

## Kenya Integrated Sea Turtle Conservation (KIST-Con) Program: WWF Annual Work Plan - FY 2009

**Project Goal: Improved conservation and management of sea turtles and their habitats for improved livelihoods along the**

Time Frame: November 2008 - October

2009

Activity	Implementation	Indicator	Q1	Q2	Q3	Q4
<b>Objective 1: Improve management and conservation of natural resources along the Kenyan Coast through strategic use of scientific monitoring.</b>						
Undertake turtle telemetry & PIT (Passive Integrated Transponder) tagging and monitoring for data on migratory patterns and identification of inter nesting habitats	Install ten (10) new satellite tags in different sites along the Kenyan coast to study trends foraging and migratory habitats of turtles	100 Ha under improved management; Number of sea turtles tagged using satellite & PIT tags; Mapping of migratory routes & Inter nesting of turtles on Kenyan Beaches				
Study and analyze population of turtle colonies in the inter nesting habitats	Identification of various turtles colonies harnessing the inter nesting habitats along the Kenyan coast, Establish the nesting & remigration cycles of the nesting population, Data/Information on behavioural tendencies of turtle colonies	Accurate identification of the nesting & remigration cycles of various colonies nesting along the Kenyan coastline, Approximate composition of a turtle colony (cohorts & Sex ratio)				
Identify and monitor turtle refugia and foraging grounds	Turtle foraging & Refugia sites participatorily identified, Georeferenced & Mapped, Guide the development of management measures for these sites (gear exclusion, closed seasons, eco-tourism sites/Non-consumptive utilization)	20% annual increase in hatchling success; GIS Maps of foraging and turtle refugia sites, participatory Delimitation/zonation of the sites; Number of people (men/women) receiving training in turtle management; Number of people (men/women) adopting appropriate NRM tools and technologies.				
Collect and collate data on turtle diseases and effect of climate change	Identification of turtle disease drivers ( <i>fibriopapilloma</i> ), Augment climate change data collected through other means such as coral reef monitoring (e.g. change in migration cycles/routes, change in foraging habitats, change in turtle dietary needs & nesting behaviour)	Time series information on turtle habitats & behaviour (foraging habitats, dietary preferences, stressed behaviour, change in beach gradient & substrate); Number of turtle mortality caused by <i>fibriopapilloma</i> & <i>stachia</i>				
<b>Objective 2: Increase awareness and incentives for communities and private sector to monitor and safeguard turtles.</b>						

Provide incentive for community turtle nest protection and hatchling monitoring	Ownership of turtle species by community ( <i>Monitoring turtle nests from laying till hatchlings voluntarily</i> ), Voluntary reporting & release of incidentally caught turtles when found alive	Number of nests monitored by the community; Reduction of incidental catches from artisanal fishing activities; Number of new communities entering into the turtle conservation incentive scheme; Number of people (men/women) with increased economic benefits derived from sustainable NRM and conservation.				
Establish turtle youth conservation groups to undertake ecotourism based income generating activities	Enhanced eco-tourism revenue earnings & jobs for youths in areas where local communities involved in turtle species conservation. Hotels & tour operators partner and actively support turtle youth groups (symbiotic relationship),	Number of viable youth groups formed, Number of hotels, tour operators & private organizations actively involved in fostering the burgeoning turtle eco-tourism initiatives through: Training, partnerships (bringing tourists & referrals) and championing of <i>in-situ</i> turtle conservation				
Forge and strengthen partnership between government lead agencies, private investors and community to enhance turtle conservation and livelihoods opportunities emanating from conservation efforts	Establishment of a <i>Adopt - a - Turtle (satellite tagged) program</i> as an income generating venture for the community & fund raising initiative for turtle conservation. Increased capacity of government agencies to effectively carry out their mandate, enhanced co-operation between local community & government agencies. Sustainable support & involvement of private investors & organizations in to livelihood geared initiatives with the focal point being sea turtle species	Increased co-operation specifically regarding sea turtle management between local community, government agencies & private investors (complementary relationships & goodwill amongst the various players); Income accruing to the community as turtle incentives and payments earned from turtle tours.				
Document community based turtle conservation experiences of Kiunga and share them with other TCGs	Collect best practises and lessons learnt in turtle conservation and publish for sharing	Number of products produced and shared with other TCGs				

Establish turtle conservation sites/areas (sanctuaries/imbos) managed jointly by community and lead government agencies with support from private enterprises and investors (hotels and dive operators)	Community policing of turtle conservation (sanctuaries/imbos), Strengthened eco-tourism & increased earnings to hoteliers & local community, implementation of specific management measures ( <i>best practice</i> ) such as gear exclusion, season closure, non-consumptive utilisation	Participatory identification of these sites, Community willingness to set aside such areas, compliance of jointly agreed resource use rules, Participation & support from relevant government agencies; Number of people (men/women) receiving training in improved business practice and sustainable production.				
<b>Objective 3: Scale-up monitoring and enforcement activities to priority areas (high threat, high potential), especially those areas where turtle protection groups are not yet functional</b>						
Strengthen the existing community policing initiatives with Beach Management Units (BMUs), lead agencies and other enforcement agencies	Community compliance to the existing Laws, BMU by-laws, Improved & enhanced community policing initiative by BMUs, Co-operation & information sharing between various lead & enforcement agencies	Improve NRM and conservation across diverse landscapes; Information sharing forum (sea turtles) between various government agencies & the community through the BMUs; Reduced poaching incidences along the Kenyan Coastline; Number of joint sea patrols undertaken by the enforcement agencies & BMUs.				
Enhance the capacity of enforcement agencies to effectively undertake their duties	Enforcement agencies able to effectively undertake their mandate in their area jurisdiction. Enforcement agencies fully equipped and enjoy community support in the execution of their duties	Reduction in turtle poaching & incidental catchings from illegal trawling activities. Number of sea patrols undertaken by enforcement agencies				
Enhance the capacity of turtle youth groups to effectively participate in sea turtle conservation activities	Youth trained in eco-tourism (hospitality, tour guiding, group & fiscal management) Strengthened the youth volunteer programme - through training in new turtle conservation methodology such as - PIT, Satellite tagging, issues & new turtle conservation methodology, Linkages with other turtle conservation programs in WWF for information & skills sharing	Number of youth trained in eco-tourism related conservation program in the region.				
Replicate turtle conservation youth groups within the Lamu Seascape in priority nesting sites	An active network of turtle conservation youth groups linked together by the need to conserve sea turtles through sharing information, experiences & skills	Replication of Kiunga turtle youth conservation groups in sync with prevailing local conditions				

Train WWF, KWS/KESCOM, FID & local community on Satellite & PIT tagging methodology	Key staff skills & ability to satellite tag a turtle & geographically track a satellite tagged, Map routes and intergrate the information into georeferenced map enhanced, staff be able to develop real time GIS & habitat maps for dissemination	Number of Key staff conversant with GIS technology (Arc View 9.2), Maps and information developed & disseminated by this team. Data collected and collated through satellite telemetry and shared lessons through training, publishing and replicating experiences.				
Enhance the capacity of Key persons from WWF, KWS/KESCOM, FID & local community on GIS Arc View 9.2 & preferably BILKO remote sensing software	Key Staff able to intergrate GIS & remote sensing data in to a media presentable to decision makers and the general public	Number staff conversant with BILKO remote sensing software, Data & information sysnthesized in to a media understandable to all.				