

TZ Forest extent Tarzania:94.5 million ha Forestland of 35 million ha: 16 million are reserved forests, 2 million hectares are forests in national parks and 17 million hectares (49% of all forestland) are unprotected forests in general lands. Deforestation & Degradation: 412,000 ha per yr in the general land forests.

CFM in Tanzania

> Started in 1990's

> Low speed: To date 17 million ha unprotected

> This is where most deforestation & degradation happen

CFM retard deforestation in unreserved forestland.

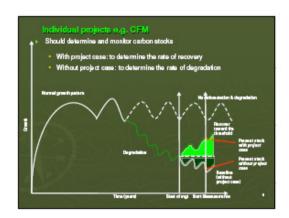
They transform unsustainable management of existing natural forests, to sustainable management

However, only 11% of the country's forests are under CFM due to lack of funds and capacity.

Accessing carbon finances could potentially provide incentives for more CFM establishment.

Challenge: Limited forest inventory data due to lack of human of financial resources

Components of REDD REDD credit = Country improvements Vs baseline scenario Deforestation baselines I loss of forest area, that is, complete land use change; use historical trends of forest area changes, RS Degradation baselines I loss of biomass stock within a forest: No historical data available Enhancement base lines Incremental change in biomass stock within a forest: No historical data available





Consists of: A handheld computer with ArcPadTM 6.0 software and connected to GPS It is easy to use Is used to locate: Forestry boundaries Sample plots and Frecording measurement data With a step-by-step guide to the procedures, local communities were trained in a short time and were able to use the system effectively

Steps in Carbon Assessment i. Forest mapping/stratification ii. Pilot survey to estimate variance and number of sample plots iii. Locate the sample plots on the ground iv. Measure the dbh of all trees v. Set out the sub-plots for the grasses, herb and litter data vi. Take soil samples randomly within the plot

Da	a analysis
Density i.e. the no	
	oiomass were computed using allometric functions for the

With Projec	d Cons				
Vegetation type		Average annual incoment (Vhalyr)	CO2 sequestration (ICO/halyr)	Forest Area (ha)	Total sequestration (ICO ₂ /ha/yr)
Woodlands	Kitulangal o	2.8	5.3	600	3,180
and the same	Ayasanda	1.7	3.2	550	1,760
Lowland	Ludewa	4.4	8.3	28.5	287
Montane	Мдалью	6.2	9.8	158	1,760
Without Proj			1		
Vegetation type	Location	Average biomass loss (Vhalyr)	Average CO _s Emissions (Vha/yr)	ForestArea (ha)	Total CO, Emissions (tCO@he/yr)
Woodland	Kitulangal o	1	1.8	600	1014
Montane	Маалью	3.5	6.5	158	1080

Conclusions & Recommendations				
Since forests under CFM are efficient in carbon storage and sequestration: governments are argued to consider CFM as part of their approach under climate mitigation policy				
Since there are no data on carbon stocks Studies on forest inventories using methodologies such as that developed in this study are recommended				







