

LOGICAL FRAMEWORK AND ACTIVITY MATRIX

Sustainable management of small-scale coastal fisheries in Northern Madagascar

Conservation Centrée sur la Communauté Madagascar (C3 Madagascar)

	<i>Results chain</i>	<i>Indicator</i>	<i>Baseline (value & reference year)</i>	<i>Current value* (reference year) (* to be included in interim and final reports)</i>	<i>Target (value & reference year)</i>	<i>Source and mean of verification</i>	<i>Assumptions</i>
<i>Impact (Overall objective)</i>	<i>Small-scale fisheries at three locally-managed marine areas and key biodiversity areas in Northern Madagascar managed more sustainably</i>	<i>Number of local management structure in place and operational</i> <i>Total marine area protected</i>	<i>1(2011)</i> <i>125,471 Ha (2011)</i>	<i>2 (2019)</i> <i>165,269 Ha (2019)</i>	<i>3 (2024)</i> <i>174,675 Ha (2024)</i>	<i>MIHARI network database</i> <i>maps, database</i>	<i>Not applicable</i>
<i>Outcome (s) (Specific objective(s))</i>	<i>Small scale fisheries at Bay of Rigny, Ambodivahibe and Nosy Hara comprehensively assessed, identifying opportunities for more effective monitoring and management</i>	<i>Number of comprehensive fisheries assessments available for each site</i> <i>Number of SocMon databases available for each site</i> <i>Number of detailed fisheries management plans available for each site</i>	<i>0(2015)</i> <i>0</i> <i>0 (2015)</i>	<i>0(2019)</i> <i>0 (2019)</i> <i>0 (2019)</i>	<i>1(2024)</i> <i>1 (2024)</i> <i>1 (2024)</i>	<i>Technical report, fisheries database</i> <i>Database</i> <i>Management plan</i>	<i>Poor collaboration of local community, particularly fishers, reducing the quality and availability of data</i> <i>Extreme weather events (cyclones) preventing fisheries data collection</i> <i>Conflict between stakeholders over proposed fisheries management regimes</i>
<i>*Other Outcomes (*where relevant)</i>	<i>Local fishing syndicates and management bodies trained in fisheries and marine ecosystem ecology and management</i>	<i>Number of wardens trained in protected area management and monitoring (50% women)</i> <i>Number of wardens trained in patrolling and enforcement</i> <i>Number of wardens trained in ecology and marine ecosystems</i> <i>Number of awareness events held in collaboration with Junior Ecoguards</i>	<i>40(2017)</i> <i>0</i> <i>60(2016)</i> <i>0(2016)</i>	<i>80(2019)</i> <i>50(2019)</i> <i>60(2019)</i> <i>10(2019)</i>	<i>300(2024)</i> <i>150(2024)</i> <i>150(2024)</i> <i>50(2024)</i>	<i>List of wardens (50% women) trained, workshop reports, certificates</i> <i>List of wardens trained, workshop reports, certificates</i> <i>List of wardens (50% women) trained, workshop reports, certificates</i> <i>Activity reports, photographs, pre and post awareness evaluations</i>	<i>Sufficient capable and committed members of the communities willing to be wardens</i> <i>Fish wardens don't migrate away from the area</i> <i>Motivation of school teachers and other community volunteers to assist with youth training in outreach</i>

<i>*Other Outcomes (*where relevant)</i>	Management interventions implemented, focussing on opportunities that will yield rapid measurable results	<i>Fisheries management plan incorporated into LMMA management plan at each site</i>	0	0	1(2024)	<i>Officially endorsed management plan</i>	<i>High motivation of communities and syndicates to actively manage their marine resources</i>
		<i>Fisheries policy brief for each site</i>	0	0	1(2024)	<i>Fisheries policy brief</i>	
		<i>Number of pilot fisheries management actions implemented</i>	1(2017)	2(2019)	5(2024)	<i>Fisheries management schedule signed by local officials, quarterly reports</i>	<i>Support remains high for fishers to implement and abide by management actions</i>
		<i>Number of exchange visits by communities with other LMMAs</i>	0 (2017)	1 (2018)	4 (2024)	<i>Exchange visit report, signed attendance sheets, photos</i>	<i>Beneficiaries keen to share lessons learned with other communities</i>

Outputs	1.1 Technical report describing small scale fisheries at each site and management recommendations	Number of reports published	0	0	3(2024)	Technical reports, databases	Sufficient capable and committed members of the communities to engage in rotational monitoring and surveillance
	1.2 Long-term community monitoring protocol developed	Scheduled monitoring plan within Management plan	1(2017)	1(2019)	3(2024)	List of warden trained, database	
	2.1 High capacity of communities for protected area management and monitoring	Number of wardens trained in protected area management and monitoring	40(2017)	80(2019)	300(2024)	Workshop report, Attendance sheets, database	Stakeholders participate fully in policy consultations
	2.2 Data-informed policies for local management bodies recommending best practice management interventions	No. of policy brief	0 (2017)	1 (2019)	3(2024)	Policy brief	
	2.3 High public awareness about LMMA and fisheries management needs	Number of awareness events	4(2017)	8(2019)	44(2024)	Activity reports, photos, pre and post evaluation reports	
	3.1 LMMA and fisheries management programmes implemented on the ground	No of active management programmes	0	0 (2019)	3 (2024)	Data sheets	Consensus at each site for fisheries management measure
	3.2 At least 1 fisheries management measure implemented at each site	Number of fisheries management measures	0	0(2019)	3(2024)	Catch data	
	3.3 Exchange visits held with other LMMAs through MIHARI national network to share success stories and lessons learned and encourage replication of successful models	Number of exchange visit with other LMMAs	1 (2017)	2(2019)	5(2024)	Exchange visit report, attendance sheets, photos	

<i>Activities</i>		Means	Assumptions										
	<p>1.1.1 Monthly landing site surveys of artisanal fisheries</p> <p>1.1.2 Socioeconomic surveys of fishery- dependent households</p> <p>1.2 Long-term community monitoring protocol developed</p> <p>1.2.1 Training of 30 landing site surveyors at each site</p> <p>1.2.1 Regular quality control and evaluation of data collected by landing site teams</p> <p>2.1.1 Training of fishers in basic marine ecology and the importance of fisheries management</p> <p>2.1.2 Development of community fisheries management structures</p> <p>2.2.1 Identification of lessons learned in development of community enforcement programme through stakeholder consultation</p> <p>2.2.2 Development of policy brief in conjunction with local fisheries management bodies</p> <p>2.3.1 Training of local junior ecoguard teams (30 per site), with a focus on fisheries management</p> <p>2.3.2 Quarterly social marketing events held at each site</p> <p>3.1.1 Community and local management structure consultations and to identify key areas to focus fisheries management</p> <p>3.1.2 Development of formal community-endorsed management plans</p> <p>3.2.2 Consensus attained on most likely management measure for success</p> <p>3.2.2 Implementation of measure</p> <p>3.2.3 Ongoing monitoring of implementation success and impacts on fish stocks and catch</p> <p>3.3.1 Collaboration with MIHARI to promote exchange meetings with other successful LMMAs to exchange information</p>	<p>Means</p> <p>C3 will lead the project with a Programme Coordinator, Finance and Administration Officer, Senior Programme Officer and 4 Programme Officers.</p> <p>18 existing voluntary Community Liaison Officers recruited from 2019 will be engaged as village-based coordinators</p> <p>Other stakeholders assisting in the implementation of the project include:</p> <p>Fishing syndicates Womens associations University of Antsiranana University of Antananarivo MIHARI network Ministry of Environment and Sustainable Development Ministry of Agriculture and Fisheries Ministry of Education Ministry of Population Conservation International (CI)</p> <p>C3 has a permanent office in Antsiranana and owns most of the necessary field equipment required for the action as well as a sizeable research library.</p> <p>Costs</p> <table border="0"> <tr> <td>Subtotal Human Resources</td> <td style="text-align: right;">181,960</td> </tr> <tr> <td>Subtotal Travel</td> <td style="text-align: right;">110,400</td> </tr> <tr> <td>Subtotal Equipment and supplies</td> <td style="text-align: right;">60,200</td> </tr> <tr> <td>Subtotal Local office</td> <td style="text-align: right;">61,200</td> </tr> <tr> <td>Subtotal Other costs, services</td> <td style="text-align: right;">130,000</td> </tr> </table>	Subtotal Human Resources	181,960	Subtotal Travel	110,400	Subtotal Equipment and supplies	60,200	Subtotal Local office	61,200	Subtotal Other costs, services	130,000	<p>Assumptions</p> <p>Serious climatic events or natural disasters do not impact ability to reach target sites or create anomalous fisheries yields</p> <p>Community support for the action remains strong</p>
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