RESTORING THE MIOMBO IN MALAWI'S FOREST RESERVES

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OUTLINE

- Deforestation and Degradation status
- The struggle in addressing the drivers of DD
- The Reforestation Plan
- Miombo in the Forest Reserves
- Growth rates and Utilization

DEFORESTATION AND DEGRADATION IN MALAWI

Degraded Areas and Annual Rates

The total area of forest degradation from 2000 to 2009 was 386,648 ha, and from 2009 to 2015 was 431,266 ha. On an average annual basis we estimated forest degradation rates for the period, 2000–2009, to be 42,961 ha yr–1 and from 2009 to 2015 to be 71,878 ha yr–1.

Forest degradation has always been highest in forest reserves and other government managed areas: 64% of all degradation detected in the period 2000–2009 was in government managed areas, increasing to 72% in 2009–2015.

In customary and other rural landscapes deforested area and degraded areas and rates were quantitatively approximately equal.

Deforested Areas and Annual Rates

From 2000 to 2009, the total area deforested, which is the complete conversion of forest to another land cover, was 201,688 ha.

The average annual rate of deforestation was 22,410 ha yr-1.

The area deforested between 2009 and 2015 was slightly higher at 233,624 ha. This is an annual average rate of deforestation of 38,937 ha yr-1.



THE STRUGGLE IN ADDRESSING DEFORESTATION

Population Growth

Other Non Energy Demands

Agriculture Expansion

Biomass Energy Demands

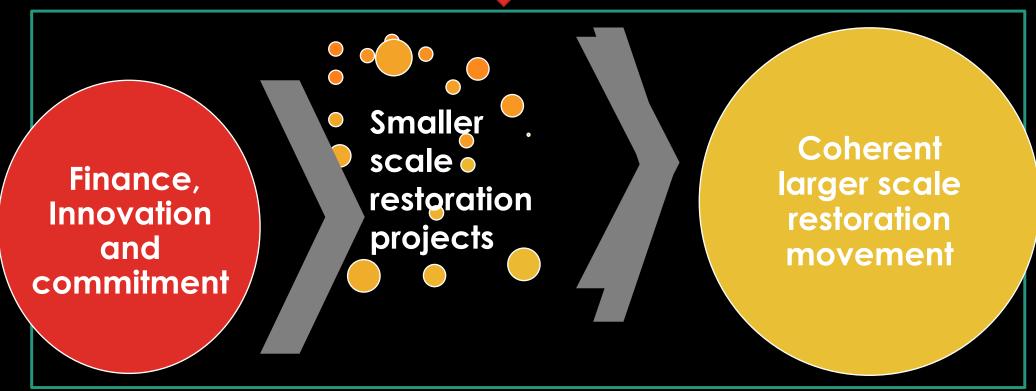
Tobacco Growing

MALAWI RESTORATION MOVEMENT

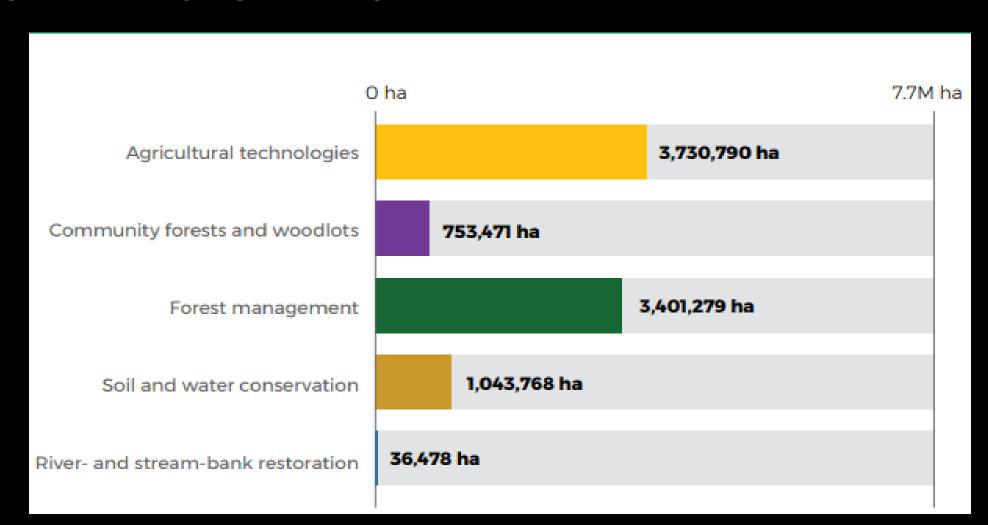


MALAWI NATIONAL FOREST LANDSCAPE RESTORATION STRATEGY

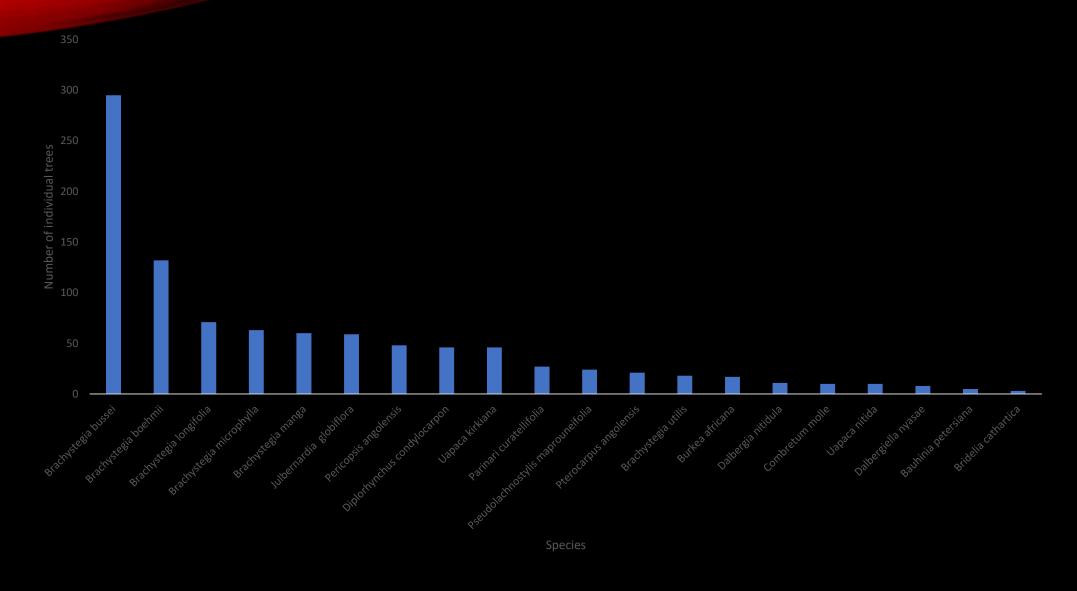




ESTIMATED AREA OF OPPORTUNITY COMPARED TO TOTAL RESTORATION AREA IN MALAWI



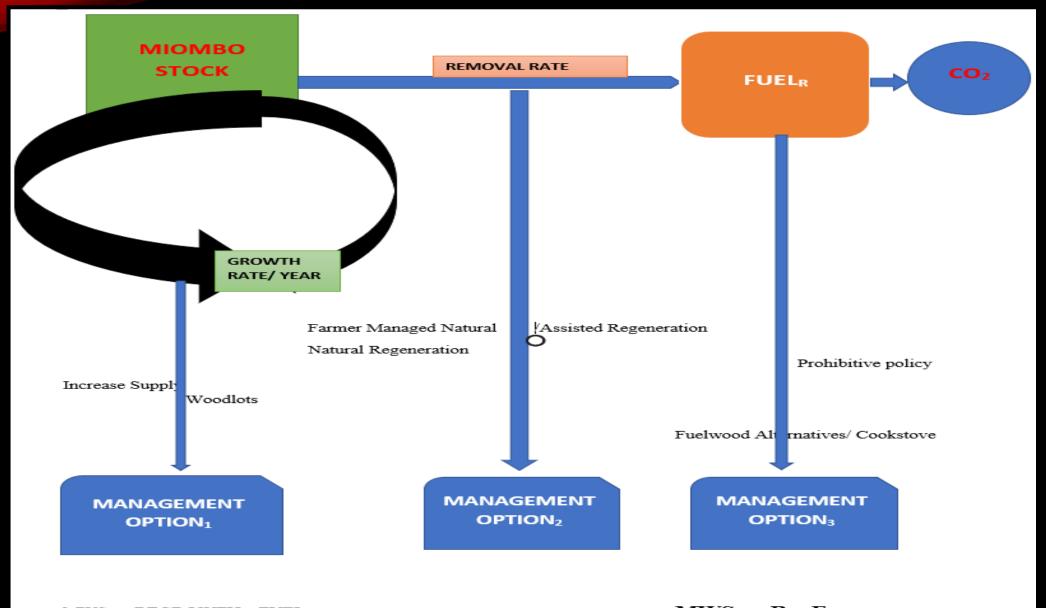
MATURE TREE ABUNDANCE IN LIWONDE FR



GROWTH RATES FOR SOME MIOMBO IN LIWONDE FR

Species	Growth ring width		Species	ADI in mm/yr
	(mm)			(PSP)
Brachystegia bussei	1.94	± 0.05 ^b	Brachystegia	0.234375
Brachystegia boehmii	1.89	± 0.05 ^b	Boehmii	
Brachystegia utilis		± 0.13 ^b	Brachystegia Bussei	0.225670
Julbernardia globiflora	2.97	± 0.16°	Brachystegia Utilis	1.187500
Uapaca kirkiana	2.91	± 0.20°		
Diplorrhynchus condylocarpon	2.60	± 0.11°	Brachystegia Spiciformis	1.241667
Dipiormynenus conayiocarpon			Uapaca kirkiana	1.226000
Pterocarpus angolensis	2.00	± 0.16 ^b	D4	1 470000
Mean	2.06	± 0.03	Pterocarpus angolensis	1.470000

THINKING AROUND RESTORING MIOMBO



THANK YOU