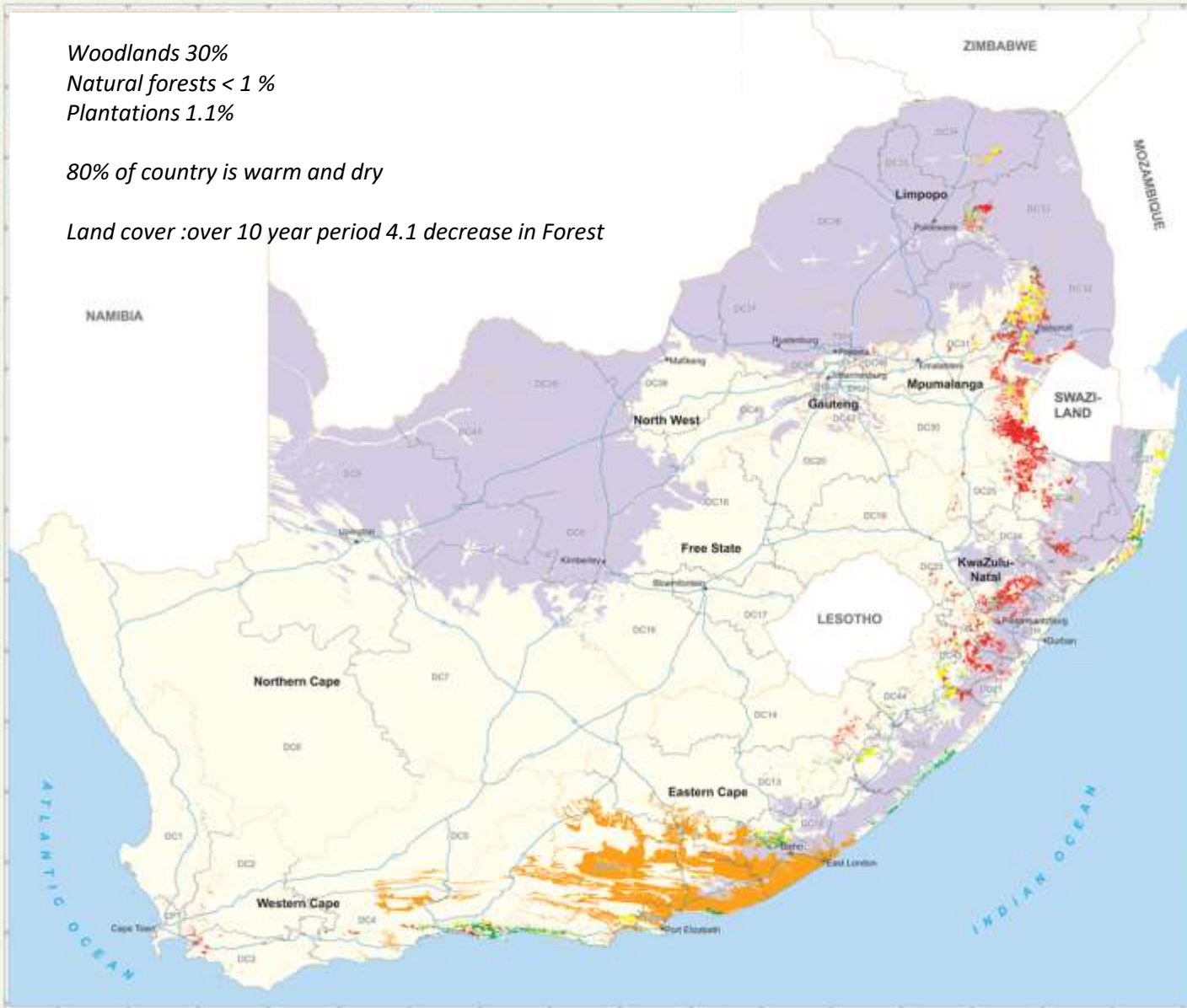
**BIODIVERSITY**

- 800+ WOODY PLANT SPECIES
- 122 + BIRD SPECIES
- 53 + MAMMAL SPECIES

Woodlands 30%  
 Natural forests < 1 %  
 Plantations 1.1%

80% of country is warm and dry

Land cover :over 10 year period 4.1 decrease in Forest



## Republic of South Africa Forestry Resource Map

**Legend**

- Private Owned Plantation
- DAFF Owned Commercial Plantation
- Savanna Woodlands
- Albany Thickets
- NFI Indigenous Forests

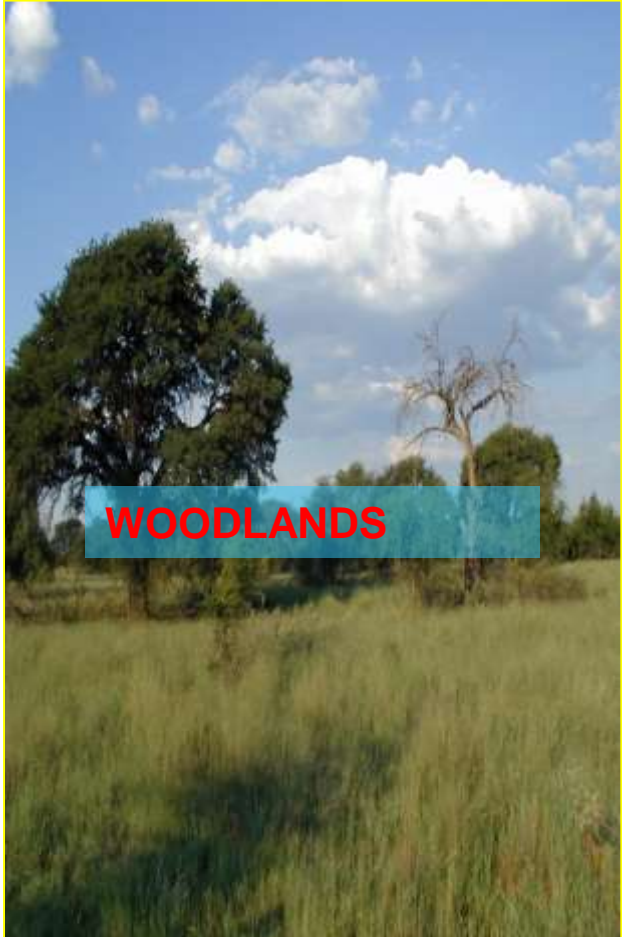
**Legend**

- Major Cities
- National Roads
- Provincial Boundaries
- International Boundaries
- District Boundaries



**Notes:**  
 This map is published with the best available information and the Department of Agriculture, Forestry and Fisheries does not accept any liability for errors or omissions. The map is for general information only.  
 Data sources and acknowledgements:  
 Major Cities: Census of Statistics, Department of Statistics  
 National Roads: Department of Transport  
 Provincial Boundaries: Department of Home Affairs  
 International Boundaries: Department of Home Affairs  
 District Boundaries: Department of Home Affairs  
 Private Owned Plantation: Department of Agriculture, Forestry and Fisheries  
 DAFF Owned Commercial Plantation: Department of Agriculture, Forestry and Fisheries  
 Savanna Woodlands: Department of Agriculture, Forestry and Fisheries  
 Albany Thickets: Department of Agriculture, Forestry and Fisheries  
 NFI Indigenous Forests: Department of Agriculture, Forestry and Fisheries  
 Date: 2010  
 Author: [Name]  
 Project: [Name]





**WOODLANDS**



**NATURAL FOREST**



**PLANTATION**



agriculture,  
forestry & fisheries

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**ROADS, SERVITUDES  
& FIREBREAKS**



**THREATS TO COASTAL  
FORESTS**



**LAND CLEARANCE FOR  
AGRICULTURE**



**DESTRUCTIVE PRUNING  
& CUTTING**



**DEVELOPMENT &  
SETTLEMENT**



# FIS Current Status

- To use the computers provided to develop a forest information system (challenges: connection speed to internet i.e. GEE and online resource firewall policy i.e. dropbox)
- Lack of resources especially to conduct ground truthing exercise
- Lack of adequate information to support a forest information for example we have Land cover, and conducted pilot for Forests Resource Assessment(FRA) in two local districts, we have no enough resources for National forest inventory (NFI).
- Thus no baseline data for NFI since data is in different times and different organisations(standards)
- Integrated FIS with existing Fires data/system
- We want to SADC design the survey form learned through the project to conduct survey enumeration for the commercial State owned plantations, to be used for operational management and national reporting for commercial plantation managers.
- We want to Web enable the results generated, to share and receive inputs and improvements from Geo/Forestry community.



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# FIS FUTURE PLANS

We need assistance on the following:

- **Conduct the 1st phase Remote Sensing/GIS baseline data generation of our national Forests Resource Assessment.**
- **Develop forests permanent plots. sampling design, stratification design and maximizing the use of sample data i. e. Limited and missing sample.**
- **Early warning system for change in percentage of canopy cover where forest degradation can be detected, before it becomes deforestation.**
- **Created Forests boundary land parcel and database, to avoid disputes and illegal occupations in/on Forest reserves land.**
- **Lastly SADC/JICA should look into developing a User Community Forum with video and FAQ, for Member State continue to engage and share ideas.**



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## FFM CURRENT STATUS

- Fire Protection Associations registered
- Risk assessments conducted
- Strategic firebreaks planned and executed
- Fire awareness campaigns
- Training
- Risk reduction exercises
- Fire statistics and information gathering
- Cross boarder MOA with legal services
- Fuel load monitoring project using tablet PC



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## FFM FUTURE PLANS

- National fire awareness strategy drafted
- National wildfire risk classification
- AFIS burnt scar and statistics
- Fire symposium with Nelson Mandela University
- Establish cross boarder task teams
- Ground truth certain fires using the tablet PC
- Planned new ICS training (accredited by UFS)



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Thank you



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