

Forest Carbon Partnership Facility (FCPF) Readiness Preparation Proposal (R-PP)

UNITED REPUBLIC OF TANZANIA
Date submitted: 15th June 2010

INFORMAL SUBMISSION

TANZANIA FINAL DRAFT RPP

Forest Carbon Partnership Facility (FCPF)

Readiness Preparation Proposal (R-PP)

Introduction and Objectives

- The country has about 35.3 million hectares of forests and woodlands.
- Out of this total area,
 About 18.3 million hectares are reserved forests of which 1.6 million hectares are set aside for water catchment, biodiversity and soil conservation and 2 million hectares are wildlife protected areas.
- Over 80,000 hectares of the reserved forests is under 16-plantation forestry and 4.1 million hectares are under Participatory Forest Management (PFM) regimes.
- Around 17 million hectares of forests are under general land (General Land Forest) with no properly defined management regime, severe deforestation and forest degradation is occurring under this category.

PARTICIPATORY FOREST MANAGEMENT (PFM)

- Tanzania has benefited from many years of implementing PFM programmes/Projects which have helped to integrate communities into forest management regimes and thus address some of policy and critical forest governance issues concerning with deforestation and forest degradation.
- This experience provides a valuable basis for rapid transition into Readiness for REDD+ and development of REDD+ strategy options

Objective and scope of the Tanzania R-PP

The objective of the R-PP is to provide a framework for taking stock of the national situation from the point of view of deforestation and forest degradation, and addressing this situation by analytical work to be undertaken in a range of areas and funded from a variety of sources.

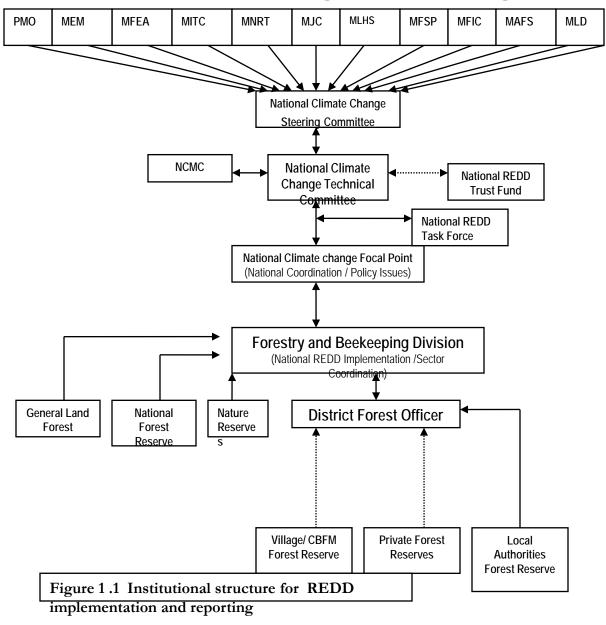
- The scope of work to be undertaken and funded fall in core components of 'REDD readiness' Template plan including among others, the following:
- ✓ An assessment of the situation with respect to deforestation, forest degradation, and relevant governance issues;
- ✓ REDD+ strategy options (a set of actions to reduce deforestation and/or forest degradation, that addresses the drivers of deforestation and degradation) and the REDD+ institutional and legal implementation frameworks necessary to realize these options;
- ✓ Options for reference scenario (also referred to as a scenario of forest cover change and emissions) for greenhouse gas (GHG) emissions from deforestation and/or forest degradation;
- ✓ A possible monitoring system to Measure, Report and Verify (MRV), the effects of the REDD+ strategy options on GHG emissions and other benefits, and to monitor the drivers of deforestation and forest degradation, as well as other variables relevant to the implementation of REDD+; and lastly
- ✓ Establishment of a suitable financial and benefit sharing mechanism (Sharing of the Co-benefits).

Tanzania had embarked on an assessment of the Land Use, Land Cover Situation with respect to deforestation, Forest degradation, and relevant governance issues encompassing

- National Forest Resources Monitoring and Assessment (NAFORMA) to produce necessary data sets to contribute to the designing of a National REDD scheme Monitoring Reporting and Verifications (MRV) (Insitu data set).
- Identifying activities to be under taken, and taking stock of existing activities, identify gaps and resources needed for some identified activities.
- Drafting the National REDD framework, as a road map to develop a National REDD strategy (with Strategy OPTIONS)

Component 1a: Organize and Consult

1a. National Readiness Management Arrangement



National REDD Framework and REDD+ Strategy Options

- The National REDD Framework
 National Readiness Management Arrangement
 http://www.reddtz.org (Annexed)
- The National REDD Strategy options, Encompass sets of actions to reduce deforestation and/or forest degradation (D&D), by addressing the drivers of D&D and their underlying causes (To be Ready by November 2010)

1b. Stakeholders Consultation and Participation

Table 1b-1: Consultation Plan and Workshop has been done-A Comprehensive Outreach Consultation plan is Annexed

Zone	Regions	Dates
Northern Zone	Manyara, Kilimanjaro and Arusha	1st - 7th August 2009
Eastern Zone	Tanga, Morogoro, DSM and Coast	8 th – 9 th September 2009
Southern Zone	Lindi and Mtwara	16 th – 17 th September 2009
Southern Highlands Zone	Iringa, Mbeya , Rukwa and Ruvuma	24 th – 29 th October 2009
Lake Zone	Mwanza, Kagera, Mara and Shinyanga	30th – 31st September 2009
Central Zone	Dodoma and Singida	15th -21st August 2009
Western Zone	Tabora, Kigoma	6 th – 7th October 2009
Zanzibar	Unguja and Pemba	19th – 20th October 2009

Summary of National Readiness Arrangement, Activities and budget

		Estimated Cost (in thousands US\$)						
Main Activity	Sub-Activity	2010	2011	2012	2013	Total		
Strengthen capacities of	Support to NCCSC to meet regularly	\$5	\$6	\$7.5	\$8	\$26.		
national steering and technical committees	Capacity building on REDD governance	\$150	\$30	\$160	\$0	\$340		
Strengthen capacities of REDD task force and	Training and capacity building	\$120	\$90	\$50	\$50	\$318		
Secretariat	Office Running	\$30	\$35	\$40	\$45	\$158		
Training and awareness	General training and awareness (REDD)	\$190	\$200	\$200	\$150	\$740		
of LGA and other key stakeholders (all districts	Technical training (governance etc)	\$80	\$90	\$90	\$60	\$320		
)	Publications and documents	\$20	\$22	\$22	\$18	\$82		
	Functioning costs	\$25	\$25	\$27	\$25	\$10		
	Total	\$577	\$498	\$596.5	\$356	\$2086		
Domestic Government		\$27	\$20	\$30	\$25	\$102		
FCPF		\$	\$	\$	\$	\$0		
UN-REDD Programme		\$200	\$150	\$150	\$150	\$650		
CCIAM		\$150	\$128	\$120	\$120	\$513		
NORAD		\$200	\$200	\$296	\$196	\$892		

Component 2: Preparation of the REDD Strategy

2a. Assessment of Land Use, Forest Policy and Governance

In-depth studies ToRs Annexed/ Table 2a: Land use categories

Land use type	Area (000 ha)	Percentage
Small holder cultivation	3,880	4.1
Large scale cultivation	585	0.6
Urban development	1,600	1.7
Inland water	5,900	6.3
Grazing land	48,740	51.7
Forest and woodlands	33,555	35.6

Remarks under Assessment of Land Use, Forest Policy and Governance

- Tanzania is still endowed with extensive forest resources but their sustainability is threatened by human activities that cause deforestation and forest degradation, and occur when communities strive to earn their lives/ livelihoods.
- It is important to recognize a <u>forest-livelihoods linkage</u> if SFM is to be achieved. As peoples' livelihoods are embedded in many sectors (e.g. agriculture, fisheries, forestry), halting deforestation must be approached from the multi-sector perspective.
- SFM can only be realized if the forestry sector aims to optimize
 the dual objective of improving forest condition and conserving the
 environment, while at the same time improving livelihoods of the
 people, particularly the poor, who largely depend on forest
 resources for their livelihoods.

Summary of Assessment of Land Use, Forest Policy and Governance Activities

Table 2a.4: Summary	of Assessment of Land Budget (Follow-				ınce Activi	ties and
				d Cost (in t	housands)	
Main Activity	Sub-Activity	2010	2011	2012	2013	Total
Synthesis of experiences on forest governance at national and community levels.	Synthesis and analysis of governance issues (Study)	\$50	\$50	\$	\$	\$100
	Cross sectoral analysis of current knowledge and activities in addressing drivers of deforestation.	\$120	₩	\$	#	\$120
Policy analysis to identify	Consultations at national and district levels	\$50	\$50	\$	\$	\$100
gaps (cross-sectoral)	Synthesis and validation workshops	\$45	\$	\$	\$	\$45
Study of impacts of drivers and underlying causes of deforestation and degradation		\$45	\$\$	\$	\$	\$45
	Total	\$265	\$100	\$	\$	\$365
Government		\$35	\$10	\$	\$	\$45
FCPF		\$	\$	\$	\$	\$
UN-REDD Programme (if applicable)		\$150	\$50	\$	\$	\$200
NORAD		\$88	\$40	\$	\$	\$128
Other Development Partne	er 2 (name)	\$	\$	\$	\$	•
Other Development Partne	er 3 (name)	\$	\$	\$	\$	

Table 2a.4: Summary of Assessment of Land Use, Forest Policy and Governance Activities and Budget (Follow-up Activities Needed)

Sub-Activity	2010	2011	2012	2013	Total
Synthesis and analysis of governance issues (Study)	\$50	\$50	\$	\$	\$100
Cross sectoral analysis of current knowledge and activities in addressing drivers of deforestation.	\$120	₩	#	#	\$120
Consultations at	\$50	\$ 50	#	•	\$100
	analysis of governance issues (Study) Cross sectoral analysis of current knowledge and activities in addressing drivers	Synthesis and analysis of governance issues (Study) Cross sectoral analysis of current knowledge and activities in addressing drivers of deforestation. \$50 \$50 \$50 \$50 \$50	Sub-Activity 2010 Synthesis and analysis of governance issues (Study) Cross sectoral analysis of current knowledge and activities in addressing drivers of deforestation.	Sub-Activity 2010 Synthesis and analysis of governance issues (Study) Cross sectoral analysis of current knowledge and activities in addressing drivers of deforestation.	Synthesis and analysis of governance issues (Study) Cross sectoral analysis of current knowledge and activities in addressing drivers of deforestation.

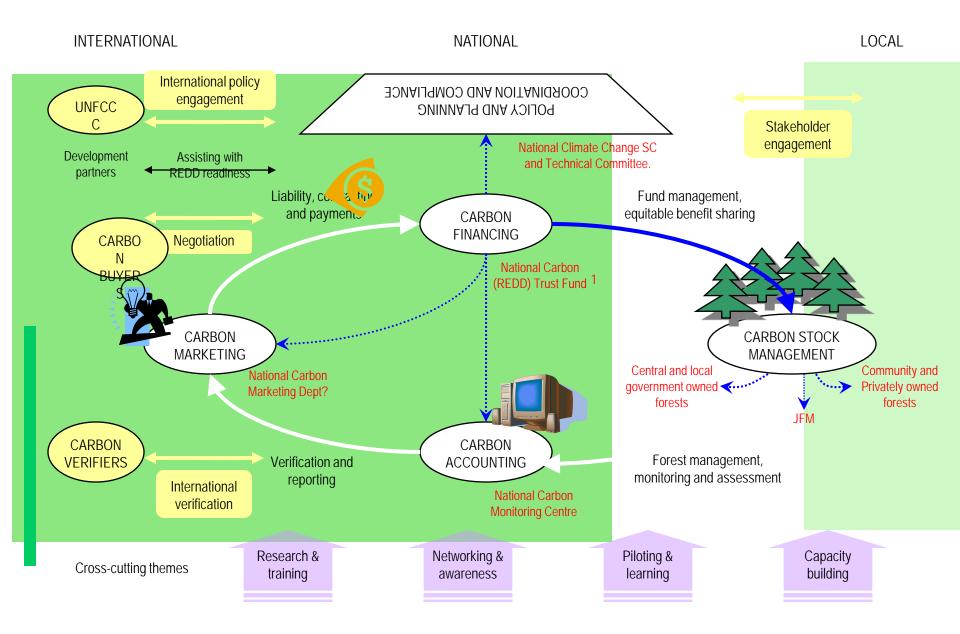
2b. REDD Strategy Options

 The REDD+ strategy in TANZANIA will be based on the National Framework for REDD developed in early 2009 and the National Forest Programme (NFP) (which addressed issues/drivers deforestation and degradation) and other issues addressed under section Analysis.

Summary of Strategy Activities and Budget Component 2d- Strategy Options

Та	ble 2b-2: Summary o	f Strategy A	Activities a	nd Budget		
		Estimated Cost (in thousands)				
Main Activity	Sub-Activity	2010	2011	2012	2013	To
Follow-up of ongoing	Supervision visits to projects	\$100	\$120	\$120	₩	
studies and pilot projects	Documentation, workshops	\$15	\$20	\$25	\$25	
Review and analysis of sector based	Technical assistance (Consultancies)	\$70	\$70	\$	\$	
programmes & REDD related activities	Documentation, workshops	\$15	\$20	\$20	\$25	
(Feasibility assessments)						
Training and institutional capacity for improved governance, monitoring and knowledge sharing	Training of local government and district officials on governance and knowledge sharing issues	\$150	\$150	\$150	\$150	
	Support Inclusion and participation of NGO and civil society stakeholders	\$30	\$35	\$37	\$40	
	Total	\$380	\$417	\$352	\$240	#
Government		\$40	\$25	\$25	\$20	
FCPF		\$	\$	\$	\$	
UN-REDD Programme (i	f applicable)	\$170	\$200	\$200	\$70	
NORAD		\$170	\$207	\$127	\$150	

Conceptual Framework for REDD Implementation Arrangements



Activity Budget REDD Implementation Arrangements

		Estimated Cost (in thousands)					
Main Activity	Sub-Activity	2010	2011	2012	2013	Total	
Building and	Completion of legal and institutional processes	\$20	\$	\$	\$	\$20	
Building and strengthening the implementation capacity	Capacity building of all key implementing structures an organs.	\$50	\$80	\$80	\$60	\$270	
Information flow procedures at national	Develop and share information and data collection and knowledge sharing procedures	\$30	\$30	\$35	\$35	\$130	
and district levels	Monitoring and information tools harmonized	\$10	\$10	\$	*	\$20	
Carbon accounting and	Carbon accounting systems verified and procedures harmonized	\$20	\$25	\$25	\$	\$70	
registry established	Development and operationalisation of REDD fund	\$15	\$20	\$20	\$20	\$75	
Support operations of all institutional structures at district and national levels	Facilitation of operations	\$120	\$125	\$100	\$100	\$345	
Total		\$265	\$210	\$260	\$215	\$950	
Government		\$26	\$10	\$15	\$20	\$91	
FCPF		\$	\$	\$	\$	\$	
UN-REDD Programme (if applicable)		\$70	\$40	\$50	\$60	\$220	
NORAD		\$100	\$80	\$130	\$120	\$430	
CCI		\$69	\$80	\$50	\$15	\$214	

2d. Social and Environmental Impacts/Safeguard



Scope of work

- The assignment will involve an initial diagnostic work, including an initial analysis of the environmental and social context of the legal, institutional and biophysical activities in relation to REDD as specified in the REDD framework document and the draft REDD strategy [In-depth studies ongoing]
- A stakeholders analysis has been designed to analyse and map out the expected outcomes, opportunities and risks related to REDD and REDD readiness, consultations with key stakeholders and interest groups, including forest-dependent/ indigenous peoples in a transparent manner.
- The SESA should give special consideration to livelihoods, rights (including those of forest dependent Peoples), biodiversity, cultural heritage, gender, the special protection of vulnerable groups in society, capacity development and governance.
- ToR Annexed

Summary of SESA Activities and Budget

Table 2d: Summary of Social and Environmental Impact Activities and Budget

		Estimated Cost (in thousands)					
Main Activity	Sub-Activity	2010	2011	2012	2013	Total	
	Consultants and technical assistants	\$120	\$50	\$	\$	\$150	
nduct finalization he SESA	Coordination and support to NEMC and TF	\$30	\$30	\$50	\$30	\$140	
	National stakeholders workshop for sharing results	\$55	\$	\$	\$	\$55	
ining and Capacity ding of national	Training at national and sub-national levels	\$80	\$55	\$40	\$	\$175	
itutions to ertake SESA	Support to LGAs and other organizations to implement SESA	\$40	\$35	\$30	\$	\$105	
	Total	\$325	\$170	\$120	\$30	\$625	
vernment		\$25	\$30	\$15	\$3	\$73	
PF		\$	\$	\$	\$7	\$237	
-REDD Programme (if applicable)		\$100	\$70	\$45	\$20	\$235	
RAD		\$100	\$70	\$60	\$7	\$237	

Component 3: Development of a Reference Scenario

Key activities:-

- Establish Activity Data=Historic rates of deforestation
- Establish Conservative Estimates of Carbon Biomass
- Establish Spatially explicit Carbon maps

We have Planned for both Approach REL/RL

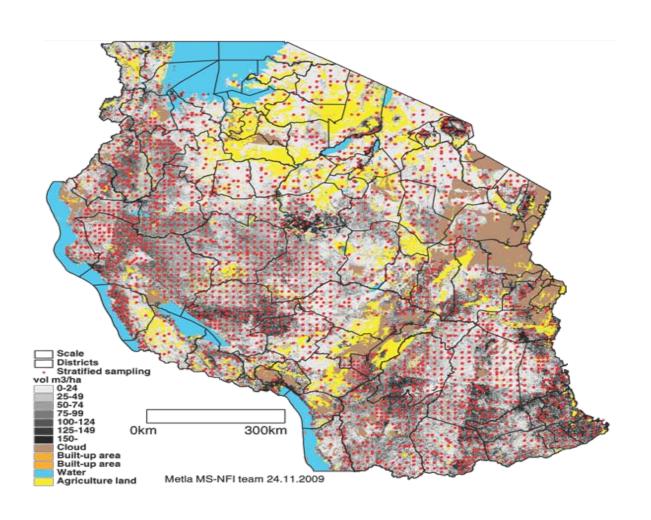
Simple Approach

- [Based on historic rates of deforestation (activity data) for a historic period] x [Conservative estimates of Carbon biomass~Emision factor]
- ✓ NAFORMA=Government of Finland +FAO

Complex Approach

- [Based on historic rates of deforestation (activity data)] x [Spatially explicit carbon maps]
- ✓ MAPPING-Co_benefits of REDD=UN-REDD+RGN
- ✓ Done at tier 1

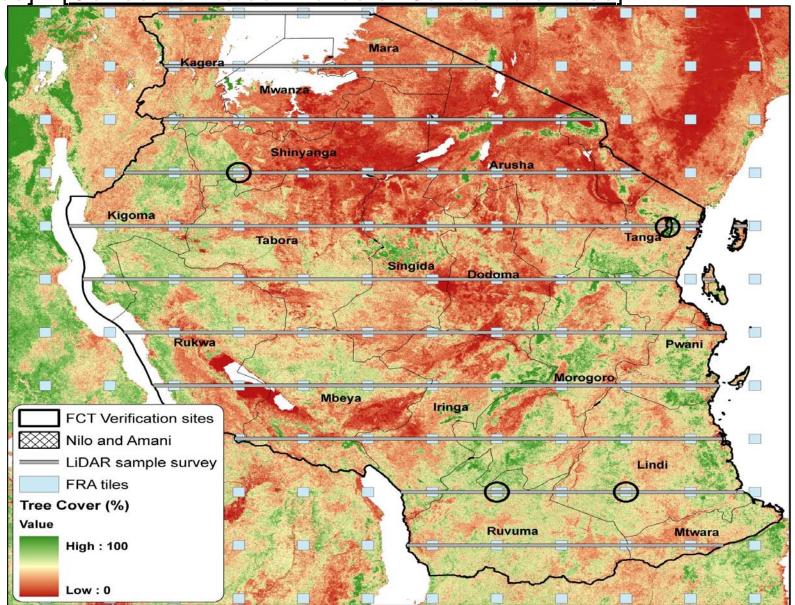
National Forest Stratification and Sampling Design

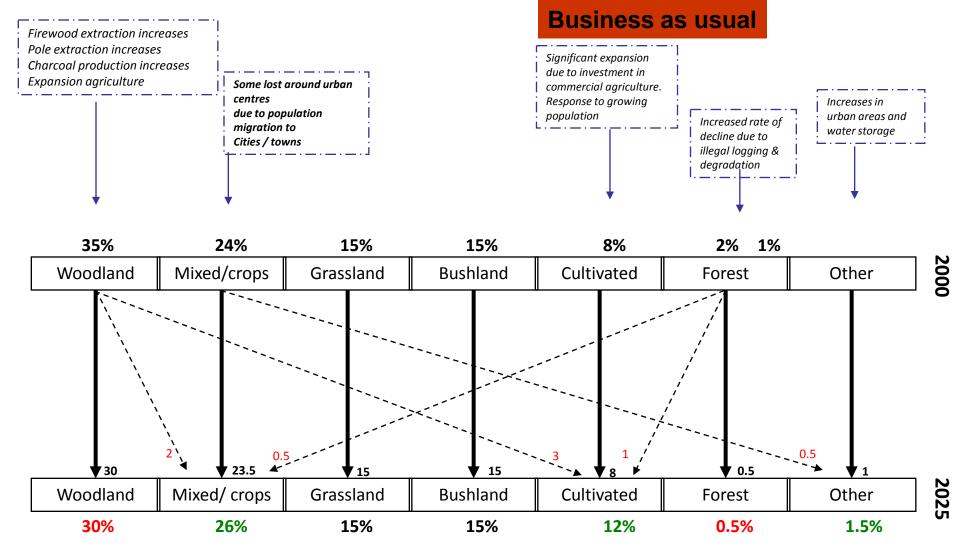


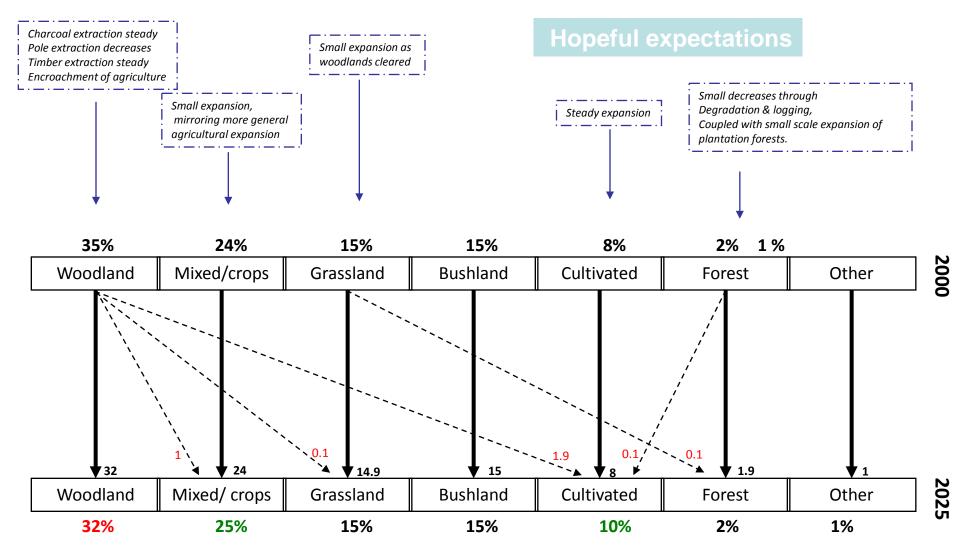
Simple Approach

[Based on historic rates of deforestation (activity data) for a historic

period] x [Conservative estimates of Carbon biomass]







NOTES FOR INTERPRETATION

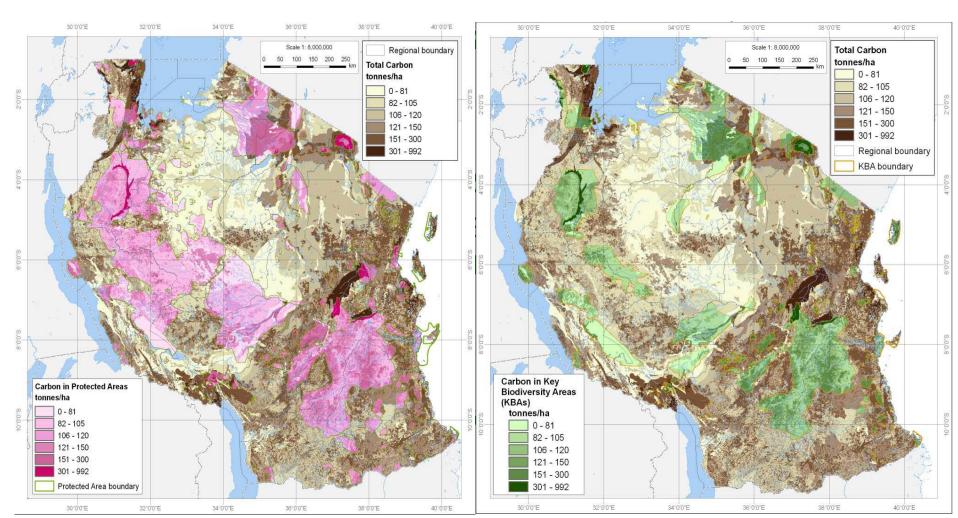
The top row of boxes represent our current land cover (which I have labelled as year 2000 but essentially represent NOW. The percentage figures across the top of the boxes represent the CURRENT landcover (i.e. our fixed starting point). THESE figures must be the same for all scenarios.

The bottom row of boxes represent the future land cover for 2025 under our Matamazio scenario (hopeful expectation)

The bold arrows show how much of the 2000 stock of each land cover class is present both in 2000 and 2025. The lighter, dashed arrows represent flows between land cover classes. So for example, the Woodland category covered 35% of our study area in 2000. Of this 32% remained unchanged in 2025. Of the original 35%, 1% had been converted to Mixed with Crops, 0.1% to grassland and 1.9% to Cultivated land. Overall there was a 3% reduction in the overall area of Woodland. All of the inputs to the 2025 boxes should add up to the figure below, similarly if those arrows are traced back, they should add up to the 2000 figure. Figures in RED indicate change.

Complex Approach

[Based on historic rates of deforestation (activity data)] x [Spatially explicit carbon maps] MNRT/UNEP-WCMC,2009

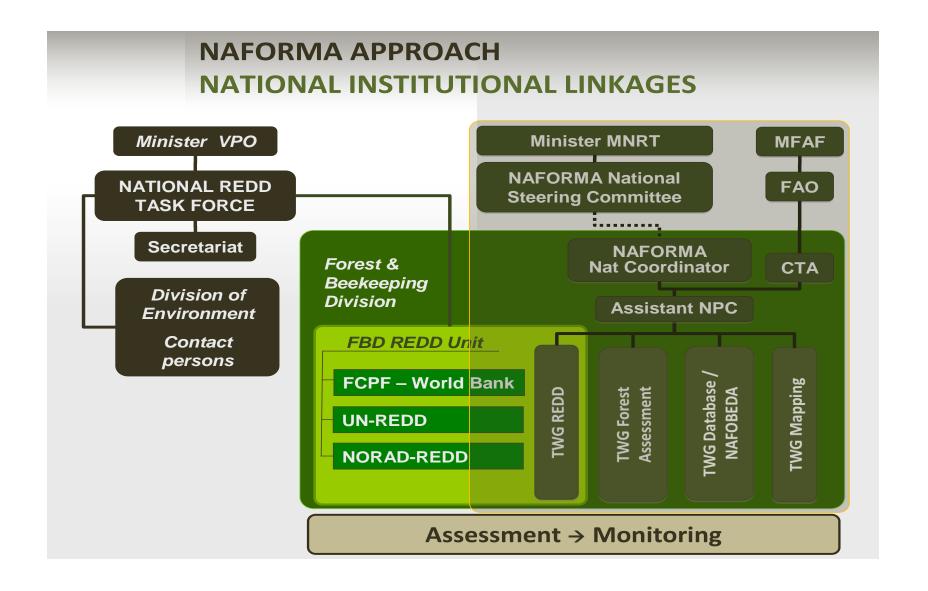


Activity Summary and Budget for Baseline Scenario

able 3-1: Summary of Reference Scenario Activities and Budget

3.5		Estimated Cost (in thousands)					
Main Activity	Sub-Activity	2010	2011	2012	2013	Total	
Assessment of	Engagement of national consultants for the study	\$25	\$150	\$75	\$	\$225	
arbon levels from ifferent forest egimes	Harmonization of methodologies and data capture systems with MRV systems	\$15	\$15	\$	\$	\$30	
Cnowledge and formation sharing ith all stakeholders (Dissemination)	Synthesis and development of results into user friendly formats (brochures)	\$30	\$50	\$55	\$30	\$160	
raining and Capacity uilding of national sperts	Training (Capacity Building) in MRV, modeling, remote sensing methods mapping and data synthesis	\$60	\$80	50	50	\$240	
arbon Mapping sing various echniques	Carbon mapping	\$100	\$100	\$90	\$50	\$340	
•	Backcasting of Carbon lost/changes	\$100	\$110	\$70	\$50	\$330	
lational workshop to nare info on NCAS-	Operationalisation of national workshop	\$200	₩	\$		\$200	
	Total	\$530	\$505	\$340	\$180	\$1555	
overnment	rovernment		\$15	\$	\$	\$65	
CPF		\$	\$	\$	\$	\$0	
N-REDD Programme (if applicable)		\$80	\$70	\$55	\$30	\$235	
linton Climate Initiative (CCI)		\$100	\$52	\$20	\$	\$172	
ORAD (Including CO	CIAM)	\$300	\$368	\$265	\$150	\$1083	
RAND TOTAL		\$530	\$505	\$340	\$180	\$1,555	

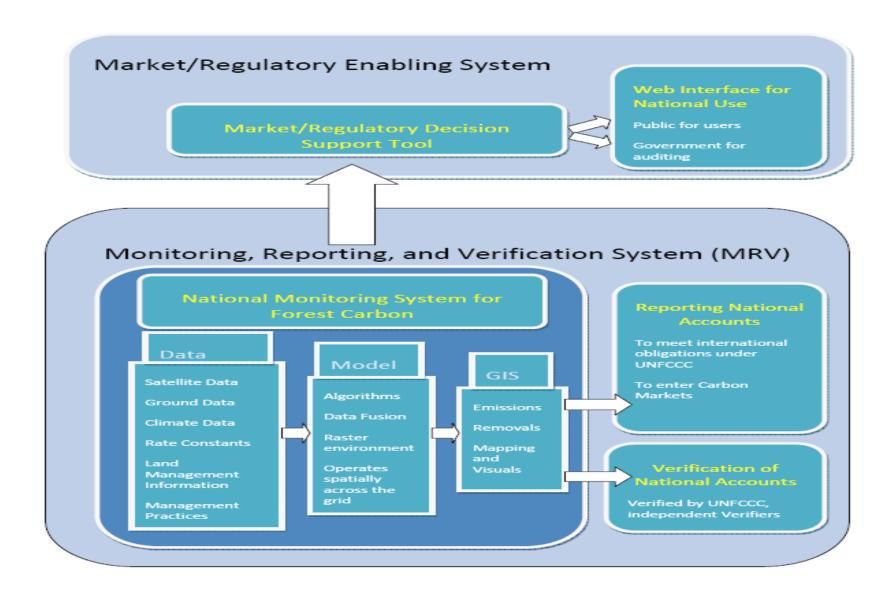
Component 4/5: MRV Institutional Set up and/or Linkages



Component 4: Design a Monitoring System

Table 4: Summary of Monitoring Activities and Budget								
		Estimated Cost (in thousands)						
Main Activity	Sub-Activity	2010	2011	2012	2013	Tota 1		
Establishment and	Establish NCMC	\$10	\$	\$	\$	\$		
strengthening of the NCMC	Upgrade national database	\$20	\$20	\$20	\$20	\$80		
Development and updating of national baseline database	Data collection and synthesis	\$30	\$35	\$40	\$40	\$155		
using data from NAFORMA and other sources,	Update baseline with current data	\$30	\$30	\$30	\$30	\$120		
Development and updating of national baseline database	Capacity building at all levels	\$120	\$120	\$140	\$140	\$394		
using data from NAFORMA and other sources,	Support operations at national and district levels	\$70	\$70	\$80	\$80	\$300		
	Total	\$281	\$275	\$310	\$310	\$104 9		
Government		\$15	\$20	\$25	\$25	\$85		
FCPF		\$	\$	\$	\$	\$		
UN-REDD Programme (if applicable)		\$70	\$80	98	\$98	\$346		
NORAD		\$80	\$100	\$120	\$120	\$420		
NAFORMA		\$80	\$50	\$50	\$50	\$330		
CCI		\$36	\$25	\$17	\$17	\$59		

A Conceptual system to Measure, Report and Verify (MRV) the effect of the REDD strategy on GHG emissions and other benefits



A potential Tanzania framework for monitoring and evaluation of REDD+ is proposed, encompassing

The framework that address the major policy objectives or activities specified in the National REDD Framework. In broad terms, potential targets and outcomes are presented under the following key policy and institutional objectives;

- ✓ Policy framework for REDD in place
- ✓ Institutional structures in place and capacities strengthened
- √ Awareness creation on REDD at national and sub-national levels undetaken.
- ✓ Baseline and carbon accounting mechanisms established at national and sub-national levels.
- ✓ Natural resources management systems to address drivers of deforestation in place
- **✓** REDD information synthesis and sharing system established and linked to National Database.
- ✓ Monitoring reporting and verification (MRV) framework developed and functional
- ✓ Cross sector natural resources and environment management partnerships development and
- ✓ Equitable resource sharing mechanisms developed/Sharing of co-benefits



Vice President's Office and Ministry of Natural Resources and Tourism

National REDD Readiness Initiative



Designing National Forest Monitoring and Assessment: An important data provider for REDD

The National Forest Monitoring and Assessment (NAFORMA) is the first comprehensive and nationwide forest inventory for Tanzania. Over the last 30 years sub-national inventories for different parts of the country have been carried out. In 1996 a national land-use mapping survey was undertaken

In addition to providing very useful data on sustainable forest management, NAFORMA is key for Tanzania's Reduced Emissions from Deforestation and Forest Degradation (REDD) initiative as it will provide important forest-based biomass data for feeding into a National Carbon Accounting System.

The NAFORMA methodology is based on a backbone of permanent sample sites' that are initially 'assessed' (surveyed) and then 'monitored' at regular The objective of the survey design process has been to develop a methodology " uses multi-source input data.

intervals into the future. NAFORMA has been designed to provide robust data for NAFORMA that results in an accurate, repeatable, time- and cost-efficient. This poster provides an overview of the innovative methodology developed.

- " A 'Biophysical' component which:
- Provides information on the extent and condition of the forest and 'trees

outside forests' (TOF) resources, and;

- Captures deforestation and forest degradation though re-measurements.
- » A 'Socio-economic' component which:
- Provides knowledge about the human factors that affect changing forest conditions in a country - driving forces for forest change;
- Potential REDD+ linkages (ecosystem services).

Both components when put together are a powerful tool in assessing the "improves the Food and Agriculture Organisation (FAO) National Forest effectiveness of forest and other related policies such as land use planning.

from the district level upwards. The NAFORMA methodology is divided into two survey. Attaining an indicative understanding of the overall distribution of forest to address complex design considerations in the planning of the bio-physical components: the trees are how many there are likely to be and how difficult it is to get to and Beekeeping Division in collaboration with the Finnish Forest Research them helps in designing a survey that is accurate (the more trees, the more Institute, Sokoine University of Agriculture and FAO.

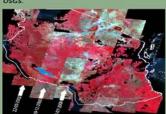
measurement), repeatable (for monitoring), and time- and cost- efficient (good logistics planning).

'Input' data has been used iteratively to model design solutions such that the

- » achieves efficiency and accuracy/precision;
- » provides reliable information at national & district level;
- Monitoring and Assessment (NFMA) methodology:

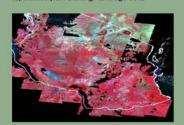
Landsat Mosaic Image

Reflectance at top of the atmosphere, based on the GLS 2000 (Global Land Survey) data set from LISCS



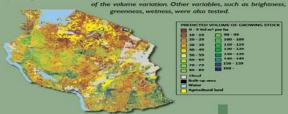
Corrected Landsat Mosaic Image

MODIS Aqua Composite used to compute surface reflectance from the original image data.



Predicted Growing Stock

A non-linear volume model was used to predict the size and distribution of growing stock (trees) using robust non-linear estimation, parameters estimated with Finnish data, top of atmosphere LandsatTM data with atmosphere correction. The model explained 75 %



Distance and time planning



The most time efficient work plan for the sample clusters is resolved in relation to the existence of roads, foot paths and topography (not shown). Multiple solutions can be odeled and generated to



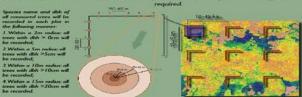
Sampling solutions for the survey

One of many potential sampling solutions for Tanzania, based on stratification and optimal allocation of the field plot clusters using the volume predictions and assessed measurement time, is shown below. Clustering and optimal allocation substantially increases the accuracy and efficiency of the inventory.



Clumped /stratified sampling

The predicted growing stock density is then whole country which provides the sampling used as the basis upon which to vary the pattern with the smallest predicted error with distance between sample plot clusters, the given costs. Each field plot cluster has Several sampling designs are tested to find ten sample plots. Each sample plot consists the most optimal in terms of the accuracy and of four concentriccircles, designed in such a costs. A model is run many times to generate way as to capture as much variability in the the optimal placement of the clusters for the plot while minimising the measuring effort



About the National REDD Task Force

Tanzania is developing a National REDD Strategy in anticipation of a post-2012 climate change agreement that will include a new global facility for Reduced Emissions from Forest Degradation and Deforestation. A National REDD Task Force has been established through the Vice President's Office and Ministry of Natural Resources and Tourism. The Task Force coordinates and guides the development of REDD-Readiness initiatives underway in Tanzania.

An interim National REDD Framework has been developed that sets out key areas for achieving REDD-Readiness.

- » Baseline establishment, monitoring, reporting & verification;
- » Financial mechanisms and incentives:
- » Stakeholder engagement and community participation,
- » Coordination of REDD Implementation;
- " Market access and negotiation; » Governance and policy:
- " Capacity building: » Applied research:
- » Information management and networking.

The Government of the United Republic of Tanzania is working with a diversity of implementing and funding partners, including local communities, international organisations, universities, local civil society, the private sector and development partners in preparing for REDD. As part of this process, key collaborative initiatives underway are the National REDD-Readiness Initiative underway and the UN-REDD Tanzania Quick Start Initiative - both funded by the Norwegian Government.

For more information contact:

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Thank you for listening

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