















Report of:

SOCIOECONOMIC BASELINE ASSESSMENT OF **BUILDING A BLUE FUTURE FOR ECOSYSTEMS** AND PEOPLE ON THE EAST AFRICAN COAST **PROJECT**

Final

Conducted by:



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List of acronyms

Aid for the Development of People for People **ADPP**

AMA Associação do Meio Ambiente

CCP Conselho Comunitário de Pesca (Community Fishing Councils)















FGD Focus Group Discussion

GAM Gender Analysis Matrix

GBV Gender Based Violence

ΚII Key Interview informants

MPA Marine Protected Area

Non-governmental organizations **NGOs**

UEM Universidade Eduardo Mondlane

WCS Wildlife Conservation Society















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I. Executive Summary

(i) Objectives and Methods

The purpose of the socio-economic baseline study was to measure socioeconomic impact and outcome level indicators of the program's Logical framework and other qualitative relevant information to inform the status of the communities subject to the program's intervention. The socio-economic baseline survey followed a quasi-experimental design for measurement of socioeconomic indicators in the zone of influence, in districts of Memba, Mossuril and Nacala-Velha and in a reference site associated to communities of Nacala-Velha outside the intervention area. Data was collected using combined methods, desk review, household surveys (1,599 respondents), key informant interviews (28) and focus group discussions (309 respondents, 151 male, 158 female). Ethical principles were observed, including prior consent, full explanation, free participation, privacy, anonymity.

(ii) Main Findings

<u>Perception about Natural Resources Governance Bodies</u>: Asked about which decision-making bodies on access, use and management of coastal and marine resources exist in the community, about 57.1% said CCP, 12.9% said Capitania, 4.7% mentioned combination of two of more among CCP, Capitania, Marine Policy, IDEPA, Community Leaders, SDAE. About 16% said there is none. About 41.1% respondents said they don't have information about legislation and policies regulating natural and fisheries or marine resources.

Indicator G2: More People in The Project Intervention Areas Benefit from Improved Ecosystem Services Supporting Adaptation to Climate Change: Results reveal that most interventions are isolated and of short durations. Few respondents, 11.3% among intervention sites and 16.7% for reference, reported a package of interventions comprising protection of seagrasses, mangroves and coral reefs. More specifically:

- ✓ Only 19.7% claim that their community has benefitted from a seagrass protection project/program and the responses are consistent among intervention and control area;
- ✓ About 21.6% of respondents stated that their communities have benefitted from protection of coral reefs project, 18.8% in reference sites and 22.5% in intervention sites;
- ✓ Almost half (49.8%) respondents declared that their community has benefitted from an intervention in mangrove conservation.

<u>Livelihood conditions of affected households in project intervention areas:</u> Respondents estimated their current monthly incomes, averaging 4,349.1Mt and a median of 3,200.0Mt. The main livelihood mentioned by respondents are: farming (93.8% in intervention and 96.2% in control area); fishing (83.3% in intervention and 77.4% in control area); collection of marine resources (55.0% in intervention and 63.8% in control area); fish seller/trader/processor (57.0% in intervention and 54.5% in control area);











Benefits from Interventions of Livelihoods: More than half (71.7%) respondents either were not aware or not sure about any projects in their community focused on improving livelihoods in the last years. Only 28.3% over all respondents declared that there are such project in their communities. Only 14.9% stated that there were projects implemented which have contributed to an increased income or availability of food, with higher frequency in 24.7% in Memba.

Access to loans: Only 36 (6.8%) respondents affirmed that their household has access to loans. The few (36) respondents who claimed to have had loans got it mainly from neighbors, friends or relatives.

Indicator G4: at the end of the project, substantially more households affected in project intervention areas have a positive attitude towards marine biodiversity, restoration and protection of mangroves, seagrass and coral reefs

Respondents were asked about their attitude towards the establishment of sanctuaries and restricted areas for fishing. Counting respondents who consistently provided positive attitudes towards each of the following conservation measures: (i) establishment of sanctuaries and restricted areas for fishing; (ii) seasonal close of certain fishing areas; (iii) restricting people from walking in certain areas; (iv) habitat restauration measures; (v) restrictions in catches and collection of certain species; (vi) restrictions from catching some size of fishes; (vii) limit in number of people authorized for fishing per fishing zone; overall, 46.45 provided positive response to all conservation measures (45.8% for intervention and 48.5% in the reference site). Presumably some respondents might have provided response in favor of conservation measurements, knowing what the project objectives are, even not necessarily supporting due to potential restrictions in use of resources it might imply, because they expect benefits. They will be checking if their expectations are met or not. It is also possible that they were not fully aware of potential restrictions.

Indicator O1.2: villages are more resilient to climate change: FGD participants regarded the months of January, February and March as ones in which they experience challenges in having enough food. Respondents mentioned following effects of climate changes causing decline of their livelihoods condition: Increased frequency and intensity of cyclones/strong winds (66.9%), Decrease or disappearance of fish species (54.5%), Degradation of fish habitat (53.2%) and about a quarter said Fish migration (28.6%), Soil erosion and impoverishment due (24.2%), Increased pests and diseases in plants and animals (24.2%). Only 25% of respondents have ever have access to training in coastal marine resource management and adaptation to climate change, with 17% among women.

Indicator 2.3.3b: # males and females benefiting from improved water security: Slightly more than half respondents (57.7%) affirmed that their communities have access to water for drinking, domestic use and for farming, with lowest percentage in intervention communities of Nacala-a-Velha (39.0%).













<u>Basic Necessities Survey (BNS):</u> The overall BNS was 34%, which is equivalent to the average percentage of people who own the listed basic necessities. Households headed by women and by youth had a lower rate compared to ones headed by male and adults, respectively.

Land Tenure and Conflicts: More than half (52.5%) are insecure about community land tenure, because they allegedly have lost portions of their community land or they fear future threats that may result in loosing lands (table 35). Asked about the source of threats they perceive which lead to loss of community land, they mentioned: government decisions, investors, community leaders. About more than half (65.0%) stated that they are worried to some extent on the land tenure of their families. In fact, about 27.8% of respondents stated that they have experienced land conflicts and out of 155 conflicts reported, 39 had not been resolved until the date of the survey.

Asked how they characterize women's current level of influence in community land decision-making over community land issues, about 40.8% said women have no influence, other 43.5% stated that women had some, but limited influence compared to man.

About 38.3% said women have no influence in decision-making on family land, 47.7% said women have less influence compared to men. About 49.3% of female respondents stated that women have no influence and 34.9% said women has limited influence compared to men.

<u>Vulnerability Matrix</u>: The feedback shows that the most important hazards are floods, droughts, strong winds/cyclones, erosion, sea level changes, salinization of boreholes water.

Historical Timeline of Climate Hazards Events: Participants of FGD of Memba, Mossuril and Nacala-Velha, were asked to recall historical events in the past decades, and record climate hazards per year. The analysis of historical occurrences of extreme weather events in the three districts covered by the study shows that these communities have been affected by frequent heavy rains and strong winds/cyclones are followed by drought/irregular rains.

Resource & Hazard Mapping: These climatic events have a great impact on the main economic activities, such as fishing, farming, marine and forest resources use, as well as on the availability of water for consumption.

<u>Seasonal Calendar</u>: Participants in the FGD sessions reported a series of changes they have observed over the last few decades, most of which were related to climate change. These included: delayed and shorter rainy season from November-February to January-February and reduced amount of rainwater; longer period of higher temperatures, throughout the year. The hot season lasts longer without rain. Lately, the tides invade the shores, taking with them some fish placed to dry along the beaches.

<u>Perceived Trends in Catches and Current Management of Fisheries</u>: Fishermen have observed a decrease in the abundance of fishing resources in the sea, namely: shrimp, horse mackerel, billfish, sardines, swordfish, stone fish and grouper are disappearing. For example: the total catch of artisanal fishing vessels in Lunga was 20tons/day. In recent years it has reduced to 100kg/day (CCP)













Lunga). Average yields are around 30Kg/fisherman/day for artisanal fishing using trawl, gillnet and seine gear (CCP Namapiri).

Feedback from FGD and Key informants in the districts of Memba, Mossuril and Nacala-a-Velha reveals that, in general, there are no plans for establishing/managing conservation areas for mangroves, seagrasses and corals (eg. Mossuril – Lunga, Namapiri). There have been few community initiatives led by CCPs and support from OIKOS, whereby they voluntarily create marine protection zones, such as: In Lunga (Terene and Namuco), Namapiri (Nikula, Nkiva/Giva and Eponta).

<u>Challenges Experienced by CCPs:</u> Limited equipment to carry out enforcement, including chasing offenders with more powerful vessels, CCPs not officially registered, lack of monthly remuneration/incentives, lack of transport to go to the most distant fishing areas and carry out inspections; perceived bribes practices.

(iii) Recommendations

Attitude towards marine biodiversity, restoration and protection of mangroves, seagrass and coral reefs:

- Raise awareness among bodies responsible for designing laws and/or developing marine and coastal resource management plans and the community in general for greater involvement of women in designing laws and/or developing marine and coastal resource management plans;
- Training or giving lectures on legislation and regulatory policies and management of marine and coastal resources;
- Create a partnership with community radios to create a program with the aim of disseminating legislation and regulatory policies and management of marine and coastal resources.

Fishery Management

- Support/train CCPs in designing a fisheries and coastal resources management plan;
- Support the CCPs with means of transport and boats to carry out inspections;
- Raise awareness among CCPs to discourage the practice of bribes to facilitate illegal fishing;
- Support law enforcement by providing patrol boats to cover the entire areas of the district:
- Construction of infrastructure for CCP headquarters, supply of identification material such as vests;
- Create a market for selling fish, create connections with good buyers; For example, create fairs selling fish or seafood; Help organize the market, to stipulate price lists for all fishermen.

Livelihood conditions:

• Financing of alternative livelihood activities, for example cake business, production and sale of juice.













- Make partnerships with financial institutions to facilitate access to credit for project beneficiaries;
- Train project beneficiaries in developing business plans and managing finances;
- Support creation of saving groups;
- Finance businesses specifically for women such as selling cookies, meals, encourage women to sell their products at fairs;
- Support women business in commercialization of fish, provide means of fish conservation, such as cold systems, production of ice for sale, coolers for transporting and handling fish during sale;
- Other business suggested sale of clothing, stalls selling food and nonfood items (biscuits, soap, oil, fuel)
- Implement agriculture projects (market oriented and climate smart approach), which will increase access to inputs, tools and technical assistance;
- Advocate or assist local community members to access jobs; Prioritize local community members in jobs that will emerge in the conservation area;
- Create conditions to have electricity (solar panel) for everyone in the community;
- Support initiatives to establish farmers association.

Resilience to climate change:

- Raise awareness among beneficiaries to intensify the combination of fishing with the
 production of different crops and other sources of income to guarantee food security
 throughout the year;
- Train project beneficiaries in measures to prevent, adapt and reduce the effects of climate change;
- Create a link between project beneficiaries and sellers of fishing tools and agricultural inputs
- Improved water security
- Support the government in expanding drinking water sources and creating community water management committees.















Land Tenure

- Train the community in the prevention and management of land conflicts;
- Create a partnership with the government to facilitate the assignment of DUATs to the community;
- Hold lectures to publicize land conflict resolution bodies;
- Raise awareness among communities about the importance of women having access to land and other natural resources.















2. Introduction and Background

The shorelines of Mozambique contain some of the most biodiverse marine systems in the world—mangroves, seagrasses, and coral reefs—that support the livelihoods of millions of people and are increasingly in need of protection and sustainable management in response to impacts from human activity and climate change. The Blue Future Project aims to support the Mozambican Oceanographic Institute (InOM) to develop and submit to the Mozambican Government a proposal and create a new, sustainable-use MPA in the coastal area of the Districts of Memba and Mossuril —covering an area of at least 1,000 km2 and potentially much larger—that includes a network of well-operated community-managed fishing areas.

The project will also focus in enhancing priority ecosystem services through ecosystem-based adaptations that reduce vulnerability and increase resilience of local communities to climate change impacts, aid coastal protection and support resource-based livelihoods, especially fisheries, contributing to national climate and conservation targets. Specific project outcomes include: (1) improved resilience of climate relevant ecosystems through increased protection and management; and (2) improved resilience and enhanced livelihoods of the most vulnerable communities.

3. Objectives

The purpose of the socio-economic baseline study was to measure socioeconomic impact and outcome level indicators of the program's logical framework and other qualitative relevant information to inform the current status of the communities subject to the program's interventions, and assess, in last year of the project, which impacts these interventions had on the local communities.















4. Baseline Design and Methods

The socio-economic baseline survey followed a quasi-experimental design, which involved measurement of socioeconomic indicators in the zone of influence. The fieldwork was carried out between April 19 and May 5, 2023 being 19 to 27 of April in the district of Mossuril, 27th to 30th in the district of Memba and 2nd to 5th of May in the district of Nacala-a-Velha. A total of 16 days of research was carried out in the study area by 7 male and 7 female respondents.

The fieldwork methods used were: household surveys, focus group discussion and questionnaire to key informants. These methods are described in the subsections below and each is designed to inform the indicators that were included in the project logframe.

4.1 Household Survey

The survey questionnaire (attachment I) included close-ended questions that are quantitative in nature. It was split in two queries to measure (i) socioeconomic indicators and (ii) BNS, (iii) land tenure, and (iv) climate change. All queries had common general socio-demographic questions, including livelihood activities. Close-ended questions helped measure tangible variables, while a few open-ended questions helped to gather explanatory information behind specific occurrences. The survey was performed on Android tablets, using an application known as KOBO TOOLBOX.

The sampling for household's survey followed three main stages:

- I) Total sample size determination: The survey was split into three queries, namely Indicators Query, Gender query and BNS &Land Tenure. Sample size was calculated for each query, considering 95% of confidence and error margin of 5%, and then the total sample was a combination of samples of each query. The minimal sample size for each query was 383, thus a total of 1,149 samples was conducted. In addition, a comparison group was assigned with equal sample size of each of the questions mentioned above, thus 383 samples. In total, the planned sample, combining intervention area and comparison one, was comprised of 1,502 samples.
- II) Sampling of village per district: First, the number of communities to be interviewed was proportional to the total number of communities within intervention area per district. Thus, 21 communities were randomly selected out of 61 communities within the intervention area and five communities were selected for comparison. A sample was allocated proportionally to number of communities per district (table 1).













III) Selection of communities and allocation of sampling size: the number of communities calculated per district, as explained above, was selected randomly based on a systematic random sampling, by selecting names of communities from a list, based on fixed interval, starting from a random number, between one and sampling interval. Then, the sample size was allocated to each community, totalizing the sample size allocated per district.

Table 1: Number of communities per district

Districts	List of sampled communities	Sample Size Allocated
Memba	Baixo Pinda, Fungo, Mauco, Mitembe, Mutare, Namata, Napila	417
Mossuril	Anduce, Cabaceira Grande, Cabaceira Pequena, Chikoma, Holoca, Krussi, Lapuela, Muanangone, Munhohola, Rathane, São João	659
Nacala-a-Velha	Mujo, Mussenqua, Pangane	125
	Total Sample for Intervention Area	1201
Sample for Intervention Area (Nacala-a-Velha)	Nampazo, Cachiche, Massigirine, Nachiropa, Naculue, Naphela	398
	Overall Total Combined Sample Size	1599

Selection of survey respondents IV)

Respondents were recruited in each of the sampled villages, for the two domains, intervention vs comparison areas, based on inclusion criteria, as shown in table 2 below.

Table 2: Criteria for the selection of respondents

Domains	Inclusion Criteria				
Zone of Intervention	 ✓ Be resident in communities within project implementation of Memba, Mossuril and Nacala-a-Velha at least during last 12 months; ✓ Be user of coastal and marine resources. 				
Comparison zone	 ✓ Be resident of Nacala-a-Velha district, in communities out of intervention at least during last 12 months; ✓ Be user of coastal and marine resources 				

Efforts were made to identify female and male respondents, in both communities within areas of intervention and those for comparison.















4.2 Focus Group Discussions

A combination of participatory tools was adapted to conduct Focus Group Discussions (FGD) namely: resource & hazard mapping, seasonal calendar, historical climate hazard timeline, vulnerability matrix and Harvard gender analysis framework (table 3).

Table 3: Topics Discussed in FGD

I) Likelihood activities	Participants discussed about their livelihood, including alternatives to fishing				
2) Resource & hazard mapping	Participants created a map of local habitats and livelihood resources as a basis for discussion about climate hazards affecting each.				
3) Seasonal calendar	Participants created a seasonal calendar of farming, fishing and other activities as a basis for discussion about how they are affected by extreme dry season or wet season weather events, and perceptions of change around seasonal climate.				
4) Historical timeline	Participants (elders) created a timeline of major national and local events as a basis for discussing historic climate events (e.g. cyclones, droughts), how they affected the community and how people coped or adapted.				
5) Vulnerability matrix	Participants inserted (i) main livelihood activities and (ii) the greates				
6) Harvard gender analysis framework Participants answered questions about: ✓ men and women roles, ✓ occupation in 24 hours, ✓ seasonal calendar, and how they are affected by climate claim and natural hazards.					

A total of 309 people (151 male, 158 female) participated in 27 sessions of focus group discussion in the districts of Mossuril, Memba and Nacala-a-Velha. The FGD was facilitated by four team members, in two groups of two males that worked with male groups and one of two females that worked with female groups.

















Figure 1: Photos of focus group discussion sessions

Numbers of FGD held per district, community, sex and the matic area are shown in table 4.

Table 4: FGD Participants

		Participants Per Topic				
District	Sex	Vulnerability and capacity analysis	Gender roles in access, use and managemnt of resources, vulnerability	2) Seasonal calendar and historical timeline	2) Seasonal calendar and vulnerability matrix	
Mossuril	Male	26	24	12	12	
Mossum	Female	25	25	12	12	
Memba	Male	24	12	20	9	
Метра	Female	12	24	12	12	
Nacala-a-	Male	0	0	0	12	
Velha	Female	0	12	12	0	
Number of Sessions		7	8	6	5	
Number of participants		87	97	68	57	















4.3 Key Informant's Interviews

A total of 28 key informants were interviewed, including the SDAE (3), CCP (10), SDPI (2) environment department and community leaders (13) in the districts of Mossuril, Memba and Nacala-a-Velha (table 5). Key informants' interviews were based on a guide with open questions, which helped exploring opinions from experts, authorities and people with knowledge about local consent about: (a) livelihoods, (b) access to, use and management of marine and costal resources for men and women, (c) climate change effects and resilience efforts, (d) attitudes about creation of marine conservation area..

Table 5: Key Informants Interviewed

District	Memba	Mossuril	Nacala-a- Velha	Total
Government officials SDAE	I	2		3
Government officials SDPI	I	I		2
Community leaders	4	6	3	13
Leaders of CCP/ fishers' organizations	4	5	I	10
Total Key Informants	10	14	4	28

4.4 Data Quality Assurance

An inception report, developed in English was discussed and approved by ADPP. A research protocol was developed, submitted and approved by WCS's Internal Review Board (IRB) for ethical considerations. All team members were trained in Social Safeguards & Social Sciences by the senior consultants who attended the two-week training on Blue Future project's social and environmental safeguards and on socio-economic surveys Including in the BNS and the Natural Resource Government Tool (NRGT) provided by WCS senior staff in November 2022 in Nacala-Porto

Data collection was supervised by senior consultants with adequate and complementary expertise and experience. Twelve (12) enumerators (6 male, 6 female) with relevant education and experience were hired and trained. The training was provided in two days (April 13 and 15) at ADPP Office in Nacala Porto and covered: briefing on Blue Future project, objectives of the study, familiarization with tools, discussion and interpretation of questions in local language (Makua), interview practice in pairs, data record into the tablets using Kobo Toolbox and submission to the cloud-based database.













The team adopted the following strategies of data quality control:

- Surveys conducted with tablets, with control mechanism to reduce data omission and inconsistence and restrict data access to uploaded data;
- A pilot survey was conducted on April 17 in Mossuril, community of Chocas Mar;
- Supervisors assisted and oversaw enumerators throughout the entire survey activity;
- Supervisors performed daily meetings, regular data checks, discussed and synthetized feedback notes from focus groups discussions and key informant interviews;
- End day meetings with the whole team to check completed household interview, submit data in the cloud, verify notes from FGD's and key informants and;
- Team leader and supervisors downloaded a partial database to check data completion, structure and trends to spot issues that might needed immediate correction in the field.

4.5 Ethical Considerations

Prior to data collection the assessment team members attended a one-hour training on ethical/social safeguards that should be considered during surveys. The training was facilitated by WCS and Moz Target officials who attended the previous training on Social and Environmental safeguards and socio-economic surveys, by WCS in November 2022. A credential letter was issued by WCS, explaining the objective of the assignment and providing a list of team members. This letter was presented to the district government and community leader prior data collection.

The ethical norms to be observed included:

- ✓ The household interviews and FGDs were held in local language (Makua), whereby two male team members conducted male FGDs and two female team members conducted female FGDs;
- ✓ Free participation (right of accepting or refusing) participating in the assessment. Full information on the research was provided to participants and they were given the opportunity to accept or refuse to participate;
- ✓ Privacy (non-disclose of contacts): it was made sure that personal details would not be disclosed to any person, besides the survey team;
- ✓ Confidentiality (non-disclosed of content out of research team): during data collection no names were registered. All information reported by community members was used only for the baseline purpose.

4.6 Data Analysis













At the end of the data collection, a household survey database was generated from KoboCollect application and converted to Microsoft Excel where the data cleaning was carried out (removal of outliers). Statistical applications such as SPSS Version 26, STATA Version 17, and Excel were used to calculate the indicators, generate frequencies and averages. The statistical analysis included: descriptive statistics, calculations of simple frequencies and cross tabulation to provide values of indicators with specific disaggregation such as per sex, age, geographic location. Data from different sources was triangulated, namely survey, focus group discussion, key informants, secondary data and the present report was written.

4.7 Study Limitations and Challenges

The main challenges found during the fieldwork were the following:

- At the time of data collection, the Lunga administrative post did not yet have an ADPP/WCS technician on site to facilitate the identification of the villages selected for data collection. To resolve this difficulty, the strategy of working with a SDAE technician was adopted;
- Two villages (Yahaha in Memba and Napazo in Nacala-Velha) randomly selected for data collection are no longer inhabited, making interviews in these villages impossible. As a solution, other villages that are also part of the project's intervention area were selected to replace them. The settlement of Yahaha was replaced by Mutare and the settlement of Napazo was replaced by the settlement of Massingirine.















5. Baseline Findings

5.1 General Socio-Demographic Characteristics

5.1.1 Population of Project Intervention Area

Blue Action project covers three districts Memba, Mossuril and Nacal-Velha. This subsection provides a brief description of geographic location as well as general population demographics.

Memba is located in the extreme north of the province of Nampula, with a surface area of 5,250 Km2Km2 which corresponds to 6.4% of the surface of the Province with a population density of 41.5h/km2. According to the 2017 General Population Census, Memba district has about 328,460 inhabitants (381,014 in 2023 assuming a growth rate of 16%) of which 52% are women. The young population and the majority being 51% population aged 0-14 years, 8% aged 15-19, 32% aged 20-49 and 9% aged 50 and above.

Mossuril has an area of 3,463km2 and an estimated population of 174,641 in 2017 (202,584 in 2023 assuming a growth rate of 16%) of which 52% are women. The young population and the majority being 48% population aged 0-14 years, 9% aged 15-19, 32% aged 20-49 and 11% aged 50 and above.

The district of Nacala is located on the coast, 210 km from Nampula, bounded to the south by the district of Mossuril, to the east by the Indian Ocean, to the north by the district of Memba and to the west by the districts of Erato and Monapo, with an area of 1,169 km2. It has an estimated population of 121,726 in 2017 (141,202 in 2023 assuming a growth rate of 16%) of which 52% are women. The young population and the majority being 49% population aged 0-14 years, 9% aged 15-19, 32% aged 20-49 and 10% aged 50 and above.

The Blue Action project covers a total of 55 coastal communities, located in 6 administrative posts in the districts of Memba, Mossuril and Nacala Velha. Data collected from the villages authorities in August 2023, indicate that the population within the Blue Action intervention area comprises: 44,296 households, 147,553 people and the total number of fishers were estimated at 37,857 (table 6).











Table 6: Population Size of Project Target Area

District	Administration	Village / Fishing	Nr of	N° of	Nr. Of
District	post	Center	Households	Inhabitants	Fishers
		Namiripi (inclui São João)	679	3,470	2,262
		Cabaceira Grande	701	7,026	1,090
		Chocas Mar	12,021	14,664	4,300
		Cabaceira Pequena	582	3,820	1,220
	M (1.6.1	Mingurine	4,000	10,081	87
	Mossuril Sede	Quissanga	522	5,010	100
		Nanthoa	301	2,809	67
		Saua saua	709	6,258	53
		Rathane	298	3,000	102
		Namalaza I & II	171	921	680
		Namuco	470	973	786
		Olutuni	160	821	680
	il Lunga	Lapuela	460	969	780
		Khiulane	780	3,200	3,150
		Ampita_Macumano	230	780	565
Mossuril		Muanangone	589	1,692	1,585
		Mutomonho	330	1,780	783
		Muitiquiti - Nandja	1,090	2,310	1,970
		Muaconi	523	2,200	800
		Holoca	700	1,100	500
		Lagua	255	1,273	550
		Chikoma	1,443	10,146	5,342
		Nifukeniculo/Metacane	1,700	3,700	1,000
		Anduce	569	2,786	1,550
	Matibane	Namalungu/Iwia	260	14,470	205
		Munhohola	823	14,449	950
		Mugigavava	280	1,158	904
		Krussi	606	2,864	2,000
	Sub	total Mossurl	31,252	123,730	34,061















District	Administration	Village / Fishing	Nr of	N° of	Nr. Of
District	post	Center	Households	Inhabitants	Fishers
		Fungo	1,020	4,378	310
		Nathaca	360	2,318	55
		Naminambo	330	995	95
	Memba Sede	Mauco	210	912	40
	r iciniba Sede	Mitequereque	220	1,769	60
		Nanqueca	560	2,636	130
		Mitembe	121	1,768	95
		Namare	75	150	19
		Nacapa	653	3,266	2.054
		Napila	496	2.480	1.700
Memba		Tuco	594	2.970	1.840
Менна		Mutare	309	2.060	1.260
		Yahaha	607	2.216	1.216
	Ni Cili	Geba	3,481	17.406	10.327
	Niaca - Geba and Baixo Pinda	Micolene	446	2.234	1.234
		Baixo Pinda	1,132	5.661	3.483
		Megane	-	-	-
		Farrol	-	-	-
		Namata	675	3.375	2.270
		Wepane	492	2.464	1.246
		Fica	222	1.113	548
	Sub	total Memba	12,003	18,192	1,352
		Mussenqua	197	684	509
		Pangane	199	1,456	422
	Nacala-Velha	Racine	205	1,213	607
Nacala- a-Velha		Mussambine	176	901	399
a- V Cilla		Mujo	153	790	206
		Chalaue	111	587	301
	Sub total Nacala-a-Velha		1,041	5,631	2,444
Grand Total for the Whole Intervention Area		44,296	147,553	37,857	















5.1.2 Characteristics of the Survey Respondents

From the 1,599 respondents, 781 were female (48.8%) and 818 were male (51.2%). Among the survey respondents, 58.0% are young people aged between 18-35 and the remaining 42.0% are adults over 30 years old (table 7)

Table 7: Respondents per district, sex, in intervention and comparison domains

Disagregation	9	Sex of rep	onden	Total	% among		
District	Female		М	ale	locai	Beneficiaries	
General	78 I	48.8%	818	51.2%	1599		
Memba	198	25.4%	219	26.8%	417	34.7%	
Mossuril	323	41.4%	336	41.1%	659	54.8%	
Nacala-a-Velha	61	7.8%	64	7.8%	125	10.4%	
Nacala-a-Velha (Reference)	199	25.5%	199	24.3%	398		
A . D	S	ex of resp	ponden	T. / . l			
Age Rages	Female		Male			Total	
Adults (35+)	298	38.2%	373	45.6%	671	42.0%	
Youth (18-35)	483	61.8%	445	54.4%	928	58.0%	

A total of 1,599 people were interviewed, of which 1,201 within area of intervention of Mossuril, Memba and Nacala-a-Velha, and 398 in the selected reference sites in Nacala-a-Velha. The respondents age ranged between 18 and 88, with an average of 35 years old. About 59.7% of the respondents were the heads of their respective households, whereas the remaining were mainly spouses.

About 87.7% of surveyed households are headed by males. Concerning education of head of households, the findings were (figure 2): Among the heads of households 29.5% did not go to school (19.7% female, 80.3% male); About 37.1% attended but not completed primary school (6.9% female, 93.1% male); Heads of households who completed primary education are 22.1% (14.7% female, 85.3% male); Heads of HH who attended secondary school are 8.9% (12.3% female, 87.7% male).















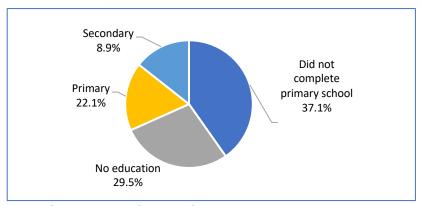


Figure 2: Education of Head of HH

5.1.3 Characteristics of the Households

About 60.6% of the total household members are children aged between 0-17 years, 38.8% between 18 and 64 years and 0.7% aged over 64 years (table 8).

Table 8: Proportion of total number of children, adults and elderly people

	Total					Distric	ts		
Ages	HH	Memba		Mos	ssuril Nacala		-Velha	Nacala-a-Velha (reference)	
	ers	Su m	%	Sum	%	Sum	%	Sum	%
Children and youth aged 0 to 17 years - male	2791	754	31.9%	1158	28.7%	183	29.1%	696	30.7%
Children and youth aged 0 to 17 years - female	2605	676	28.6%	1118	27.7%	180	28.6%	631	27.8%
Adults, 18-64 years, male	1912	454	19.2%	872	21.6%	128	20.3%	458	20.2%
Adults, 18 -64 years, female	1858	461	19.5%	811	20.1%	130	20.7%	456	20.1%
Elderly ≥ 65 years +, Male	61	9	0.4%	34	0.8%	4	0.6%	14	0.6%
Elderly≥65 years +, Female	58	7	0.3%	36	0.9%	4	0.6%	П	0.5%
Total	9,285	2,36 I		4,029		629		2,266	















5.1.4 Perception about Natural Resources Governance Bodies

Asked about decision-making bodies on access, use and management of coastal and marine resources that exist in the community, about 57.1% said CCP, 12.9% said Capitania, 4.7% mentioned a combination of two of more among CCP, Capitania, Marine Policy, IDEPA, Community Leaders, SDAE. About 16% said there is none.

The fisheries sector is responsible for creating the Fisheries Co-Management Committees (CCGP) designated as a consultative body at the local level of the participatory management system where all interest groups are represented. Tourist resorts and shipowners may be invited according to the relevant matters on the agenda. The CCGP hold regular meetings twice a year, once in the first quarter (March/April/May) and once in the second semester (August/September/October). These forums meet at provincial and district level.

About 59.2% of respondents stated that women are not involved in the design of the law or development of the marine resources management plans at local/district or provincial levels.

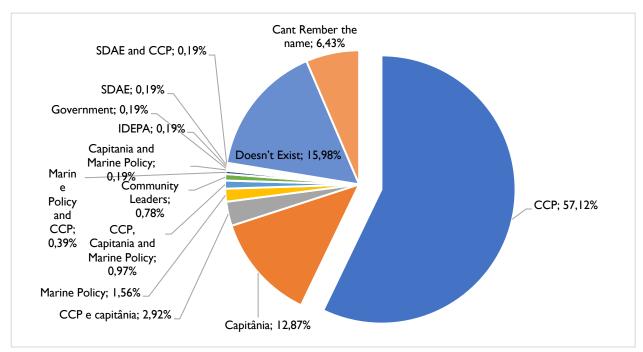


Figure 3: Perception of who decides on access, use and management of coastal and marine resources













About 58.9% of respondents said they have fairly information about legislation and policies regulating natural and fisheries or marine resources, 41.1% said they do not have it.

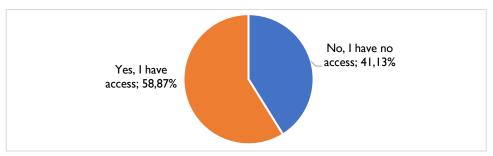


Figure 4: Access to information about legislation, policies regulating on marine resources

Asked the extent to which they had difficulties finding the information, 27.7% said they had no difficulties, 24% stated that they had difficulties and nearly half (48.7%) never searched for it.

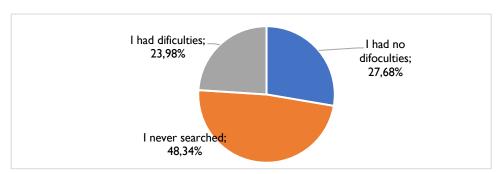


Figure 5: Perceived Difficulties Accessing information about legislation, policies regulating on marine resources















5.2 Socio-Economic Indicators

5.2.1 Indicator G2: More People in The Project Intervention Areas Benefit from Improved Ecosystem Services Supporting Adaptation to Climate Change.

Benefits from Interventions of Conservation

The respondents of the survey as well as participants of focus group discussion and key informants were asked about past conservation interventions in their communities. The respondents mentioned interventions such as:

- ✓ Mussuril, Lunga community: Nkango (community conservation area with fence);
- ✓ Mossuril Headquarters: Nkonjo and Nivula Nkiva/Giva, was created in collaboration with community-monitored Oikos;
- ✓ Memba sede: Large gourd (closed from Nov to Jan).

Results reveal that most interventions are isolated and of short durations. Few respondents, 11.3% among intervention sites and 16.7% for reference, reported a package of interventions comprising protection of seagrasses, mangroves and coral reefs.

Table 9: Respondents reporting benefits from interventions comprising protection of seagrasses, mangroves and coral reefs

Disaggregation	Yes	Total (N)
General	12,6%	532
Intervention vs reference		
Reference	16,7%	132
Intervention	11.3%	400
District		
Memba	9.3%	140
Mossuril	12.8%	219
Nacala-a-Velha	9.8%	41
Nacala-Velha (Reference)	16.7%	132













More specifically:

- ✓ Only 19.7% claim that their community has benefitted from a seagrass protection project/program and the responses are consistent among intervention and control area, as well as across districts (table 9).
- ✓ About 21.6% of respondents stated that their communities have benefitted from protection of coral reefs project, 18.8% in reference sites and 22.5% in intervention sites, (table 10).
- ✓ Almost half (49.8%) respondents declared that their community has benefitted from an intervention in mangrove conservation. Apparently there has been an intervention in Nacala-a-Velha control sites with 84.1% of respondents reporting this type of intervention, compared to an average of 38.5% within intervention districts and communities (43.8% in Mossuril, 32.9% in Memba, 29.3% in Nacala-a-Velha intervention sites).

Low enforcement (patrolling) has been a major challenge, with most CCPs reporting lack of means, such as vessel, uniforms.

5.2.2 Indicator G3: At the end of the project, livelihood conditions of affected households in project intervention areas are improved

Respondents were asked if they think their lives have changed in recent years. More than half (65.2%) claim that life has improved, while 13.7% said it worsened and 21.1% perceive that there was no change. Responses among districts are seemingly consistent, with close percentage for each response. Apparently more female respondents are optimistic, with about 75.4% claiming positive changes compared to male with 55.4% with same perception.

Only 5% of female respondents argued that life has changed to worse compared to 22% of male who made this statement. There were more youth who reported life has changed to the better (83.1%) compared to adults with the same opinion (66.2%), as shown in (table 10).













Table 10: Perception of respondents about change in life conditions

Disaggregation	No c	hange		the etter	Much better		Much Worse		Worse		Total
General											
District	Freq	%	Freq	%	Freq	%	Freq	%	Freq	%	N
Memba	70	16.8%	218	52.3%	69	16.5%	7	1.7%	53	12.7%	417
Mossuril	140	21.2%	323	48.9%	102	15.5%	13	2.0%	81	12.3%	659
Nacala-a-Velha	28	22.4%	65	52.0%	18	14.4%	0	0.0%	14	11.2%	125
Nacala-a-Velha (Reference)	100	25.1%	199	50.0%	48	12.1%	3	0.8%	48	12.1%	398
Total	338	21.1%	805	50.3%	237	14.8%	23	1.4%	196	12.3%	1599
Sex											
Female	153	19.6%	467	59.7%	122	15.6%	5	0.6%	34	4.3%	781
Male	185	22.6%	338	41.3%	115	14.1%	18	2.2%	162	19.8%	818
Total	338	21.1%	805	50.3%	237	14.8%	23	1.4%	196	12.3%	1599
Age group											
Adults (35+)	130	19.4%	355	52.9%	89	13.3%	П	1.6%	86	12.8%	67 I
Youngs (18-35)	208	22.4%	450	67.1%	148	15.9%	12	1.3%	110	11.8%	928
Total	338	21.1%	805	120.0%	237	14.8%	23	1.4%	196	12.3%	1599















Respondents were asked to declare if any of the household member did each of the livelihood activities listed. The responses were consistent for both intervention areas and the control, showing that the population essentially relies on farming and fishing value chain. More specifically, the four main activities reported are (figure 3):

- ✓ Farming (reported by 93.8% in the intervention and 96.2% in the control areas);
- ✓ Fishing (83.3% in the intervention and 77.4% in the control areas);
- ✓ Collection of marine resources (55.0% in the intervention and 63.8% in the control areas);
- ✓ Fish seller/trader/processor (57.0% in the intervention and 54.5% in the control areas);

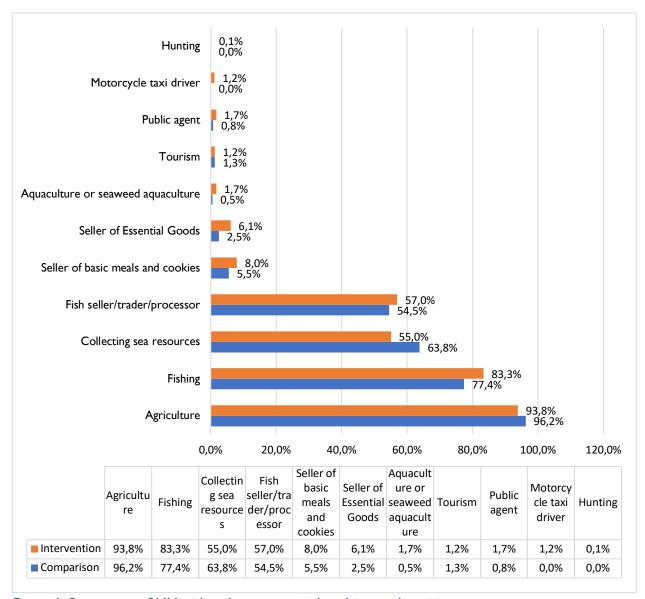


Figure 6: Percentage of HH with at least one member doing each activity















Mossuril SDAE representative estimates that around 80-90% of households are engaged in fishing. Furthermore, he said men usually practice deep sea fishing while women are engaged in fish processing, trade and collection of invertebrates and sometimes help their partners to pull the nets.

An exploratory socioeconomic study¹, conducted by WCS in 2022, in Memba and Mossuril, found that:

- ✓ The primary source of income of households in these districts is fishing. Fishing constitutes the basis of survival and income for most families. It is mainly assured by the family sector, which makes its practice traditional, that is, the predominant use of artisanal techniques, such as the trawl net and canoes and sailing boats.
- ✓ According to data from the fishing sector (Statistical Bulletin 2021), an increasing trend is observed for the districts of Memba and Mossuril, with only the District of Nacala Velha being the district where a reduction in catches is observed. Taking into account the price of fish, these data reveal that the community of Memba has more income from fishing.

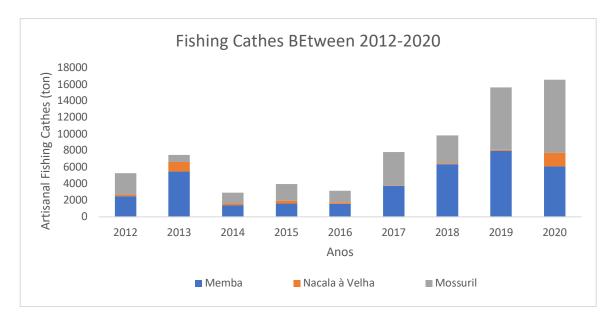


Figure 7: Trends in Catches of Artisanal Fishing Between 2012-2020

¹ Relatório do trabalho de campo sócio-económico para desenvolver a proposta completa do BAF: Construindo um Futuro Azul para Ecossistemas e Pessoas na Costa Leste Africana, Distritos de Memba, Nacala-Porto e Mossuril, WCS, 2020.

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- ✓ In general, the production of artisanal fishing in the three analyzed districts has suffered fluctuations over the last few years, with the district of Memba being the most productive, followed by Mossuril and finally Nacala Velha.
- Mostly artisanal fishing involves a great diversity of fishing gear with different levels of complexity, both for its materialization as well as for its effective use. Man, develops the ability to perform fishing activities of greater effort, risk and duration, being responsible for fishing in high air. While the woman dedicates herself to fishing for coastal invertebrates that inhabit sandy, rocky, coral substrates as well as seagrass beds, fish processing and trade. The main fishing technique is catching, which is carried out by hand, as well as sticks, irons and other blunt objects, also using small fishing nets measuring 2-5m. In sheltered areas, fishing is also carried out using scraps of mosquito netting involving a workforce of two people, this last art is responsible for capturing juveniles from a large part of the marine resources accessible to artisanal fishing. Sometimes they fish with conventional trawl gear (300m) where the men stretch the net in the sea and the women just pull the net from the shore (exclusive practice of Memba sede).
- ✓ Report from Macuio, J. & Marques da Silva, I. (2021), indicates that fishing is developed by men, while women, children and older people do the gleaning or shellfish gathering. The reports say women were observed pulling mosquito nets, mainly in Mecuta and Namoro in Memba and Lumbo and Ilha-Sede in Mozambique Island. These findings are consistente with the data from the surveys, pointing to less effortful activities to be developed by women in the coastal zone, which includes the collection of invertebrates;
- ✓ Other sources are consistent with the above finding, in reporting that women use the mosquito nets for the capture of smaller fish, known as Quinia (Hoguane, A.M.,2007; Governo do Distrito de Memba, Ilha de Moçambique, 2015). The pressure to secure daily food leads women to practice this destructive technique, which is responsible for inestimable losses of juveniles of various species of fish.
- ✓ In terms of vulnerability, children, single women and widows and the elderly over 55 are the most vulnerable. Women are also more vulnerable because culture influences whether they have access to education.















Benefits from Interventions of Livelihoods

More than half (71.7%) respondents either were not aware or not sure about any projects in their community focused on improving livelihoods in the last years. Only 28.3% over all respondents declared that there were such project in their communities.

In Memba there were relatively higher frequency of respondents (41.7%) who claimed to be unaware or unsure about any project in their community focused on improving livelihoods in recent years, compared to other districts (16.8% in Nacala-a-Velha, 24.1% in Mossuril and 24.9% in comparison sites of Nacala-a-Velha) (table 11).

Table 11: Respondents aware of any livelihoods project implemented in their communities

Disaggregation	1	No.	Don'	Don't now		Refused		Yes	
Disaggregation	Freq	%	Freq	%	Freq	%	Freq	%	
Intervention/Control									
Reference	243	61.1%	53	13.3%	3	0.8%	99	24.9%	398
Intervention	649	54.0%	188	15.6%	10	0.8%	354	29.5%	1201
Total	892	55.8%	241	15.1%	13	0.8%	453	28.3%	1599
District									
Memba	180	43.2%	60	14.4%	3	0.7%	174	41.7%	417
Mossuril	380	57.7%	115	17.4%	5	0.8%	159	24.1%	659
Nacala-a-Velha	89	10.0%	13	10.4%	2	1.6%	21	16.8%	125
Nacala-a-Velha (Reference)	243	61.1%	53	13.3%	3	0.8%	99	24.9%	398
Total	892	55.8%	241	15.1%	13	3.3%	453	28.3%	1599

Respondents mentioned name of the project or the implementing organization (table 12).















Table 12: Name of Projects or Implementation Organization

M emba	Mossuril	Nacala-a-	Nacala-Velha Reference		
		Velha			
Associação dos Camponeses	Protecção marinha (PM)	World Vision	USAID		
Capitania	Proteção e conservação pesqueira	Sustenta	CEPA		
Care	CCP	USAID, Terra	IDE		
Reserve	Saúde e bem-estar	nossa.	Sustenta		
IOM	Associação dos Camponeses	Save the	ODUNGO PAMOJA (Distribuíção de		
ССР	Projeto de produção de Horticulas,	Children	motores de embarcação)		
PMA	PMA	Kulima	CPP		
Agriculture	Coral Lodge	CCP	JFS (distribuíção de insumos agricolas)		
World Vision	Sustenta	Care	Care		
Coral Lodge	Proteção costeira	INGD	CLN		
Kulima	OIKOS, terra nossa, Kulima		VALE		
Capitânia	Governo		IDE		
CUP (educação ambiental)	Projecto ligado a pesca, gestão de calamidade		OPHAVELA (Do vale)		
Terra nossa.	Projeto de produção de Gergelim!		Preservação do Mangal		
Grupo 15	Projecto Equibal		SNV		
Destruição de enxadas	ADPP		Assomat		
IDE (Agriculture) and Vodacom	FAO		Save the Children		
(Jobs)	Care, World Vision				















Only 14.9% declared that the projects implemented have contributed to increase income or availability of food in their households, with higher frequency in 24.7% in Memba (table 13).

Table 13: Have the projects contributed to increase income or availability of food?

Responses	Memba		Mossuril			cala-a- 'elha	Ve	ala-a- elha rence)	Total		
	Freq	%	Freq	%	Freq %		Freq	%	Freq	%	
No project	243	58.3%	500	43.6%	104	83.2%	299	75.1%	1146	71.7%	
Increased	103	24.7%	64	9.7%	13	10.4%	59	14.8%	239	14.9%	
Decreased	I	0.2%	8	1.2%	I	0.8%	0	0.0%	10	0.6%	
Don't know/ Refused	2	0.5%	19	2.9%	I	0.8%	5	1.3%	27	1.7%	
No change	68	16.3%	68	10.3%	6	4.8%	35	8.8%	177	11.1%	
Total	417	100.0%	659	100.0 %	125	100.0%	398	100.0 %	1599	100.0 %	

Respondents estimated their current monthly incomes, ranging between 160.00Mt and 16,800.00Mt with an average 4,349.1Mt and median of 3,200.0Mt (table 14). According to the National Statistics Institute (INE) enquire on family budget (IOF) report (2022), the average per capita monthly expenditure on food products and non-alcoholic beverages alone is 3,358.00Mt/Month. The expenditures are proxy indicators of the household incomes. The IOF household expenditure (3,358.00Mt/Month) is closer to the median income found in the baseline survey (3,200.0Mt/month).

Table 14: Households Average Monthly Incomes

Disaggregation	Average	Median	Mode	St Dev	Mini	Max
General	4,349.1	3,200.0	2,800.0	3,603.1	160.0	16,800.0
Tipo de area						
Intervention	4,349.1	3,200.0	2,800.0	3,603.1	160.0	16,800.0
Reference	4,456.7	3,430.0	2,800.0	3,756.0	160.0	16,800.0
Districts						
Memba	4,587.3	3,700.0	6,000.0	3,805.2	160.0	16,800.0
Mossuril	4,603.7	3,500.0	1,200.0	4,259.2	180.0	16,800.0
Nacala-a-Velha	4,456.7	3,430.0	2,800.0	3,756.0	160.0	16,800.0
Nacala-a-Velha (Reference)	4,349.1	3,200.0	2,800.0	3,603.1	160.0	16,800.0
Sex						
Female	4,339.4	3,200.0	2,800.0	3,638.0	160.0	16,800.0
Masculino	4,349.1	3,200.0	2,800.0	3,603.1	160.0	16,800.0
Age ranges						















18 - 35	4,349.1	3,200.0	2,800.0	3,603.1	160.0	16,800.0
>35	4,351.8	3,200.0	2,800.0	3,611.2	160.0	16,800.0













Those respondents who fish, were asked what they do with most of their catches, and 77.4% declared that they sell, and 22.6% say they consume (table 15).

Table 15: Use of the fish they catch

Disaggregation	Sale	Offer	Not capture	Household consumption	N
General	87.4%	24.8%	6.4%	93.2%	532
Domain					
Reference	83.3%	18.9%	11.4%	88.6%	132
Intervention	88.8%	26.8%	4.8%	94.8%	400
District					
Memba	93.6%	19.3%	0.0%	100.0%	140
Mossuril	85.4%	32.9%	7.8%	91.3%	219
Nacala-a-Velha	90.2%	19.5%	4.9%	95.1%	41
Nacala-a-Velha (Reference)	83.3%	18.9%	11.4%	88.6%	132
Sex					
Female	79.7%	6.8%	9.4%	90.2%	266
Male	95.1%	42.9%	3.4%	96.2%	266
Age group					
18 - 35	88.5%	23.3%	7.7%	91.7%	313
>35	85.8%	26.9%	4.6%	95.4%	219

^{*}Note that the question allowed multiple answers, thus the total exceed 100%.

Fishers were asked what they do with the invertebrates they catch, and they affirmed that they eat the most, but they also sell and offer friends and relatives (table 16). The collection of invertebrates is a subsistence activity, where normally their catches are intended for immediate consumption. This is why women and children are associated with this activity. The most captured group of invertebrates are molluscs (gastropods and bivalves) however resources such as octopus have gained more and more importance in this province due to the proliferation of processing rooms (Fernando et al., 2021), this invertebrate is mainly captured in Memba, compared to the districts of Mossuril and old Nacala. The octopus is caught by women and children on the coastline and by men on the islands adjacent to fishing, the first group uses the catches for immediate consumption, while the second group uses the octopus for trade because they are larger (Fernando et al., 2021)













Table 16: What do you do with the invertebrates you catch?

Disaggregation	Eat	Sale	Offer	Don't Catch	N
General	71.4%	23.7%	2.8%	26.7%	532
Domain					
Reference	72.0%	15.2%	2.3%	28.0%	132
Intervention	71.3%	26.5%	3.0%	26.3%	400
District					
Memba	70.0%	29.3%	2.9%	25.7%	140
Mossuril	71.2%	21.5%	2.7%	26.9%	219
Nacala-a-Velha	75.6%	43.9%	4.9%	24.4%	41
Nacala-a-Velha (Reference)	72.0%	15.2%	2.3%	28.0%	132
Sex					
Female	89.1%	25.6%	0.4%	9.4%	266
Male	53.8%	21.8%	5.3%	44.0%	266
Age group					
18 - 35	70.9%	25.9%	3.5%	26.8%	313
>35	72.1%	20.5%	1.8%	26.5%	219

^{*}Note that the question allowed multiple answers, thus the total exceed 100%.













Out of 532 respondents, only 36 (6.8%) respondents affirmed that their household has access to loans. The response to this question is consistent, 6.8% equally to intervention and control sites and little variation among distrits (Memba 7.9%, Mossuril 5.5%, Nacala-a-Velha 9.8%, Nacala-a-Velha reference) (6.8%). About 71% declared that they have always neededloans butnever got it (table 17).

Table 17: Do any member of your HH have access to loans?

Disaggregation	No	Yes	Total
General	93.2%	6.8%	532
Domain			
Reference	93.2%	6.8%	132
Intervention	93.3%	6.8%	400
District			
Memba	92.1%	7.9%	140
Mossuril	94.5%	5.5%	219
Nacala-a-Velha	90.2%	9.8%	41
Nacala-Velha (Reference)	93.2%	6.8%	132
Sex			
Female	92.5%	7.5%	266
Male	94.0%	6.0%	266
Sex of head of househould			
Female	93.5%	6.5%	248
Male	93.0%	7.0%	284
Age group			
18 - 35	92.0%	8.0%	313
>35	95.0%	5.0%	219













The 36 respondents who claimed to have had loans were then asked to declare the source of loans they got. Most of them (18) said they got from neighbors, friends or relatives (table 20).

Table 18: Source of loans

Disaggregation	Neighbor/friends /Relatives	Saving Groups	Cooperative/ Association	NGO	Bank	Total
General	26	5	3	2	I	36
Domain	0					
Reference	6	2	0	0	I	9
Intervention	20	3	3	2	0	27
District	0					
Memba	8	2	I	0	0	П
Mossuril	10	I	I	0	0	12
Nacala-a-Velha	2	0	I	2	0	4
Nacala-a-Velha (Reference)	6	2	0	0	I	9
Sex	0					
Female	14	5	0	0	I	20
Male	12	0	3	2	0	16
Sex of head of household						
Female	5	5	0	0	0	20
Male	15	0	3	2	I	16
Age group	0					
18 - 35	21	2	I	0	I	25
>35	5	3	2	2	0	П

The respondents were asked to recall the number of times they got loans during lats 12 months and what they did with the money. Some respondents got loans multiple times in a year, and the sum of accumulative number of times the 36 respondents got loans was 41. They used the loans for: investing in alternative livelihoods to fishing (16), purchase food and other basic needs (13), improve fishing gears (10), medicines (1) and ceremonies (1).













5.2.3 Indicator G4: at the end of the project, substantially more households affected in project intervention areas have a positive attitude towards marine biodiversity, restoration and protection of mangroves, seagrass and coral reefs

Respondents were asked about their attitude towards the establishment of sanctuaries and restricted areas for fishing. Counting respondents who consistently provided positive attitudes towards each of the following conservation measures:

- ✓ Establishment of sanctuaries and restricted areas for fishing;
- ✓ Seasonal close of certain fishing areas;
- ✓ Estricting people from walking in certain areas;
- ✓ Habitat restauration measures:
- ✓ Restrictions in catches and collection of certain species;
- ✓ Restrictions from catching some size of fishes;
- ✓ Limit in number of people authorized for fishing per fishing zone;

Overall, 46.45 provided positive response to all conservation measures (45.8% for intervention and 48.5% in the reference site). (table 19).

Table 19: Attitude towards conservation measures

Disaggregation	Respondents with a positive Attitude	Total
General	46.4%	532
Domain		
Reference	48.5%	132
Intervention	45.8%	400
District		
Memba	48.6%	140
Mossuril	41.1%	219
Nacala-a-Velha	61.0%	41
Nacala-a-Velha (Reference)	48.5%	132
Sex		
Female	40.2%	266
Male	52.6%	266
Age group		
18 – 35	43.5%	313
>35	50.7%	219















Participants of FGD were asked about their opinion regarding the establishment of a conservation area. The participants expressed mixed feelings, in favor of the potential benefits but also fearing negative impact on their livelihoods. In general, the feedback reveals that community members are aware of the potential benefits, and they mentioned some, such as: it will enforce laws to reduce catch of juvenile fish, reduce destruction of mangroves, allow species to reproduce so they can catch fishes of bigger sizes, it can prevent resources to deplete. On the other hand they fear about the effects in their incomes and sources of food. Fishing is the main activity for male, the main source of income and food for most households.

These are some quotes from the FGD:

- ✓ If fishing is closed, man will not be able to provide resources for their households;
- ✓when our husbands don't have anything or money to buy food, we go there and collect resources to feed our families and help our husbands.
- ✓ We fear that they will be restricted from using the marine resources with no alternative source of income or food.
- ✓ If we are restricted to fish, income will drop and we have no way to get food, pay for children education.
- ✓ We fear that those people who will be assigned for law enforcement will prevent us from fishing while they allow their friends to fish.
- ✓ In the past we experienced closing fishing activity for species reproduction but we didn't see the benefits; Maritime entities, prevented local fishers from fishing, however other fishers came from the Island of Mozambique and Chembesse, and invaded our fishing zones, and when fishing is open for all they don't experience no improved catches.















5.2.4 Indicator O1.2: villages are more resilient to climate change (water and food security, community structures for sustainable fisheries management).

In focus group discussions, community members from Memba, Mossuril and Nacala-a-Velha regarded the months of January, February and March as ones in which they experience challenges in having enough food, as shown in table 20).

Table 20: Period of Year Communities Experience Challenges in Food Security

Months	Agricultural products	Sea food
December, January, February and March	Period in which the previous year's reserves were depleted, awaiting new harvests. In February, March, April, the crops are in flowering period and the tubers like cassava, peanuts are not ready yet.	In January and February there are heavy rains, the sea water becomes cloudy, sometimes it mixes with fresh water, the fish move away from the coast and towards the bottom, reducing catches Sometimes in the period of January, February and March there is a ban on fishing; In January generally food prices have been high;
April to August	There is availability of agricultural products, especially in years of good harvests of cereals and beans, and it is also vegetables season.	During this period, fish are scarce, resulting from the reduction in both catches and fishing effort, given precarious navigability conditions, as an effect of strong winds and consequently violent waves

Respondents mentioned following effects of climate change that they regard as responsible for declining their livelihoods condition: Increased frequency and intensity of cyclones/strong winds (66.9%), Decrease or disappearance of fish species (54.5%), Degradation of fish habitat (53.2%) and about a quarter said Fish migration (28.6%), Soil erosion and impoverishment due (24.2%), Increased pests and diseases in plants and animals (24.2%) (tables 21, 22).















Table 21: Effects of Climate Changes that respondents are aware of

What effects or		Do	main	•		Districts		Sex	x	Ages		
phenomena associated with climate change do you know	Geral	Reference	Intervention	Memba	Mossuril	Nacala -a-Velha	Nacala- Velha (Reference)	Female	Male	<35	>35	
Increased frequency and intensity of cyclones	74.1%	83.3%	71.0%	82.1%	61.2%	85.4%	83.3%	82.0%	66.2%	72.2%	76.7%	
Increased temperature and number of hot days	30.1%	31.8%	29.5%	32.1%	27.4%	31.7%	31.8%	47.0%	13.2%	33.5%	25.1%	
Reduced rainfall causing droughts	25.9%	32.6%	23.8%	32.9%	16.0%	34.1%	32.6%	25.9%	25.9%	26.2%	25.6%	
Variation of the rainfall calendar	25.4%	30.3%	23.8%	33.6%	16.9%	26.8%	30.3%	38.0%	12.8%	28.4%	21.0%	
Soil erosion and impoverishment due to the intensity of rainfall during the peak	25.0%	32.6%	22.5%	23.6%	20.1%	31.7%	32.6%	44.0%	6.0%	28.1%	20.5%	
Decrease or disappearance of some fish species	24.4%	22.0%	25.3%	18.6%	29.2%	26.8%	22.0%	46.6%	2.3%	27.2%	20.5%	
Degradation of fish habitat	23.3%	28.0%	21.8%	23.6%	19.2%	29.3%	28.0%	40.6%	6.0%	23.6%	22.8%	
Increased amount of rainfall at short peak times, resulting in flooding	22.2%	43.9%	15.0%	16.4%	12.8%	22.0%	43.9%	25.6%	18.8%	22.4%	21.9%	
Increased pests and diseases in plants and animals	14.3%	15.9%	13.8%	14.3%	11.9%	22.0%	15.9%	26.3%	2.3%	14.1%	14.6%	
fish migration	3.8%	1.5%	4.5%	3.6%	5.0%	4.9%	1.5%	1.1%	6.4%	3.8%	3.7%	
Increased water temperature and changes in species reproduction	3.2%	6.8%	2.0%	3.6%	0.5%	4.9%	6.8%	5.6%	0.8%	3.2%	3.2%	
Reduction in the flow of rivers	0.8%	1.5%	0.5%	1.4%	0.0%	0.0%	1.5%	1.5%	0.0%	1.3%	0.0%	
Pollution of rivers, due to farming in riverside areas	0.8%	0.0%	1.0%	2.9%	0.0%	0.0%	0.0%	1.5%	0.0%	0.6%	0.9%	
I have no idea	7.3%	7.6%	7.3%	3.6%	9.1%	9.8%	7.6%	1.1%	13.5%	7.3%	7.3%	
Number of respondents (N)	532	132	400	140	219	41	132	266	266	313	219	













Table 22: Effects of Climate Changes affecting livelihoods in districts of Memba, Mossuril and Nacala-Velha

Effects			Memba			Mossuril		Na	cala-a-Ve	lha	Na	cala-a-Ve	lha
											(1	Reference	e)
	General	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
Increased frequency and intensity of cyclones/strong winds	66.9%	74.3%	91.4%	57.1%	56.2%	70.6%	41.8%	70.7%	100.0%	40.0%	75.8%	100.0%	51.5%
Decrease or disappearance of fish species	54.5%	52.1%	92.9%	11.4%	54.3%	89.9%	19.1%	63.4%	95.2%	30.0%	54.5%	89.4%	19.7%
Degradation of fish habitat	53.2%	55.7%	84.3%	27.1%	46.1%	72.5%	20.0%	65.9%	95.2%	35.0%	58.3%	86.4%	30.3%
Fish migration	28.6%	24.3%	8.6%	40.0%	30.1%	11.0%	49.1%	36.6%	19.0%	55.0%	28.0%	10.6%	45.5%
Soil erosion and impoverishment due to the intensity of rainfall during the peak	27.3%	28.6%	57.1%	0.0%	25.1%	49.5%	0.9%	31.7%	57.1%	5.0%	28.0%	54.5%	1.5%
Increased pests and diseases in plants and animals	24.2%	30.7%	61.4%	0.0%	16.9%	33.0%	0.9%	39.0%	66.7%	10.0%	25.0%	50.0%	0.0%
Variation of the rainfall calendar	17.5%	25.0%	41.4%	8.6%	9.6%	14.7%	4.5%	24.4%	47.6%	0.0%	20.5%	36.4%	4.5%
Increased temperature and number of hot days	17.3%	17.9%	31.4%	4.3%	11.9%	22.0%	1.8%	24.4%	47.6%	0.0%	23.5%	45.5%	1.5%
Increased amount of rainfall at short peak times, resulting in flooding	16.2%	9.3%	10.0%	8.6%	7.3%	8.3%	6.4%	17.1%	33.3%	0.0%	37.9%	75.8%	0.0%
Reduced rainfall causing droughts	9.6%	12.9%	22.9%	2.9%	3.2%	4.6%	1.8%	24.4%	47.6%	0.0%	12.1%	24.2%	0.0%
Pollution of rivers, due to exploitation of riverside areas for agriculture	5.1%	7.1%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.9%	25.8%	0.0%
Increased water temperature and changes in species reproduction	5.1%	2.1%	2.9%	1.4%	0.5%	0.0%	0.9%	9.8%	19.0%	0.0%	14.4%	27.3%	1.5%
Reduction in creation capacity and inventory	0.6%	0.0%	0.0%	0.0%	0.5%	0.9%	0.0%	2.4%	0.0%	5.0%	0.8%	0.0%	1.5%
Number of respondents (N)	532	140	70	70	219	109	110	41	21	20	132	66	66













Asked about measures they know to reduce effects of climate change, 10% said have no idea, then more than half of respondents (68.0%) said Improving house building techniques to withstand cyclones, followed by rainwater collection and storage (25.4%), bank terraces to reduce erosion (22.6%), use varieties adapted to climate change (19.2%). Other measures were mentioned by lower than 10% of respondents (table 23).

Table 23: Measures to Minimize Effects of Climate Changes that Respondents are Aware of

Measures	Geral	Memba Geral				Mossuril			Nacala-a-Velha			Nacala-a-Velha (Reference)		
		Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	
Improving house building techniques to withstand cyclones	68.0%	80.7%	87.1%	74.3%	58.4%	59.6%	57.3%	75.6%	71.4%	80.0%	68.2%	59.1%	77.3%	
Rainwater collection and storage	25.4%	31.4%	54.3%	8.6%	19.6%	35.8%	3.6%	26.8%	52.4%	0.0%	28.0%	50.0%	6.1%	
Bank terraces to reduce erosion	22.6%	22.1%	2.9%	41.4%	16.0%	4.6%	27.3%	41.5%	38.1%	45.0%	28.0%	13.6%	42.4%	
Use of varieties adapted to climate change	19.2%	18.6%	25.7%	11.4%	17.8%	34.9%	0.9%	14.6%	19.0%	10.0%	23.5%	31.8%	15.2%	
Access to better markets	8.5%	5.7%	11.4%	0.0%	2.3%	4.6%	0.0%	14.6%	28.6%	0.0%	19.7%	39.4%	0.0%	
Avoid building houses in areas prone to flooding	6.0%	0.7%	0.0%	1.4%	5.9%	5.5%	6.4%	14.6%	9.5%	20.0%	9.1%	9.1%	9.1%	
Agricultural techniques for water conservation and soil fertility	4.7%	5.0%	7.1%	2.9%	0.0%	0.0%	0.0%	17.1%	33.3%	0.0%	8.3%	16.7%	0.0%	
Reduce fishing costs/improve efficiency to increase earnings	4.7%	4.3%	8.6%	0.0%	3.2%	6.4%	0.0%	17.1%	33.3%	0.0%	3.8%	7.6%	0.0%	
Reduce fish losses along the value chain	3.8%	5.0%	10.0%	0.0%	4.6%	9.2%	0.0%	2.4%	4.8%	0.0%	1.5%	3.0%	0.0%	
Fertilization to mitigate soil nutrient loss	2.6%	2.1%	4.3%	0.0%	0.5%	0.9%	0.0%	4.9%	9.5%	0.0%	6.1%	6.1%	6.1%	
Establish catch limits and avoid harmful equipment	1.7%	1.4%	2.9%	0.0%	3.2%	6.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
I don't know / I have no idea	16.7%	12.1%	5.7%	18.6%	25.1%	15.6%	34.5%	7.3%	0.0%	15.0%	10.6%	6.1%	15.2%	
Number of respondents (N)	532	140	70	70	219	109	110	41	21	20	132	66	66	













As a follow up question, respondents were asked which measures they have implemented in their regular activities, such as fisheries, agriculture, infrastructure. In general, the frequency of those who adopted any kind of measures is to some extent lower than the claimed awareness (table 24).

Table 24: Measures Applied to Minimize Effects of Climate Changes

Measures	General	General Memba			Mossuril			Na	ıcala-a-Ve	lha	Nacala-a-Velha (Reference)		
		Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
Improving house building techniques to withstand cyclones	58.8%	73.6%	84.3%	62.9%	47.0%	50.5%	43.6%	68.3%	71.4%	65.0%	59.8%	51.5%	68.2%
Bank terraces to reduce erosion	21.4%	19.3%	2.9%	35.7%	15.5%	5.5%	25.5%	41.5%	38.1%	45.0%	27.3%	13.6%	40.9%
crop diversification	18.6%	16.4%	24.3%	8.6%	18.3%	36.7%	0.0%	9.8%	14.3%	5.0%	24.2%	34.8%	13.6%
Rainwater collection and storage	18.6%	22.9%	42.9%	2.9%	12.3%	23.9%	0.9%	26.8%	52.4%	0.0%	22.0%	40.9%	3.0%
Avoid building houses in areas prone to flooding	4.3%	0.0%	0.0%	0.0%	5.5%	7.3%	3.6%	9.8%	9.5%	10.0%	5.3%	6.1%	4.5%
Reduce fishing costs/improve efficiency to increase earnings	3.2%	4.3%	8.6%	0.0%	3.7%	7.3%	0.0%	4.9%	9.5%	0.0%	0.8%	1.5%	0.0%
Agricultural techniques for water conservation and soil fertility	2.1%	4.3%	5.7%	2.9%	0.5%	0.0%	0.9%	7.3%	14.3%	0.0%	0.8%	1.5%	0.0%
Fertilization to mitigate soil nutrient loss	1.1%	0.7%	1.4%	0.0%	0.9%	1.8%	0.0%	2.4%	4.8%	0.0%	1.5%	0.0%	3.0%
Reduce fish losses along the value chain	1.7%	2.1%	4.3%	0.0%	1.8%	3.7%	0.0%	2.4%	4.8%	0.0%	0.8%	1.5%	0.0%
Access to better markets and increase fish value/yield	1.7%	1.4%	2.9%	0.0%	2.3%	4.6%	0.0%	0.0%	0.0%	0.0%	1.5%	3.0%	0.0%
Sustainable fishing practices (establish catch limits and avoid harmful equipment)	0.9%	1.4%	2.9%	0.0%	1.4%	2.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Irrigation to reduce dependence on rain	0.2%	0.0%	0.0%	0.0%	0.5%	0.0%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
I don't know / I have no idea	19.9%	13.6%	10.0%	17.1%	29.7%	25.7%	33.6%	7.3%	0.0%	15.0%	14.4%	13.6%	15.2%
Number of respondents (N)	532	140	70	70	219	109	110	41	21	20	132	66	66













Respondents were asked to mention the major challenges they face in farming activities and the most reported ones are: poor access to seeds/seedlings, high incidence of pests \insects, limited access to fishing and farming tools, drought, floods and unpredictable weather (table 25).

Table 25: Main challenges faced by the households in the districts of Memba, Mossuril and Nacala-Velha

Challenges		M emba			Mossuril			Na	ıcala-a-Ve	lha	Nacala-a-Velha (Reference)		
	General	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
Poor access to seeds/seedlings	36.8%	37.1%	34.3%	40.0%	35.2%	42.2%	28.2%	34.1%	33.3%	35.0%	40.2%	28.8%	51.5%
Insects	71.4%	73.6%	98.6%	48.6%	73.5%	93.6%	53.6%	63.4%	95.2%	30.0%	68.2%	92.4%	43.9%
Lack of farming tools	23.7%	25.7%	15.7%	35.7%	19.2%	19.3%	19.1%	43.9%	9.5%	80.0%	22.7%	1.5%	43.9%
Dry	25.4%	24.3%	15.7%	32.9%	23.3%	26.6%	20.0%	24.4%	14.3%	35.0%	30.3%	27.3%	33.3%
Floods	25.9%	14.3%	12.9%	15.7%	19.2%	23.9%	14.5%	24.4%	38.1%	10.0%	50.0%	72.7%	27.3%
Unpredictable weather	3.4%	5.0%	0.0%	10.0%	3.7%	0.0%	7.3%	0.0%	0.0%	0.0%	2.3%	0.0%	4.5%
lack of market	2.1%	0.0%	0.0%	0.0%	2.7%	5.5%	0.0%	7.3%	14.3%	0.0%	1.5%	3.0%	0.0%
Lack of Insecticides	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%	1.5%	0.0%
I don't know	2.6%	1.4%	0.0%	2.9%	5.0%	0.0%	10.0%	2.4%	0.0%	5.0%	0.0%	0.0%	0.0%
Number of respondents (N)	532	140	70	70	219	109	110	41	21	20	132	66	66













More than half respondents (52.4%) have observed a situation of degradation of biodiversity in their community and 44.4% said it resulted in reduction of household income (table 26). Other consequences are navigation accidents due to storms, soil degradation, higher incidence of pests, perceived lower fish stocks.

Table 26: Observed a situation of degradation of biodiversity in their community

Disaggregation		ced HH come	ac du	Boat cidents e to bad eather	hig	Soil degradation, high rates of pests and lack of fish	
General	228	44.4%	I	0.2%	I	0.2%	513
Domain							
Reference	60	45.1%	0	0.0%	I	0.8%	133
Intervention	168	44.2%	I	0.3%	0	0.0%	380
District							
M emba	67	53.6%	0	0.0%	0	0.0%	125
Mossuril	79	36.7%	I	0.5%	0	0.0%	215
Nacala-a-Velha	22	55.0%	0	0.0%	0	0.0%	40
Nacala-a-Velha (Reference)	60	45.1%	0	0.0%	I	0.8%	133
Sex	101	41.9%	0	0.0%	I	0.4%	2 4 1
Female	127	46.7%	I	0.4%	0	0.0%	272
Male							
Age groups	88	44.7%	0	0.0%	I	0.5%	197
Adults (35+)	140	44.3%	I	0.3%	0	0.0%	316
Youth (18-35)	228	44.4%	I	0.2%	I	0.2%	513













Only 25% of respondents have had access to training in coastal marine resource management and adaptation to climate change, with 17% among women (table 27).

Table 27: access to training in coastal marine resource management and adaptation to climate change

Disaggregation	mar	in coastal ment and hange?	Total		
		No			
General	385	75.05%	128	24.95%	513
Domain					
Reference	100	75.19%	33	24.81%	133
Intervention	285	75.00%	95	25.00%	380
District					
Memba	92	73.60%	33	26.40%	125
Mossuril	160	74.42%	55	25.58%	215
Nacala-a-Velha	33	82.50%	7	17.50%	40
Nacala-a-Velha (Reference)	100	75.19%	33	24.81%	133
Sex					
Female	199	82.57%	42	17.43%	241
Male	186	68.38%	86	31.62%	272
Age groups					
Adults (35+)	150	76.14%	47	23.86%	197
Youth (18-35)	235	74.37%	81	25.63%	316













5.2.5 Indicator 2.3.3b: # males and females benefiting from improved water security

In general, slightly more than half respondents (57.7%) affirmed that their communities have access to water for drinking, domestic use and for farming, with lowest percentage in intervention communities of Nacala-a-Velha (39.0%), as shown in table 28.

Table 28: Consistent access to water for drinking, domestic use and for farming

Disaggregation	No	I'm not	Yes	Total
		sure		
General	42.1%	0.2%	57.7%	532
Domain				
Reference	25.0%	0.0%	75.0%	132
Intervention	47.8%	0.3%	52.0%	400
Distrito				
Memba	52.1%	0.0%	47.9%	140
Mossuril	42.5%	0.5%	57.1%	219
Nacala-a-Velha	61.0%	0.0%	39.0%	41
Nacala-a-Velha (Reference)	25.0%	0.0%	75.0%	132

About 82.3% of respondents claim to have enough food for each of the daily meals (3) and 17.7% said they don't. The results seem consistent across the districts with differences not exceeding 10% percent, and the same is true when comparing young and adult respondents. The surprising result is that 100% of female respondents said yes and 64.7% male respondents said no. It could be that female respondents said yes, because women normally do anything to have food on the table, especially for children, however these responses may not have considered quality of meals (table 29).

Table 29: Respondents claiming to have enough food for each of the daily meals

Disaggregation	No	Yes	Total
General	17.7%	82.3%	532
Domain			
Reference	18.2%	81.8%	132
Intervention	17.5%	82.5%	400
Distrito			
Memba	16.4%	83.6%	140
Mossuril	19.6%	80.4%	219
Nacala-a-Velha	9.8%	90.2%	41
Nacala-a-Velha (Ref.)	18.2%	81.8%	132
Sex			
Female	0.0%	100.0%	266
Male	35.3%	64.7%	266
Age groups			
18 - 35	18.5%	81.5%	313
>35	16.4%	83.6%	219















5.3 BASIC NECESSITIES SURVEY (BNS)

The BNS (Basic Necessities Survey) is a way to assess family wellbeing. It is based on the premise that some families lack basic necessities, and families themselves are best able to decide what is or is not a basic necessity. By asking communities to define what goods and services are necessary for a family to meet their basic needs, it measures changes in wellbeing in a fast, easy replicable, and most importantly locally meaningful way. The BNS was conducted in two phases, namely: (i) Listing the goods and services regarded by communities as of basic needs, then (ii) actual survey of sampled population to assess percentage of ownership of goods and services regarded as of basic needs.

5.3.1 Listing Basic Goods of Services

The consultants visited twelve (12) communities of which four (4) in Memba, six (6) in Mossuril and two (2) in Nacala-Velha. The number of communities were allocated proportionally to the number of communities within intervention area per district (table 30). The communities visited were chosen purposely to represent most and less developed zones, based on noticeable conditions such as road access, proximity with greater markets, economic activities. In each administrative posts one community developed and one less developed were chosen, with assistance of ADPP and WCS team members.

Table 30: Villages Sampled for Listing of Basic Needs Goods and Services

Districts	Administrative posts	Communities		
	Memba-sede	Fungo		
Memba	i ieiiiba-sede	Nathaca		
riemba	Niaca	Geba		
	INIdCa	Napila		
	Mossuril-sede	São João		
	i iossui ii-sede	Cabaceira grande		
Mossuril	Lungo	Lapuela		
1,102201.11	Lunga	Mutomonho		
	Matibane	Anduce		
	Maudane	Krussi		
Nacala-a-Velha	Nacala-a-Velha	Mussenqua		
i nacaia-a-veina	inacaia-a-veina	Pangane		













The listing exercise was conducted through 12 sessions of focus group discussions, with the following steps:

- 1) Participants were split in smaller groups of 6-8 people, namely: (i) group of young women, (ii) adult women, (iii) young men, (iv) adult men.
- 2) The facilitator provided the participants with flipcharts and stickers, of different colors for the four subgroups, and asked them to individually write the goods and service they perceive as of basic needs and stick on the flipchart.
- 3) When every group had finished listing the basic goods and services, then all participants were brought together and grouped all strikers of the four colors, form the different subgroups, young women, adult women, young men, adult men. The strikers were laid on the table and the participants discussed in plenary, to classify the goods and services in five categories, shown below (table 31).

Table 31: BNS Goods and Services Categories

N°	Criteria definition
Category I	Items everyone thinks are basic necessities and everyone has (or has access to).
Category 2	Items everyone thinks are basic necessities, around half of all people have, but
	everyone will get as they become richer and services improve.
Category 3	Items everyone thinks are basic necessities, but only some people have, and
Category 5	many may get as they become richer and services improve.
	Items some people thought were basic necessities, which may increase in
Category 4	importance in the future. These are items people in wealthier towns might
	consider basic necessities.
Category 5	Items almost no one thought were basic necessities, and only some people in
Category 5	big towns cite as basic necessities.

4) Compilation of the final list of 32 most reported goods and services. The final list of 32 most reported goods and services was compiled out of lists from all twelve visited communities. The frequencies were calculated in SPSS, the goods and services were laid in order from most to less frequent. Then six were picked from category 1, 2 and 3, then seven were picked from each of the other criteria, as shown in the table below (table 32).













Table 32: Compilation of Final List of 33 Goods and Services

Category I	Category 2	Category 3	Category 4	Category 5
Save drinking water within a 15-minute walk	Access to tailoring	Fishing net h		Private pharmacy
Hoe	machete	Freezer / Fridge	Motorboat	police station
Health services	Ax	access to school	Plasma	Fan
Miller within the community	Farming land	TV	Bicycle	wooden bed
Mosque within the town	Telephone	Electrical energy	Job	Clock
Market within the locality	zinc coating	Improved/slab latrine	motorbike	Goats
			Kindergarden	oxen

5.3.2 BNS Survey and Findings

The compiled list of 32 BNS goods and services, were included in the BNS survey along with a question if the respondent considered each of them of basic need. A total of 554 people (278 female and 276 male) responded to the BNS query. Data analysis and calculation of the well-being index, as per following steps:

- ✓ First, the weight of each item was calculated, that is, the percentage of people who declared that whether the items really constituted a basic need.
- ✓ All 32 goods and services had a weight > 50% of respondents who regarded as ones of basic needs, thus the list of 32 items were validated for the calculation of the well-being index.
- ✓ For each of the 32 items, the frequency of answer to the question "has/has access" was multiplied "By the weight", mentioned above. The sum of this multiplication generated the household welfare score. Then, the maximum score was calculated, which is the sum of the weights of all items on the list.
- ✓ Finally, the well-being score was divided by the maximum score, thus giving the household well-being index. This calculation was performed automatically by the online database, using Excel.

More details, on BNS calculation, can be found in the Guide 2.0 To The Modified Basic Necessities Survey, (WCS 2018), available at Guide 2.0 to the Modified Basic Necessities Survey: Why and How to Conduct Digital-Based BNS in Conservation Landscapes - Detoeuf, D.; Wieland, M.; Wilkie, D. (wcs.org).















Table 33: Frequency of ownership or access to basic goods and services

	Overal	I BNS				
Number Basic Necessitie	es	Have n Yes = 1, N	-	Weigh (% of new vote	cessity	Well-being score (own it * weighting)
I Access to drink	ing water within a 15-minute walk?	412	0,744	554	1,000	0,744
2 Hoe		512	0,924	548	0,989	0,914
3 Access to health	n services in the community	263	0,475	547	0,987	0,46
4 Access to millin	g services within the community	147	0,265	543	0,980	0,26
5 Access to the m	nosque within the community	523	0,944	540	0,975	0,92
6 Market access v	vithin the community	292	0,527	550	0,993	0,52
7 Access to tailor	ing services within the community	421	0,760	531	0,958	0,72
8 Machete		363	0,655	532	0,960	0,62
9 Ax		187	0,338	526	0,949	0,32
10 Farming land		539	0,973	549	0,991	0,96
II Zinc coating		166	0,300	530	0,957	0,28
12 Fishing net		147	0,265	496	0,895	0,23
13 Freezer or Frid	ge	25	0,045	487	0,879	0,04
14 Access to school	ol	372	0,671	508	0,917	0,61
I5 TV		64	0,116	499	0,901	0,10
I6 Telephone		343	0,619	527	0,951	0,58
17 Electrical energ	у	211	0,381	544	0,982	0,37
18 Improved/slab la	atrine	113	0,204	543	0,980	0,20
19 Block house		48	0,087	527	0,951	0,08
20 Motorboat		18	0,032	467	0,843	0,02
21 Plasma		25	0,045	415	0,749	0,03
22 Bicycle		33	0,060	476	0,859	0,05
23 Job		15	0,027	533	0,962	0,02
24 Motorbike		76	0,137	516	0,931	0,12
25 Acess to Kinder	rgarden	48	0,087	457	0,825	0,07
26 Access to private	te Pharmacy within your locality	50	0,090	533	0,962	0,08
27 Access to police	e station	92	0,166	522	0,942	0,15
28 Fan		15	0,027	424	0,765	0,02
29 wooden bed		168	0,303	529	0,955	0,29
30 Wall clock		12	0,022	428	0,773	0,01
31 Goat		53	0,096	503	0,908	0,08
32 Oxen		П	0,020	413	0,745	0,01
Number of de respondents	(N)	554				
Maximu	ım score = Sum(C2:C33)				29,417	
Household's V	Vell-being score= Sum(CD:D33)					10,01
Household's Well-being in	dex (=Household's Score / Maximum Score)					34,03%















FUTURO	Wildlife Conserv Society	ration 🛕	P	nbique water	o Nadocal de Investigação Pes queira	ProAzul	UNIVERSIDADE E D U A R D O MONDLANE	an	na 🧖	biofu Pandagão para a Omescrapija da	nd Disdressidade	
				Intervent	ion area			С	omparison	area		
			Weighting			Well-being score			Weighting		Well-being	
		Have now		(% of necessity		(own it *	Have now		(% of necessity		score	
Number	Basic Necessities	Yes = I, No = 0		vot		weighting)	Yes = I, No = 0		votes)		(own it *	
	Access to drinking water					0 0/						
ı	within a 15-minute walk?	320	0,760	421	1,000	0,760	92	0,692	133	1,000	0,692	
	Hoe	396	0,941	418	0,993	0,934	116	0,872	130	0,977	0,85	
	Access to health services in											
3	the community	198	0,470	416	0,988	0,465	65	0,489	131	0,985	0,48	
	Access to milling services											
	within the community	113	0,268	417	0,990	0,266	34	0,256	126	0,947	0,24	
	Access to the mosque within		.,			.,		.,			,	
	the community	400	0,950	411	0,976	0,928	123	0,925	129	0,970	0,89	
	Market access within the	100	0,730		0,770	0,720	123	0,723	127	0,770	0,07	
		257	0 4 10	419	0 00F	0.400	25	0.262	121	Λ 00Γ	0.35	
	Community	25/	0,610	417	0,995	0,608	35	0,263	131	0,985	0,25	
	Access to tailoring services	3.6	0.055	4.5	0.00:			0.450				
	within the community	360	0,855	413	0,981	0,839		0,459	118	0,887	0,40	
	Machete	282	0,670	414	0,983	0,659		0,609	118	0,887	0,54	
	Ax	150	0,356	407	0,967	0,344		0,278	119	0,895	0,24	
10	Farming land	413	0,981	418	0,993	0,974	126	0,947	131	0,985	0,93	
П	Zinc coating	123	0,292	412	0,979	0,286	43	0,323	118	0,887	0,28	
12	Fishing net	111	0,264	374	0,888	0,234	36	0,271	122	0,917	0,24	
13	Freezer or Fridge	17	0,040	377	0,895	0,036	8	0,060	110	0,827	0,05	
	Access to school	273	0,648	379	0,900	0,584		0,744	129	0,970	0,72	
	TV	39	0,093	387	0,919	0,085	25	0,188	112	0,842	0,15	
	Telephone	254	0,603	408	0,969	0,585	89	0,669	112	0,895	0,13	
	•		- 1									
	Electrical energy	152	0,361	416	0,988	0,357	59	0,444	128	0,962	0,42	
	Improved/slab latrine	77	0,183	415	0,986	0,180		0,271	128	0,962	0,26	
	Block house	29	0,069	409	0,971	0,067	19	0,143	118	0,887	0,12	
20	Motorboat	15	0,036	359	0,853	0,030	3	0,023	108	0,812	0,01	
21	Plasma	20	0,048	305	0,724	0,034		0,038	110	0,827	0,03	
22	Bicycle	28	0,067	366	0,869	0,058	5	0,038	110	0,827	0,03	
23	Job	13	0,031	407	0,967	0,030	2	0,015	126	0,947	0,01	
24	Motorbike	61	0,145	401	0,952	0,138	15	0,113	115	0,865	0,09	
25	Acess to Kindergarden	45	0,107	337	0,800	0,086	3	0,023	120	0,902	0,02	
	Access to private Pharmacy											
26	within your locality	37	0,088	403	0,957	0,084	13	0,098	130	0,977	0,09	
27	Access to police station	72	0,171	397	0,943	0,161	20	0,150	125	0,940	0,14	
	Fan	- 11	0,026	317	0,753	0,020			107	0,805	0,02	
	wooden bed	125	0,297	414	0,983			0,323	115	0,865		
	Wall clock	11	0,026	324	0,770			0,008	104	0,782		
	Goat	50	0,119	388	0,922			0,023	115	0,865	0,02	
	Oxen	9	0,117	310	0,722			0,025	103	0,774		
	of de respondents (N)	421	0,021	310	0,736	0,016	133	0,013	103	0,774	0,01	
		421			20 52 1		133			20.0==		
	mum score = Sum(C2:C33)				29,594					28,857		
Hous	ehold's Well-being score=											
	Sum(CD:D33)					10,268					9,22	
	sehold's Well-being index											
=Househ	nold's Score / Maximum Score)					34,70%					31,969	













The overall BNS was 34%, the maximum score 29.42 and the household welfare score 10. It was noted that there was a slight difference between the comparison and intervention zones. Between these two zones, there was a difference of 2.74% in the BNS, being the intervention zone with the highest index (table 34).

Table 34: BNS - Social Welfare Index

Disaggregation	Maximum score	Score of Househol d Welfare	Household Well-Being Index	Total respondent s (N)
General	29.417	10.011	34.03%	554
Zone Type				
Intervention Zone	29.594	10.268	34.70%	421
Reference	28.857	9.222	31.96%	133
Districts				
Memba	29.612	9.782	33.03%	152
Mossuril	29.676	10.822	36.47%	225
Nacala-a-Velha	29.114	9.150	31.43%	44
Nacala-a-Velha (Reference)	28.857	9.222	31.96%	133
Gender (respondent)				
Women	29.371	9.880	33.64%	278
Men	29.464	10.153	34.46%	276
Gender (Head of AF)				
Women	28.762	8.708	30.28%	84
Men	29.534	10.254	34.72%	470
Age group				
Adults (35+)	29.482	10.517	35.67%	255
Young people (18-35)	29.361	9.583	32.64%	299

Female respondents and households headed by women had a lower rate than men, and in fact, according to data from focus groups and informants, men are more engaged in economic activities in relation to women, which allows them to have greater purchasing power for some goods and have access to essential services. As for age, young people had a low rate (32.6%) compared to adults (35.7%). This can be associated with the fact that this layer is still in a phase of instability, it was noted that adults have more economic power in relation to adults and for the most part they are the ones who control the most resources, which allows them greater access to essential services and goods. The district of Mossuril had the highest index (36.5%), followed by Memba (33.0%), the intervention area in Nacala-a-Velha had the lowest index (31.4%). Apparently, the district with the highest index (Mossuril) is more developed in socioeconomic terms, of the 3 districts under study (table 42).















5.4 LAND TENURE

Conflict over land is a common issue in development or implementation of conservation projects. Respondents were asked how they perceive security in access to community land in their villages, especially community ownership of land that have not yet been allocated or entitled to specific people or households. More than half (52.5%) are insecure about community land tenure, because they allegedly have lost portions of their community land or they fear future threats that may result in loosing lands (table 35). Asked about the source of threats they perceive which lead to loss of community land, they mentioned: government decisions, investors, community leaders.

Table 35: Respondents who report insecurity about ownership of community land

,	Frequency of	, ,
Disaggregation	Respondents who feel insecure	Total
General	52.5%	554
Domain		
Reference	61.7%	133
Intervention	49.6%	421
District		
Memba	44.7%	152
Mossuril	52.9%	225
Nacala-a-Velha	50.0%	44
Nacala-a-Velha (Reference)	61.7%	133
Sex		
Female	46.8%	278
Male	58.3%	276
Age groups		
18 - 35	61.2%	255
>35	45.2%	299













Further on, the interviewees were asked about their perception of security in relation to their family's land tenure. The same way respondents perceive threats under community land, about more than half (65.0%) stated that they are worried to some extent on the land tenure of their families (table 36).

Table 36: Respondents reporting insecurity about family land tenure

, ,	Frequency of	
Disaggregation	Respondents who feel insecure	Total
General	65.0%	554
Domain		
Refrence	69.9%	133
Intervention	63.4%	421
District		
Memba	63.8%	152
Mossuril	64.9%	225
Nacala-a-Velha	54.5%	44
Nacala-a-Velha (Reference)	69.9%	133
Sex		
Female	50.0%	278
Male	80.1%	276
Age groups		
18 - 35	70.2%	255
>35	60.5%	299













Respondents were asked to state how they reach about the following statement: "Women should have the same access as men to social, economic and political resources and opportunities". In general, 81% agree and 13% disagree, 6% are not sure. Results across districts are consistent between 11-13% of disagreement, except for Nacala-a-Velha where about 25% respondents said they disagree with the above statement of equal rights for women and men. Close look on the data, reveal that those who disagree are mostly males (25% males and 1% female), equally shared by young and adults (table 37).

Table 37: Respondents perception about equal right of access for women and man

Disaggregation	Fully agree	Agree	Neutral	Disagree	Totally disagree	Total
General	49.3%	32.1%	7.9%	5.1%	5.6%	554
Domain						
Reference	53.4%	33.1%	6.8%	6.0%	0.8%	133
Intervention	48.0%	31.8%	8.3%	4.8%	7.1%	421
District						
Memba	53.9%	29.6%	9.2%	2.0%	5.3%	152
Mossuril	44.9%	34.2%	6.2%	5.8%	8.9%	225
Nacala-a-Velha	43.2%	27.3%	15.9%	9.1%	4.5%	44
Nacala-a-Velha (Reference)	53.4%	33.1%	6.8%	6.0%	0.8%	133
Sex						
Female	43.9%	50.0%	1.4%	0.0%	4.7%	278
Male	54.7%	14.1%	14.5%	10.1%	6.5%	276
Age groups						
18 - 35	51.4%	31.0%	8.6%	3.9%	5.1%	255
>35	47.5%	33.1%	7.4%	6.0%	6.0%	299















A follow up question was asked to respondents, to state their reaction to the following statement: "Women should be able to own and control land and resources in their own name". About 81% stated that they agree, 14% disagree and 5% are unsure. Among intervention areas, Nacala-a-Velha intervention area had the higher percentage of respondents who disagreed (23%), followed by Mossuril (13%) and Memba (10%). Almost all those who disagreed were male respondents (26% compared to 1% female) and also those who were unsure are mainly male (7% compared to 3% of female). The opinion against women's right of land entitlement was shared by both young males (14% disagreed and 6% are unsure) and adult males (13% disagreed and 4% are unsure) (table 38).

Table 38: Respondents perception about women's right of land entitlement and control

Disaggregation	Fully agree	Agree	Neutral	Disagree	Totally disagree	Total
General	37%	45%	5%	7%	7%	554
Domain						
Reference	34%	50%	1%	8%	8%	133
Intervention	38%	43%	6%	7%	6%	4 21
District						
Memba	38%	43%	9%	6%	4%	152
Mossuril	39%	43%	4%	6%	8%	225
Nacala-a-Velha	30%	43%	5%	16%	7%	44
Nacala-a-Velha (Reference)	34%	50%	1%	8%	8%	133
Sex						
Female	64%	33%	3%	1%	0%	278
Male	9%	57%	7%	13%	13%	276
Age groups						
18 - 35	35%	49%	4%	7%	6%	255
>35	38%	41%	6%	7%	7%	299













About 27.8% of respondents stated that they have experienced land conflicts (some respondents shared more than one conflict), such as over limits/boundaries (19%), entitlement (6%) and right of use of land (5%), as shown in table 39. To mention some examples: (i) In Lunga, there are reportedly conflicts over access to the fishing zone; (ii) In Mossuril, land conflicts over the ars of the beach of Chocas Mar, were reported, where alegadely the owner sold to two buyers; (III) There are also conflicts related to the invasion of goats in someone else's territory (machambas), in these cases the SDAE meets with the parties to enter into agreements and refund the damages.

Table 39: Frequency of Land Conflict Ever Experienced by Respondents

rable 37. Frequency of Land Conflict Ever Experienced by Respondents						
Disaggregation	•	Experienced Conflicts?		use of Dispu	Total de	
Disaggregation	No	Yes	Limits	Entitlement	Right of Use	respondents (N)
General	72.2%	27.8%	19%	6%	5%	55 4
Domain						
Reference	55.6%	44.4%	32.3%	3.8%	10.5%	133
Intervention	77.4%	22.6%	14.7%	6.2%	3.3%	421
District						
Memba	80.9%	19.1%	14.5%	3.3%	2.0%	152
Mossuril	79.6%	20.4%	13.3%	7.1%	1.8%	225
Nacala-a-Velha	54.5%	45.5%	22.7%	11.4%	15.9%	44
Nacala-a-Velha (Reference)	55.6%	44.4%	32.3%	3.8%	10.5%	133
Sex						
Female	87.8%	12.2%	7.9%	3.6%	1.8%	278
Male	56.5%	43.5%	30.1%	7.6%	8.3%	276
Age groups						
18 – 35	68.2%	31.8%	21.6%	7.1%	4.7%	255
>35	75.6%	24.4%	16.7%	4.3%	5.4%	299

The 154 respondents who reported experiences of land conflicts were asked how the dispute was resolved. Nearly half (48.1%) said that the number of conflicts are resolved among the parties involved with help of friends, neighbors or relatives, then follows resolution among parties in dispute with no intervention or other (36.4%).















Just 19.5% of reported land conflicts were resolved with assistance/mediation of local leaders and few (8.4%) with government intervention. These may be opening space for continued conflicts or even systematic violation of the law, in favor of people with power over other members of the community. In fact, 39 out of 155 conflicts shared respondents, had not been resolved until the date of the survey. This is critical, in a context where most people have no formal land entitlement and 85.8% of respondents said they believe that communities have capacity to resolve land conflicts its own (table 40). This could also indicate lack of information of existing institutions and more secure procedures for land conflict resolution.

In Lunga, there are reportedly conflicts over access to the fishing zone. In Mossuril, land conflicts are observed on the beach of Chos Mar, where the owner sells to two buyers, however, it is up to the SDPI (District Infrastructure Services) to manage this type of conflict. With regard to land, there are also conflicts related to the invasion of goats in someone else's territory (machambas), in these cases the SDAE meets with the parties to enter into agreements and refund the damages.

Table 40: How Land Conflict Were Resolved

Tuble 40. I low Land Con	THEE TYEIC RESULT				
Disaggregation	Helped by friends, relatives)	Between the parties involved (no mediation)	Local authorities intervened	Government intervened	Total respondents (N)
General	48.1%	36.4%	19.5%	8.4%	154
Domain					
Reference	54.2%	39.0%	6.8%	5.1%	59
Intervention	44.2%	34.7%	27.4%	10.5%	95
District					
Memba	34.5%	27.6%	48.3%	10.3%	29
Mossuril	39.1%	41.3%	26.1%	10.9%	46
Nacala-a-Velha	70.0%	30.0%	0.0%	10.0%	20
Nacala-a-Velha (Reference)	54.2%	39.0%	6.8%	5.1%	59
Sex					
Female	35.3%	26.5%	38.2%	5.9%	34
Male	51.7%	39.2%	14.2%	9.2%	120
Age groups					
18 - 35	49.4%	34.6%	19.8%	9.9%	81
>35	46.6%	38.4%	19.2%	6.8%	73

Note: Some respondents reported on more than one conflict and so the resolution, thus the total might exceed 100% is some cases.















Asked how they characterize women's current level of influence in community land decisionmaking over community land issues, about 40.8% said women have no influence, other 43.5% stated that women had some, but limited influence compared to men. Among female respondents more than half (54.3%) stated that women have no influence and 30.6% said women have less influence is decision making about community land (table 41).

Table 41: Women Influence of Community Decision Making Over Community Land

	Terree of Commit	,		,		
Disaggregation	Have more influence than men	Have the same level of influence as men	Not sure	Have less influence than men	Have no influence	Total
General	2.2%	8.3%	5.2%	43.5%	40.8%	55 4
Domain						
Reference	1.5%	5.3%	3.0%	39.1%	51.1%	133
Intervention	2.4%	9.3%	5.9%	44.9%	37.5%	421
District						
Memba	1.3%	11.2%	2.0%	47.4%	38.2%	152
Mossuril	3.1%	8.9%	8.0%	44.0%	36.0%	225
Nacala-a-Velha	2.3%	4.5%	9.1%	40.9%	43.2%	44
Nacala-a-Velha (Reference)	1.5%	5.3%	3.0%	39.1%	51.1%	133
Sex						
Female	1.4%	7.6%	6.1%	30.6%	54.3%	278
Male	2.9%	9.1%	4.3%	56.5%	27.2%	276
Age groups						
18 - 35	2.0%	11.4%	6.7%	42.4%	37.6%	255
>35	2.3%	5.7%	4.0%	44.5%	43.5%	299















Concerning current level of influence of women in decision-making on family lands, the responses were like those regarding community lands. About 38.3% said women have no influence, 47.7% said women have less influence compared to men. About 49.3% of female respondents stated that women have no influence and 34.9% said women has limited influence compared to men. Again, this is critical, especially because 85.8% of respondents still believe that communities have capacity to resolve land conflicts on their own (table 42). This might be playing a critical role in perpetuating gender imbalance in decision making over access and use of land, both at community and family level.

Table 42: Women Influence of Community Decision Making Over Family Land

Disaggregation	Have more influence than men	Have the same level of influence as men	Not sure	Have less influenc e than men	Have no influenc e	Total
General	3.2%	7.9%	2.9%	47.7%	38.3%	554
Domain						
Reference	0.8%	7.5%	0.8%	42.9%	48.1%	133
Intervention	4.0%	8.1%	3.6%	49.2%	35.2%	421
District						
Memba	1.3%	7.2%	1.3%	57.9%	32.2%	152
Mossuril	5.8%	8.9%	4.9%	44.4%	36.0%	225
Nacala-a-Velha	4.5%	6.8%	4.5%	43.2%	40.9%	44
Nacala-a-Velha (Reference)	0.8%	7.5%	0.8%	42.9%	48.1%	133
Sex						
Female	5.0%	8.3%	2.5%	34.9%	49.3%	278
Male	1.4%	7.6%	3.3%	60.5%	27.2%	276
Age groups						
18 - 35	2.7%	9.0%	4.7%	46.3%	37.3%	255
>35	3.7%	7.0%	1.3%	48.8%	39.1%	299















5.5 VULNERABILITY MATRIX

Participants in the FGD in Memba, Mossuril, and Nacala-a-Velha mentioned the main livelihood activities they rely on and identified the hazards each one is exposed to, by scoring I (none), 2 (low), 3 (medium), 4 (high) and 5 (very high), as shown in table 43). The feedback shows that the most important hazards are floods, droughts, strong winds / cyclones, erosion, sea level changes, salinization of boreholes water.

Table 43: Livelihoods and Climate Hazards

Table 13. Livelinoods and	d Ommaco i	.aza.go				
Livelihood activities	Floods	Drought	Strong winds/cyclones	Erosion	Sea level changes	Salinization of boreholes water
Fishing	5.0	4.7	5.0	2	4.7	I
Collection of marine species	5.0	5.0	5.0	2	4.0	I
Agriculture						I
Cereals	5.0	5.0	5.0	3	1.3	I
Vegetables	5.0	5.0	5.0	3	1.3	2.0
Vegetables	5.0	5.0	5.0	3	1.3	2.3
Fruits	5.0	5.0	5.0	3	1.5	2.5
Business	5.0	3.0	5.0	I	1.0	I
Firewood/coal cutting	5.0	1.0	5.0	I	1.0	I
Animal child	5.0	5.0	3.5	I	1.0	2
Forests – building materials/handicrafts	5.0	3.5	4.5	3	1.0	I
Craft	5.0	I	3.0	I	1.0	I

Impacts: I. None, 2. Low, 3. Medium, 4. High, 5. Very High















5.6 HISTORICAL TIMELINE OF CLIMATE HAZARDS EVENTS

Participants of FGD of Memba, Mossuril and Nacala-a-Velha, were asked to recall historical events in the past decades, and record climate hazards per year. The analysis of historical occurrences of extreme weather events in the three districts covered by the study shows that these communities have been affected by frequent heavy rains and strong winds/cyclones are followed by drought/irregular rains (table 44).

Table 44: Historical timeline of climate hazards events

	iscorrear carrenire of					
M	Mossuril		emba	Naca	Nacala-a-Velha	
2023	Heavy rains	2023	Pests, Cyclones, heavy rains	2023	Heavy rains	
2022	Cyclone, floods	2021 e 2022	Covid-19. War	2022	Hunger, heavy rains and winds	
2020	Dry	2020	Flooded, dry			
2019	Wildfires	2018	Cyclone and heavy rains	2018	Rains	
2016	Dry					
2015	Earthquake	2015	Dry			
1994 e 2008	Hurricane	1999	Strong winds	1994	Hurricane	
1986	Wars	1994	Cyclone and heavy rains		Heavy rains	















5.7 RESOURCE & HAZARD MAPPING

These climatic events have a great impact on the main economic activities, such as fishing, farming, marine and forest resources use, as well as on the availability of water for consumption. The table 45 below shows how climate hazards impact the habitats or natural resources, that are important for communities' livelihoods.

Table 45: Effect of Hazards in Habitats or Resources Communities Rely on

Main natural resources/habitats	Climate hazards	How is each of the habitats/recourses affected by climate disasters?
	Increased temperature of sea water	Fish take refuge in cold waters far away;
	Heavy rainfall, erosion, sediment transport to the sea, reduced salinity and increased water turbidity and poor visibility	Those who collect, notice that some species disappear
Sea	Fresh water from rivers flows into the sea	Warming creates the death of marine species and species tend to move to cold areas or zones or move to the bottom of the sea Reduction of salinity on the coast water
	Drought	The species go to the bottom and far away from the coast, they die, the seagrass dies or is completely burned, causing the species not to reproduce, the seagrass becomes withered and the species end up taking refuge or living in inappropriate places.
Agriculture	Strong winds/cyclones/discharging electrics	The strong winds destroy the fields, the crops are all destroyed and the plants uprooted and the fruits lying on the ground.
	Droughts	They cause erosion and in cases of drought crops are burned;















Main natural resources/habitats	Climate hazards	How is each of the habitats/recourses affected by climate disasters?
	Pests (insects, lizards and wild animals)	Electrical discharges cause trees to fall and crops to burn
	High temperatures	Droughts meant that there was no production in the fields, but also changes in heavy rains meant that the fish moved to great depths;
	Rising temperatures and droughts	Total loss or low yield
Drinking water	Droughts	Low germination, growth and production Water depth increases, most water holes tend to dry up, especially in September, October, November and a little in December. Water pump malfunctions
	Heavy rains	Water pumps/boreholes sedimentation or colapse
Forests (firewood, charcoal, building	Strong winds	Strong winds destroy the furnaces, causing the charcoal to ignite more or too much and turn to ash.
materials)	Thunderstorms	People cannot stay in the forests or in the woods, in times of thunderstorms and strong winds.
Salt	Heavy rain/floods	Rainy seasons - people completely run out of salt in the salt pans, due to the intense and heavy rains.
Raising animals (raising poultry and	High temperatures, Droughts	Death of poultry, because of excess sun has had an epidemic called theme.
goats)	Heavy rains and cyclones	Animal deaths due to severe cold or strong wind















5.8 SEASONAL CALENDAR

FGD participants create a seasonal calendar of their main productive activities throughout the year, correlating the seasons of the year, based on rainfall, temperature and wind factors. Then it was discussed to what extent this seasons calendar has changed over the last few decades, as well as how this have been affecting the calendar of productive activities (table 46).

Table 46: Seasonal Calenda

Livelihood activities	Janary	Febr	March	Abril	May	June	July	Aug	Sept	Oct	Nov	Dec
Seasons												
Rains	4.5	5.0	3.3	2.5	1.8	1.3	1.3	1.0	1.3	1.3	1.8	4.0
Strong winds	1.0	1.5	5.0	4.0	3.0	4.0	3.5	2.5	2.5	1.0	1.0	1.0
Temperature	4.8	4.8	4.3	2.5	2.0	2.0	2.3	2.8	3.3	4.5	4.5	5.0
Fishing	5.0	3.5	3.5	3.0	3.0	2.5	2.0	2.0	2.5	3.5	3.5	4.5
Agriculture	4.8	4.8	4.0	4.0	4.0	4.0	2.8	2.3	2.3	2.5	3.8	4.8
Collection of marine species	2.0	2.0	2.0	3.5	3.5	3.5	3.0	3.0	2.5	2.5	2.5	2.5
Business	2.0	2.0	2.3	3.0	3.5	4.0	4.0	3.3	3.7	3.8	4.0	3.8
Firewood/coal cutting	2	2	2	2	3	3	4	5	5	5	5	4

I.None, 2. Low, 3. Medium, 4. High, 5. Very High













Participants in the FGD sessions reported a series of changes they have observed over the last few decades, most of which were related to climate change. They also described other changes in the exploitation of resources associated with the increasing demand and commercialization of marine resources. The following are the major changes reported:

- ✓ In the past, the rains fell in November and December, lasting until January and February and they harvested earlier (January and February), being able to skip the second sowing and still harvest. Now the rain starts later and falls for a shorter period (January-February).
- ✓ Before they had very cold months, but lately they have a longer period of the year. The hot season lasts longer without rain.
- ✓ The agricultural calendar has changed a lot...they already have to wait and sow in December or January to February. And sometimes the rain hasn't been enough because now it rains very little and the crops don't grow as they should.
- ✓ Now agricultural production is very threatened by pests and diseases that affect their products in the fields. High temperatures burn plants and lower production, and cyclones are more frequent.
- ✓ There is a lot of deforestation in the woods now... too much and no replacement of trees... in the past this phenomenon was safeguarded with replacement of trees... lately everyone has a license to sell charcoal.
- ✓ Before there was no excessive cutting of the mangrove and the natural replacement of the mangrove trees always took place.
- ✓ Lately, the tides invade the shores, taking with them some species that they put to dry even far from the beaches.
- ✓ Before the number of fishermen was smaller than today and they used simple techniques and they managed to obtain normal catches throughout the year, now in addition to climate changes, the number of fishermen has also increased, with motorized boats, with increasingly diversified techniques (some harmful) and as a result, there are months when catches are very low.
- ✓ The business of selling fish has changed a lot in recent years... even those who live close to the sea also buy fish, but in the old days they all had a lot of opportunity to eat fish.
- ✓ They are about to live the end of the world, nowadays God is sending the storms just as man is born and plants die too.
- ✓ Before, the business of selling crackers, sugar, rice, etc. it was made by very powerful people, but now there are conditions for everyone, and they can all do it themselves.
- ✓ The tinsmith/ironwork business has changed... in the past there were many things made of tin and people, as soon as they got damaged, sent them to tinsmiths, now everyone uses things made of glass.















5.9 Effects of Climate Change/Extreme Events in Livelihoods and Response

After identifying habitats and hazards, participants were engaged in discussions about impacts of hazards in livelihoods and the responses provided (table 47).

Table 47: Effects of Climate Change/Extreme Events in Livelihoods and Responses

Activity	Impacts on Livelihood	Responses
In fishing:	Fish tend to be scarce in periods of heavy rain, strong winds/cyclones and very high temperatures, given that: Marine species move away from the coastal zone to more distant and deeper areas; Fishermen do not have properly equipped vessels to reach the high seas; Fishermen are limited to fishing on days with high waves, given the danger of navigation and the risk of destroying their vessels.	 ✓ The small species are left. They are forced to fish with nets of coarse mesh; do not catch small-sized fish; avoid surface trawling so as not to drag growing species including eggs; not to use mosquito nets for fishing; do not remove the sea weeds because they are areas where the species reproduce. They avoid using surface trawling such as mosquito nets, which carry very small species that are in the reproduction phase. ✓ These species are not captured during reproduction times and opt for hook fishing. They preserve the rocks where the species reproduce. They use 2" to 3" (inch) nets, but also opt for bottom fishing with fishing guns, only killing larger or larger species. ✓ The small quantities they catch as soon as they have no buyers are put out to dry. ✓ They comply with the ban period; ✓ They advise not to cut mangrove trees, because they serve as a place where fish to reproduce eggs, and the disappearance of mangroves can create serious environmental problems and decline. ✓ Go fishing at night; ✓ They do fishing with traps in times of strong winds; ✓ They resort to other types of activities, agriculture and they do small businesses, they















Activity	Impacts on Livelihood	Responses
		make cookies for their subsistence in their homes. ✓ Men are going to do odd jobs.
In agriculture and food	Systematic losses of crops by: Poor germination or growth due to irregularity or insufficient rainfall; Pests and diseases; ✓ Destruction by cyclones; ✓ Destruction by floods;	 ✓ Conservation agriculture; ✓ Seed selection of climate-adapted varieties; ✓ In agriculture: they separate the seeds in conditions to guarantee the following season; they fertilize the soil with grass and must always turn it over to ensure its fertility; ✓ Some products conserve in granaries. ✓ Cultivate in minimally high zones; ✓ Bet on some cultures in the low rivers like rice; ✓ Sow or plant small grass on the shores of the beaches ✓ Make paths for the drainage of water; ✓ Create barriers with sandbags so as not to directly affect the fields; ✓ Instead of fish like curry, they adapt eating leaves of sweet potato leaves, cassava and other; ✓ They had to buy food, which they should produce ✓ Offer of food by family members. ✓ They resort to odd jobs in the farms, paid for food
Raising animals (raising poultry and goats)	Death of animals, due to excessive heat, epidemics, flooding, winds	 ✓ They wait until the epidemy incidence is low, so they can go back to creating again. ✓ To avoid loss of animals in hot and sunny seasons, here in the community there is someone who vaccinates the birds and they can pay 10 mts,
Forests, cutting firewood, burning coal	Low production of firewood and charcoal	 ✓ Use already destroyed/fallen/old trees, not the fresh or green trees. ✓ They build the kilns in high regions with water diversions. ✓ They avoid building kilns in windy times or months. ✓ Looking for alternative activities















Activity	Impacts on Livelihood	Responses
Infrastructures	The strong winds/ciclones destroy houses, schools, health centers, stalls; Sea water invade spaces for water holes; The rains create soil erosion, degrading roads and houses;	✓ Use plastic and grass roofing✓ Place sandbags on top of roof material
Drinking water	Water shortages, especially in September, October, November and a little in December. Frequent breakdowns of water pumps given pressure or intensive use;	 ✓ Conserve rainwater in tanks made by the settlers or in plastic reservoirs, as iron reservoirs do not take long to be affected by rust due to salt; ✓ Lack ways to conserve water for a long period, since there is no money to buy containers or build concrete or cement tanks, much less plastic tanks.

Note:

Cyclone of 2008 in Mossuril caused the destruction of housing, deaths of 37 people, loss of property, destruction of schools.















5.10 Government Interventions

Climate Change Adaptation Strategy

The following are the government's strategic actions to promote resilience:

- ✓ Design of a local climate change adaptation plan (in Mossuril);
- ✓ Creation of a local disaster risk reduction and management committee (CLGRRD), with members of the community (9 men and 9 women). This committee is trained in matters of early warning management (following the radio and alerting the community) and rescue.
- ✓ Preparation of the climate change plan which has now been submitted to the district government for approval (Mossuril)
- ✓ Promotion of training of technicians in matters of climate change

Government Actions in water infrastructure

Construction of water holes, however there are areas where the water table is contaminated with salt water (Yahaia) and other areas such as Baixo Pinda where there are several holes in need of rehabilitation.

Government Actions in Agriculture and Nutrition

The SDAEs have developed some interventions in order to keep communities more resilient, such as promoting the involvement of extension workers in monitoring agricultural activity in order to ensure the dissemination of good practices and resilience techniques to climate change. There are also some projects brought by the government such as Sustenta which has benefited the community with tractors, however this support is not comprehensive, and there are communities that do not have access to this type of opportunity with regard to the availability of tractors and agricultural inputs.

The SDAE has in its staff extensionists who have the role of disseminating good practices in agriculture as well as distributing agricultural inputs such as seeds and fertilizers. The impacts of this practice are observed in the improvement of community conditions, guarantee of food security and consequent reduction of malnutrition.

Government Actions in Fisheries

Support awareness raising, through working with CCPs, SDAEs and local leaders, to discourage the cutting of mangroves and destruction of corals. SDAE promotes the conservation of Biodiversity through the training of CCPs and their involvement in comanagement meetings, raise awareness against the use of harmful arts. And on days of bad weather, they cannot go out to sea, opting for alternative activities. Support mechanisms for















an improved monitoring of tourism activities and collection of the percentage of revenue to be reverted to community.

Government Actions in Nutrition

With regard to malnutrition, there is an entity called Transformation Nutrition (TN) that works in partnership with ADPP and the government to disseminate good practices in food preparation.

6. Trends in Catches and Management of Fisheries

6.1 Perceived Trends in Catches and Current Management of Fisheries

Fishermen have observed a decrease in the abundance of fishing resources in the sea, namely: shrimp, horse mackerel, billfish, sardines, swordfish, stone fish and grouper are disappearing. For example: the total catch of artisanal fishing vessels in Lunga was 20 tons/day. In recent years it has reduced to 100 kg/day (CCP Lunga). Average yields are around 30 kg/fisherman/day for artisanal fishing using trawl, gillnet and seine gear (CCP Namapiri)

Feedback from FGD and Key informants in the districts of Memba, Mossuril and Nacala-a-Velha reveals that, in general, there are no plans for management or creation of conservation areas for mangroves, seagrasses and corals (eg. Mossuril – Lunga, Namapiri). There are reportedly areas where mangroves are cut and corals are exposed (eg Calancua, Namapiri). There have been some community initiatives led by CCPs and support from OIKOS whereby they voluntarily create marine protection zones, such as: In Lunga (Terene and Namuco), Namapiri (Nikula, Nkiva/Giva and Eponta). In some communities, such as Lunga, there are indeed co-management committees that meet 3 times a year, comprising SDAE, fisheries technicians, OIKOS, and the Director of SDAE. Other initiatives are the creation of associations of fishermen, as is the example of Mossuril - localities of Mancombe (10 members) and Koloca (12 members). Those have great potential to be enhanced and replicated in most of the communities.















6.2 Challenges Experienced by CCPs

Challenges reported by CCPs are as follows:

- ✓ Limited equipment to carry out enforcement, including chasing offenders with more powerful vessels; In the district of Mossuril there are 5 CCP's (3 in the headquarters, I Matibane and I in Lunga), all of them have infrastructure, but only the CCP of Mossuril headquarters has a boat for inspection where it tries to support all CCPs, but it's not enough.
- √ The CCPs are not officially registered;
- ✓ Lack of monthly remuneration (salary), receiving only 15% of the amount related to the payment of fishing licenses, motorboat, motorcycle and uniform.
- ✓ Lack of transport to go to the most distant fishing areas and carry out inspections.
- ✓ Communities are suspicious that some CCP members have accepted bribes to allow illegal weighing to take place, and that the same person has shared CCP information to facilitate the escape.















7. Conclusions and recommendations for Blue Future activities

7.1 Conclusions

The table below contains the baseline values found for each indicator.

Table 48: Baseline Values

Table 48: Bas	sellile values	General Baseline	Baseline Va	lues Per D Si		d Reference
Indica	Indicators Indicators Indicators The Intervention Area		Memba	Mossuril	Nacala- a-velha	Nacala-a- velha (reference)
Indicator G2: More People in The Project Intervention Areas Benefit from Improved Ecosystem Services Supporting Adaptation to Climate Change.	Combined interventions that address seagrass, mangroves and coral reefs conservation or restauration	11.3%	9.3%	12.8%	9.8%	16.7%
Indicator G3: At the end of the project, livelihood conditions of affected households in project intervention areas are improved	Households Average Monthly Incomes (MT)	4,349.10				4,456.7
Indicator G4: at the end of the project, substantially more households affected in project intervention areas have a positive attitude towards marine biodiversity,	Attitude towards protection and restoration of mangroves, seagrass and coral reefs	45.8%	48.6%	41.1%	61.0%	48.5%















		General	Baseline Va	lues Per D	istricts and	d Reference
		Baseline		Si	te	T
Indicators		Value for The Intervention Area	Memba	Mossuril	Nacala- a-velha	Nacala-a- velha (reference)
restoration and protection of mangroves, seagrass and coral reefs						
	Increased frequency and intensity of cyclones/strong winds	67.07%	74.30%	56.20%	70.70%	75.80%
	Decrease or disappearance of fish species	56.60%	52.10%	54.30%	63.40%	54.50%
	Degradation of fish habitat	55.90%	55.70%	46.10%	65.90%	58.30%
	Fish migration	30.33%	24.30%	30.10%	36.60%	28.00%
Indicator O1.2: villages are more resilient to climate change (water and food	Soil erosion and impoverishment due to the intensity of rainfall during the peak	28.47%	28.60%	25.10%	31.70%	28.00%
security, community structures for sustainable	Increased pests and diseases in plants and animals	28.87%	30.70%	16.90%	39.00%	25.00%
fisheries management).	Variation of the rainfall calendar	19.67%	25.00%	9.60%	24.40%	20.50%
	Increased temperature and number of hot days	18.07%	17.90%	11.90%	24.40%	23.50%
	Increased amount of rainfall at short peak times, resulting in flooding	11.23%	9.30%	7.30%	17.10%	37.90%
	Reduced rainfall causing droughts	13.50%	12.90%	3.20%	24.40%	12.10%















	Indicators		Baseline Values Per Districts and Reference Site			
Indic			Memba	Mossuril	Nacala- a-velha	Nacala-a- velha (reference)
	Pollution of rivers, due to exploitation of riverside areas for agriculture	2.37%	7.10%	0.00%	0.00%	12.90%
	Increased water temperature and changes in species reproduction	4.13%	2.10%	0.50%	9.80%	14.40%
	Reduction in creation capacity and inventory	0.97%	0.00%	0.50%	2.40%	0.80%
Indicator 2.3.3b: # males and females benefiting from improved water security	Consistent access to water for drinking, domestic use and for farming	51.87%	52.10%	42.50%	61.00%	25.00%
Basic Necessities Survey (BNS)	BNS - Social Welfare Index (maximum score)	2946.73	29.612	29.676	29.114	28.857
Land Tenure	Respondents reporting insecurity about ownership of community land	49.6%	44.7%	52.9%	50.0%	61.7%
Land renure	Respondents reporting insecurity about ownership of family land	63.4%	63.8%	64.9%	54.5%	69.9%















7.1.2. Recommendations

In light of the findings, recommendations were drawn for each indicator and area of key result, as presented bellow.

Indicator G4: Households affected have a positive attitude towards marine biodiversity, restoration and protection of mangroves, seagrass and coral reefs

- ✓ Raise awareness and provide technical assistance to the relevant bodies responsible for designing laws and/or developing marine and coastal resource management plans and the community in general for greater involvement of women in designing laws and/or developing marine and coastal resource management plans;
- ✓ Training or giving lectures on legislation and regulatory policies and management of marine and coastal resources;
- ✓ Create a partnership with community radios to create a program with the aim of disseminating legislation and regulatory policies and management of marine and coastal resources.

Fisheries Management

- ✓ Support/train CCPs in designing a fisheries and coastal resources management plans;
- ✓ Support the CCPs with means of transport and boats to carry out inspections;
- ✓ Raise awareness for CCPs to discourage bribes to facilitate illegal fishing;
- ✓ Support law enforcement by providing patrol boats to cover the entire areas of the district:
- ✓ Construction of infrastructure for CCP headquarters, supply of identification material such as vests:
- ✓ Create a market for selling fish, create connections with good buyers; For example, create fairs selling fish or seafood; Help organize the market, to stipulate price lists for all fishermen.

Indicator G3: Livelihood conditions improved

- ✓ Financing of alternative livelihood activities, for example quarrying, firewood and charcoal exploration business, cake business, production and sale of juice.
- ✓ Make partnerships with financial institutions to facilitate access to credit for project beneficiaries:
- ✓ Train project beneficiaries in developing business plans and managing finances;
- ✓ Support creation of saving groups;
- ✓ Finance businesses specifically for women such as selling cookies, meals, encourage women to sell their products at fairs;
- ✓ Support women business in commercialization of fish, provide means of fish conservation, such as cold systems, production of ice for sale, coolers for transporting and handling fish during sale;
- ✓ Other business suggested sale of clothing, stalls selling food and nonfood items (biscuits, soap, oil, fuel);













- ✓ Implement agriculture projects (market oriented and climate smart approach), which will increase access to inputs, tools and technical assistance;
- ✓ Advocate or assist local community members to access jobs; Prioritize local community members in jobs that will emerge in the conservation area;
- ✓ Create conditions to have electricity (solar panel) for everyone in the community; Support initiatives to establish farmers association.

Indicator O1.2: villages are more resilient to climate change (water and food security, community structures for sustainable fisheries management).

- ✓ Raise awareness among beneficiaries to intensify the combination of fishing with the production of different crops and other sources of income to guarantee food security throughout the year;
- ✓ Train project beneficiaries in measures to prevent, adapt and reduce the effects of climate change;
- ✓ Create a link between project beneficiaries and sellers of fishing tools and agricultural inputs.

Indicator 2.3.3b: Improved water security

✓ Support the government in expanding drinking water sources and creating community water management committees;

BNS

- ✓ Raise awareness among community in general about the importance of women's participation in economic activities;
- ✓ Deliver vocational trainings (example: cutting, sewing, hairdressing, poultry, fishing and others) mainly for women to increase their purchasing power.

LAND TENURE

- ✓ Train the community in the prevention and management of land conflicts;
- ✓ Create a partnership with the government to facilitate the assignment of DUATs to the community;
- ✓ Hold lectures to publicize land conflict resolution bodies;
- ✓ Raise awareness among community about the importance of women having access to land and other natural resources.













8. References

BNS in Conservation Landscapes, Detoeuf, D.; Wieland, M.; Wilkie, D. (2018); Guide 2.0 to the Modified Basic Necessities Survey: Why and How to Conduct Digital-Based

Climate Change and Resilience Platform (CCRP). Climate Vulnerability and Capacity Analysis Handbook Version 2.0, CARE (2019)

Hoguane, A.M., 2007; Governo do Distrito de Memba, Ilha de Moçambique, 2015 Macuio, J. & Marques da Silva, I.. (2021),

Relatório do trabalho de campo sócio-económico para desenvolver a proposta completa do BAF: Construindo um Futuro Azul para Ecossistemas e Pessoas na Costa Leste Africana, Distritos de Memba, Nacala-Porto e Mossuril, WCS, 2020.

9. Attachments

Data Collection Tools

- I) Household Survey Queries:
- ✓ Survey I _ Individual _Interview _Indicator _Socioeconomic and KAPs Study
- ✓ Survey2_Individual Interview_Gender_Socioeconomic and Gender Study
- ✓ Survey3 individual Interview BNS and Land Tenure Assessment
- 2) Focus Group Discussion Guides with sections:
- ✓ Papéis e relações de género influenciam o acesso, uso, manejo e conservação da biodiversidade
- √ Vulnerabilidade Climática e Análise de Capacidades
- √ Mapeamento de recursos e perigos
- √ Linha do tempo de eventos históricos
- ✓ Calendário sazonal
- ✓ Matriz de vulnerabilidade
- 3) Key informants interview guide

Team Members

Enumerators Training Program













Query I_ Individual_Interview _Indicator_Socioeconomic and KAPs Study Ferramentas de coleta de dados para estudo socioeconômico e de gênero

Questionário para Entrevista Individual I

Estudo Socioeconómico e de Género - Projecto "Building a Blue Future for Ecosystems and People on the East African Coast - Blue Future (BF)"

Perguntas para SS/Pescadores/Usuários

APRESENTAÇÃO E PEDIDO DE CONSENTIMENTO

Bom dia/Boa tarde Senhor(a), meu nome é....

Convidamo-lo(a) a participar no estudo denominado Avaliação Socioeconómica das partes interessadas para desenvolver a proposta do MPA, a ser conduzida pela ADPP Moçambique e Moz Target, e liderada pela Wildlife Conservation Society (WCS) através do projeto Futuro Azul (Blue Future), financiado pela Blue Action Fund.

Sua participação neste estudo é voluntária e a mesma será conduzida através de inquérito individual, usando tablets com o aplicativo KOBO Toolbox.

Os resultados deste estudo definirão adequadamente os objetivos junto às comunidades e fornecerão informações da situação actual, buscando definir com elas o melhor caminho a seguir para a proteção dos recursos naturais dos quais as comunidades dependem, garantindo melhores oportunidades de subsistência na pesca e meios de subsistência alternativos para as comunidades.

O inquérito poderá levar de 20 à 45 minutos e o participante tem o direito e a liberdade de retirar o seu consentimento em qualquer momento, seja antes ou depois do inquérito, independentemente do motivo e sem nenhum prejuízo para sua pessoa.

A participação não trará prejuízos ao inquirido, não acarretará quaisquer despesas e você não receberá nenhuma remuneração referente a este estudo. Os resultados deste estudo serão analisados e publicados, mas a identidade do(a) senhor(a) não será revelada pois, será mantida em sigilo.

Para qualquer outra informação, poderá contactar Carlos Meirinhos (Investigador Primário), através do seguinte contacto +258 842283371.















SEÇÃO A: INFORMAÇÕES DEMOGRÁFICAS

PARA I	Coordenadas geográficas	[automático]
A2	Província	
A2.1	Distrito	Memba mossuril
A2.3.	Localidade	
A2.3.1	Outra localidade	
A2.4	Comunidade/povoado	
A2.4.1	Outra comunidade	
Informa	ções do respondent	
A3	Qual é a sua idade?	
A4	sexo	Masculino
Ατ.	SEXO	Feminino
A5	Estado Civil	Casada/o Casada/a (poligamo) Solteiro/a Viúvo/a Divorciada/o
A6	Quantos membros tem o seu AF, incluindo a si?	Crianças e jovens dos 0 aos 17 anos (Homens e Mulheres) Adultos, de 18 aos 64 anos (Homens e Mulheres) Idosos, de 65 anos ou mais (Homens e Mulheres)













		□ Não concluiu o
		Primário
		☐ Primário
A7	Nível de escolaridade?	□ Secundário
A/	Niver de escolaridade:	☐ Nível superior
		□ Nenhum
A7	Você é o chefe da família?	Sim
		Não
A7.1	Se você não é o chefe da família, qual é o gênero do chefe da	Masculino
	família?	Feminino
A7.2	Se você não é o chefe da família, qual é o nível de escolaridade	□ Não concluiu o
	do chefe da família? (marcar apenas uma opção)	Primário
		☐ Primário
		□ Secundário
		□ Formação pós-
		secundária
		□ Não sei
		□ Optou por não
		responder

SEÇÃO B: PERGUNTAS PRINCIPAIS GERAIS

B.I.	Gostaria de saber mais sobre como se sente sobre	Sim
	sua vida nesta comunidade. Considerando tudo, sua satisfação com sua vida, sente que as coisas mudaram nos últimos 2 anos?	Não não sei optou por não responder
B.1.1	Se sim, como?	☐ Muito pior















			☐ Pior		
			☐ Melhor		
			☐ Muito n	nelhor	
B.2.	Vou ler uma lista de atividades, diga sim se voc	ê ou	☐ Pesca		
	alguém da sua família fizer a atividade				
			Vendedor/	comerciante/	processador
			de peixe		
			□ caça		
			☐ Recolhe	endo	
			□ Turismo	0	
			☐ Cultivo	de algas ou a	quicultura
			☐ Agricult	tura	
			☐ Fornece	edor de bens	essenciais
			□ Vended	dor de refeiç	ções básicas e
			biscoitos		
			☐ Motota:	xista	
			☐ Agente	público	
			□ Optou	por não respo	onder
			□ outros		
B.3.	Quais são as 3 principais atividades que susten	itam s	ua família?		
		ı			
			ificação da	=	ssoas no
		-	-		envolvidas na
	Atividade de subsistência	o A	GREGADO	Mulheres	idade Homens
	Pesca e coleta	A		r iuillei es	Homens
	Comércio/venda de peixe				
	Cultivo de algas ou Aquicultura				
	Caça				
	Agricultura (inclui hortas domésticas, gado)				
	,				
	Emprego assalariado (por exemplo, professor, enfermeiro)				















	Turismo				
	Pequenos negócios / Atividades econômicas				
	informais				
	remessas				
	Previdência social governamental				
	Outro:				
	Nenhuma				
B.4.	Houve algum projeto em sua comunidade fo	ado	□ SIM		
	na melhoria dos meios de subsistência nos últi	mos	□NÃO		
	anos?		□ Não sei		
			□ Optou	por não resp	onder
B.4. I	Se sim, cite os projetos que você conh	ece:			
B.4.2	Se sim, os projetos introduzidos ou apoiados	4.	☐ Aument	ado	
	aumentaram a renda familiar ou a disponibilida de alimentos para sua família? (marcar apenas	de	☐ Sem alto	eração	
uma opção)			☐ Diminuiu		
			☐ Escolha	não respond	er
			□ Não sei		

SEÇÃO C:

INDICADOR G2: NO FINAL DO PROJETO, MUITO MAIS PESSOAS NAS ÁREAS DE INTERVENÇÃO DO PROJETO BENEFICIAM DE MELHORES SERVIÇOS DE ECOSSISTEMA QUE APOIAM A ADAPTAÇÃO ÀS MUDANÇAS CLIMÁTICAS.

7 •		
C.I.	A sua comunidade beneficia de	□ SIM
		□NÃO
		□ não sei
		□ optou por não responder
C.1.1.	Se sim, qual é/foi o impacto	☐ Financeiro
	deste programa/projecto de proteção das ervas marinhas para a comunidade? as que se aplicam)	☐ Proteção contra tempestades
		☐ Pesca
		☐ Bens/materiais
		☐ Subsistência não pesqueira
		☐ Patrimônio/valor intrínseco
		☐ Outro (especifique):
		□ Não sei
	□ Escolha não responder	















C.2.	Sua comunidade se beneficia de	
	um projecto/programa de	□NÃO
	proteção dos mangais?	□ não sei
		□ Nenhum
		□ optou por não responder
C.2.1.	Se a resposta for sim, qual é/foi	☐ Financeiro
	o impacto deste	□ Proteção contra tempestades
	programa/projecto de proteção dos mangais para a	☐ Pesca
	comunidade? (Pergunte	☐ Bens/materiais
	primeiro como uma pergunta	□ Subsistência não pesqueira
	aberta e, se não houver	☐ Patrimônio/valor intrínseco
	respostas, forneça as opções) (☐ Outro (especifique):
	marque todas as que se	□ Não sei
	aplicam)	□ Nenhum
		☐ Escolha não responder
C .3.	Sua comunidade de um	□ SIM
	projecto/programa de	□NÃO
	proteção dos recifes de corais?	□ não sei
	(marque apenas uma opção)	□ optou por não responder
C.3.1.	C3.1. Se sim, qual é/foi o	☐ Financeiro
	impacto deste	□ Proteção contra tempestades
	programa/projecto de proteção dos recifes de corais para a comunidade?	☐ Pesca
		☐ Bens/materiais
para a comanidade.	para a comamado.	□ Subsistência não pesqueira
		☐ Patrimônio/valor intrínseco
		☐ Outro (especifique):
		□ Não sei
		□ Escolha não responder















SECÇÃO D:

INDICADOR G3: AO FINAL DO PROJETO, MELHORAM AS CONDIÇÕES DE MEIO DE VIDA DOS AGREGADOS AFETADOS NAS ÁREAS DE INTERVENÇÃO DO PROJETO

D.I	A gestão das suas zonas de	□ Não
	pesca alterou o montante dos	☐ Sim
	rendimentos auferidos no seu	□ Não sei'
	agregado familiar	☐ Recusou
	(dia/semana/mês)?	
D.2	Quanto você normalmente	
	ganha em um	
	(dia/semana/mês)? *a	
	frequência depende do	
	contexto – a ser determinado	
	pela equipe de pesquisa.	
D2.1	Este é o valor que ganha	☐ Person
	sozinho ou com a sua familia?	☐ Family
	(tick one option only)	☐ Don't know
D2.1.1	Existe mais um membro do	□sim
	seu AF que trabalha?	□ Nao
D2.2	O sr./a ode estimar o	☐ YES (if yes insert the amount)
	rendimento mensal da sua	□ NO
	famila ou AF	
	*frequency depends on	
	context – to be determined	
	by research team.	
D.3	O que você faz com o peixe que	☐ Comer
	pesca? (assinale tudo o que se	□ Vender
	aplica)	□ Doar
		□ Não captura
D.4	Qual é a coisa mais comum que	□ Comer
	você faz com o peixe	□ Vender
		□ Doar
		□Não sei
Ì	İ	















		□Escolha não responder
D.5	O que você faz com os	□ Comer
	invertebrados da pesca	□ Vender
		□ Doar
		□ Não pega
D.6	Alguém no seu agregado	□ SIM
	familiar tem acesso a	□NÃO
	empréstimos ou microcrédito?	□ Não sei
		□ Optou por não responder
D.6.1	Se não, o seu agregado familiar	□ SIM
	alguma vez sentiu a necessidade	□NÃO
	de um empréstimo ou	□ Não sei
	microcrédito? (marque apenas uma opção)	□ Optou por não responder
D.6.2	Se sim, qual foi a fonte do	☐ Banco
	empréstimo ou microcrédito? (☐ Grupo social
	marcar tudo o que se aplica)	□ ONG/OSC
		☐ Outro (especifique):
		□ Não sei
		□ Optou por não responder
D.6.3	D6.3. Para que fins foi utilizado	☐ Melhorar a pesca
	o empréstimo ou	\square Substitua as artes de pesca destrutivas
	microcrédito?	☐ Meios de subsistência alternativos
		☐ Outro (especifique):
		□ Não sei
		□ Optou por não responder















SEÇÃO E:

INDICADOR G4: AO FINAL DO PROJETO, MUITO MAIS FAMÍLIAS AFETADAS NAS ÁREAS DE INTERVENÇÃO DO PROJETO TÊM UMA ATITUDE POSITIVA EM RELAÇÃO À BIODIVERSIDADE MARINHA, RESTAURAÇÃO E PROTEÇÃO DE MANGUES, ERVAS MARINHAS E RECIFES DE CORAL

E. I	Para cada uma das seguintes medidas de gestão marinha, você se opõe ou apoia isso em		
	sua comunidade?		
E.1.1	Zonas ou santuários proibidos	☐ Apoio forte	
		□ Um pouco de apoio	
		□ Não suporta	
		☐ Fortemente contra	
		□ opte por não responder	
E.1.2	Encerramentos sazonais para pesca em algumas áreas	☐ Apoio forte	
		☐ Um pouco de suporte	
		□ Não suporta	
		☐ Fortemente contra	
		□ opte por não responder	
E.1.3	Restrições de marcha em algumas áreas	☐ Apoio forte	
		□ Um pouco de apoio	
		□ Não suporta	
		☐ Fortemente contra	
		□ opte por não responder	
E.1.4	restauração de habitat	☐ Apoio forte	
		□ Um pouco de apoio	
		□ Não suporta	
		☐ Fortemente contra	
		□ opte por não responder	
E .1.5	Restrições à captura/colheita de algumas espécies	☐ Apoio forte	
		□ Um pouco de apoio	
		□ Não suporta	
		☐ Fortemente contra	
		□ opte por não responder	















E.1.6	Restrições ao tamanho dos peixes ou outras espécies	☐ Apoio forte
	capturadas	□ Um pouco de apoio
		□ Não suporta
		☐ Fortemente contra
		□ opte por não responder
E.1.7	Restrições ao número de pessoas autorizadas a	☐ Apoio forte
	pescar/colheita em uma área marinha	□ Um pouco de apoio
		□ Não suporta
		☐ Fortemente contra
		□ opte por não responder

SEÇÃO F:

INDICADOR O1.2: ALDEIAS SÃO MAIS RESILIENTES ÀS MUDANÇAS CLIMÁTICAS (ÁGUA E SEGURANÇA ALIMENTAR, ESTRUTURAS COMUNITÁRIAS PARA GESTÃO SUSTENTÁVEL DAS PESCAS). &

INDICADOR 2.3.3B: NÚMERO DE HOMENS E MULHERES QUE SE BENEFICIAM DA MELHOR SEGURANÇA DA ÁGUA

F. I	Sua comunidade tem acesso consistente a	□ SIM
	água potável (tanto para agricultura quanto	□NÃO
	para uso doméstico)?	□ Não sei
		□ Optou por não responder
F.2	Você tem comida suficiente para alimentar	□ SIM
	os membros da sua família em cada	□NÃO
refeição?	refeição?	□ Não sei
		□ Optou por não responder
F.3	Quantas refeições sua família faz por dia?	
F.4	Quais são os desafios que você enfrenta no	□ Seca
	cultivo de alimentos (agricultura)?	☐ Enchentes
		□ Insetos
		☐ Falta de mercado
		☐ Disponibilidade de sementes/mudas















	☐ Clima inconsistente
	☐ Falta de equipamento
	☐ Outro (especificar):
	□ Não sei □ Optei por não responder

SEÇÃC	O F_A: PERGUNTAS C	VCA
F5	Que efeitos ou fenômenos associados às mudanças climáticas você conhece/já ouviu falar?	 Aumento da temperatura e número de dias quentes Variação do calendário/padrões de chuva Chuvas reduzidas causando secas Aumento da quantidade de chuvas em horários de pico curtos, resultando em inundações Erosão e empobrecimento do solo devido à intensidade das chuvas durante o pico Aumento da frequência e intensidade de ciclones/ventos fortes Aumento de pragas e doenças em plantas e animais Aumento da temperatura da água e mudanças na reprodução das espécies Redução/aumento da vazão dos rios Redução ou desaparecimento de algumas espécies de peixes não sei / não faço ideia Mudanças nos níveis da maré alta Mudanças nos padrões/estações do vento que afetam a pesca
F6	Quais são os efeitos ou fenômenos associados às mudanças climáticas que têm afetado a atividade pesqueira e a subsistência dos pescadores e suas famílias?	Aumento da temperatura e número de dias quentes Variação do calendário de chuva Chuvas reduzidas causando secas Aumento da quantidade de chuvas em horários de pico curtos, resultando em inundações Erosão e empobrecimento do solo devido à intensidade das chuvas durante o pico Aumento da frequência e intensidade de ciclones/ventos fortes Aumento de pragas e doenças em plantas e animais Aumento da temperatura da água e mudanças na reprodução das espécies Poluição dos rios, devido à exploração das áreas ribeirinhas para a agricultura Redução da vazão dos rios Degradação do habitat dos peixes migração de peixes Redução ou desaparecimento de algumas espécies de peixes Redução da capacidade de reprodução e do estoque não sei / não faço ideia
F7	Que medidas e soluções conhece para	 Cogestão de recursos aquáticos/água, incluindo peixes Acesse melhores mercados e aumente o valor/ rendimento do pescado















	reduzir os efeitos		Reduzir os custos de pesca/melhorar a eficiência para
	reduzii Os eleitos		aumentar os ganhos
	negativos das		Reduzir as perdas de peixe ao longo da cadeia de valor
	alterações climáticas		Captação e armazenamento de água da chuva
	(500000 0000000000000000000000000000000		Irrigação para reduzir a dependência da chuva
	(pescas, agricultura,		diversificação de culturas
	infraestruturas)?		Uso de variedades adaptadas às mudanças climáticas
	ŕ		(temperaturas, água, pragas)
		П	Técnicas agrícolas para conservação de água e fertilidade do
			solo
			Adubação para mitigar a perda de nutrientes no solo
			Terraços de bancos para reduzir a erosão
			Melhorando as técnicas de construção de casas para resistir
			a ciclones
			Evite construir casas em áreas propensas a inundações
			não sei / não faço ideia
F8	Que medidas ou		práticas de aquicultura
	soluções para reduzir		Práticas de pesca sustentáveis (estabelecer limites de
			captura e evitar artes prejudiciais)
	os efeitos das		Cogestão de recursos aquáticos/água, incluindo peixes
	alterações climáticas		Acesse melhores mercados e aumente o valor/ rendimento
			do pescado
	tem aplicado nas suas		Reduzir os custos de pesca/melhorar a eficiência para
	atividades (pescas,		aumentar os ganhos
			Reduzir as perdas de peixe ao longo da cadeia de valor
	agricultura,		Captação e armazenamento de água da chuva
	infraestruturas)?		Irrigação para reduzir a dependência da chuva
			diversificação de culturas
			Uso de variedades adaptadas às mudanças climáticas
			(temperaturas, água, pragas)
			Técnicas agrícolas para conservação de água e fertilidade do
			solo
			Adubação para mitigar a perda de nutrientes no solo
			Terraços de bancos para reduzir a erosão
			Melhorando as técnicas de construção de casas para resistir
			a ciclones
			Evite construir casas em áreas propensas a inundações
			não sei / não faço ideia

Query 2_Individual Interview_Socioeconomic and Gender Study Ferramentas de coleta de dados para estudo socioeconômico e de gênero

Questionário para Entrevista Individual I















Estudo Socioeconómico e de Género - Projecto "Building a Blue Future for Ecosystems and People on the East African Coast - Blue Future (BF)" Perguntas para SS/Pescadores/Usuários APRESENTAÇÃO E PEDIDO DE CONSENTIMENTO

Bom	dia/Boa	tarde	Senhor(a)	, 0	meu	nome	é
Convido	-lhe para p	articipar no	estudo denomi	nado Avalia	ıção Socioed	conómica da	s partes
interessa	das para de	esenvolver a	proposta do MF	A, a ser co	nduzida pela	ADPP Moç	ambique
e Moz T	arget, e lic	derada pela	Wildlife Conse	rvation Soc	iety (WCS)	através do	projeto
Futuro	Azul	(Blue Fu	iture), financ	ciado pe	ela Blue	Action	Fund.
Sua participação neste estudo é voluntária e a mesma será conduzida através de inquérito							
individual, usando tablets com o aplicativo KOBO Toolbox.							

Os resultados deste estudo definirão adequadamente os objetivos junto às comunidades e fornecerão informações da situação atcual, buscando definir com elas o melhor caminho a seguir para a proteção dos recursos naturais dos quais as comunidades dependem, garantindo melhores oportunidades de subsistência na pesca e meios de subsistência alternativos para as comunidades.

O inquérito poderá levar de 20 à 45 minutos e o participante tem o direito e a liberdade de retirar o seu consentimento em qualquer momento, seja antes ou depois do inquérito, independentemente do motivo e sem nenhum prejuízo para

A participação não trará prejuízos ao inquirido, não acarretará quaisquer despesas e você não receberá nenhuma remuneração referente a este estudo. Os resultados deste estudo serão analisados e publicados, mas a identidade do(a) senhor(a) não será revelada pois, será mantida em sigilo.

Para qualquer outra informação, poderá contactar Carlos Meirinhos (Investigador Primário), através do seguinte contacto +258 842283371.

SEÇÃO A: INFORMAÇÕES DEMOGRÁFICAS

PARA I	Coordenadas geográficas	[automático]
A2	Província	
A2.1	Distrito	Memba mossuril
A2.3	Localidade	
A2.3.	Outra localidade	
A2.4	Comunidade/ Povoado	















Informações do respondent			
A 3	Qual é a sua idade?		
A4	sexo	Masculino Feminino	
A5	Estado Civil	Casado Casado(poligamo) Solteiro Viúvo Divorciado	
A6	A6. Quantos membros tem o seu AF, incluindo a si?	Crianças e jovens dos 0 aos 17 anos (Homens) Crianças e jovens dos 0 aos 17 anos (Mulheres) Adultos, de 18 aos 64 anos (Homens) Adultos, de 18 aos 64 anos (Mulheres) Idosos, de 65 anos ou mais (Homens) Idosos, de 65 anos ou mais (Mulheres)	
A7.	Nível de escolaridade	 □ Não concluiu o Primário □ Primário □ Secundário □ Nível superior □ Nenhum 	
A8	Você é o chefe da família?	Sim Não	
A8.1	Se não é o chefe do agregado familiar, qual é o sexo do chefe do agregado familiar?	Masculino Feminino	

SEÇÃO B: PERGUNTAS PRINCIPAIS GERAIS

B.1.	Gostaria de saber mais sobre como se sente sobre sua vida nesta comunidade. Considerando tudo, sua satisfação com sua vida, sente que as coisas mudaram nos últimos anos?	Sim Não não sei optou por não responder
B.I.I	Se sim, como ?	☐ Muito pior















		☐ Pior				
		☐ Melhor				
B.2.	Van lan una liata da atividada		☐ Muito melhor			
D.Z.	Vou ler uma lista de atividades, diga sim se você ou alguém da	☐ Pesca	☐ Pesca☐ Vendedor/comerciante/processador de peixe			
	sua família fizer a atividade	□ venae □ Recoll		e/processado	or de peixe	
		□ caça	iendo			
		□ caça □ Turisn	00			
			o de algas ou aq	uicultura		
		☐ Agricu				
		•	cedor de bens e	ssenciais		
		□ Vende	dor de refeiçõe	s básicas e b	iscoitos	
		☐ Motot	axista			
		☐ Agente	•			
		· .	ı por não respoi	nder		
D 3		□ outros		71. 3		
B.3.	Quais são as 3 principais atividad	ies que sus	stentam sua fam	ilia?		
			Classificação	# de pessoas no		
			da	DOMICÍLIO		
	Atividade de subsistência		importância	envolvidas	na atividade	
			para o	Mulheres	Homens	
			AGREGAD			
			O FAMILIAR			
	Pesca e coleta					
	Comércio/venda de peixe					
	Cultivo de algas ou Aquicultura	l				
	Caça					
	Agricultura (inclui hortas do	mésticas,				
	gado) Emprego assalariado (por exemplo, professor, enfermeiro)					
	Turismo					
	Pequenos negócios / A	tividades				
	econômicas informais					
	remessas					















	Previdência social governament Outro: Nenhuma	tal
B.4.	Houve algum projeto em sua comunidade focado na melhoria dos meios de subsistência nos últimos anos?	□ SIM □ NÃO □ Não sei □ Optou por não responder
B.4. I	Se sim, cite os projetos que você conhece:	
B.4.2	Se sim, esses projetos aumentaram a renda familiar ou a disponibilidade de alimentos para sua família?	 □ Aumentou □ Sem alteração □ Diminuiu □ Optou por não responder □ Não sei

SECTION C: GENDER OUESTIONS

	711 31 32112 111 3 020110110	
CI.	No seu agregado familiar, qual é o sexo da p	essoa responsável por:
	 Tarefas domésticas, como: Limpezas, buscar 	☐ Homem
	lenha, buscar água, preparar comida, cuidar	☐ Mulher
	das crianças/idosos, lavar roupa.	□ Ambos
	• Tarefas produtivas: Preparação do solo/terra,	☐ Homem
	gestão da cultura no campo, colheita/pós-	☐ Mulher
	colheita e venda; pesca, transporte,	☐ Ambos
	processamento e venda de peixe.	
	 compra de equipamentos; pagar pela ajuda na 	
	captura/colheita; vendendo produtos; usando o	☐ Mulher
	rendimento gerado pela colheita/produção ou	☐ Ambos
	venda de produtos do mar?	
	• Quem no seu AF é responsável por tomar	☐ Homem
	decisões sobre a compra de	□ Mulher
	matéria/equipamentos de pesca, insumos	☐ Ambos
	agrários e outros bens produtivos?	
	Quem no seu agregado familiar é responsável	
	pela compra de utensílios domésticos?	□ Mulher
		☐ Ambos
	• Quem no seu AF é responsável por tomar	☐ Homem
	decisões sobre o uso do dinheiro?	☐ Mulher
		☐ Ambos
C2.	Acredita que homens e mulheres tem as mesmas	0 = Não
	responsabilidades no seio familiar?	I = Sim
	. opensaemaadee ne sele lammar.	















C3.	No seu agregado familiar quem tem maior	☐ Homem
	acesso/controle aos insumos de pesca?	☐ Mulher
	·	□ Ambos
C4.	Já foi vítima da violência baseado no género?	0 = Não
		I = Sim
C4.1	Se sim, qual foi a sua atitude face a violência?	
C5.	Teve algum apoio da família? Da comunidade	0 = Não
		I = Sim
C6.	Na sua comunidade existem instituições de apoio a	0 = Não
	vítimas de violência baseada no género?	I = Sim
C6.1	Se sim, quais?	
C7.	Existem costumes e práticas tradicionais ou direitos	0 = Não
	de uso que afetem o acesso de mulheres ou homens	I = Sim
	e controle sobre os recursos marinhos e costeiros?	
C8.	Você possui conhecimento e experiência	0 = Não
	tradicionais, que podem ser construídos para o	I = Sim
	desenvolvimento sustentável dos recursos	
	marinhos?	
C9.	Existem incentivos familiares que promovem a	0 = Não
	busca de financiamento por parte da mulher para	I = Sim
	actividade pesqueira, acesso ao mercado e outras	
	actividades alternativas?	
C9.1	Se sim, quais?	
C10.	Já se beneficiou de algum financiamento?	0 = Não
		I = Sim
CII.	Quem tem mais facilidade de acesso ao	☐ Homem
	financiamento?	☐ Mulher☐ Ambos
C12.1	Explique porquê? (aplicável se selecionar homem ou	☐ Confiam mais nos
	mulher)	homens Confiam mais nas
		□ Confiam mais nas mulheres
		☐ As mulheres têm
		mais capacidade de
1		pagar o empréstimo













		□ Os homens têm mais capacidade de
		pagar o empréstimo
		□ Outros
C13.	Quais os órgãos de tomada de decisão sobre	□ ССР
	acesso, uso e gestão de recursos costeiros e	□ IDEPA
	marinhos, existentes na comunidade?	□ Não existe□ Outro (especifique)
C14.	Conte-nos qual é o nível de	☐ Muito envolvida
	envolvimento/participação das mulheres na	☐ Envolvida
	• • •	□ Pouco envolvida
	concepção da lei ou desenvolvimento do plano de	□ Não esta envolvida
	gestão dos recursos marinhos a nível local/distrito	
	ou nível provincial.	
C15.	Você tem alguma informação sobre legislação e	0 = Não
	políticas que regulam os recursos naturais e	I = Sim
	pesqueiros/marinhos?	
C15.1.	Quais?	
C16.	Já teve dificuldades para obter informações sobre	0 = Não
	legislação e políticas que regulam os recursos	I = Sim
	naturais e pesqueiros/marinhos?	
C17.	Sente que as mulheres tem sido envolvidas nos	0 = Não
	processos de disseminação de leis?	I = Sim
C18.	Como você classificaria a tendência de acesso à	☐ Aumentou
	educação formal entre as mulheres?	☐ Mantem
		□ Reduziu □ Não sei
C19.	A sua comunidade já vivenciou uma situação de	0 = Não
	degradação da biodiversidade marinha/costeira?	I = Sim
C20.	Isso afectou ao seu agregado familiar?	0 = Não
		I = Sim
C20.1	De que forma?	
C21.	Já teve alguma formação/treinamento em gestão de	0 = Não
	recursos marinhos costeiros e adaptação às	I = Sim
	mudanças climáticas?	

Terminamos aqui com a entrevista, muito obrigado pela atenção dispensada!































Query3_individual_Interview_BNS and Land Tenure Assessment

Estudo Socioeconómico e de Género - Projecto "Building a Blue Future for Ecosystems and People on the East African Coast - Blue Future (BF)"

Perguntas para HH_ BNS e Avaliação de Posse de Terra APRESENTAÇÃO E PEDIDO DE CONSENTIMENTO

Bom	dia/Bo	oa ta	rde Se	enhor(a),	0	meu	nome	é
Convido-	lhe para	participar	no estudo	denominado	Avaliação	Socioecor	nómica das	partes
interessa	das para (desenvolver	a proposta o	do MPA, a ser	conduzida	pela ADPP	Moçambiqu	e e Moz
Target, e	liderada	pela Wildlif	e Conservati	on Society (W	'CS) atravé	s do projet	o Futuro Az	zul (Blue
Future),		financiado	F	pela	Blue	Actio	on	Fund.
•	•		é voluntária é o KOBO To	e a mesma será olbox.	i conduzida	através de	inquérito in	dividual,
fornecerã para a pr	o inform oteção d	ações da sit os recursos	tuação atcual naturais dos	dequadamente , buscando de s quais as com neios de subsis	finir com e unidades de	elas o melho ependem, g	or caminho arantindo n	a seguir nelhores
o seu con	•		luer moment	os e o particip o, seja antes o enhum p				
receberá	nenhum	a remunera	ıção referen	quirido, não ao te a este est do(a) senhor(a	udo. Os r	esultados d	deste estud	o serão
-	•	ra informaçã cto +258 84	-	ntactar Carlos	Meirinhos	(Investigado	or Primário)	, através

SEÇÃO A: INFORMAÇÕES DEMOGRÁFICAS

PAR A I	Coordenadas geográficas	[automático]
A2	Província	
A2.	Distrito	Memba mossuril
A2.	Localidade	















A2. 4	Comunidade/ Povoado				
Inforn	nações do respondent				
A3	Qual é a sua idade?				
A4	Sexo?	Masculino			
A4	Sexo:	Feminino			
		Solteiro			
		União de fatos			
A5	Estado civil?	Casado			
		Divorciado			
		Viúva			
		Crianças e jovens dos 0 aos 17 anos (Homens)			
		Crianças e jovens dos 0 aos 17 anos (Mulheres)			
	A6. Quantos membros tem o seu AF,	Adultos, de 18 aos 64 anos (Homens)			
A6	incluindo a si?	Adultos, de 18 aos 64 anos (Mulheres)			
		Idosos, de 65 anos ou mais (Homens)			
		Idosos, de 65 anos ou mais (Mulheres)			
		□ Não concluiu o Primário			
	Nível de escolaridade	☐ Primário			
A7.		□ Secundário			
		☐ Nível superior			
		□ Nenhum			
A8	Você é o chefe da família?	Sim			
		Não			
A8.	Se não é o chefe do agregado familiar,	Masculino			
ı	qual é o sexo do chefe do agregado	Feminino			
	familiar?				
		Crianças e jovens dos 0 aos 17 anos (Homens)			
	A6. Quantos membros tem o seu AF,				
A6	incluindo a si?	Crianças e jovens dos 0 aos 17 anos (Mulheres)			
		Adultos, de 18 aos 64 anos (Homens)			
		Adultos, de 18 aos 64 anos (Mulheres)			















	Idosos, de 65 anos ou mais (Homens)
	Idosos, de 65 anos ou mais (Mulheres)

SEÇÃO B: PERGUNTAS PRINCIPAIS GERAIS

В.1.	Gostaria de saber mais sobre como se sente sobre	Sim
	sua vida nesta comunidade. Considerando tudo,	Não
	sua satisfação com sua vida, sente que as coisas	não sei
	mudaram nos últimos anos?	optou por não responder
B.1.1	Se sim, como ?	☐ Muito pior
		☐ Pior
		☐ Melhor
		☐ Muito melhor
B.2.	Vou ler uma lista de atividades, diga sim se você ou	☐ Pesca
	alguém da sua família fizer a atividade	□Vendedor/comerciante/processador
		de peixe
		☐ Recolhendo
		□ caça
		□ Turismo
		☐ Cultivo de algas ou aquicultura
		☐ Agricultura
		☐ Fornecedor de bens essenciais
		☐ Vendedor de refeições básicas e
		biscoitos
		☐ Mototaxista
		☐ Agente público
		☐ Optou por não responder
		□ outros
B.3.	Quais são as 3 principais atividades que sustentam s	sua família?



C.I.I.

Será realmente isto uma necessidade?













		Cl ·C ~		- 4 1	
		Classificação		# de pessoas no	
		da importân	ncia	DOMICÍLIO envolvidas	
	Atividade de subsistência	para o		na atividade	
		AGREGAD	o '	Mulheres	Homens
		FAMILIAR			
	Pesca e coleta		Ī		
	Comércio/venda de peixe				
	Cultivo de algas ou Aquicultura				
	Caça				
	Agricultura (inclui hortas domésticas, gado)				
	Emprego assalariado (por exemplo, professor, enfermeiro)				
	Turismo				
	Pequenos negócios / Atividades econômicas				
	informais				
	remessas				
	Previdência social governamental				
	Outro:				
	Nenhuma				
B.4.	Houve algum projeto em sua comunidade focac na melhoria dos meios de subsistência nos último anos?				
B.4.1	Se sim, cite os projetos que você conh		ou p	or nao respe	, rider
B.4.2	Se sim, esses projetos aumentaram a renda fam ou a disponibilidade de alimentos para sua fam	ília?			
SEÇÃO	O C: PESQUISA DE NECESSIDADES BÁ	SICAS			
	Tem acesso a água potável segura num			Sim	
C.I	minutos a pé			Vão	
			□ □	Ëo sei	

☐ Optou por não responder

☐ Sim















		□ Não
		□ Não sei
		□ Optou por não responder
C.2	Na sua casa tem enxada	☐ Sim
		□ Não
		□ Não sei
		□ Optou por não responder
	Será realmente isto uma necessidade?	□ Sim
C.2.1.		□ Não
C.2.1.		□ Não sei
		☐ Optou por não responder
C.3	Tem acesso a serviços de Saúde dentro da comunidade	☐ Sim
		□ Não
		□ Não sei
		☐ Optou por não responder
	Será realmente isto uma necessidade?	☐ Sim
C.3.1.		□ Não
C.J.1.		□ Não sei
		☐ Optou por não responder
C.4.	Tem Acesso a Moageira dentro da comunidade	☐ Sim
		□ Não
		□ Não sei
		☐ Optou por não responder
	Será realmente isto uma necessidade?	☐ Sim
C.4.1.		□ Não
C. 1.1.		□ Não sei
		□ Optou por não responder
C.5	Tem Acesso a mesquita dentro da localidade	☐ Sim
		□ Não
		□ Não sei
		□ Optou por não responder
	Será realmente isto uma necessidade?	☐ Sim
C.5.1.		□ Não
		□ Não sei
		□ Optou por não responder
C.6.	Tem Acesso a mercado dentro da localidade	□ Sim
		□ Não
		□ Não sei
		□ Optou por não responder
	Será realmente isto uma necessidade?	☐ Sim
C.6.1.		□ Não
		□ Não sei
67		Optou por não responder
C.7.	Tem Acesso a serviços de alfaiataria dentro da localidade	☐ Sim
		□ Não
		□ Não sei















		□ Optou por não responder
	Será realmente isto uma necessidade?	☐ Sim
C.7.1.		□ Não
C.7.1.		□ Não sei
		□ Optou por não responder
C.8.	Na sua casa tem ou alguém Catana	☐ Sim
		□ Não
		□ Não sei
		□ Optou por não responder
	Será realmente isto uma necessidade?	□ Sim
C.8.1.		□ Não
C.8.1.		□ Não sei
		□ Optou por não responder
C.9.	Na sua casa tem Machado	☐ Sim
		□ Não
		□ Não sei
		☐ Optou por não responder
	Será realmente isto uma necessidade?	□ Sim
		□ Não
C.9.1.		□ Não sei
		☐ Optou por não responder
C.10.	Tem Machamba	
		□ Não
		□ Não sei
		☐ Optou por não responder
	Será realmente isto uma necessidade?	□ Sim
		□ Não
C.10.1.		□ Não sei
		☐ Optou por não responder
C.II	A casa tem cobertura de zinco	□ Sim
		□ Não
		□ Não sei
		☐ Optou por não responder
	Será realmente isto uma necessidade?	□ Sim
		□ Não
C.11.1.		□ Não sei
		☐ Optou por não responder
C.12.	Na sua casa alguém tem rede de pesca	□ Sim
	·	□ Não
		□ Não sei
		☐ Optou por não responder
	Será realmente isto uma necessidade?	☐ Sim
		□ Não
C.12.1.		□ Não sei
		☐ Optou por não responder
C.13.	Tem Congelador ou Geleira	















		□ Não
		□ Não sei
		□ Optou por não responder
	Será realmente isto uma necessidade?	☐ Sim
C.13.1.		□ Não
C.13.1.		□ Não sei
		□ Optou por não responder
C.14.	As pessoas em idade escolar que vivem nesta casa tem	□ Sim
	acesso a escola	□ Não
		□ Não sei
		☐ Optou por não responder
	Será realmente isto uma necessidade?	□ Sim
C.14.1.		□ Não
C.14.1.		□ Não sei
		☐ Optou por não responder
C.15.	Na sua casa tem TV	☐ Sim
		□ Não
		□ Não sei
		☐ Optou por não responder
	Será realmente isto uma necessidade?	☐ Sim
C.15.1.		□ Não
C.13.1.		□ Não sei
		□ Optou por não responder
C.16.	Na sua casa alguém tem Telefone	□ Sim
		□ Não
		□ Não sei
		☐ Optou por não responder
	Será realmente isto uma necessidade?	☐ Sim
C.16.1.		□ Não
C.10.1.		□ Não sei
		☐ Optou por não responder
C.17.	Na sua casa tem Energia	☐ Sim
		□ Não
		□ Não sei
		□ Optou por não responder
	Será realmente isto uma necessidade?	☐ Sim
C.17.1.		□ Não
		□ Não sei
		□ Optou por não responder
C.18.	Na sua casa tem Latrina melhorada/com laje	☐ Sim
		□ Não
		□ Não sei
		☐ Optou por não responder
	Será realmente isto uma necessidade?	□ Sim
C.18.1.		□ Não















		☐ Optou por não responder
C.19.	Tem Casa de bloco	□ Sim
		□ Não
		□ Não sei
		□ Optou por não responder
	Será realmente isto uma necessidade?	☐ Sim
C.19.1.		□ Não
C.17.1.		□ Não sei
		☐ Optou por não responder
C.20.	Tem Barco a motor	☐ Sim
		□ Não
		□ Não sei
		☐ Optou por não responder
	Será realmente isto uma necessidade?	☐ Sim
C.21.1.		□ Não
C.21.1.		□ Não sei
		☐ Optou por não responder
C.22.	Na sua casa Tem Plasma	☐ Sim
		□ Não
		□ Não sei
		☐ Optou por não responder
	Será realmente isto uma necessidade?	☐ Sim
C.22.1.		□ Não
C.22.1.		□ Não sei
		☐ Optou por não responder
C.23.	Na sua casa alguém tem Bicicleta	☐ Sim
		□ Não
		□ Não sei
		☐ Optou por não responder
	Será realmente isto uma necessidade?	☐ Sim
C.23.1.		□ Não
		□ Não sei
		□ Optou por não responder
C.24.	Na sua casa alguém tem Emprego formal	☐ Sim
		□ Não
		□ Não sei
		Optou por não responder
	Será realmente isto uma necessidade?	☐ Sim
C.24.1.		□ Não
		□ Não sei
C 25	No sur service de Maria	Optou por não responder
C.25.	Na sua casa alguém tem Mota	☐ Sim
		□ Não
		□ Não sei
		Optou por não responder
I C.25.1.	Será realmente isto uma necessidade?	☐ Sim















		□ Não
		□ Não sei
		□ Optou por não responder
C.26.	As suas crianças tem acesso a escolinha	□ Sim
		□ Não
		□ Não sei
		□ Optou por não responder
	Será realmente isto uma necessidade?	□ Sim
C.26.1.		□ Não
C.26.1.		□ Não sei
		☐ Optou por não responder
C.27.	Tem acesso a Farmácia privada dentro da sua localidade	□ Sim
		□ Não
		□ Não sei
		□ Optou por não responder
	Será realmente isto uma necessidade?	☐ Sim
C.27.1.		□ Não
C.27.1.		□ Não sei
		□ Optou por não responder
C.28.	Tem acesso a esquadra	□ Sim
		□ Não
		□ Não sei
		□ Optou por não responder
	Será realmente isto uma necessidade?	☐ Sim
C.28.1.		□ Não
C.20.1.		□ Não sei
		☐ Optou por não responder
C.29.	Na sua casa tem Ventoinha	☐ Sim
		□ Não
		□ Não sei
		☐ Optou por não responder
	Será realmente isto uma necessidade?	☐ Sim
C.29.1.		□ Não
		□ Não sei
		□ Optou por não responder
C.30.	Na sua casa tem Cama de madeira	☐ Sim
		□ Não
		□ Não sei
	Confunction to the confunction of the confunction o	Optou por não responder
	Será realmente isto uma necessidade?	☐ Sim
C.30.1.		□ Não
		□ Não sei
631	N. B.I.	Optou por não responder
C.31.	Na sua casa tem Relógio de parede	☐ Sim
		□ Não
•		













		☐ Optou por não responder
	Será realmente isto uma necessidade?	☐ Sim
C.31.1.		□ Não
C.31.1.		□ Não sei
		☐ Optou por não responder
C.32.	Na sua casa tem Cabritos	☐ Sim
		□ Não
		□ Não sei
		☐ Optou por não responder
	Será realmente isto uma necessidade?	☐ Sim
C.32.1.		□ Não
C.32.1.		□ Não sei
		☐ Optou por não responder
C.33.	Na sua casa tem Bois	☐ Sim
		□ Não
		□ Não sei
		☐ Optou por não responder
33.1.	Será realmente isto uma necessidade?	☐ Sim
		□ Não
		□ Não sei
		☐ Optou por não responder

SECÃO D. POSSE DE TERRA

JLÇA	O D. I OSSE DE TERRA	
D.I	Na sua opinião, como caracteriza o nível de segurança de posse da terra comunitária (ou seja, terra ainda não alocada para as famílias) dentro da comunidade?	I. Estou muito seguro e não tenho preocupações com as terras comunitárias 2. Não há ameaça imediata à terra da comunidade, mas estou um pouco preocupado com possíveis ameaças no futuro 3. Não há ameaça imediata à terra comunitária, mas estou muito preocupado com possíveis ameaças 4. Nossos direitos à terra da comunidade estão sendo ameaçados 5. Já perdemos algumas terras comunitárias nos últimos dois anos 6. Não sei responder
D.2	D2.Qual é a fonte / fontes de ameaça, que você sente atualmente, que levam à perda de terras?	 □ De outros membros da minha comunidade □ Dos meus líderes comunitários □ De pessoas de outra comunidade □ Do governo □ De um investidor ou outro estranho □ Outros
D.3	D3. Você pode explicar melhor o que aconteceu?	
D.4	Qual é a sua percepção de segurança em relação à	☐ Estou muito seguro e não tenho preocupações com a terra da minha família















	posse da terra de sua família?	 Não há ameaça imediata à minha terra, mas estou um pouco preocupado com possíveis ameaças no futuro. Não há ameaça imediata à minha terra, mas estou muito preocupado com possíveis ameaças. Meus direitos à terra estão sendo ameaçados Já perdemos algumas terras familiares nos últimos dois anos. eu não sei como responder 					
D.5	Como você se sente	☐ Discordo totalmente					
	sobre a seguinte	□ Discordo					
	declaração: "As mulheres	☐ Neutro					
	devem ter o mesmo	□ Concordar					
	acesso que os homens	☐ Concordo plenamente					
	aos recursos e	'					
	oportunidades sociais, econômicas e políticas"						
D.6.	Como você se	☐ Discordo totalmente					
	sente sobre a	□ Discordo					
	seguinte	□ Neutro					
	declaração:	□ Concordar					
	"As mulheres	☐ Concordo plenamente					
	devem poder						
	possuir e controlar a						
	terra e os						
	recursos em						
	seu próprio						
	nome"						
D.7.	Você teve experiência						
	pessoal de conflito de	□ Não					
	terra durante os últimos						
D.8	dois anos? Qual era a natureza da	☐ 1 ::::					
D.0	disputa?	Limites					
	- P	☐ Propriedade					
		□ Usar					
D.9	O que foi feito para	Outro					
D.9	O que foi feito para resolver a disputa?	☐ Discussão entre as partes envolvidas (sem ajuda externa)					
		☐ Discussão entre as partes (com envolvimento de amigos					
		e/ou familiares)					
		☐ Submetidos às autoridades tradicionais para resolução					
D 10	Ouel a secola scuel de	☐ Submetido ao governo para resolução					
D.10	Qual o estado atual do conflito?	☐ A disputa continua					
	Commito:	☐ Está em processo de resolução entre nós					
		☐ Está em processo de resolução com ajuda das lideranças					
		tradicionais					
		☐ Está em processo de resolução com a ajuda do governo					
D.II	Na sua opinião, como vecê	☐ A disputa foi resolvida					
וו.ט	Na sua opinião, como você caracterizaria a capacidade	☐ A comunidade tem toda a capacidade necessária para gerir o acesso à terra					
	da comunidado do						















	administrar o acesso à terra dentro de sua área?	 □ A capacidade de gerir o acesso à terra dentro da comunidade é forte □ A comunidade tem capacidade para gerir o acesso à terra, mas com algumas dificuldades □ A capacidade de gerir o acesso à terra dentro da comunidade é fraca Torna-se impossível para a comunidade gerir o acesso à terra
D.12	Na sua opinião, como você caracterizaria a capacidade da comunidade para resolver conflitos de terra?	 □ A comunidade tem toda a capacidade necessária para resolver conflitos □ A capacidade da comunidade para resolver conflitos é forte □ A comunidade tem capacidade de resolver conflitos, mas com algumas dificuldades □ A capacidade da comunidade para resolver conflitos é fraca □ Torna-se impossível para a comunidade resolver conflitos
D.13	Na sua opinião, como você caracterizaria o atual nível de influência das mulheres na tomada de decisões sobre terras comunitárias?	 □ Tem mais influência do que os homens □ Tem o mesmo nível de influência que os homens □ Tem menos influência que os homens □ Não tem influência □ não sei
D.14	Na sua opinião, como você caracterizaria o nível atual de influência das mulheres na tomada de decisões sobre terras familiares?	 □ Tem mais influência do que os homens □ Tem o mesmo nível de influência que os homens □ Tem menos influência que os homens □ Não tem influência □ Não sei















Focus Group Discussion Guide

Guia de Discussão de Grupo de Foco

Estudo de Base - Projecto"Construindo um Futuro Azul para Ecossistemas e Pessoas na Costa Leste Africana - Futuro Azul (BF) " Tema: PAPÉIS E RELAÇÕES DE GÉNERO INFLUENCIAM O ACESSO, USO, MANEJO E CONSERVAÇÃO DA BIODIVERSIDADE

INTRODUÇÃO E PEDIDO DE CONSENTIMENTO

Bom Dia boa tarde! O meu nome é... Fomos contratados pela ADPP que, em parceria com a WCS, com financiamento da Blue Action, está a implementar um projeto financiado denominado "Building a Blue Future for Ecosystems and People on the East African Coast -Blue Future (BF)", nos distritos de Mossuril e Memba. Este projeto visa restaurar os sistemas ecológicos nas áreas dos dois distritos mencionados, principalmente manguezais, ervas marinhas e recifes de coral. Através deste projeto, a ADPP estabelecerá 33 clubes de subsistência onde aprenderão sobre agricultura de conservação; promoverá atividades alternativas de geração de renda e plantio de árvores.

O objetivo deste estudo é entender a situação atual das comunidades e partes interessadas na redução e remoção de ameaças aos habitats de ervas marinhas e manguezais, aumentando sua resiliência às mudanças climáticas e restaurando manguezais em uma área de 50ha, abrangendo 5.000 famílias.

Sua participação neste grupo de discussão é voluntária. Nunca associaremos seu nome às respostas que você fornecer. Embora prometamos manter suas informações confidenciais e peçamos aos outros participantes que façam o mesmo, não podemos prometer que ninguém neste grupo focal não revelará nada do que disse. Por favor, tenha isso em mente se você fornecer suas respostas.

Você pode encerrar a participação a qualquer momento. Você está disposto a participar?

Se você tiver dúvidas sobre este trabalho, entre em contato com (Nome da pessoa apropriada e informações de contato)

Vamos começar com a primeira pergunta.

Detalhes da entrevista (Facilitador: preencha esta informação antes da entrevista. Não pergunte aos participantes)

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A. COMO OS PAPÉIS E RELAÇÕES DE GÉNERO INFLUENCIAM O ACESSO, USO, MANEJO E CONSERVAÇÃO DA BIODIVERSIDADE

I. Perfil da atividade

Falem-nos de como é feita a distribuição de tarefas/atividades nas vossas casas, com base, no género. Quando falo de género me refiro a mulheres, homens, raparigas e rapazes (No caso de actividades compartilhada, explorar quem faz mais)

- Tarefas domésticas, como: Limpezas, buscar lenha, buscar água, preparar comida, cuidar das crianças/idosos, lavar roupa.
- Tarefas produtivas: Preparação do solo/terra, gestão da cultura no campo, colheita/pós-colheita e venda; pesca, transporte, processamento e venda de peixe.

Explicar a razão da participação de homens e mulheres nestas actividades?

Quem e responsável por decidir divisão de tarefas produtivas? Porque?

2. RELÓGIO DE ACTIVIDADE DIÁRIA (CALENDÁRIO DIÁRIO DE 24 HORAS)

Como é a distribuição das tarefas que mencionaram ao longo do dia?

Tempo	Atividades diárias							
	Mulheres	Homens						
05:00								
06:00								
07:00								
08:00								
09:00								
10:00								
11:00								
12:00								
13:00								
14:00								
15:00								
16:00								
17:00								
18:00								
19:00								
20:00								
21:00								
22:00								
23:00								
24:00								















3. CALENDÁRIO SAZONAL

Como é a distribuição das tarifaras das tarifas ao longo do ano? Queremos que nos digam, por ex, que No mês X as mulheres se ocupam com a actividade Y e os homens com actividade Z.

Atividade	Quem	Janeiro	Fevereiro	Março	Abril	Maio	Junho	Julho	Agosto	Setembro	Outubro	Novembro	Dezembro
	Homens												
	Mulheres												
	Homens												
	Mulheres												
	Homens												
	Mulheres												
	Homens												

- 4. Como e feita (órgãos) a decisão sobre o acesso, uso e gestão de recursos costeiros e marinhos (mar, floresta) na vossa comunidade? Qual é o nível de envolvimento de homens e mulheres?
- 5. Será que existem algumas barreiras (prácticas, costumes tradicionais) que fazem com que homens e mulheres tenham desigual aos recursos naturais? Porque?
- 6. Quais são os desafios no acesso, uso/exploração dos recursos marinhos e costeiros?
- 7. O que o projecto pode fazer para envolver mulheres na tomada de decisões, acesso e uso de recursos marinhos e costeiros para actividades produtivas?















Guia de Discussão de Grupo de Foco

Estudo de Base - Projecto"Construindo um Futuro Azul para Ecossistemas e Pessoas na Costa Leste Africana - Futuro Azul (BF) "

Tema: Vulnerabilidade Climática e Análise de Capacidades

INTRODUÇÃO E PEDIDO DE CONSENTIMENTO

Bom Dia boa tarde! O meu nome é... Fomos contratados pela ADPP que, em parceria com a WCS, com financiamento da Blue Action, está a implementar um projeto financiado denominado "Building a Blue Future for Ecosystems and People on the East African Coast -Blue Future (BF)", nos distritos de Mossuril e Memba. Este projeto visa restaurar os sistemas ecológicos nas áreas dos dois distritos mencionados, principalmente manguezais, ervas marinhas e recifes de coral. Através deste projeto, a ADPP estabelecerá 33 clubes de subsistência onde aprenderão sobre agricultura de conservação; promoverá atividades alternativas de geração de renda e plantio de árvores.

O objetivo deste estudo é entender a situação atual das comunidades e partes interessadas na redução e remoção de ameaças aos habitats de ervas marinhas e manguezais, aumentando sua resiliência às mudanças climáticas e restaurando manguezais em uma área de 50ha, abrangendo 5.000 famílias.

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B. VULNERABILIDADE CLIMÁTICA E ANÁLISE DE CAPACIDADE

BI. Questões Climáticas Questionário do Focus Group

Indicador O1.2: As aldeias são mais resilientes às mudanças climáticas (segurança hídrica e alimentar, estruturas comunitárias para gestão						
su	stentável da pesca).					
ı	De quais recursos naturais você mais depende?					
2	Há períodos do ano em que há falta de alimentos na comunidade?					
3	Quando e por quê?					
4	Há períodos do ano em que falta água? Quando e por quê?					
5	As mudanças climáticas contribuíram para a escassez desses recursos? Se assim for,					
	de que maneira?					
6	O que a comunidade tem feito para enfrentar a escassez desses recursos? E para					
	evitar que eles se esgotem novamente?					

	Indicador O2.1: Adoção de oportunidades diversificadas de meios de subsistência resilientes ao clima e melhoria das cadeias de valor pelos grupos-								
alv	vo do projeto.								
1	Quais são as principais atividades de subsistência nesta comunidade?								
	Para além destas atividades principais, que atividades secundárias tem desenvolvido								
	para garantir o seu sustento? Em quais cadeias de valor a comunidade está mais								
	envolvida? Por que?								
2	Como as mudanças climáticas afetam suas atividades de subsistência?								
3	O que a comunidade tem feito para minimizar os efeitos das mudanças climáticas em								
	suas atividades de subsistência?								
4	Você recebeu algum apoio para minimizar/mitigar os efeitos das mudanças climáticas								
	em suas atividades de subsistência?								















Guia de Discussão de Grupo de Foco

Estudo de Base - Projecto"Construindo um Futuro Azul para Ecossistemas e Pessoas na Costa Leste Africana - Futuro Azul (BF) "

DISCUSSÕES DO GRUPO FOCAL

Tema: Mapeamento de recursos e perigos e Linha do tempo de eventos históricos

INTRODUÇÃO E PEDIDO DE CONSENTIMENTO

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I) Mapeamento de recursos e perigos

Os participantes criam um mapa de habitats locais e recursos de subsistência como base para discussão sobre os perigos climáticos que afetam cada um.

Quais são os recursos naturais/habitates de que dependem nesta comunidade (Mar Florestas, Machambas, Minas)?	Quais são os perigos climaticos a que cada um esta expostos?	Como cada um dos habitates/recursis e afectado pelos choques?	Quais são as capacidades criadas/que a comunidade tem de adaptar?
Mar			
Rios			
Florestas – especies florestais			
Fauna			
Machambas			















3) Linha do tempo de eventos históricos

Os participantes (anciãos) criam uma linha do tempo dos principais eventos nacionais e locais como base para discutir eventos climáticos históricos (por exemplo, ciclones, secas), como eles afetaram a comunidade e como as pessoas lidaram ou se adaptaram.

Eventos principais gerais: Podem se lembrar e mencionar principais eventos nacionais e locais que marcarma os tempos/anos/decadas (Independencia, guerras, secas prolongadas, cheias fortes, ciclones, eleicoes)? Datas Aproximadas	mais ou menos no mesmo tempo de	Como estes eventos afetaram a comunidades? Se o acesso a recursos variou entre os membros da comunidade (por exemplo, homens e mulheres) com o tempo? Quem na comunidade sofreu mais (homens, mulheres, jovens etc, pessoas de grupos sociais especificos?)?	Como as comunidades s reagiram/lideram/adaptaram com esses eventos?

Qual e a vossa sencibilidade em relacao ao estabelecimento de uma area de conservacao?

Como uma zona de conservação pode afectar homens e mulheres?

Como minimizar esses impactos de criacao de area de conservacao?















Guia de Discussão de Grupo de Foco

Estudo de Base - Projecto"Construindo um Futuro Azul para Ecossistemas e Pessoas na Costa Leste Africana - Futuro Azul (BF) "

DISCUSSÕES DO GRUPO FOCAL

Tema: Calendário sazonal e Matriz de vulnerabilidade

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2) Calendário sazonal

Os participantes criam um calendário sazonal de agricultura, pesca e outras atividades como base para discussão sobre como eles são afetados pela estação seca extrema ou eventos climáticos da estação chuvosa e percepções de mudança em torno do clima sazonal.

I) Calendario

Actividades de sustento (pode especificar	Jan	Fev	Mar	Abr	Maio	Junho	Julh	Ag	Set	Out	Nov	Dez
actividades de homens e de mulheres)												
Estacoes do ano												
Chuvas												
Ventos fortes												
Temperatura												
Pesca												
Agricultura												
Cereais												
Legumes												
Horticolas												
Frutas												
Criacao de animais												
Pesca												
Corte de lenha/carvao												
Corte de material de construcao												
Caca												
Comercio												
Empregos												













.Nenl	num, 2. Baixa, 3. Medio, 4. Alto, 5.Muito Alto
II) III) IV)	Sera que os calendários sazonais de actividades mudaram ao longo do tempo e porquê? Os fatores relacionados ao clima desempenham um papel fundamental? Como as mudancas nas estacoes do ano (chuvas, ventos, temperaturas) ao longo do sanos afectaram cada uma das actividades de sustento? Como afectam homens e mulheres?
a)	Pesca
	Agricultura Cereais
\checkmark	Legumes
\checkmark	Horticolas
\checkmark	Frutas
c)	Criacao de animais
d)	Pesca
e)	Corte de lenha/carvao
f)	Colecta de recursos (xxxx)















4) Matriz de vulnerabilidade

Os participantes inserem (i) as principais atividades de subsistência e (ii) os maiores perigos para cada uma, em uma matriz, e avaliam os perigos em uma escala semi-q.

Actividades de sustento	Cheias	Secas	Ventos fortes/cilones	Erosao	Mudancas dos niveis do mar	Salinizacao de aguas dos furos de agua
Pesca						
Agricultura						
Cereais						
Legumes						
Horticolas						
Frutas						
Criacao de animais						
Pesca						
Florestas – materia de construcao/artezanato						
Corte de lenha/carvao						

Impactos: I.Nenhum, 2. Baixo, 3. Medio, 4. Alto, 5. Muito Alto

Qual e a voss sencibilidade em relacao ao estabelecimento de uma area de conservação?

Como uma zona de conservacao pode afectar homens e mulheres?

Como minimizar esses impactos de criacao de area de conservacao?















Key informants interview guide

Socio-economic study – Project "Building a Blue Future for Ecosystems and People on the East African Coast - Blue Future (BF)" CCP interview guide

INTRODUCTION AND CONSENT REQUEST

Good Morning Good Afternoon! My name is... We were hired by ADPP which, in partnership with WCS, with funding from Blue Action, is implementing a project called "Building a Blue Future for Ecosystems and People on the East African Coast - Blue Future (BF)", in the districts of Mossuril and Memba, financed. This project aims to restore the ecological systems in the areas of the two mentioned districts, mainly mangroves, seagrass and coral reefs. Through this project, ADPP will establish 33 livelihood clubs where they will learn about conservation agriculture; promote alternative income generation activities and tree planting. The aim of this study is to understand the current situation of communities and stakeholders in reducing and removing threats to seagrass and mangrove habitats, increasing their resilience to climate change and restoring mangroves in an area of 50ha, encompassing 5000 families.

Thank you very much for your time. I would like to ask your permission to interview you, this should take approximately 50 minutes. We invite you to participate because you are part of the residents of this community and were chosen at random. Please note that the answers given in this interview are for analysis purposes and the final results will be shared with the public. They will not be presented individually, ensuring the anonymity of the information you provide.

Your participation in this interview is voluntary. We will never associate your name with the answers you provide. We'll take notes, but it's just for me. Any information you give us will be preserved. If you don't want me to take notes or if you feel comfortable during the interview, we can stop at any time. If you have questions about this work, please contact (name of appropriate person and contact information) Are you willing to participate?

Before we start, can you introduce yourself?

nterview details (fill in this information before the interview. Do not ask the farmer)				
Enquirer's name				
Interview number/code				
interview data				
District				
province				
Community name				
General profile				
respondent's name				
Office				
Years in the role				
marital status				
Contacts (email and mobile)				















- I. How long has this CCP been in existence?
- 2. How many fishermen are there in this CCP? (Men/Women/Leadership members male/female ratio)?
- 3. How are men and women involved in CCP activities?
- 4. What are the main attributions of this CCP and if they are being properly implemented. If not, why, what are the main challenges/obstacles?
- 5. How does CCP coordinate activities with the National Institute for the Development of Fisheries and Aquaculture?
- 6. Are there marine fenced areas in the area you manage? How were these areas created? Are these zones being respected? Explain how?
- 7. Do you think it is possible to create more protection zones? Will fishermen accept and respect? Explain?
- 8. Are fishermen aware of the importance of closed areas for the sustainability of fisheries?
- 9. Have fishermen observed a decrease in the abundance of fishery resources in recent years?
- 10. How has climate change affected the PCC and fishermen in general? What are the climate change adaptation activities that CCP has been developing?
- 11. What are the main fishing grounds in your region?
- 12. What are the conflict resolution mechanisms regarding access to marine resources?
- 13. Are there many conflicts related to marine resources? What type?
- 14. What are the main successes achieved by the CCP's actions so far?
- 15. What can be done to make the CCP even more active and effective?
- 16. What do you think of the creation of a conservation area for sustainable use in conjunction with ongoing projects in the region, in which communities are involved in the respective management and can benefit through employment and income from tourism, participation in and monitoring from mangrove and seagrass restoration activities, the carbon credit income generated by these restoration activities, and the creation of alternative livelihoods?

The interview ends here, thank you very much for your attention!













Socio-Economic Study – Project "Building a Blue Future for Ecosystems and People on the East African Coast - Blue Future (BF)"

Interview guide for SDAE, SDPI and Community Leaders

INTRODUCTION AND CONSENT REQUEST

Good Morning Good Afternoon! My name is... We were hired by ADPP which, in partnership with WCS, with funding from Blue Action, is implementing a project called "Building a Blue Future for Ecosystems and People on the East African Coast - Blue Future (BF)", in the districts of Mossuril and Memba, financed. This project aims to restore the ecological systems in the areas of the two mentioned districts, mainly mangroves, seagrass and coral reefs. Through this project, ADPP will establish 33 livelihood clubs where they will learn about conservation agriculture; promote alternative income generation activities and tree planting.

The aim of this study is to understand the current situation of communities and stakeholders in reducing and removing threats to seagrass and mangrove habitats, increasing their resilience to climate change and restoring mangroves in an area of 50ha, encompassing 5000 families.

Thank you very much for your time. I would like to ask your permission to interview you, this should take approximately 50 minutes. We invite you to participate because you are part of the residents of this community and were chosen at random. Please note that the answers given in this interview are for analysis purposes and the final results will be shared with the public. They will not be presented individually, guaranteeing the anonymity of the information you provide.

Your participation in this interview is voluntary. We will never associate your name with the answers you provide. We'll take notes, but it's just for me. Any information you give us will be preserved. If you don't want me to take notes or if you feel comfortable during the interview, we can stop at any time. If you have questions about this work, please contact (Appropriate person name and contact information). Are you willing to participate?

Before we start, can you introduce yourself?

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Interview details (fill in this information	before the interview. Do not ask the farmer)
Enquirer's name	
Interview number/code	
interview data	
District	
province	
community name	
General profile	
Respondente's name	
Office	
Years in the role	
marital status	
Contacts (email and cell phone)	













- I. What are the main sources of income in the community/district? Is there a preference for sources of income between men and women, young people and adults?
- 2. What are the challenges for men and women, adults and youth to diversify their sources of income?
- 3. Estimate the % of families that depend mainly on fishing?
- 4. What has been the involvement and role of men and women in different fishing activities?
- 5. What are the actions that the SDAE/Government/ has taken to make communities more resilient to climate change?
- 6. What are the actions that the SDAE/Government/ has carried out to promote good agricultural practices, in particular agriculture and climate-smart agriculture?
- 7. What were the trends and lessons about adopting these practices and what are the challenges? Will there be any difference between H/M, youth/adults?
- 8. Talk about the availability, access and use of water for different purposes in this district/community?
- 9. Tell us about the use, access and availability of sustainable stoves in the district/community?
- 10. What are the most produced crops in this District/community? What are the value chains with the greatest demand in the market? How has the involvement of men and women been in these value chains?
- II. Tell us about the participation of women in economic activities in this District/community? What have been the challenges?
- 12. How has the participation of women in fishing activities been?
- 13. How does the District/community use the mangrove and other natural resources and for what purposes?
- 14. What are the actions that the SDAE/Government/ has carried out to promote the conservation/preservation of biodiversity?
- 15. Are there cultural, tourist, sacred, historic or religious sites in the area? What has been the SDAE/Government role in the use and conservation of these sites?
- 16. Are there conservation areas for mangroves, seagrasses and corals? Voluntary resource closures, no take zones?
- 17. Are there conflicts over access to marine resources? How are they usually resolved?
- 18. Tell us about Community Fisheries Councils (CCPs) (if they exist, how they work, challenges)?
- 19. What do the authorities think about creating a conservation area for sustainable use in coordination with the projects currently underway in the region, where communities are involved in its management and can benefit through employment and tourism revenue?, participating in and monitoring mangrove and seagrass restoration activities, the carbon credit income generated by these restoration activities, and the creation of alternative livelihoods?

The interview ends here, thank you very much for your attention!















Team Members

Consultants Core Team Members

Nome	Sex	Education
Sérgio Macuacua	Male	 2020 – PhD candidate in Management and Evaluation at Atlantic University, USA 2019 – Master in Rural Development at Universidade Eduardo Mondlane, Mozambique Training in Social Safeguards & Conservation Social Sciences
Issufo Omar	Male	 Postgraduate (MDA) in Sustainable Development Project Bachelor's degree in agriculture Training in Social Safeguards & Conservation Social Sciences
Fátima Cumbane	Female	 Graduate degree in Communication and Rural Extension Training in Social Safeguards & Conservation Social Sciences
Stela Fernando	Female	 Master in Aquatic Biology and Coastal Ecosystems Training in Social Safeguards & Conservation Social Sciences

Enumerators List and Profile

Nome	Sex	Education
Emília Caetano	Female	Master's Degree in Psycho-Pedagogy, Degree in Marine Biology
Fernandes Nobre	Male	Master in Development Management, Postgraduate in Development Management, Degree in Oceanography
Adélia Fazenda	Female	Degree in Sociology
Mariamo Agerafe	Female	Degree in Marine Biology
Benfica Napaua	Male	Degree in Applied Biology
Belson Rareque	Male	Degree in Forestry Engineering, Social Guard Guards
Miro Eugénio	Male	Degree in Marine Chemistry
Ângelo Balança	Male	Degree in Marine Biology
Esménio Pio	Male	Degree in Agriculture
Zena Joaquim	Female	Degree in aquaculture
Clara Miteca	Female	Aquaculture Engineering
Aissa de Lurdes	Female	Degree in Environmental Management and Community Development













Enumerators Training Program

Linha de Base do Projecto Futuro Azul - Mossuril, Memba e Nacala-Velha

Programa de Formação aos Inquiridores

Conteúdo	Tempo
DIA I	
Chegada e Registo de Participantes	08.00-08.30
Apresentação de Participantes	08.30-09.00
Introdução ao Projecto	09.00-09.20
Introdução ao Estudo de Base (Contexto e Metodologia)	09.00-09.20
Introdução ao questionário aos agregados familiares e tradução para emakua	09.20-10.30
Intervalo de café	10.30-10.45
Introdução ao questionário aos agregados familiares e tradução para emakua	10.45-12.30
Intervalo de almoço	12.30-13.30
Introdução ao questionário aos agregados familiares e tradução para emakua	13.30-16.30
DIA 2	
Continuação de Introdução ao questionário aos agregados familiares e tradução para emakua	08.00-10.30
Intervalo de café	10.30-10.45
Práctica com tablets	10.30-10.45
Intervalo de almoço	12.30-13.30
Práctica com tablets	12.30-16.30
Amostra, Itinerário	16.00-16.30
Dia 3	
Continuação de Práctica com tablets	08.00-10.30
Intervalo de café	10.30-10.45
Práctica com tablets	10.30-10.45
Intervalo de almoço	12.30-13.30
Práctica com tablets	12.30-15.30
Amostra, Itinerário	15.30-16.00
Considerações Finais, Logística, Horário, Regras de Disciplina	16.00-16.30
Dia 4	
Piloto	07.30-12.00
Comentários e sugestões	12.00-13.30