

Conservation Enterprise & Financing Delivering Livelihood Opportunities

Kathleen H. Fitzgerald, Vice President Conservation Strategy

Daudi Sumba, Vice President Program Design & Government Relations

A CONTINENT OF CHANGE

7 December 2015

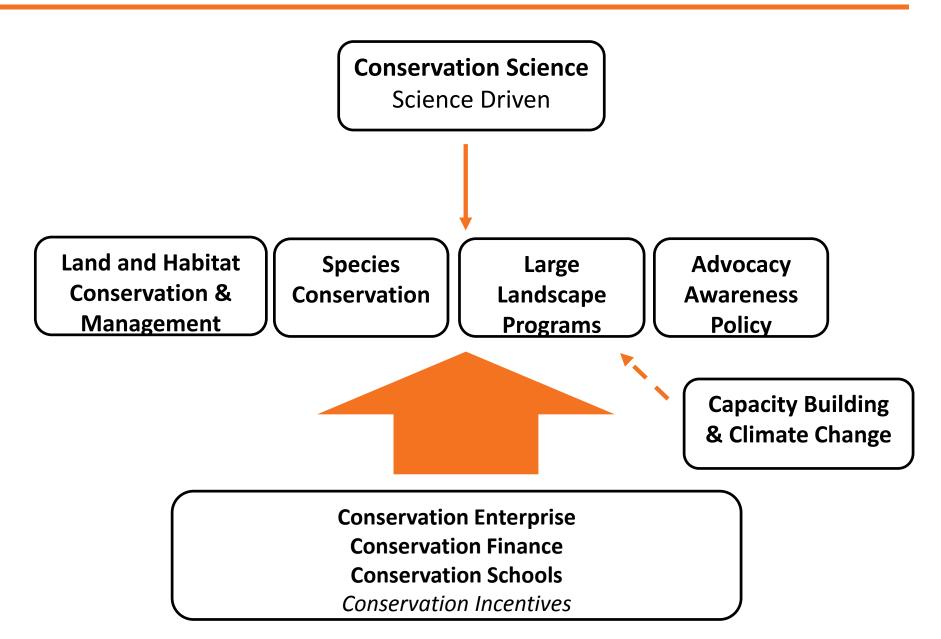
Working together with the people of Africa to ensure it's wildlife and wildlands endure forever.



Founded 1963. Africa based. Africa focused. Africa staff.

AWF Programs





PROTECT: Support Boots on the Ground

2

3



AWF's Program to combat Wildlife Poaching and Trafficking

DETECT and ARREST: Increase Security and Law Enforcement



Curb Demand





Push Policy at the International Level



EASTERN AFRICA

32

37

27

38

0

0

1	Badingalo
2	Bale
3	Boma-Gambella
4	Ruaha
1 2 3 4 5 5 5 7 8 9	Imatong-Kidepo
5	Katavi
7	Kilimanjaro
8	Maasai-Steppe
9	Mara-Serengeti
10	Nimule
11	Rift Valley
12	Samburu
13	Selous
14	Simien
15	The Sudd
16	Tsavo
SOUTH	HERN AFRICA
17	Kafue
18	Kalahari
19	Kazungula
and the second	and the second se

- 20 Limpopo
- 21 22 23 Luangwa Niassa
- Okavango
- 24 Skeleton Coast-Etosha
- 25 Zambezi-Mana Pools
- 26 Zululand

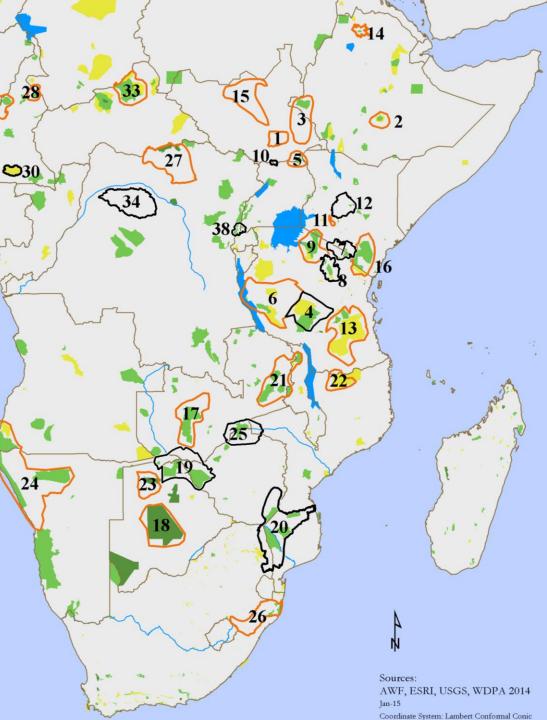


28 Bouba-Sena Oura 29 Campo-Ma'an 30 Dja 31

WEST/CENTRAL AFRICA Bili Uele

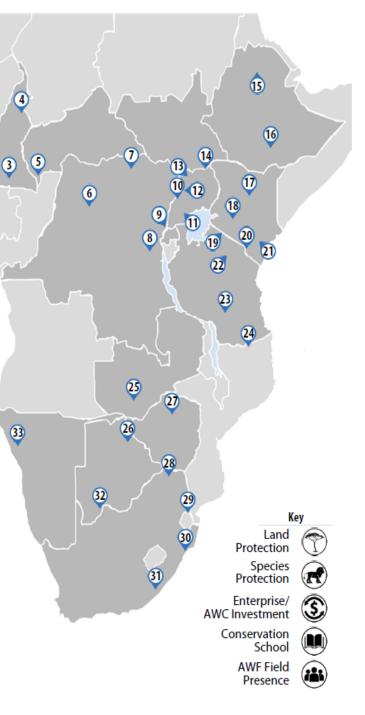
36

- Gashaka Gumti-Faro 32 Gola Forest 33 Gouda-St. Floris
- 34 Maringa-Lopori-Wamba
- 35 Niokola-Koba 36
- Regional Parc W 37
 - Tai-Sapo Forest Virunga
- Current AWF Investment Potential Landscape IUCN Category a/Ib VI Other
 - 250 500 Km 500 Mi 250



Programmatic Footprint

#	Landscape Name	Country			3		
1	Niokola-Koba	Senegal		Sĕ.,		1	
2	Campo Ma'an	Cameroon		•			
3	Dja	Cameroon		٠			
4	Bouba-Sena Oura	Cameroon		٠			
5	Dzanga-Sangha	CAR		٠			
6	Maringa-Lopori-Wamba	DR Congo	٠	٠	٠	٠	٠
7	Bili-Uele	DR Congo		٠			
8	Kalinzi	DR Congo		٠			
9	Virunga				٠		
10	Budongo	Uganda	٠				٠
11	Lake Mburo	Uganda	٠				٠
12	Murchison Falls	Uganda	٠				٠
13	Nimule	Uganda	٠				٠
14	Imatong-Kidepo	S.Sudan/Ug.	٠				٠
15	Simien	Ethiopia	٠	٠	٠	٠	٠
16	Bale	Ethiopia			٠		
17	Samburu	Kenya	٠	٠	٠		٠
18	Rift Valley	Kenya	٠				٠
19	Mara/Serengeti	Kenya/Tanz.	٠				
20	Kilimanjaro	Kenya/Tanz.	٠	٠	٠		•
21	Tsavo	Kenya		٠	٠		
22	Maasai Steppe	Tanzania	٠	٠	٠	٠	٠
23	Ruaha	Tanzania	٠	٠	٠		٠
24	Selous	Tanzania		٠			
25	Kafue	Zambia		٠			
26	Kazungula	4 Corners	٠	٠	٠	٠	
27	Zambezi-Mana Pools	Zimbabwe		٠			
28	Ngwizi	Zimbabwe	٠				
29	Limpopo	Moz./S.Africa		٠			
30	Zululand	South Africa		٠			
31	Great Fish River NR	South Africa		•			
32	Kalahari	Botswana		٠			
33	Skeleton Coast Etosha	Namibia		٠	٠		



(2)

Landscape Planning – Holistic Programs—Quid Pro-quo

Conservation Enterprise A commercial activity that generates economic benefits that support conservation & communities.

CONSERVATION ENTERPRISE: A DECISION SUPPORT TOOLKIT













Creating the Right Environment



Ol Lentille, Kenya

Agriculture & Value Chain, DR Congo

Livestock Value Addition, Kenya and Tanzania

AWF Enterprise



35 Projects Open For Business

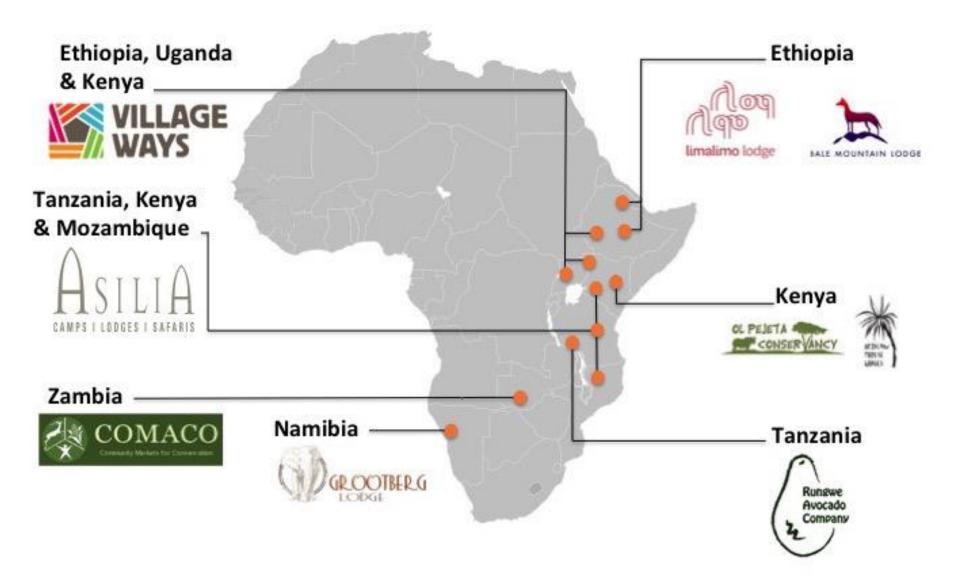


.... Grants, venture capital funds, local assets Local Community Partners net over US\$ 2 million p.a.

.... and other non financial benefits, such as improved security, rangeland quality, livelihood diversification, capacity Beneficiaries=250,000

Leading to conservation gains through changes in land use, methods, incentives





REDD+

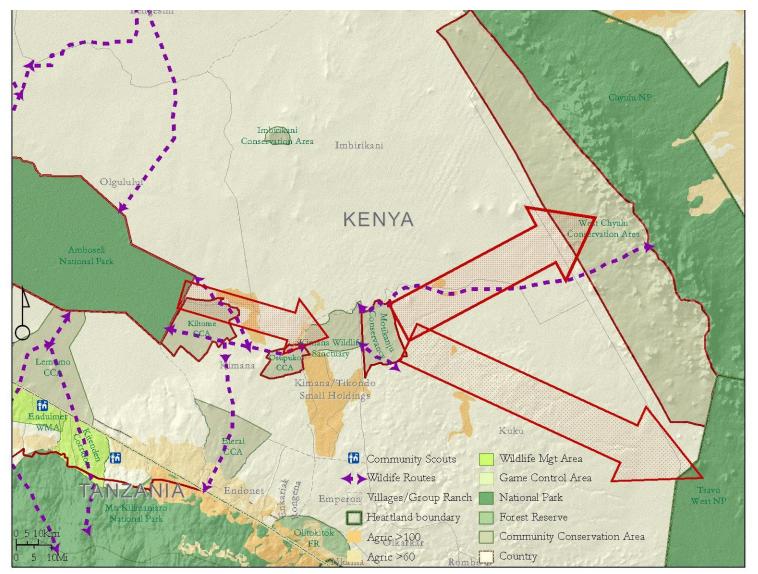




A tool to protect strategic forest lands & provide incentives to forestdependent communities.

REDD+





Sources:AWF, KWS, Monduli District, FAO-Africover SRTM 90m, Tracks4Africa

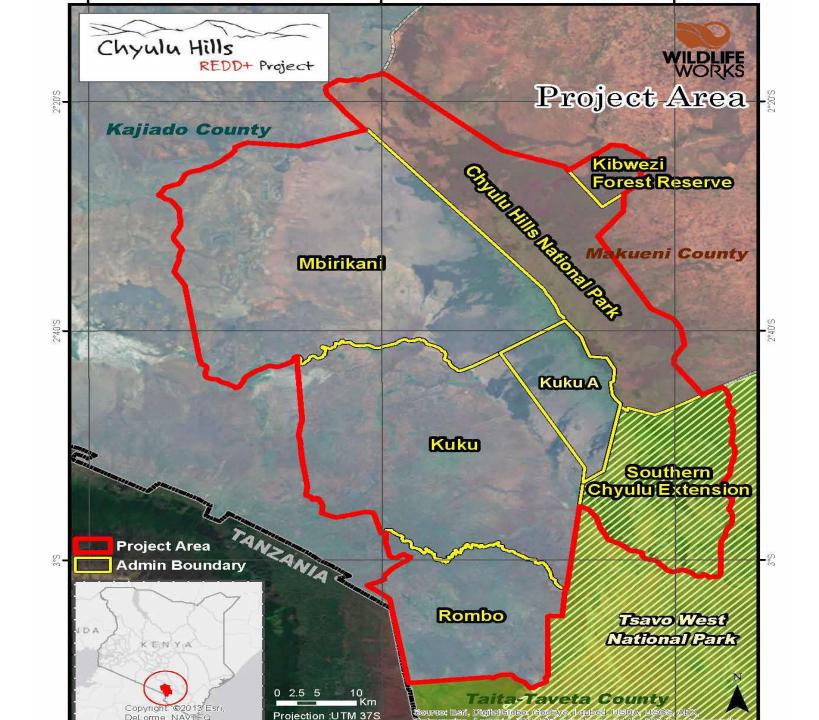


AWF Spatial Analysis Laboratory, Apr-09 **REDD+**









REDD+: Kolo Hills, Tanzania



35°30'E 35°45'E 36°E 36°15'E Kolo REDD Project: Management Areas MONDALI 105. Lolki MBULU GO Nou FR Tarangire NP BAB Ufiome Ufana FR -4º15'S 1º15'S-The Lifeline of Bereka I **Tarangire National Park** TZ District Forest Reserve -4°30'S 1º30'S-Game Reserve National Park Village Project Influence Area Mkungunero Reference Area Some FR -4°45'S 1º45'Sand FR RERA 5 10Km 0 oment FR 505 5º5-AWF, Open Street Maps, Africover Univ. of Dar Es Salaam

AFRICAN WILDLIFE FOUNDATION*

AWF Spatial Analysis Laboratory, Jun-12

REDD+: Kolo Hills Tanzania



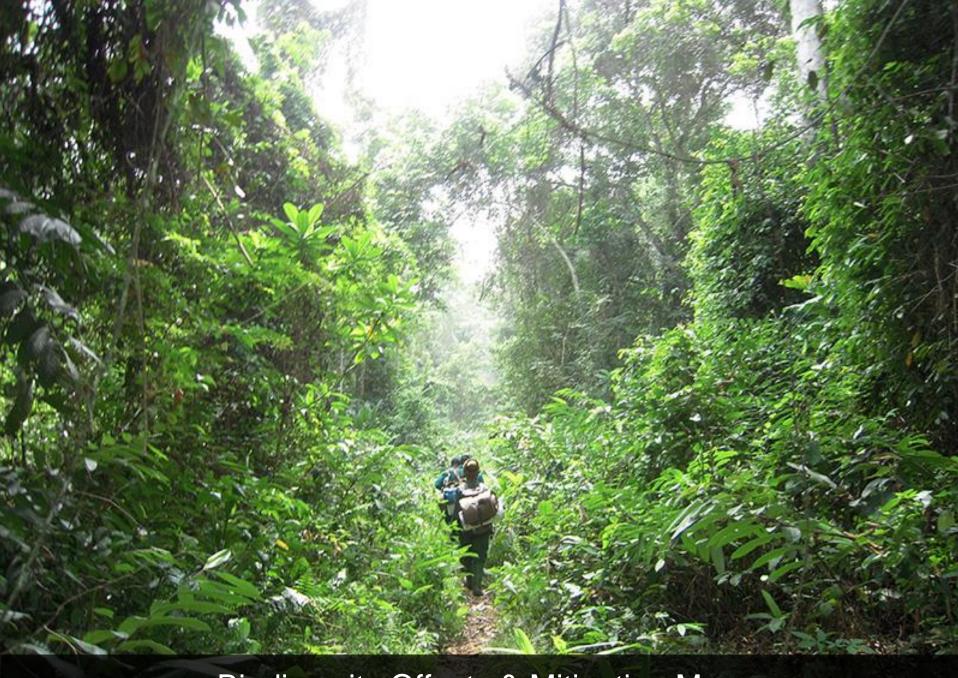


Headwaters Tarangire River

- 22,000+ hectares of forest
- Prevent GHG emissions
- Generate Revenue
- Provide alternative livelihoods to forest dependent communities
- Validated by Plan Vivo Foundation



Payment for Ecosystem Services



Biodiversity Offsets & Mitigation Measures



Increasing Protected Area Revenue



Impact of Conservation Enterprises A Case Study

Kilimanjaro Landscape, Kenya

A CONTINENT OF CHANGE

Conservation Enterprise



A commercial activity that supports the attainment of a conservation goal



Single ventures e.g. tourism



Value chain e.g. Coffee, livestock marketing , non-timber natural products



Key Question:

- Do enterprises work as conservation strategy?
- What is their impact?

Criteria for impact assessment

- Commercial performance
- Socio-economic Livelihood Impact
- Conservation Impact

The Part Provention

Satao Elerai Lodge Case study



A. PIMA System

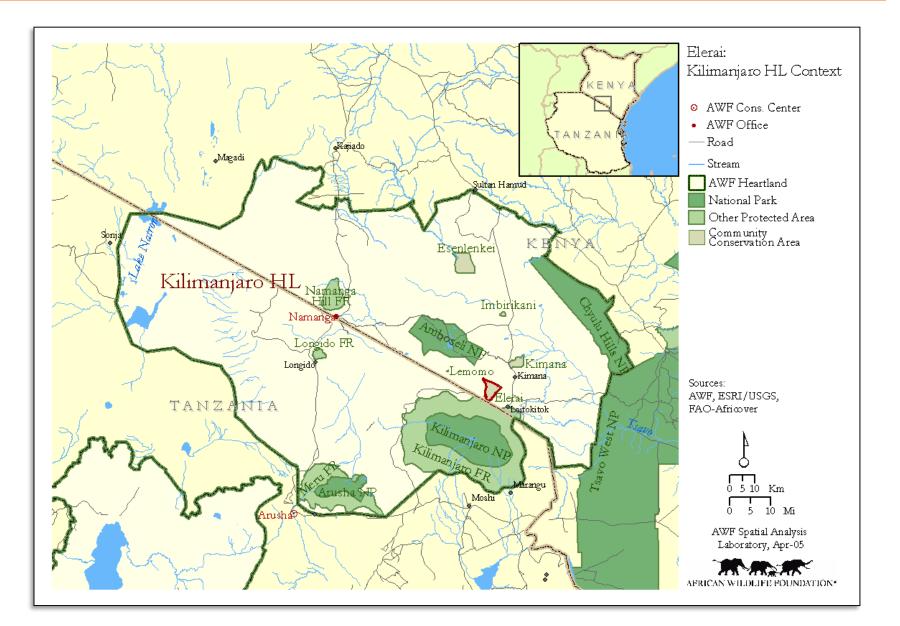
- Systematic monitoring of key impact indicators
 - Commercial performance, employment, benefit distribution etc
- **B. WELD Methodology livelihood impact**
- Mixed methods qualitative and quantitative
- Socioeconomic surveys h/h questionnaires (n=248)
- Focus Group Discussions
- Participatory Wealth Ranking
- Not used control groups
- Focuses on intervention NOT site/landscape

C. GIS analysis of land use change

D. Aerial wildlife census and tourist sightings

Satao Elerai Geographical Context





Satao Elerai Lodge: Brief

- Partnership between Southern Cross Safaris & Elerai Group Ranch
- Investment = \$600,000
- 15 year lease
- Opened June 2007
- 28-bed lodge
- Rates: \$530 (peak) \$340 (low)
- Secured 4350 acres of corridor & dispersal area to Mt Kilimanjaro
- Beneficiaries 253 households, 1500 people
- Employs 30 people
- Livelihood activities Farming, livestock production



	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	Total
Total Bed nights	982	2,318	2,207	4,006	4,016	4533	3686	13,529
Occupancy	9.6%	23%	22%	39%	39.7%	44%	36%	Avg =30%
Gross Revenue	\$96,174	\$297,262	\$335,970	\$600,019	\$701,290	\$615,196	\$449,052	\$2,030,715
Overheads	\$92,047	\$179,637	\$197,955	\$322,476	\$371,684	\$269,118	\$269,431	\$1,163,799
Other overheads: Salaries	\$75,421	\$72,789	\$66,700	\$71,507	\$104,174	\$115,218	\$139,320	\$645,129
Income to community	\$24,332	\$51,179	\$51,070	\$90,863	\$92,818	\$114,190	\$97,312	\$521,764
Profit	(\$95,626)	(\$6,343)	\$20,245	\$115,173	\$132,614	\$116,670	(\$57,011)	\$225,722

Distribution of Community Benefits



Direct Payment to

Landowners

Maintenance of

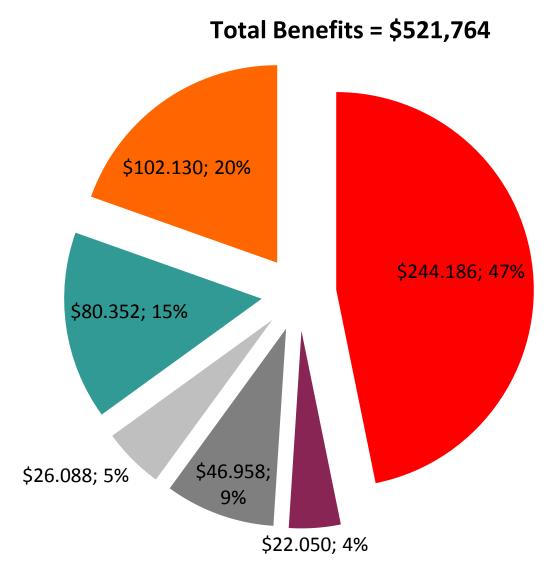
Social Support

Community Assets

Salaries and Wages

Legal Fees

Education



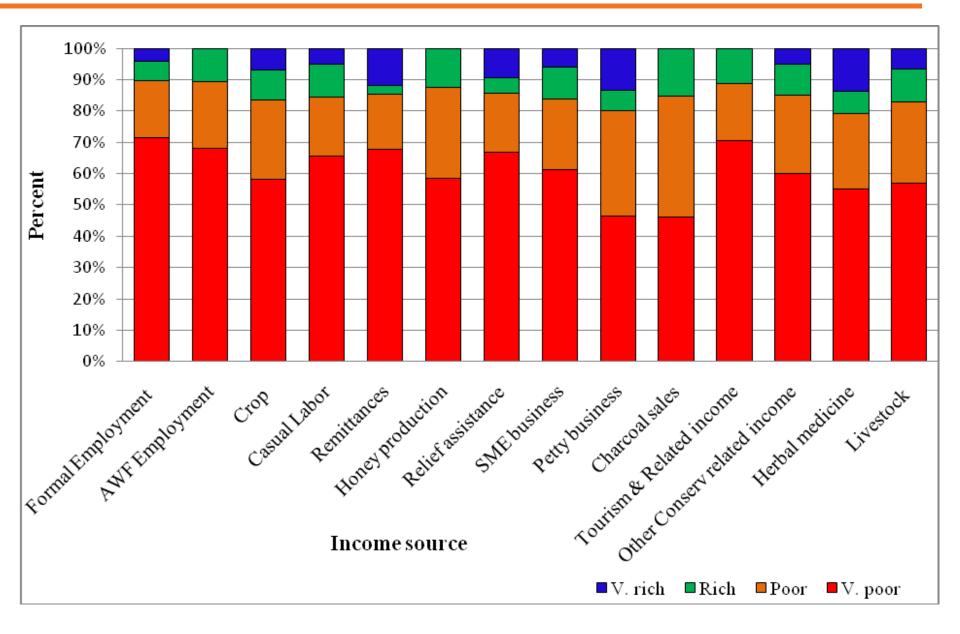


Wealth Index	Frequency	Percentage
Very poor	147	59.3
Poor	60	24.2
Rich	25	10.0
Very rich	16	6.5
Total	248	100.0

Source of Income	% of
	Households
Crop production	75.4
Livestock production	42.3
Casual Labor	40.7
Conservation/tourism income	27.5
Formal Employment	19.8
Remittances	19
SME business	19

Expenditure Item	Percentage		90.0 80.0				
Food	62.5	e.	70.0 60.0				
Hospital	15.6	Percentage	50.0 40.0				
School fees	21.8	Per	30.0 20.0	_			
Loan payment	9.4		10.0 0.0	_	_		
Crop production inputs	28.1				eased	Decreased	No change
Livestock production inputs	25.0		Income Expediture		5. 3 3.9	22.3 7.3	21.5 13.8

Sources of Income by Wealth Group



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Changes in Household Assets



Household items	2010	2006	% Change
Transport/ Logistics			
Motorcycle	14.7	4.7	10
Car/matatu	2.7	2.2	0.5
Bicycle	24.3	25.4	-1.1
Communication			
Television	12.0	12.1	-0.1
Radio	73.3	68.9	4.4
Cell phone	30.5	25.2	5.3
Anti -Conservation			
Charcoal Jiko	13.7	13.8	-0.1
Other			
Bank account	24.9	19.8	5.1
A sewing machine	3.1	2.7	0.4
Sofa set	25.0	24.3	0.7
Table	69.5	68.4	1.1
Mattress	61.1	58.0	3.1
Bed	85.8	81.9	3.9
Mosquito nets	51.1	46.9	4.2
Torch	74.3	73.6	0.7
Blanket	91.1	88.9	2.2



Income Stream		Clusters										
		tion, crop uction	Crop proc and live		Crop production Crop production and business employment			Conservation and business				
	Mean	%	Mean	%	Mean	%	Mean	%	Mean	%		
Employment Income	468.8	9.1	17272.5	24.4	3258.3	10.6	44000.0	25.0	8333.3	6.9		
Conservation Income	1382.9	26.9	2346.4	3.3	3179.3	10.3	625.0	0.4	55,833. 3	46.2		
Crops Production	1528.2	29.8	33928.6	48.0	12444.6	40.4	107000	60.7	9900.0	8.2		
Business Income	1068.2	20.8	6782.1	9.6	6612.0	21.5	8625.0	4.9	46,666. 7	38.7		
Livestock Production	684.7	13.3	10339.3	14.6	5283.9	17.2	16000.0	9.1	0.0	0.0		
Average annual income	5132 (\$64)	100	70,668 (\$883)	100	30,778 (\$385)	100	176,250 (\$2,203)	100	120,733 (\$1509)	100		
N	85	34%	28	11%	121	49%	8	3%	6	2%		

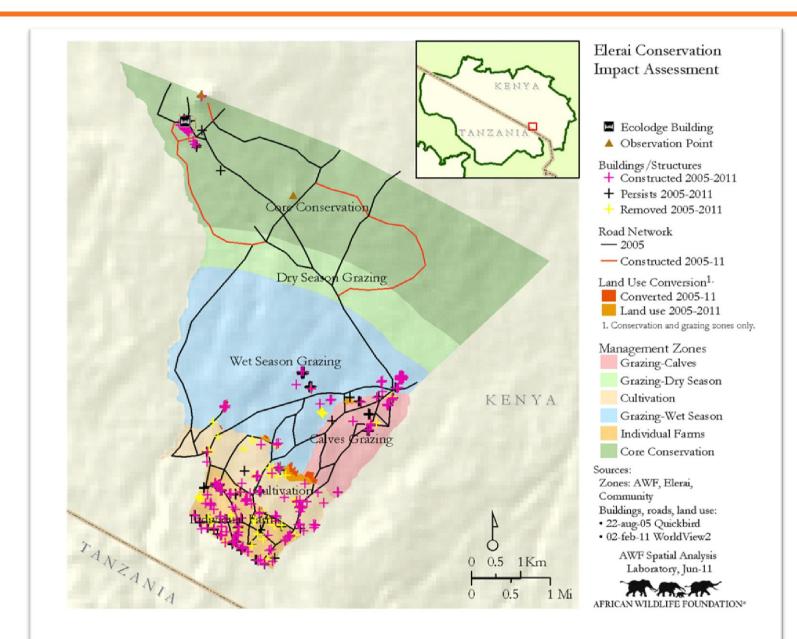
Determinants of Livelihood Patterns



	Crops and conservation			Cro	Crops and livestock			Crops and business		
	В	Sig	Exp(B)	В	Sig	Exp(B)	В	Sig	Exp(B)	
Wealth Status										
Very poor [®]		.271			.260			.279		
Poor	113	.832	.893	487	.420	.614	162	.693	.850	
Rich	.657	.412	1.929	-1.157	.112	.314*	047	.935	.954	
Very rich	-1.591	.089	.204*	-1.263	.124	.283*	1.537	.065	4.650**	
Gender										
Male®										
Female	.058	.902	1.060	.937	.099	2.553*	450	.243	.638	
Marital Status										
Widowed	2.331	.086	10.293*	-1.290	.265	.275	208	.834	.812	
Other	20.856	1.000	1.14*10 ⁹	21.041	1.000	1.3*10 ⁹	-21.576	1.000	.000	
Education Level of HH Head										
No Formal [®]		.607			.684			.317		
Complete primary	601	.466	.548	570	.441	.566	1.305	.061	3.686**	
Complete tertiary	-19.853	1.000	.000	19.535	1.000	3.0*10 ⁸	17.994	1.000	6.5*10 ⁷	
Highest Completed education										
Secondary	.492	.509	1.636	-1.778	.039	.169**	1.702	.031	5.485**	
Tertiary	19.464	1.000	2.84*10 ⁸	21.666	1.000	2.5*10 ⁹	-21.982	1.000	.000	
Age										
Less than 30 Years®		.131			.642			.437		
41-50 Years	-1.185	.058	.306**	1.288	.140	3.627	.810	.133	2.248	
61 + Years	-1.591	.049	.204**	.646	.478	1.909	.254	.672	1.289	
Distance to conservation area	176	.000	.839***	.052	.095	1.053*	.024	.274	1.024	
Years lived in community	020	.342	.980	.020	.436	1.020	.019	.269	1.019	
Participation in AWF activities	3.751	.000	42.582***	1.015	.086	2.761**	-1.792	.000	.167***	
Constant	4.459	.000	86.411***	231	.810	.794	382	.637	.682	

Conservation Impact: Land-use Change





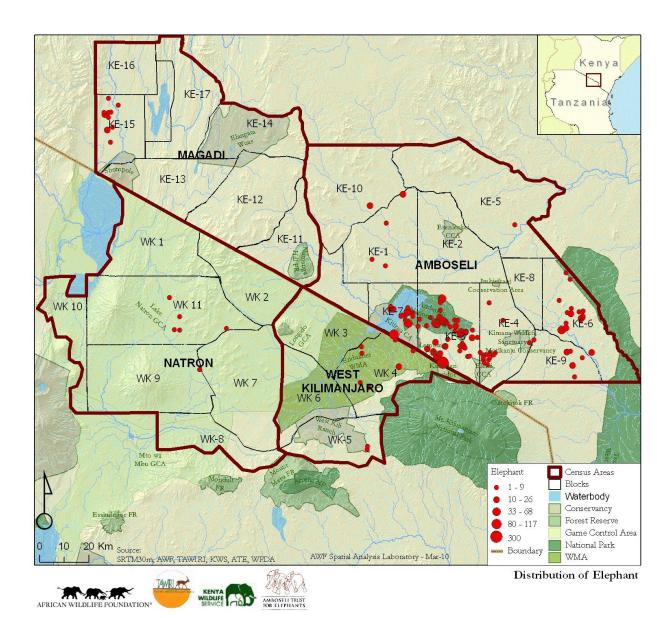


Zone	Acres	Converted (2005)	Converte d (2005- 11)	Total Change	% change
Calves Grazing	638	12.5	21.3	33.8	0.3
Core Conservation	4,350	2.6	7.1	9.7	0.1
Dry Season Grazing	1,144	0	0	0	0
Wet Season Grazing	3,198	18.9	36	54.9	0.6
Totals	9,322	34	64.4	98.4	1.0



Species diversity and use increased

- Elephants (200)
- Cheetah
- Zebra
- Giraffe
- Eland
- Lions
- Various antelopes
- Buffalo



Improved Wildlife Viewing









- Lodge performing well and generating substantial benefits for community from conservation
- Benefits very important for the poor in Elerai
- Benefits helped to address land use change in keeping conservation area intact
- Impact monitoring key for designing post deal support
 - Need more monitoring cycles
- Community Governance ongoing challenge
- Spin-off Enterprises important for community benefits



AWF has proven that conservation can deliver tangible benefits to communities and conservation in large socioeconomic landscapes. AWF has the tools to scale up our experience across Africa.

Now is the time.





www.awf.org dsumba@awf.org kfitzgerald@awf.org

