
2018-2019 Plan Vivo Annual Report

Mikoko Pamoja

Submitted by the Mikoko Pamoja Community Organization

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2019

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Acronyms

ACES	Association for Coastal Ecosystem Services
CFA	Community Forest Association
CS	Cabinet Secretary
GOGACOFA	Gogoni-Gazi Community Forest Association
KFS	Kenya Forest Service
KMFRI	Kenya Marine & Fisheries Research Institute
MPCO	Mikoko Pamoja Community Organisation
MPSG	Mikoko Pamoja steering group
NGO	Non-governmental Organisation
PES	Payment for Ecosystem Services
PFMP	Participatory Forest Management plan
PDD	Project Design Document
PVC	Plan Vivo Certificates
WWF	World Wide Fund for Nature

Glossary

Blue Carbon; The carbon captured by living organisms in oceans which is stored in the form of biomass and sediments from mangroves, salt marshes and sea grasses.

Carbon credits; A carbon credit is a generic term for any tradable certificate or permit representing the right to emit one tonne of carbon dioxide or the mass of another greenhouse gas with a carbon dioxide (tCO₂e) equivalent to one tonne of carbon dioxide.

Plan vivo foundation; The Foundation reviews and registers projects according to the Plan Vivo Standard, issues Plan Vivo Certificates annually following the submission and approval of each project's annual report, and acts as overall 'keeper' of the Plan Vivo System which is periodically reviewed in consultation with projects and other stakeholders.

Summary

Project Overview	
Reporting period	1 st January 2019 – 31 st December 2019
Geographical areas	Gabi Bay mangrove forest
Technical specifications in use	Mikoko Pamoja

	Historical (2014-2018)	Added/Issued this period (2019)	Total
No. smallholder households with PES agreements	0	0	0
No. community groups with PES agreements (where applicable)	1	0	1
Approximate number of households (or individuals) in these community groups	498	202	700
Area under management (ha) where PES agreements are in place	117.4ha	0	117.4ha
Total PES payments made to participants (USD)	\$58,691	\$17,562	\$76,253
Total sum held in trust for future PES payments (USD)			\$4,370
Allocation to Plan Vivo buffer (tCO2)	1,745	369	2,114
Saleable emissions reductions achieved (tCO2)	9,880	2,043	11,923
Unsold Stock at time of Submission (PVC)			0
Total Unsold Stock (PVC)	0	0	0
Plan Vivo Certificates (PVCs) issued to date	9,880		
Plan Vivo Certificates requested for issuance (2018 Vintage)	2,043		
Plan Vivo Certificates available for future issuance (REDD only)	0		
Total PVCs issued (including this report)	11,923		

*this is the total balance in the ACES account, including anticipated costs. See Table G1

Part A: Project updates

A1 Key events

18- 19th February 2019

A capacity building Workshop was held in Diani, south coast Kenya in order to enhance mangrove governance and legal implementation. Part of the workshop program was a field visit to Mikoko Pamoja as a best-case study in mangrove restoration. The workshop was organized by KMFRI in collaboration with International Union for Conservation of Nature (IUCN) which are part of the 'Save Our Mangroves Now!', an Initiative which is committed to conserving, protecting and restoring mangroves. The workshops, which was organized at a national level, allowed more free discussion of governance challenges and questions, as well as more technical focus on specific legal and policy problems.

23rd February -3rd March

Mikoko Pamoja carbon offset project was established by KMFRI in 2013 under the Plan Vivo Systems and Standards. Efforts have been underway to replicate Mikoko Pamoja in Vanga. Plan Vivo requires for carbon projects to be verified after every 5 years by an external validator. On this note, Mikoko Pamoja and Vanga Blue forest project were visited for verification and validation respectively from 23rd February to 3rd March. The visit included visiting the project sites and implemented community projects, interviews with the local stakeholders and meetings with the project committees. The issues of major and minor concern raised during verification were dealt with by the team and verification was granted in June 2019. Hence this five-year verification following independent scrutiny of Mikoko Pamoja by Epic Ltd consultancy was a major achievement of the project in 2019.

16th April and 8th May

The Jijenge Jiboreshe Youth Initiative which is based in Kisauni, Mombasa Kenya, a region that is seeing many youths joining illegal gangs and taking drugs due to unemployment. A four-day training organized by Coast Women in Development was held where the youths were trained on many things including community-based restoration and management of mangroves. Mikoko Pamoja Project co-ordinator, Josphat, was one of the trainers on mangroves. He made a presentation on why mangrove conservation was important and used the Mikoko Pamoja project as a case study of successful Community Based Mangrove Restoration and Management project using the sale of Carbon credits. The activities that are to be implemented under the Jijenge Jiboreshe Youth Initiative project aim at providing and strengthening the targeted beneficiaries with avenues of contributing towards poverty alleviation, protection of the environment, leadership, economic justice and gender equality.



Figure 1: Member of the Jijenge Jiboreshe Youth Initiative explaining the procedures and efforts they made towards mangroves restoration just before the demonstration activity

24th June 2019

The Vanga Jimbo Kiwengu (VAJIKI) Community Forest Association (CFA) in collaboration with Kenya Marine & Fisheries Research Institute (KMFRI), Kenya Forest Service (KFS) and WWF-Kenya organized for the launch of the VAJIKI Participatory Forest Management Plan (PFMP) following its approval by KFS. The launch was attended by over 400 people from the Vanga community, the County and National government and supporting partners including UNEP and ACES (Association for coastal ecosystem services). The event was honoured by the chief guest, Cabinet Secretary for the Environment Keriako Tobiko, as well as the Chief Conservator of Forests Mr. Julius Kamau. Other honourable guests included KMFRI Board Chairman Hon. John Safari Mumba, Kwale County Commissioner Mr. Julius Karuku Ngumo and the Kwale County CEC for Environment Hon. Saumu Mahaja. Once implemented the PFMP will enable local communities in Vanga to utilize mangrove forests and their ecosystem services sustainably and have equitable sharing of all benefits accrued include carbon trading.



Figure 2: CS for Environment and Forestry, Hon Keriako Tobiko, Launching the VAJIKI Participatory forest management Plan

31st July- 3rd August

The 56th meeting on the Annual Tropical Biology Conservation (ATBC) took place on 31st July-3rd August 2019 in Antananarivo, Madagascar. The meeting aimed at gathering researchers, students, and professionals in a range of scientific disciplines from around the world in order to provide an effective tool towards a common effort to harmonize biodiversity conservation and human well-being. Mikoko Pamoja social Impacts officer, Anne Wanjiru, presented on the "Enhancing mangrove governance through carbon financing: A case study of Mikoko Pamoja project" during the mangrove restoration session organized by WWF- Madagascar. The whole symposium provided an excellent platform to network with researchers and academics who are carrying out similar work in different countries.

4th - 8th September

6 Mikoko Pamoja committee members participated in the 2019 Mombasa International Show which took place on 4th to 8th September. The show attracted over 180 key exhibitors in the agricultural and trade sectors. The Agricultural Society of Kenya (organizer) identified the great need to adopt modern technologies and innovations in agriculture and trade as reflected in the current show theme; "Promoting Innovation and Technology in Agriculture and Trade". Mikoko Pamoja showcased under the KMFRI stand where the latter scooped three awards for being the best in Organization/Association in Community Projects/Service Stand category and second-best in Research and Development as well as second-best in Medium Trade Stand (Commercial and Industrial).

18th October

Management of the project lies on the community through a committee of 13 volunteers elected from the participating villages of Gazi and Makongeni. A new committee was voted in by the community to take office in September 2019. Mikoko Pamoja, with support from Kenya Marine & Fisheries Research Institute (KMFRI) and Association for Coastal Ecosystem Services (ACES), held a meeting on 18th October 2019 at Pride Inn Hotel, Diani. The objectives of the meeting were to (i) Show appreciation to the outgoing Mikoko Pamoja committee for their support to the project (ii) Hand over responsibilities to the newly elected committee (iii) Appraise the incoming committee on project activities, community deliverables and their roles in the project.

28th – 31st October

Kenya Marine & Fisheries Research Institute (KMFRI) in collaboration with The Nature Conservancy (TNC) and other organizations carried out a National workshop on ‘Mangroves and NDCs’ in which 2 representatives for Mikoko Pamoja attended and made a presentation. The objectives of the workshop were to: (a) facilitate dialogue across sectors and among stakeholders concerned with mangrove conservation in Kenya; (b) synthesize the progress made in developing information and tools to assess mangrove resources in Kenya; and identify gaps and barriers that hinder incorporation of mangroves in development and climate change agenda; (c) leverage national and international support towards restoration and conservation of mangrove forests in Kenya; (d) Outline a roadmap for sustainable management of mangrove resources in Kenya in line with Paris agreement, Sustainable Development Goals, and the forthcoming Ocean Summit (2020). The workshop was attended by 110 participants from the National and County Government, government institutions, NGOs, academia and community Based organizations. The meeting was graced by the PS for Environment and Forestry, Hon Betty Maina.

A2 Successes and challenges

Successes

Revenue: Sales of carbon credits this year have earned USD23255 for Mikoko Pamoja. This revenue has benefitted the local community (further information in Annex 2).

Launching of the Vanga Blue forest Project: Since its inception, Mikoko Pamoja has attracted international attention, being awarded the prestigious UN’s Equator Prize (2017) and receiving additional financing from the Leonardo DiCaprio Foundation, UN’s Blue Forest Project, International Coral Reef Initiative (ICRI), Norwegian Blue Forest Network, and WWF to help fund a replication of the project in Vanga.



Figure 3: Cabinet Secretary for the Environment launching the VAJIKI Participatory Forest Management Plan alongside Harith Mohammed, VAJIKI Chair (left), Gabriel Grimsditch, UNEP (second left) and Robyn Shilland, ACES (third right)

for a 20% risk reduction buffer. In addition to the climate mitigation benefits, the project is expected to generate multiple community and biodiversity benefits in the area, including support for local services (education, sanitation and clean water), and increased fishery stocks and resilience.

Five-year Verification: Mikoko Pamoja hosted a consultant from the independent company EPIC Sustainability Services Pvt. Ltd. to conduct our five-year verification. This produced a favourable outcome, confirming that we are achieving the goals established in our original PDD

Project co-ordinator and new committee

A new committee was appointed following a competitive election. Our project co-ordinator Josphat Mwamba left to pursue masters studies; we thank him for his contributions over the past four years. We are in the process of recruiting for a new co-ordinator who should be appointed early in 2020.

A3 Project developments

The PDD was modified, following the five-year verification and work to incorporate seagrass carbon as additional (non-credit bearing) ecosystem service, as described in A4. So, the main changes were to include seagrass in our activities and to change the penalty incurred for failure to meet our planting targets. Over the past 4 years we have not managed to achieve 4000 seedlings as anticipated in our original PDD. Our monitoring protocol stipulated that this would incur a 10% loss in credits issued, even though the technical specification showed that only ~ 1.3% of our total carbon benefits were lost; hence we were suffering a disproportionate penalty. We have submitted a correction to this and hope to be judged by Plan Vivo against this new standard for our 2020 issuances.

A4 Future Developments

Incorporation of seagrass into Mikoko Pamoja

Efforts directed at up scaling Mikoko Pamoja to include seagrass conservation are underway, following five years of scientific research on the scale and vulnerability of seagrass carbon stocks in Gazi Bay. The project has begun to engage the local stakeholders in consultative meetings to appraise them on incorporation of seagrass conservation in the Mikoko Pamoja project. The initial meeting took place on 6th September 2019. Workshop participants were drawn from the Gazi community, Kenya Marine & Fisheries Research Institute (KMFRI), beach Management unit, Mikoko Pamoja project and the State Department of Fisheries & Blue Economy (SDF & BE). A total of 31 participants attended the meeting. We hope to officially launch the seagrass conservation project in March 2020 and to offer mangrove + seagrass credits (with seagrass carbon as a voluntary non-accredited benefit generating a higher price) in 2020.

Project co-ordinator

Vanga blue forest project recruited a project co-ordinator who will be responsible for, among other things, co-ordinating and implementing the annual activities of the organization. Mikoko Pamoja is also in a similar process and we aim to recruit a new co-ordinator in early 2020.

Part B: Project activities

B1 Project activities generating Plan Vivo Certificates

Mikoko Pamoja has a single technical specification that covers three activity areas, involving avoided deforestation/forest recovery activities in areas 1 and 2 and planting activities in area 3. The responsibilities for and benefits from these activities are shared communally within the single project community organisation.

Table B1: Project activity summary

Name of technical specification	Area (Ha)	No smallholder households	No Community Groups
Natural mixed forest (Activity area 1)	107	700	1

Indigenous plantation (Activity area 2)	10	700	1
Degraded beach site (Activity area 3)	0.4	700	1

B2 Project activities in addition to those generating Plan Vivo Certificates

Publicity and awareness raising

Mikoko Pamoja exhibited/presented its work at local, national and international events such as the Mombasa Agricultural Show, Annual Tropical biology conservation conference, KMFRI open day among others in a bid to engage the public and increase awareness of the project. Other avenues used by the project for publicity are social media platforms such as Facebook, twitter and Mikoko Pamoja related websites. The project was featured in 2 international newspapers and 2 local ones (Appendix 3.1).

Part C: Plan Vivo Certificate issuance submission

C1 Contractual statement

This issuance is based on signed PES agreements with participants complying with all the minimum requirements stated in these agreements.

C2 (b)Issuance request for projects where issuance is made on the basis of ongoing activities on land already managed by the project (e.g. avoided deforestation, calculated ex-post)

Table C1: Statement of tCO₂ reductions available for issuance as Plan Vivo Certificates based on activity for reporting period 01/2019 – 12/2019

Area ID	Total area (ha)	Tech. Spec	tCO ₂ available from previous periods	Total tCO ₂ achieved this period	% Buffer	No. of PVCs allocated to the buffer account	No. PVCs requested for issuance from saleable carbon	tCO ₂ available for future issuances
Project area 1	107	Mikoko Pamoja	0	2259	15	339	1920	0
Project area 2	10	Mikoko Pamoja	0	195	15	30	165	0
Project area 3	0.4	Mikoko Pamoja	0	0	15	0	0	0
TOTAL	117.4		0	2454		369	2043₁	0

₁this sum represents 98% of credits, after 15% buffer subtraction, given a 2% penalty for area 3 (since we failed to meet our threshold planting target).

Table C2: Allocation of issuance request for this reporting period

Buyer name/ Unsold Stock	No. PVCs transacted	Registry ID (if available)	Tech spec
Zero Mission	500	Not available as not yet retired	Mikoko Pamoja

C Level	25	Not available as not yet retired	Mikoko Pamoja
Charles and Kate Hussey	36	PV-PVC-KE-103000000008881-01012018-31122018-4830440-4830475-MER-0-P	Mikoko Pamoja
Ruth Malleson	12	PV-PVC-KE-103000000008881-01012018-31122018-4830476-4830487-MER-0-P	Mikoko Pamoja
Elfin Book NL	9	PV-PVC-KE-103000000008881-01012018-31122018-4830488-4830496-MER-0-P	Mikoko Pamoja
Alison Baker	7	PV-PVC-KE-103000000008881-01012018-31122018-4830497-4830503-MER-0-P	Mikoko Pamoja
Common Seas	18	PV-PVC-KE-103000000008881-01012018-31122018-4830504-4830521-MER-0-P	Mikoko Pamoja
Arcadia Fund	851	PV-PVC-KE-103000000008881-01012018-31122018-4831047-4831897-MER-0-P	Mikoko Pamoja
TROPIMUNDO	190	PV-PVC-KE-103000000008881-01012018-31122018-4831898-4832087-MER-0-P	Mikoko Pamoja
Ruth Malleson	5	Serial No.: PV-PVC-KE-103000000008881-01012018-31122018-4832088-4832092-MER-0-P	Mikoko Pamoja
GRID-Arendal	259	PV-PVC-KE-103000000008881-01012018-31122018-4832093-4832351-MER-0-P	Mikoko Pamoja
TOTAL	1912		

C3 Data to support issuance request

Please refer to Annex 1.

Part D: Sales of Plan Vivo Certificates

D1: Sales of Plan Vivo Certificates

All sales of Plan Vivo Certificates to date (including forward sold certificates for current issuance request) are presented in table D1.

Table D1: Sales of Plan Vivo Certificates

Vintage	Buyer	No of PVCs	Price per PVC (\$)*	Total sale amount (\$)*	Price to participants per PVC (\$)*	% Sale price received by participants
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SALES OCTOBER 2013 – October 2014 (note change in reporting year)						
2014	Earthwatch	1000				68.3**
2014	Paolo Merlini	10				68.3**
SALES OCTOBER 2014 – DECEMBER 2015 (note change in reporting year)						
2014	Zero Mission	720				68.3**
2014	Algarve Students	34				68.3**
2014	Imperial College	2				68.3**
2014	Nico Koedam Research Group	38				68.3**
2014	Nico Koedam Family	10				68.3**
2014	Will Ashley-Cantello	10				68.3**
SALES 2016						
2014	Iain and Julia	10				68.3**
2014	Farid - Tropimundo	189				68.3**
2015	Edinburgh Napier University	660				68.3**
2014	Steve Crooks	30				68.3**
2015	ZeroMission	700				68.3**
2015	SCB Marine Section	1,200				68.3**
SALES 2017						
2017	Vrije Universiteit Brussel	100				68.3**
2016	Zero Mission	1369				68.3**
2016	Farid - Tropimundo	29				68.3**
2016	Farid - Tropimundo	20				68.3**
2016	Farid - Tropimundo	25				68.3**
2017	Farid - Tropimundo	190				68.3**
SALES 2018						
2017	Farid - Tropimundo	178				68.3**
2017	SCB delegate offsetting	1200				68.3**
2017	Zero Mission	224				68.3**
2017	Koedam family	11				68.3**
2017	CCF conference	9				68.3**
SALES 2019						
2018	Zero Mission	500				94.3
2018	C Level	25				94.3
2018	Charles and Kate Hussey	36				94.3
2018	Ruth Malleson	12				94.3
2018	Elfin Book NL	9				94.3
2018	Alison Baker	7				94.3
2018	Common Seas	18				94.3
2018	Arcadia Fund	851				94.3
2018	TROPIMUNDO	190				94.3
2018	Ruth Malleson	5				94.3
2018	GRID-Arendal	259				94.3
TOTAL		9880				73.3

*Pricing reported for internal monitoring purposes only. Pricing information will be removed from the final published document.

** Due to a change in the processes by which % share is reported, the % sale price received by participants for the sale of vintages 2014 – 2017 has been calculated as an average across those

years.

D2: Unsold stock available for sale

The total unsold stock of Plan Vivo Certificates per year of issuance as at reporting period end is presented in table D2.

Table D2: Unsold stock of Plan Vivo Certificates

Vintage	No of PVCs	Price to participants
2018	0	n/a

Part E: Monitoring results

E1: Ecosystem services monitoring

Monitoring results that support the request for new issuances are presented in Annex 1.

E2: Maintaining commitments

No participants have resigned from the project this year.

E3: Socioeconomic monitoring

No socioeconomic modelling took place in 2018-19.

E4: Environmental and biodiversity monitoring

See Annex 1 for monitoring results. In addition to these core monitoring results, we presented data on fauna and on sedimentation to the verifier demonstrating recovering forest condition. We will continue to monitor for changes in the future.

Part F: Impacts

F1: Evidence of outcomes

Through proper village engagement and consultation Gazi village prioritized on village water project extension and purchasing of a 10000 litres water tank for Dori Girls Secondary School while in Makongeni village, the community prioritized on water project extension and purchasing of school desks for Makongeni primary school.

Part G: Payments for Ecosystem Services

G1: Summary of PES by year

Table G1: Summary of payments made and held in trust

1. Reporting year (2015 – 2017)	2. Total payments received (USD)	3. Total payments made (USD)	4. Total payments held in trust (USD)	5. Total payments withheld (USD)
10/13 – 10/14	6,081	11,984	0	0
10/14 – 12/15	9,834	12,510	475*	0
1/16 – 12/16	29,574.21	14,833	13,787*	0
1/17 – 12/17	22,229	13,401	19,544*	0
1/18 - 12/18	18,216	5,963	32,779*	0
1/19 – 12/19	23,255	17,562	4,370	0
TOTAL	109,189.21	76,253	4,370	

* The % sale price received by participants (table D1) and the ‘total payments held in trust’ column were reported incorrectly in years 2014-2018, resulting in an apparent accumulation of payments held in trust that did not reflect actual finances (the % sale price was reported as 100% when in fact averaged around 70%; this was an error). The 2019 year ‘total payments held in trust’ figure is now correct and subsequent years will account for overheads spending reducing the % sale price received by participants.

Before transfer to the Mikoko Pamoja Community Organization, funds are held by the charity The Association for Ecosystem Services (ACES).

Part H: Ongoing participation

H1: Recruitment

No recruitment occurred in this reporting period.

Mtwana Mwamba, the Project Coordinator, left the position to pursue a masters degree in ecosystem management. A replacement Project Coordinator will be recruited in early 2020.

H2: Project Potential

- **Bundling ecosystem goods and services**

Gazi Bay coastline hosts large seagrass beds, important for local fisheries, carbon sequestration among other benefits. Due to the declining rates of these ecosystem, Mikoko Pamoja seeks to incorporate seagrass conservation into carbon marketing and offsetting in order to help in the conservation and management of this critical ecosystem. The project initiated the first consultative meeting with the Gazi Bay community (fishermen and seaweed farmers) in order to discuss the feasibility and acceptability of the proposed project. The activity was funded by the United Nation Environment Program (UNEP).

- **Incorporating Energy efficient cooking stoves**

There is ongoing research that seeks to introduce energy efficient cooking stoves in Gazi Bay community in order to reduce pressure on mangroves by reducing fuelwood consumption. The stoves will also bring health benefits especially to women and children. It is expected that the stoves will be incorporated in Mikoko Pamoja for carbon accounting in the future, although further research is needed on the carbon and co-benefits of these before this is possible.



H3: Community participation

Mikoko Pamoja is governed by a committee made up of 13 volunteering community members from Gazi and Makongeni Villages. The committee is elected democratically biannually during village meetings (barazas). The election process follows a highly democratic procedure which is participatory in nature with close involvement and supervision of the Department of Social Development among other stakeholders. The Gazi Bay community elected a new committee on 2nd and 3rd September 2019. The newly elected committee comprises of six members from Makongeni and seven from Gazi. In terms of gender, 6 members are women while 7 are men. The committee will be in charge of ensuring that the annual work plan is implemented in a timely manner and that the community is engaged in all the project activities including nursery establishment, planting and monitoring. The committee will also engage the community in consultative meetings where they decide how they will utilize income earned from the sale of carbon credits.



Figure H3.1: Community participating in electing Mikoko Pamoja committee members

Mikoko Pamoja held several meetings during the 2018-19 reporting year to plan for the annual activities including monitoring, planting and nursery establishment. Other agendas include project security, community projects to be implemented and preparations for Key events. (Annex 2)

Part I: Project operating costs

I1: Allocation of costs

All expenditure this year was met from PVC sales. Due to the current impact of the CoronaVirus, and the social distancing requirements around this, the Mikoko Pamoja offices have been closed in order to protect the health of our staff. As such, at the time of this report being submitted to the Plan Vivo Foundation, we were unable to gather data on the project coordinator's expenditure. This has been discussed with the Plan Vivo Foundation and the situation has been accepted. As such, the project coordinator expenditure for 2019 will be detailed in the 2019-2020 annual report.

Annexes

Annex 1. Monitoring results for issuance request

Mikoko Pamoja operates on three main project areas. Areas 1 and 2 deliver PVCs through avoided deforestation and forest conservation activities. Area 3 involves planting trees in degraded beach sites that used to support mangrove forests. 98% of the PVCs are generated through activities in Areas 1 and 2.

Monitoring targets (of basal area occupied by cut stumps and of stocking rates indicating forest recovery) have been met in these areas. Monitoring targets in area 3 were missed; as well the threshold for 50% of PVC (>2000 trees planted) was not met. Hence total PVCs earned this year are 98%.

Annex 1.1: Forest protection and surveillance (Areas 1 and 2)

Having successfully recruited forest scouts, Mikoko Pamoja has also improved the frequency of forest monitoring to three times a year with much involvement of the locals. This is in an effort to increase the annual activities in the project areas with an aim of discouraging illegal harvesting. With apparent drop in the stocking rates, there was no indication of illegal harvesting in the project areas. Most of the stumps encountered during the monitoring exercise were old with no occurrence of recent ones. In general, the forest attributes are significantly higher than the baseline and MPCO has not experienced any serious illegal harvesting in its project area during the reporting period therefore the forest condition can be said to be recovering.

Activity area	Forest attribute	Quantity/ha	Measure last year	Baseline	Remarks
1	AGB (t dw)	200.1	182.5	118.8 (2012)	There is a continuing increase in AGB and drop in stump counts, a decline in juveniles is expected as canopy closes
	Natural regeneration (# juveniles \pm SD)	11960 \pm 6470	15630 \pm 2861		
	Stump count Per ha	970	1090	2720 (2013)	
2	Stocking density	2880 \pm 466	3740 \pm 470.27		There was a dramatic decline in stump counts and further natural thinning *
	Natural regeneration	XX	3043 \pm 1088.24		
	Mean stump density	20 \pm 45	590 \pm 195.76		

*data for activity area 2, the 10 ha plantation, was based on only 5 plots in 2019 because the project co-ordinator post was left unfilled at the crucial collection time. We usually use 10 plots and will do so again next year. This may explain the unusual fall in stump counts.

Annex 1.2: Tree planting (Area 3)

MPCO is committed to plant 4,000 mangrove seedlings per annum for the 20 years contracting period. During the reporting period, 670 seedlings of *Sonneratia alba* were planted (Table Annex1.2). Since the objective of rehabilitation was for coastal protection, all planting was carried at a spacing of 1.0 m by 1.0 m.

Table Annex1.2: Planted seedling in activity area 3

Date	Species planted	Number planted	Survival rate %
23/05/18	<i>Sonneratia alba</i>	670	

Annex 2. Community meeting records

Please find the community meeting records below.

MINUTES OF THE GAZI VILLAGE BARAZA HELD ON 18TH and 19th JULY 2019 AT GAZI VILLAGE.

Attended

A total of 37 and 34 members of Gazi and Makongeni villages respectively attended the prioritization meetings.

Objective/agenda

1. Prioritisation of the village development project to be funded by Mikoko Pamoja for 2019/2020 period
2. Progress of Community Water Project
3. Any other business

Activities narrative

Prioritisation of the Community project for the Carbon funds 2019/2020

In both the meetings, the chairman of Mikoko Pamoja CBO, Mr Ali Shufa, reported on the project's progress to the villages and emphasized on ensuring the security of the activity areas for the community to earn more benefits from the Mikoko Pamoja

Through the village head, the community aired out several project to be funded by Mikoko Pamoja including the following

Gazi

1. Extension of the water project
2. Instalment of solar panel to avoid monthly electric bills
3. Mosque painting
4. Madrasa construction
5. Dori girls to be supported with 10000-litters water tank
6. Back-up Generator for Dori Girls
7. Renovation of the Gazi historic building
8. Support of Gazi Girls youth group with purchasing of chairs and tent for hire
9. Renovation of the two classes at Gazi Primary School
10. Madrasa renovation.

Makongeni

1. Extension of the water project to far end reaching other community members
2. School furniture (desks)

Through proper village engagement and consultation, Gazi village prioritized on village water project extension and purchasing of a 10000 litters water tank for Dori Girls Secondary School while in Makongeni village, the community prioritized on water project extension and purchasing of school desks for Makongeni primary school.

PROGRESS OF THE COMMUNITY WATER PROJECTS

Makongeni

A report read by the chairman of the water project informed that there was positive progress of the water project and as at the time of reporting they had a total of 54,000 Kenya shillings net earnings. They informed the community that they are targeting to collect the revenues for a full year before they invest in the water project.

Gazi

From the report, presented by the chairman of the Gazi water project, it is still unstable and needs more assistance. The initial piping network was done unplanned and in different sizes and therefore needed improvement.

AOB

The village chairs were given the chances of delivering speeches during the barazas and they both reminded the community and emphasized on protection of Mikoko Pamoja project due to the much benefits the project is bring to the village.

The assistant Coordinator informed the attendees that Mikoko Pamoja is looking forward to the election of a new committee and therefore encouraged people to volunteer.

Annex 3.1: Media

1. Coastweek newspaper

ure | coastweek.com/4017-Carbon-offset-project-boosts-conservation-of-Kenya-mangrove-forests.htm



Mikoko Pamoja is a community-led mangrove conservation and restoration project in Gazi Bay, Kenya South Coast. It involves community-based policing of illegal mangrove harvesting, as well as the application of local expertise in mangrove planting. Mangroves provide a wide range of ecosystem services, including coastal protection, nursery habitat for fish and water purification. PHOTOS - MIKOKO PAMOJA PROJECT

Carbon offset project boosts conservation of Kenyan mangroves

by Joy Nabukeya MOMBASA (Xinhua) – A small fishing village in Kenya's coastal region has earned international recognition as a hub for green economy thanks to a community-owned carbon offset project that has enhanced the conservation of

2. Daily nation newspaper

← → 🔍 nation.co.ke/health/Attention-on-marine-conservation/3476990-5019562-11d6bqrz/index.html

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In Kenya, through the Mikoko Pamoja project, scientists from the Kenya Marine and Fisheries Research Institute and coastal communities in Gazi Bay, Mombasa are working to enhance mangrove forest cover. The community has conserved 107 hectares of natural mangrove forest and 10 hectares of plantation mangroves. It is also the first community-based project of this kind in the world to successfully trade mangrove carbon credits.

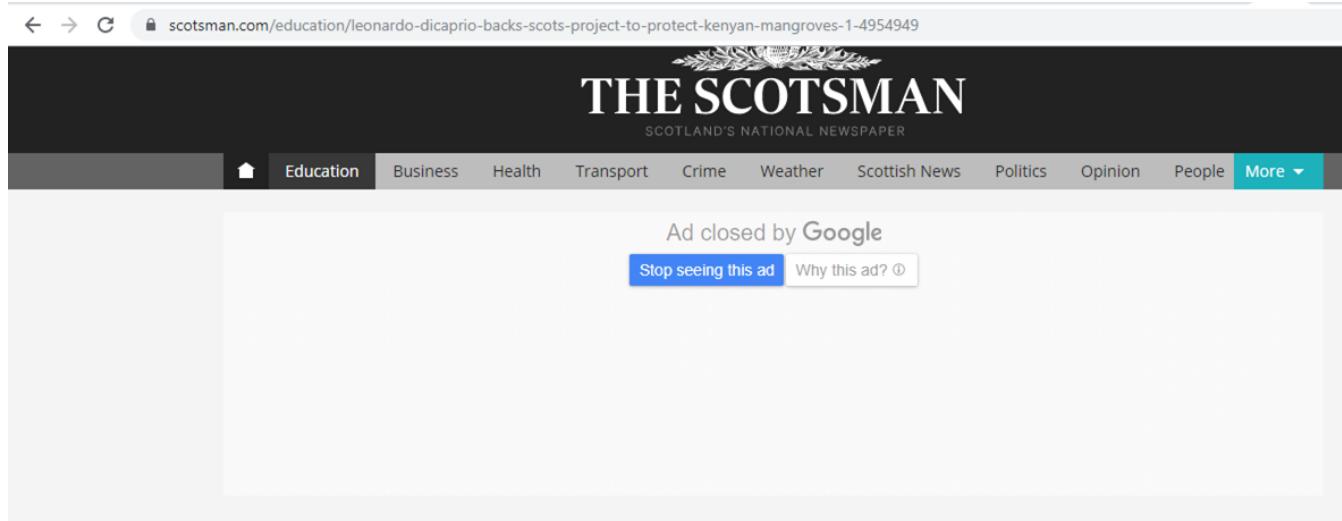
Ecuador, Costa Rica, Sri Lanka, Vietnam, Madagascar, Mozambique and Tanzania are already using Gazi as a model example and are keen to replicate it in their countries.

Mangroves protect shorelines and coastal communities against storms, floods and erosion.

They also provide habitat for fish and other wildlife and their ability to absorb carbon has them classified as “blue carbon” ecosystems that can be used to meet national commitments to reduce greenhouse gas emissions.



3. Scotsman National newspaper



The screenshot shows the homepage of The Scotsman, a Scottish newspaper. At the top, there is a navigation bar with links for Education, Business, Health, Transport, Crime, Weather, Scottish News, Politics, Opinion, People, and More. A prominent banner at the top features the newspaper's name, "THE SCOTSMAN", and the subtitle "SCOTLAND'S NATIONAL NEWSPAPER". Below the banner, there is a message indicating that an ad has been closed by Google, with options to "Stop seeing this ad" or "Why this ad?".

Leonardo DiCaprio backs Scots project to protect Kenyan mangroves

Scottish scientists have launched an ambitious new mangrove forest conservation project in east Africa with backing from Hollywood actor Leonardo DiCaprio.

Edinburgh Napier University's Vanga Blue Forest project, in Kwale County, southern Kenya, aims to protect a mangrove forest of 460 hectares, and three villages which are home to 8,700 people.

Among the funders is the Leonardo DiCaprio Foundation, an organisation set up by the Wolf of Wall Street actor to work with environmental experts, organisations and philanthropists to protect threatened ecosystems.

Mangrove forests support biodiversity, act as a natural sea wall and provide shelter and food to fish and shellfish species. They also store huge amounts of carbon dioxide from the atmosphere, helping to fight climate change.

1 comments



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