

The Kasigau Corridor REDD Project Phase II – The Community Ranches

Distinctive features

The project proponent, Wildlife Works, has been involved in the project area since 1998 when it began construction of an "eco-factory" that sits on private land adjacent to the project area. In January 2000 Wildlife Works' founder, Mike Korchinsky, purchased the majority of the shares in Rukinga Ranching Company Ltd. from the then colonial owners in order to protect the investment made in the EcoFactory conservation project, because the land was to be sold to a Somali cattle slaughterhouse operator. Wildlife Works then took over financial responsibility for Rukinga Ranch forest monitoring and protection in January 2005. Rukinga has been protected by Wildlife Works as a forest habitat since this time but on a loss-making basis.

The objective of the Kasigau project is to protect in perpetuity those dryland forests that form a wildlife dispersal and migration corridor between Tsavo East and Tsavo West National Parks, to

conserve the important biodiversity found in those forests, to provide alternative sustainable development opportunities for the local communities that live adjacent to the forests and to prevent the emissions that would otherwise occur were those dryland forests to be converted to

subsistence agriculture using slash and burn methods.

The total area that will be protected is about 200,000 ha. This is a combination of private forested land, community owned group ranches, and community trust lands. In order to manage the complexity of such a large conservation initiative, the project was split into two phases.

Rwanda Burundi Tanzania Dar es Salaar Map data ©2015 Google, ORION-ME



The first phase design was validated by

the CCBA at Gold Level in December 2009. This covered all that land known as Rukinga Ranch, a 30,166 hectare piece of wilderness at one end of the Kasigau Corridor.

Phase II of the project is the "Kasigau Corridor REDD Project Phase II – The Community Ranches" and this covers and addresses the forest conservation of 13 blocks of land owned by indigenous community ownership groups. These group/community ranches are managed by public companies owned by shareholders, but none conduct their own cattle ranching. Most have no

economic activities and have been badly affected by the illegal charcoal trade. The project strategy includes conservation easements between the project proponent and the 13 community ranches, plus a range of local investments to build long-term community interest in the project, including investment in local eco-friendly businesses to generate livelihoods, education and reforestation.

Location Coast Province in Southeastern Kenya Spatial boundaries Project area: 169,741 ha	
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👞 Keterence area: 329,022 ha	
Leakage monitoring area: Size not given	
Leakage management area: Size not given	
Land cover montane forest, dryland forest, savannah grasslar	ıd
Agents and drivers Agents: Local people	
of forest cover change•Taita people - subsistence agriculturalists who cle the dryland forest and planted maize, with little su •Duruma people - common practice for husband t his second or third wives to the project area to est agricultural plots (mostly unsuccessful) Underlying drivers: New government policy of givi individual family titles in community trust land; Migration; Proximate causes: In project zone • Subsistence agriculture In project area Group Ranches managed by public companies ow shareholders, but none operate own cattle ranchi Mart have no economic ortivities and have been been been been been been been be	ared ccess. o bring ablish ng ned by ng.
affected by illegal charcoal trade.	adiy
Basic project features	
Objectives•Prevent emission of over 49,000,000 tCO2e over crediting period •Provide finance for expansion of conservation pr •Prevent the loss of biodiversity and protect the a a wildlife corridor for important indigenous specie	oject rea as s e long-
 Reduce community pressure on forest and ensur term support from community for the project 	
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	 Kenyan Agricultural Research Institute – Jojoba
Tenure and Carbon rights holder/s	Tenure: 13 blocks of land owned by Indigenous Community Ownership Groups; Each owned by different legal entities formed years ago by the communities and the Government of Kenya to hold legal title to the land (12 leasehold; 1 freehold) Carbon rights: Carbon rights acquired from landowner by project proponent.
Upfront financing	Provided by Wildlife Works Carbon LLC
Start date	1 January 2010
Crediting period	30 years
	Baseline emissions
Methodology	VCS methodology VM0009 Methodology for Avoided Mosaic Deforestation of Tropical Forests V1-0 (Developed by Wildlife Works)
Reference data	Reference period: From 15 years prior to project start
(unplanned	Types of data used: Landsat images (no further
deforestation/degra	information)
dation)	
Reference data (planned deforestation/degra dation)	Not applicable
Stratification of	Project zone divided into 7 land cover strata based on
project area	ecosystem type. Project area not stratified – Classed as tropical dryland forest.
Deforestation rate	Historical
and location	Not provided in project design
	Projected
	Not provided in project design
	Likely baseline scenario
	Rapid deforestation due to unplanned slash and burn
	agricultural expansion by subsistence immigrants at the
	Modelling procedure
	2000 sample points in historic imagery beginning 15 years
	prior to the beginning of the project were used to build a cumulative deforestation model by examining forest transition for reference area. Observations of forest state from the reference region and applicable covariate data sets were used to fit the cumulative deforestation model. Population census data were considered as covariates to deforestation, but these covariates did not inform the model when compared to the model evaluated using only historical observations of deforestation. A linear rate was selected to predict the cumulative deforestation for project accounting purposes. The selected rate is y=0.031649x, where x is
	the number of days since the project start date, and y is

	proportion of area deforested.
Carbon pools	Carbon pools included
	■Aboveground tree biomass ✓
	■Belowground tree biomass ✓
	■Non-tree woody biomass ✓
	■Litter ×
	■Dead wood ×
	■Soil ✓
	Wood products ×
	Estimation method
	■429 17.84 m radius plots located across all 7 strata and
	13 ranches in stratified random pattern.
	•DBH, height and canopy width of trees measured.
	Destructive sampling used to develop allometry for each
	dominant species. Mean of species-specific equations
	 Belowground biomass for all vogotation calculated
	using a root-shoot ratio of 0.4
	No. of stems of shrubs counted in plots and biomass
	calculated by multiplying by stem weight for species and
	size class. Height and diameter of shrubs with many
	stems measured to determine size class. Destructive
	sampling used to derive species-specific data to convert
	size to biomass.
	Grasses harvested from four 1 m plots in each of the
	tree plots. Samples dried and weighed to obtain sample
	plot grass weights; area expansion factor applied.
	Soil samples taken from randomly selected tree sample
	plot locations: 1m pits dug in two lifts, 0-30 cm and 31-100
	cm; samples from each layer mixed, bagged and sent to
	independent soil testing lab for bulk density and soil
	organic matter analysis.
Carbon stock	Loss of carbon in the baseline for above and
changes	belowground biomass trees, shrubs and grasses
	assumed to be 100% of the starting inventory for
	deforested area, as most likely replacement land cover is
	annual crops.
	-Loss of carbon in soil calculated through analysis of
	project area, on farm land with identical soil, rainfall and
	climate, which had been forest less than 20 years before
GHG emissions	Not considered significant
Net emissions	1.253.588 tCO2e (for 1st monitoring period)
without project	
Project GH	G emissions reduction strategy
Scope	Avoided deforestation and degradation
20000	



Activities

Provide advice, act as distribution point and seed

Conservation easements between Wildlife Works

	collection for cultivation and harvest of Jojoba
	Donate elephant dung to women's group for use as
	fertiliser on their commercial mushroom farm
	Financial rewards to communities for out planting
	20.000 indigenous hardwood trees under 3 year
	reforestation project
	•Funding, training and logistics support to organised
	groups of Community Wildlife Scouts operating in the
	reference area to monitor and deter illegal activity
	Sponsor youth participation in safari guide training
	programme
	 Promote ecotourism in one ranch, involving payment to
	ranch to stop cattle grazing
	 Open small eco lodge for conservationists
	 School construction and maintenance and sponsor
	students through secondary school and
	college/university
	 Construction/renovation of group ranch offices,
	including establishing a carbon office
	Production of "ecocharcoal" by communities
	Expand operation of soap factory using jojoba oil
Leakage mitigation	Removing the local communities' need for more
strategy	(disastrously poor) agricultural land.
	Physically protecting the forest from immigrant agents
	trying their luck at finding unprotected land to farm for
	income.
Non-permanence	Experienced project management team located next to
risk mitigation	project.
strategy	 Adaptive management plan including community
	feedback mechanism.
	Project works with secure tenure arrangements and
	carbon agreements span project crediting period.
Additionality	 Alternative land use scenarios: No credible alternative
	economic uses for this land that could compete with the
	project financially.
	Investment analysis: There are no significant sources of
	income from the land to offset protection costs.
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v	vitir-project emissions	
Effectiveness of	Measures assumed 100% effective in stopping	
measures	deforestation in the project area	
Carbon stock	[Could not access PD supporting documents with this	
changes	information]	
GHG emissions	Not considered significant	
Leakage	Types	
	Activity shifting: Any leakage expected to be	
	compensated for by tree planting and positive leakage,	
	which are not accounted.	
	Market effects: Not expected. Trees in project area not	
	used commercially and fuel wood extracted only used for	
	home consumption.	
	Deduction	

		Project design did not included deduction as no leakage expected. However, during monitoring leakage was calculated and deducted from gross emissions.
	Non-permanence	Buffer
	risk	20% of offsets withheld (9,689,754 tCO2e)
	Ex-ante estimated net greenhouse gas emissions reductions	Total over crediting period: 38,759,010 tCO2e Annual average: 1,291,967 tCO2e Annual average per ha: 7.6 tCO2e
	Monitoring of	Parameters
	carbon stock	i. Parameters associated with soil carbon
	changes and	ii Forest parameters
	emissions	iii Area of stratum
		iv Degradation in leakage area
		Nothe de
		Methods
		i. According to SOP
		II. PSPs
		iii.GIS
		iv. Sample plots following SOP
		Frequency
		i. Not given
		ii. 20% of total PSPs remeasured annually
		iii., iv. Each monitoring event
		Key monitoring features:
		Annual resampling of 20% of the total number of
		helt
		Satellite imagery to be used to monitor deforestation in
		reference area and leakage belt
	Stakeholde	r identification and engagement
	Stakeholders identified	List of stakeholders not provided in project design. Proposed activities target local communities and community sub-groups (women's group, youth). Roles of
		other NGOs in area and businesses such as eco tour
		operators discussed.
	Identification	Not described. History of regular communication with
		communices explained.
A	Access to	Numerous meetings with local communities on wide
XXXXXX/	information and	range of topics over past 10 years.
	consultation	•Flyers and posters distributed to inform public of
		opportunity to comment on project design document.
		 Public invited to use proponent's internet service or
		submit handwritten comments; proponent ensured
		unbiased translation when needed.
		 All minutes of meetings with communities for Phase II project document.

	Presentations to raise awareness of community ranch shareholders on achievable carbon benefits.
	 Negotiation resulted in easement agreements signed by
	13 community-owned group ranches. Community
	decision was based on majority vote with proponent
	absent from the room.
	•Community illaison team established to travel around
Participation in	Project geographical extent determined by community
design and	owned group ranches that agreed to participate in
implementation	project
	 Various community groups involved in project
	investments, e.g. Jojoba production and reforestation
	 Wildlife Works has a policy of local employment first.
Feedback and	Document on Community Conflict Process published.
grievance redress	Requires all grievances and efforts on resolution to be
procedures	recorded. Mediation by local administrative chief
	expected. Written responses to be delivered in 30 days.
worker relations	Operates within all local and national employment laws.
and safety	Employees and their families fully insured for any illness
	or injury.
	Communities
Without-project	An independent audit of the community influence
scenario	conducted in August 2007; Baseline survey in 2012.
	Variables described in monitoring reports are: Livelihood
	security and income; Crop, farm animals, soil, fand &
	access and use: Governance and associations: Climate
	crises: Education and fees: Infrastructure and services:
	Income and expenditure; Knowledge on environment
	and REDD
	Expect little improvement in community well-being as
	no prospect to increase land productivity
With-project	Expected net benefits
scenario	From conservation of natural resources, both forest and biodiversity
	 Direct employment of ~ 150 local people
	Income from supported community-based business
	activities
	•Youth education
	Possible negative offsite impacts on other stakeholders
	and mitigation strategy
	dependence on Wildlife Works for livelihood. Lack of
	grazing area.
	 Mitigation strategy includes: Human-wildlife conflict -
	providing safe habitat in project area for wildlife, patrols
	that will reduce the likelihood of elephant crop raiding,
	provision of chili pepper trees which repel elephants to
	communities, etc.; Employment dependence – spread of

	Impact monitoring	employment opportunities through ecotourism, etc; Lack of grazing – assist community to diversity away from cattle, legal action and patrols to stop incursion by large Somali cattle operations, etc. Indicators Described above in "without-project" scenario Methodologies Described in monitoring reports Household-level survey in 150 randomly-selected households across the five locations in the project area Frequency
		Baseline survey in 2012 to be followed by annual monitoring
	Biodive	rsity and ecosystem services
A state of the	Without–project scenario	Sightings by project rangers and tourism operation and literature used to assess situation and scenario Description •Expect eventually no wildlife to be left in the project zone
	With-project	Expected net benefits
	scenario	 With investment and proper land and wildlife management expect to see return of historic species Indigenous species used for reforestation Non-indigenous species used such as Jojoba and Neem observed to be non-invasive Possible negative offsite impacts and mitigation strategy No negative offsite impacts expected
	Impact monitoring	Indicators High conservation values, species Methodologies Described in project design Ranger patrols, one specifically to monitor high conservation value species; GIS centre of excellent to be set up near project for recording sightings; biodiversity monitoring by a community based organization Described in monitoring reports Waterhole transects; Elephant feeding transect; Elevational bird ringing and plot-based vegetation monitoring; 180 km aerial transect using gyrocopter; Charcoal and firewood monitoring through counts along highway touching project area Frequency Ranger patrols are daily; Full time conservation specialist placed at GIS centre; Daily log of species of interest with GPS information recorded as people go about daily business
		Progress
AT THE	Validation	VCS validation report issue date: 9 May, 2011 CCBA validation report issue date: 17 05 2011 (Gold level)

	Verification	VCS verification period and report issue date:	
		01 January, 2010 to 31 December, 2010; 10 May, 2011	
		01 January, 2011 to 31 December, 2011; 29 November 2012	
		01 January 2012 to 31 December 2012; 3 June 2013	
		1 January 2013 – 31 December 2014; 30 November 2015	
		CCBA verification period and report issue date:	
		01 January, 2010 to 31 December, 2010; 25 May 2011	
		01 January, 2011 to 31 December, 2011; 29 November 2012	
		01 January, 2012 to 31 December, 2012; 23 May 2013	
		1 January 2013 – 31 December 2014; 15 September 2015	
	Credits issued	Number: 3,429,929	
		As of: 21 February 2016	
		Further information	
	 Wildlife Works Carbon website: http://www.wildlifeworks.com/WWCarbon/WWCarbon/Welcome.html VCS Project Database https://vcsprojectdatabase2.apx.com/myModule/Interactive.asp?Tab=Projects& a=2&i=612⪫=-3%2E944264&lon=38%2E773234&bp=1 CCBA Projects 		
	http://www.climate-st	andards.org/?s=kasigau+II	
Documents reviewed			

VCS and CCBA websites: PD, PDD, Validation, Monitoring and Verification reports