



**Association for Coastal
Ecosystem Services**



Mikoko Pamoja Annual Report 2022

To Plan Vivo

Submitted by the Mikoko Pamoja Community Organization
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Acronyms

ACES	Association For Coastal Ecosystem Services
CFA	Community Forest Association
GOGACOFA	Gogoni-Gazi Community Forest Association
HSH	Home Street Home
KCNR	Kwale County Natural Resource Network
KFS	Kenya Forest Services
KMFRI	Kenya Marine and Fisheries Research Institute
MPCO	Mikoko Pamoja Community Organization
NECSA	Kwale Environmental Civil Society Alliance of Kenya
NGO	Non-Governmental Organization
PES	Payments for Ecosystem Services
PFMP	Participatory Forest Management Plan
PVC	Plan Vivo Certificates
WOD	World Ocean Day
VBF	Vanga Blue Forest

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 seagrass.

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	1st January 2022– 31st December 2022
Geographical areas	Gazi Bay mangrove forest
Technical specifications in use	Mikoko Pamoja

	Historical (2014-2021)	Added/Issued this period (2022)	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	1081	0	1081
Area under management (ha) where PES agreements are in place	117.4ha	0	117.4ha
Total PES payments made to participants (USD)	119,324	24,652	143,976
Total sum held in trust for future PES payments (USD)*	5,955		
Allocation to Plan Vivo buffer (tCO ₂)	2,852	369	3,221
Saleable emissions reductions achieved (tCO ₂)	16,009	2,043	18,052
Unsold Stock at time of submission (PVC)**	287		
Total Unsold Stock (PVC)**	0	287	287
Plan Vivo Certificates (PVCs) issued to date			16,009
Plan Vivo Certificates requested for issuance (2022 Vintage)			2,043
Plan Vivo Certificates available for future issuance (REDD only)			0
Total PVCs issued (including this report)			18,052

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

** Allocated to buyers but payment not yet received

Part A: Project Updates

A1: Key events

21st Feb 2022: Committee Handover ceremony

Mikoko Pamoja conducted a committee handover ceremony on 21st February 2022 following election of a new committee in January 2022. The objective of the occasion was to welcome the newly elected committee, recognize the efforts and milestones achieved by the previous body, as well as set future plans for the project. The incoming committee was appraised on Mikoko Pamoja project structure and also introduced to partnering organizations such as Kenya Marine & Fisheries Research Institute (KMFRI), Kenya Forest Service (KFS) and the Department of Social Services who give technical advice to the project.



Figure 1. Committee handover ceremony on the Gazi Mangrove Boardwalk

12th-15th May 2022: Pre- Monitoring Activity

As part of its annual project activities, the Mikoko Pamoja Project conducted its first forest monitoring activity of the year on 10 permanent plots, to determine the amount of carbon stored in 117ha of mangrove forest conserved in the year 2022. To ensure accurate data is collected, the group conducted one day training on 12th May 2022. The training was led by the technical team from KMFRI and the actual activity took place on 14th to 15th May 2022. The activity was attended by KMFRI team, Mikoko Pamoja Committee, locals from the Gazi Bay Community and Community Forest Association (CFA) Scouts.

20th and 22nd May 2022: Community Baraza(meeting)

Gazi and Makongeni held community Barazas (gatherings) on 20th and 22nd May respectively to prioritize community projects. Both villages registered more than 150 individuals who participated to decide which project was beneficial and sustainable to the entire community. Gazi Village prioritised the following:

- (1) Madrasa (school) construction
- (2) Photocopy machine (printer)

While Makongeni prioritised:

- (1) Water tower construction
- (2) Support Hospital security for two months
- (3) Support football team
- (4) Mats for mosque

11th June 2022: Planting of mangroves

Mikoko Pamoja carried out an enrichment mangrove planting activity in the project area by planting 1500 *Avicennia marina* seedlings. Mangrove planting is part of its commitment under the Plan Vivo PDD where Mikoko Pamoja is expected to restore 0.2ha of mangroves in Gazi Bay annually. 39 people including Gazi community members, KMFRI and KFS participated in the activity.



Figure 2. Gazi community planting mangroves alongside KFS rangers

12th June 2022: Visit by Associated Press (AP)

Associated Press, an independent global news organization visited Mikoko Pamoja from Nairobi to see how the project helps the local community of Gazi Bay through the sale of carbon credits. The article from the media house sought to increase Mikoko Pamoja's visibility as well as to increase awareness on the importance of mangrove conservation globally.

28th - 30th June 2022: NECSA ALLIANCE meeting



The National Environmental Civil Society Alliance of Kenya (NECSA), a civil society platform for the membership to articulate and advocate for issues on the environment and natural resource management in Kenya invited the Mikoko Pamoja committee for a meeting from 28th - 30th June 2022. The forum sought to discuss and identify capacity building needs for coastal region members; reach out to more regional partners, to encourage more members to join NECSA - K movement as well as advocate for environmental and natural resource management at the county/ regional level.

Figure 3. NECSA meeting to identify capacity building needs for coastal communities

26th July 2022: Committee Capacity building training

KMFRI carried out an induction meeting for the Mikoko Pamoja committee on 26th July 2022 in Ukunda. The objective of the meeting was to build the capacity of the committee on the structure and management of the community-based organization as well as clearly outline the roles of the Mikoko Pamoja committee, coordinator and the related institutions. This was important to build capacity and understanding of newly elected Committee members. The activity was attended by the MP Committee, village heads, KMFRI, Community Forest Association and Social Service.



Figure 4. Committee capacity building event in Ukunda

17th September 2022: International Coastal clean-up

Mikoko Pamoja participated in the 2022 International Coastal Clean-up activity in Diani Beach with the theme 'To bring cleanliness and purity to nature as a whole'. The activity sought to address waste management policy, promote policy initiatives for a clean and healthy environment, raise awareness on marine debris and develop solutions to fight marine litter.

5th-7th October 2022: AU-IBAR meeting

AU-IBAR (African Union - Interafrican Bureau for Animal Resources) held an expert consultative meeting to "Identify priority issues and actions for enhancing the role of women in aquatic biodiversity and environmental management" from 5th – 7th October 2022 in Naivasha, Kenya. The overall objective of the workshop was to discuss pertinent issues relating to the role of women in aquatic biodiversity and environmental management and validate priority issues and actions for enhancing their roles for effective conservation towards formulating continental strategy. During the meeting, Mikoko Pamoja Social Impacts officer, Anne Wanjiru, gave a presentation on Mikoko Pamoja as a Nature Based Solutions to Minimizing Impacts of Climate Change on Ecosystems and the role Women play in the Initiative. The event was implemented under the 'Conserving Aquatic Biodiversity in African Blue Economy' Project, supported by the Swedish International Development Cooperation Agency (SIDA).

26th October 2022: UNEP AND UN HABITAT Visit

UNEP and UN-HABITAT senior managers visited Gazi Bay to see a working carbon offset project with elements of active community engagement and partnerships with KMFRI, KFS and The Association for Coastal Ecosystem Services (ACES) . UNEP and UN-Habitat in partnership with KMFRI and The Nature Conservancy (TNC) plan to replicate Mikoko Pamoja in Lamu-Tana seascape through the Go Blue project. The visitors also got to visit the Gazi Women Mangrove Boardwalk which has been repaired using poles and planks made from recycled plastics.

27th October 2022: UNDP visit to Mikoko Pamoja



Figure 5. Images from UNDP visit to Mikoko Pamoja

Gazi Women Mangrove Boardwalk, KMFRI and Mikoko Pamoja project hosted the United Nations Development Program (UNDP) Kenya Resident Representative and his deputy on 27th October 2022. Mikoko Pamoja is a recipient of the UNDP Equator Prize 2017 award for being an outstanding example of nature-based local solution to sustainable development. Additionally, Gazi women boardwalk got support from UNDP through GEF- Small Grants Program to carry out initial repair and extension of the mangrove boardwalk.

November 2nd - 6th 2022: Exhibition at the Agricultural Show of Kenya

The Agricultural Show of Kenya (ASK) was held in Mkomani showground, Mombasa, from 2nd - 6th November 2022. The theme of the show was “Promoting Innovation and Technology in Agriculture and Trade”. During the ASK show, Mikoko Pamoja was among the 150 exhibitors that got to showcase its work. The acting project coordinator, Kassim Juma, got to educate the public on the role of mangroves in climate change mitigation, Mikoko Pamoja project activities, achievements as well as the carbon markets.

The Mombasa International Show is the leading agriculture and trade exhibition forum within the Coast Region and its environs empowering and imparting knowledge to the public on wealth creation through agriculture and trade activities.



Figure 6. Mikoko Pamoja exhibition at the Agricultural Show of Kenya

11th November 2022: COP27



Figure 7. Rahma Kivugo presenting at COP27

Rahma Kivugo, the previous Mikoko Pamoja Project Coordinator, spoke of the project's successes and challenges at a session on Carbon Removals at COP27 in Sharm el-Sheikh, Egypt. The session's theme was 'carbon removals in the Global South', and the goal of the event was to highlight diverse, dynamic, and vibrant carbon removals ecosystems emerging in Global South and in marginalized regions, leverage new technologies and approaches to accelerate the transition to clean growth, build infrastructure and create jobs.

21st November 2022: World Fisheries Day celebrations

Mikoko Pamoja was invited to showcase their scope of work during World Fisheries Day and how the project contributes to sustainable Fisheries. This year's theme was on 'Investing in social protection to secure equitable blue transformation in the Fisheries sector'. The objective was to improve management of priority of fisheries and mariculture and livelihood activities in coastal communities. The event was attended by The Cabinet Secretary for Mining, Blue Economy and Maritime Affairs, Governor Kwale County, Kenya Fisheries Service, KMFRI, County Commissioner, Beach Management Units and other political leaders within Kwale County.

22nd November 2022: Meeting with the Kwale County Governor

Mikoko Pamoja and the KMFRI team visited the Kwale County Governor Hon Fatuma Achani in order to appraise her on the work the two organizations were undertaking in Kwale County. Mikoko Pamoja impacts officer, Anne Wanjiru, briefed the governor on the project activities and the contribution it was making to climate change mitigation, biodiversity conservation as well as community development in Kwale County. The governor assured the KMFRI and Mikoko Pamoja teams of future support and collaborations from the County government where needed.



Figure 8. Mikoko Pamoja Impact Officer, Anne Wanjiru, meets the Kwale County Governor

23rd November 2022: Visit by the NORD Royals

H.R.H Crown Prince of Norway, Haakon Magnus and H.R.H Crown Princess of Sweden, Victoria Ingrid Alice Désirée visited Mikoko Pamoja, the world's first blue carbon project as well as the UNDP's supported Gazi Women Mangrove Boardwalk project on 23rd November 2022. Sweden is the leading buyer of Mikoko Pamoja's Blue carbon credits while Norway has supported replication of Mikoko Pamoja to Vanga through the Vanga Blue Forest Project. The Royals were joined by the Kenyan Environment and Forestry, Cabinet Secretary, Hon Soipan Tuya, Kwale County Governor H.E Fatuma Achani, Msambweni member of parliament Hon Feisal Bader and KMFRI CEO among other distinguished visitors.



Figure 9. H.R.H Crown Prince of Norway, Haakon Magnus and H.R.H Crown Princess of Sweden, Victoria Ingrid Alice Désirée, visiting Mikoko Pamoja

28th November - 1st December 2022: Aquatic Resources and Blue Economy Conference

Dr James Kairo, chief scientist of KMFRI and one of the founders of Mikoko Pamoja, gave a keynote speech on carbon trading using a case study of Mikoko Pamoja and its sister project the Vanga Blue Forest Project during the Aquatic Resources and Blue Economy Conference (ARBEC). The conference whose theme was 'Aquatic resources for sustainable future and economic prosperity' took place on 28th

November - 1st December 2022 in Kisumu, Kenya. The conference brought together researchers, innovators, academia, entrepreneurs, and other stakeholders from around the world to share their experiences and lessons learned about how to use aquatic resources wisely for human sustenance, prosperity, and the blue economy connection.

17th & 18th December: AGM and Committee election

Mikoko Pamoja's Annual General Meeting (AGM) was held on the 17th and 18th December. This included the election of a new governing Committee. During the AGM details on the project operations for that year were given, i.e., progress on the project activities, financial report and any other matter as identified by the MPCO committee. The new committee was elected composting of 13 members from the villages of Gazi and Makongeni.

A2: Successes and challenges

Successes

Revenue: Revenue from the sales of carbon credits has benefited the local community (further information in Annex 2), including education.

COP27: Mikoko Pamoja was once again represented at the UN Conference of the Parties (COP), this time in Sharm el-Sheikh, Egypt, at the 27th COP. The project is able to reach a diverse and high-level audience through representation at these events.

Blue carbon challenge award: In 2022 Mikoko Pamoja Carbon Offset Project received an award as a Top Innovator winner of the uplink blue carbon challenge.

Challenges

Mikoko Pamoja received a new Committee, as the Committee must be elected and renewed periodically. This will involve training the new Committee members in understanding of the project and its processes in order for them to govern effectively and in a fully informed manner.

There was also a handover of staff this year, as Rahma Kivugo left the post of Project Coordinator and was succeeded by Kassim Juma.

A3: Project developments

Acquisition of a Project office: Mikoko Pamoja managed to acquire an office in Gazi village from where daily project planning and execution would be carried out from. Previously, the project was being hosted by the Kenya Marine & Fisheries Research Institute which is one of the project partners.

Election of a new project committee: a new committee was elected to office by the Gazi Bay community in January. The 13-member committee from Gazi and Makongeni villages will be responsible for ensuring the annual workplan is implemented in a timely manner with assistance from the Project co-ordinator.

Appointment of a new Project Coordinator: The project recruited a new Assistant Project Coordinator, Kassim Juma, from the Gazi Bay to assist with office administration and community engagement duties. Mikoko Pamoja activities seek to create more job opportunities for the locals, as well as building knowledge and skill capacity in the area. Following Rahma's departure from the Project Coordinator position, Kassim has been acting as Project Coordinator.

Forest scholars project: Mikoko Pamoja and Vanga Blue Forest projects received a grant from Sustainable Ocean Alliance to train 10 youths from the Gazi and Vanga communities in forest monitoring and conservation under the 'forest scholars' project. The trainees are learning how to collect and analyse forest data and are also receiving training on key concepts of climate change, carbon sequestration and conservation that underpin the maintenance of these Blue Carbon ecosystems. These forest scholars have already started to assist the carbon projects in collection and storage of relevant scientific data on the forest.

A4: Future Developments

Energy Saving Jikos: To enhance mangrove conservation, Mikoko Pamoja seeks to implement a project on low carbon cooking stoves. These stoves will serve to reduce exploitation pressure on mangroves, contribute to improved health and also reduce emissions. This will build on from previous research and trials of stoves in Gazi and Vanga. The project hasn't yet been rolled out to more households due to financial and practical constraints. Regarding the practical constraints, the team will look to the same activity in Vanga Blue Forest and how challenges are managed there.

High quality honey production: The national ban on mangrove harvesting imposed in 2018 has led to loss of livelihood for some community members who were previously engaged in cutting and selling mangrove poles for construction purposes. Mikoko Pamoja seeks to engage these mangrove cutters in beekeeping in the mangrove areas. These activities will not only be able to generate income for the group but also contribute to mangrove conservation. For the implementation of this work the team are partnering with Kumbatia Sea Food who are experiencing delays with their fundraising and are figuring out certain solutions related to mangrove honey at the moment with their original pilot communities of Tsunza and Amani Jipange. However, they have kept Mikoko Pamoja on their radar and will plan to reach out to the project team once they have good news to share about a prospective partnership between the organizations.

Waste management: Mangroves are threatened by pollution from plastic waste that is brought in by water during high tide. This is because the plastic can suffocate the mangrove roots and seedlings, weakening and potentially killing the trees. Mikoko Pamoja seeks to start a waste management project for the sake of a clean environment and mangrove forests. The implementation of this has started but details are still being finalised.

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 organization.

Table B1: Project activity summary

Name of technical specification	Area (ha)	No smallholder households	No Community Groups
Natural mixed forest (Activity area 1)	107	1081	1
Indigenous plantation (Activity area 2)	10	1081	1
Degraded beach site (Activity area 3)	0.4	1081	1

B2: Project activities in addition to those generating Plan Vivo Certificates

Publicity and awareness raising

Mikoko Pamoja presented most of its work on various virtual and in-person meetings including the AU-IBar- Gender consultative meeting. The project's efforts continue to gain international recognition in the intervention against climate change as represented in blue carbon panels during COP27.

Avenues used by the project for publicity are social media platforms such as Facebook, Twitter and Mikoko Pamoja and ACES websites. The project was featured on numerous international and local media platforms such as UN News as a successful blue carbon project positively contributing to climate change, biodiversity conservation and improved livelihoods. (Annex 3.1).

The Mikoko Pamoja and Vanga Blue Forest projects were also the subject of [a video](#) produced by Rupert Bedford Media in January 2022.

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: 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 01/2022 – 12/2022

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	2043 ¹	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)	Vintage	Tech spec
Zero Mission	500	NA - TRANSFER	2021	Mikoko Pamoja
The Safari Collection	200	PV-PVC-KE-103000000008881-01012021-31122021-8631250-8631449-MER-O-P	2021	Mikoko Pamoja
Ruth Malleson	17	PV-PVC-KE-103000000008881-01012021-31122021-8631450-8631466-MER-O-P	2021	Mikoko Pamoja
Université Libre de Bruxelles	183	PV-PVC-KE-103000000008881-01012021-31122021-8632273-8632455-MER-O-P	2021	Mikoko Pamoja
Université Libre de Bruxelles	101	PV-PVC-KE-103000000008881-01012021-31122021-8632172-8632272-MER-O-P	2021	Mikoko Pamoja
Yacht Carbon	250	NA - TRANSFER	2021	Mikoko Pamoja
Carbon Chameleon	200	NA - TRANSFER	2021	Mikoko Pamoja
Hannah Lee	5	PV-PVC-KE-103000000008881-01012021-31122021-8631967-8631971-MER-O-P	2021	Mikoko Pamoja
Ocean Bottle	300	PV-PVC-KE-103000000008881-01012021-31122021-8632456-8632755-MER-O-P	2021	Mikoko Pamoja

The remaining 287 credits have been allocated to buyers, but payments are pending for these and so these sales will be reported on in the 2023 annual report.

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
SALES OCTOBER 2013 - October 2014 (note change in reporting year)						
2014	Earthwatch	1000				68.3**
2014	Paolo Merlini	10				68.3**
TOTAL/AVERAGE (2013-14)		1,010				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**
TOTAL/AVERAGE (2014-15)		814				68.3*
SALES 2016						
2014	Iain and Julia	10				68.3**
2014	Farid Tropimundo	189				68.3**
2015		660				68.3**

	Edinburgh Napier University					
2014	Steve Crooks	30				68.3**
2015	ZeroMission	700				68.3**
2015	SCB Marine Section	1,200				68.3**
TOTAL/AVERAGE (2016)		2,789				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**
TOTAL/AVERAGE (2017)		1,733				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**
TOTAL/AVERAGE (2018)		1,622				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/AVERAGE (2019)		1,912				94.30
SALES 2020						
2019	C-Level	200				89.84
2019	Université Libre de Bruxelles	226				89.84
2019	Vrije Universiteit Brussel	32				89.84
2019	Vrije Universiteit Brussel	29				89.84
2019	Echo Shoppe	15				89.84
2019	Alison Baker	9				89.84
2019	Zero Mission	500				89.84
2019	Ocean Bottle	432				89.84
2019	SuperFlex	140				89.84
2019	Charlie's Travels	238				89.84
2019	MOYU	20				89.84
2019	Charles and Kate Hussey	30				89.84
2019	Common Seas	26				89.84
TOTAL/AVERAGE (2020)		1,897				89.84
SALES 2021						
2019	Carbon Chameleon	100				81.8
2020	Zero Mission	500				81.8
2020	Zero Mission	109				81.8
2020	Common Seas	7				81.8
2020	Yacht Carbon	300				81.8
2020	Yacht Carbon	985				81.8
2020	Madeiline Pott	8				81.8
2020	The Association of Surfing professionals, LLC d/b/a World Surf League	100				81.8
2020	Ocean Bottle	31				81.8
2020	Mark Boyd	3				81.8
TOTAL/AVERAGE (2021)		2,143				81.8
SALES 2022						
2021	Zero Mission	500				96.8

2021	The Safari Collection	200				96.8
2021	Ruth Malleson	17				96.8
2021	Université Libre de Bruxelles	183				96.8
2021	Université Libre de Bruxelles	101				96.8
2021	Yacht Carbon	250				96.8
2021	Carbon Chameleon	200				96.8
2021	Hannah Lee	5				96.8
2021	Ocean Bottle	300				96.8
TOTAL/AVERAGE (2022)		1,756				96.8
TOTAL/AVERAGE (ALL)		15,676				90.69

*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
2021	287*	0

* These credits have been allocated/sold to buyers but payments are pending at the end of the reporting period. These sales will be reported on in 2023.

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

All participants maintained commitments this year.

E3: Socio-economic monitoring

We undertook a major review of participation and benefit sharing in the project during October 2021, as part of a broader research project (conducted by Dr Anne Kairu). The work is being analysed and will be finished and published in 2022; it will inform project decisions on fairness in benefit sharing. A summary of the themes that emerged in community interviews research is presented below:

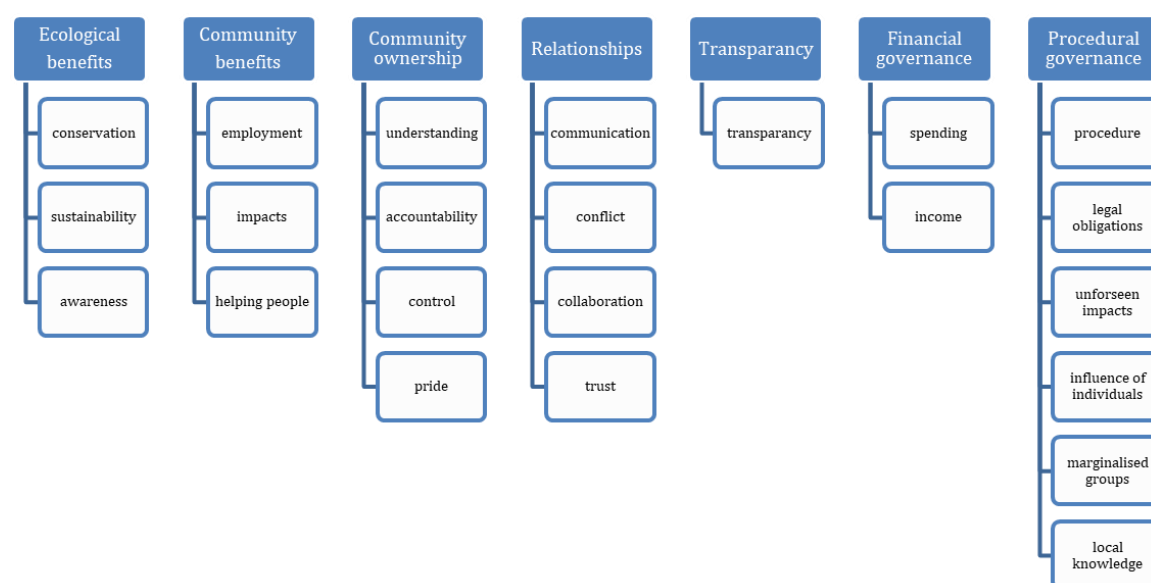


Figure 10. Emergent themes from social justice research conducted in Gazi and Makongeni

E4: Environmental and biodiversity monitoring

See Annex 1 for core monitoring results; additional faunal monitoring was not possible this year because of Covid restrictions on travel by students and researchers.

Part F: Impacts

F1: Evidence of outcomes

With adequate funds from sale of PVCs, prioritization was given to projects in water, education, health and youth empowerment.

Gazi Village



Figure 11. Constructed madrassa and purchased printer and desktop machine for Gazi community development projects.

Makongeni Village



Figure 12. Renovated classrooms (roofing) done in Makongeni Pry School in 2022. The prioritised projects were construction of water tower, health and sports

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. Value retained by ACES* (USD)	6. Total payments held in trust (USD)
10/13 – 10/14	6081	11,984		0
10/14 – 12/15	9,834	12,510		475**
1/16 – 12/16	29,574	14,833		13,787**
1/17 – 12/17	22,229	13,401		19,544**
1/18 – 12/18	18,216	5,963		32,779**
1/19 – 12/19	23,255	17,562	7,759***	7063**
1/20– 12/20	22,999	20,662	3,937***	6,675.37**
1/21 – 12/21	27,401	22,409	6435.58***	4,064.05**
1/22 – 12/22	25,472	24,652	2000	5,955**
TOTAL	185,061	143,976	20131.58	

* Includes operating costs for ACES, Plan Vivo assurance fees and funds ring fenced for verification. Column added in 2020 AR, hence no data pre-2020.

**The % sale price received by participants (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.

***Numbers do not exactly add up due to fluctuations in exchange rates between USD and GBP and year to year carryover.

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

Part H: Ongoing participation

H1: Recruitment

Mikoko Pamoja will recruit a project coordinator in the near future following the departure of the previous coordinator who left the position in May 2022.

H2: Project Potential

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

Expansion of MP operational area: Having deliberately started with a relatively small area of forest, to demonstrate the feasibility of carbon offset facility with mangroves, the Gazi Bay community now wishes to expand our mangrove operations in Gazi. The growing demand of carbon credits, combined with unique expertise in marketing and sales, means there is an excellent opportunity here to increase our income and thus our conservation and development impacts. We, therefore, intend to manage an additional 200ha of mangrove forest in Gazi Bay. A request has been submitted to Kenya Forest Service (KFS) to allow us to do so.

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 after 3 years. 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 in January 2022. The newly elected Committee comprises six members from Makongeni and 7 seven from Gazi. In terms of gender, 5 members are women while 8 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 project activities including monitoring, planting and nursery establishment. 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. An Annual General Meeting was held in each village in December 2022 to update the community of the projects and activities that were carried by Mikoko Pamoja during the year.



Figure 13. Community attending a community meeting (Baraza) to elect Mikoko Pamoja Committee members.

The table below provides details on community engagement in different project activities

Activity	Men	Women	Total
1. Community Baraza	77	98	175
2. Environmental and biodiversity monitoring	14	7	21
3. Establishment of community woodlot	25	55	80
4. Capacity Building	14	7	21
5. Mangrove planting	15	20	35
6. Elections on committee members			116
7. Training on monitoring	9	3	12
8. Forest scholars training	7	3	10
9. Forest surveillance	2	0	2
10. AGM	16	13	29

Mikoko Pamoja held several meetings during the 2022 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 preparation for key events (Annex 2).

Part I: Project operating costs

I1: Allocation of costs

All expenditure this year was met from PVC sales.

USD 5,423.90 funded community projects, with the rest (19,228.1) facilitating salary payments and related project activities as detailed below:

Project income (USD)	Average exchange rate	Expenditure	USD	KSH
25,472	123.12	Community project funds	5423.9	667,679.76
		Salary payments	8,780.00	1,080,000
		Office expenses	934.00	114,962
		Forest monitoring	1,452.00	178,570
		Woodlot establishment	3,635.00	450,831
		Restoration activities	1,626.00	200,000
		Meetings	1,394.00	173,500
		Workshops	1,407.00	175,500

Annexes

Annex 1. Monitoring results for issuance request

Mikoko Pamoja operates on three main project areas. Area 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 %.

Annex1. 1: Forest protection and surveillance (Areas 1 and 2)

Having successfully recruited forest scouts and forest scholars, Mikoko Pamoja is doing monitoring twice a year with much involvement of the local community from two villages I.e Gazi and Makongeni village. This is an effort to increase annual activities in the project areas. Most of the stumps encountered during monitoring exercise were old with no occurrence of the 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)	207.8	234.9	118.8 (2012)	There is a continuing drop in stump count, which is following the predicted exponential decline. Whilst there is a small drop in AGB this year compared to last, this probably reflects sampling error last year since that record was particularly high.
	Natural regeneration (# juveniles \pm SD)	9950 \pm 4805	10250 \pm 7296		
	Stump count Per ha	435	620	2720 (2013)	
2	Stocking density	2630 \pm 477	2720 \pm 414		No increase in stumps (only a single old one recorded this year). Slight decline in stocking density because of standing dead (natural thinning).
	Natural regeneration	7040 \pm 1436	2660 \pm 934		
	Mean stump density	100 \pm 45	140 \pm 313		

*data for activity area 2, the 10 ha plantation, was based on the 5plots. these are randomly chosen each year to show higher levels of variation than permanent plots in area 1.

Annex 1.2: Tree planting (Area 3)

MPCO is committed to plant 2,000 mangrove seedlings per annum for the 20 years contracting period. During the reporting period, 1500 seedlings of *Avicennia marina* were planted (Table Annex 1.2). Since the objective of rehabilitation was for coastal protection, all planting was carried at a spacing of 1m by 1m.

Climate change is impacting the survival rates of mangrove seedlings in Kenya; this is particularly impacted by the drought that is affecting East Africa. The rainy seasons have been inadequate to facilitate high survival rates of seedlings, and increased sunshine hours during what is normally the rainy season is also contributing to stress on mangrove seedlings. These challenges have been compounded by grazing pressure from livestock (primarily goats). For these reasons, efforts have been focussed on avoided degradation rather than reforestation as it provides a more reliable carbon benefit as well as other ecosystem services; this is why the planting target was not fully met this year.

KMFRI staff have been trialling alternative planting methods to explore how survival rates of seedlings can be improved, these involve protection of seedlings and planting in alternative areas. It is hoped that the findings of these can be applied to future planting efforts; however a sixth failed rainy season is predicted in March-May 2023 and so this is likely to bring continued challenges.

Table Annex 1.2: Planted seedlings in activity area 1.

Date	Species planted	Number planted	Survival rate %
11/6/2022	Avicennia Marina	1500	54

Annex 2. Community meeting records

The community meeting records are shown below.

Number	Date	Participants	No of participants	Purpose
1	18-04-22	Committee	15	Carbon funds monitoring
2	22-04-22	Committee KMFRI Social Impacts Officer	20	Capacity building
3	25-04-22	Committee KMFRI Social Impacts Officer	18	Planting planning
4	20-05-22	Community baraza Gazi	113	Discussing the community projects for Gazi
5	25-04-22	Community Meeting- Makongeni	88	Discussing the community projects for Makongeni
6	20-05-22	Committee	14	Income generating activities
7	22-05-22	Committee KMFRI	19	Constitutional review, community projects
8	2/6/2022	Committee Madrassa Gazi Committee	10	Community projects Gazi
9	20/9/2022	Executive Committee	4	Community projects

Community meetings in Gazi and Makongeni were held during the reporting period in order to prioritise potential community projects for funding through carbon funds. Involving the community in the decision-making process has allowed for transparency and accountability, ensuring sustainability and stewardship of the project.

Annex 3: Media

<https://www.the-star.co.ke/counties/coast/2022-03-29-kwale-group-mints-sh3m-annually-from-mangrove-carbon-credits/> The star Magazine- March 29th 2022

<https://www.latimes.com/world-nation/story/2022-05-06/african-nations-plant-mangroves-to-combat-climate-woes> Los Angeles Times May 6th 2022

<https://news.un.org/en/story/2022/06/1119922> UN NEWS 7th June 2022

<https://www.news9live.com/lifestyle/in-kenya-mangrove-restoration-project-completes-10-years-improving-community-wages-resources-for-locals-179474?infinitemscroll=1> The Associated Press June 20th 2022

<https://apnews.com/article/science-health-plants-kenya-mangroves-cc082c4f88472afd987d289b0664a62c> AP News June 28th 2022

<https://borneobulletin.com.bn/green-growth-mangrove-restoration-reaping-rewards-in-kenya/> Borneo Bulletin 29th June 2022

<https://news.un.org/en/story/2022/06/1121792> UN NEWS June 30th 2022

<https://www.the-star.co.ke/news/2022-07-26-kenya-surpasses-10percent-tree-cover-as-world-marks-conservation-day-day-for-the-conservation-of-the-mangrove-ecosystem/> The Star magazine July 26th 2022

<https://www.standardmedia.co.ke/article/2001451637/mangroves-conservation-project-changing-locals-fortune> The Standard July 29th 2022

<https://apnews.com/article/africa-forests-united-nations-kenya-climate-and-environment-383d3a3197b730cd37946ea1dda1d3d7> AP News September 10th 2022

<https://www.sciencenews.org/article/kenya-mangrove-trees-forest-carbon-storage-climate> Science News September 14th, 2022

<https://impact.economist.com/sustainability/ecosystems-resources/world-water-week-2022-five-key-takeaways> The Economist Impact September 14th 2022

<https://www.the-star.co.ke/news/2022-11-08-cop27-communities-fighting-climate-change-should-benefit-from-carbon-credits-ruto/> The Kenyan President during COP27

<https://vimeo.com/703634451> - Rupert Bedford Media

Annex 4: Receipts

CASH SALE

SORHART ELECTRICAL AND PLUMBING
Supply of Electrical and Plumbing Materials and General hardware
Located at: Ibiza - Ukunda.
Tel: 0721 312 015 / 0732 433 118 / 0723 435 490 / 0752 216 889

No. **980** PIN No: A002811387X Date: **10/5/2022**

M/s. _____

QTY	PARTICULARS	@	SHS.	CTS.
30	80meter rope		2400	
			2400	
TOTAL			2400	

E.&O.E. **2400**

Goods once sold are not re-accepted back

CASH SALE

No. _____ Date: **10/5/22**

M/s **MIKOKO PAMOTA**

QTY	PARTICULARS	@	SHS	CTS
	4pgs		520	00
	T.P		200	00
	NATURAL		120	00
	Rubber		90	00
			930	
TOTAL			930	

E.&O.E. **930**

Goods once sold will not be re-accepted

CASH SALE

No. **2829** Date: **11/5/22**

M/s **MIKOKO PAMOTA**

QTY	PATRICULARS	@	SHS
2	tape Measure - 60		60
TOTAL			60

E.&O.E. **60**

Goods once sold are not re-acceptable

CASH SALE

Tel No. _____ P. O. Box _____ Date: **14/5/2022**

M **MIKOKO PAMOTA**

Bot. of	Shs.	Cts.
Water 2 cartons	360	
		720

E.&O.E. **720**

Goods once sold are not Returnable. Thank you

CASH SALE P.O. Box _____

Tel No: _____ Date: **12/05/2022**

M/s _____ Bot. of: **Water**

	Shs.	Cts.
2 ctns water	800	00
		800 00

Goods once sold will not be re-accepted

Received from **MIKOKO PAMOTA**

the sum of shillings **1000/-**

Being payment of **MIKOKO PAMOTA meeting**

Shs. **1000/-**

CASH/CHEQUE

For **MIKOKO PAMOTA**

NAME **MIKOKO PAMOTA** No. **69** Date **14/5/2022**

Tel No 50820 CASH SALE P. O. Box
 M/s Mikoko Pamoja Date 2/7/2022
 Bot. of: building Materials Paid

	Shs.	Cts.
Roofing nails 6kg	2100	-
wooden nails		
2" 2kg	440	-
4" 6kg	1320	-
Mabati 30 pcs	42000	-
mabati 2 pcs	2800	
kofia 8 pcs	2160	

CHALE COMMUNITY COMMITTEE
GHAE DISPENSARY,
P.O.BOX 178-80404, MSAMBWENI
13/06/2022

TO:

MIKOKO PAMOJA COMMUNITY BASED ORGANISATION

P.O.BOX 178-80404,

MSAMBWENI

DEAR SIR/MADAM

RE:FINANCIAL SUPPORT TOWARDS SUSTAINANCE OF CHALE DISPENSARY WORKERS/ACTIVITIES

On behalf of the chale community committee, I am Mohammed Rajab, Health Facility Incharge at chale dispensary which is a newly opened facility by the county government of kwale.

I acknowledge the financial support of ksh 40,000 that was requested by the community, committee towards helping to support the facility in sensitive docket as it awaits financial support by the county government. This affairs are payment of security persons protecting the facility, with ksh 30,000 and environmental sanitation around the facility, at a cost of ksh 10,000.

I have witnessed the total amount of offered as support and I appreciate the efforts made by Mikoko Pamoja Community based organization.

Yours sincerely,

Mohammed Rajab, KRCH Incharge



Chairman, chale committee

0726841640

Zainab Hamisi Mwarindano

0702870418

Secretary