

Grounding coral restoration planning in MPA sustainable financing

Emma Doyle, MPAConnect Coordinator Key West, June 12, 2024

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Presentation outline

- 1. Sustainable financing
- 2. MPAConnect budget template
- 3. Getting the budget started from coral restoration goals
- > reality check for roadmap
- > position the MPA to better manage coral restoration





A network for learning among Caribbean marine resource managers



Challenges and needs in management of coral restoration

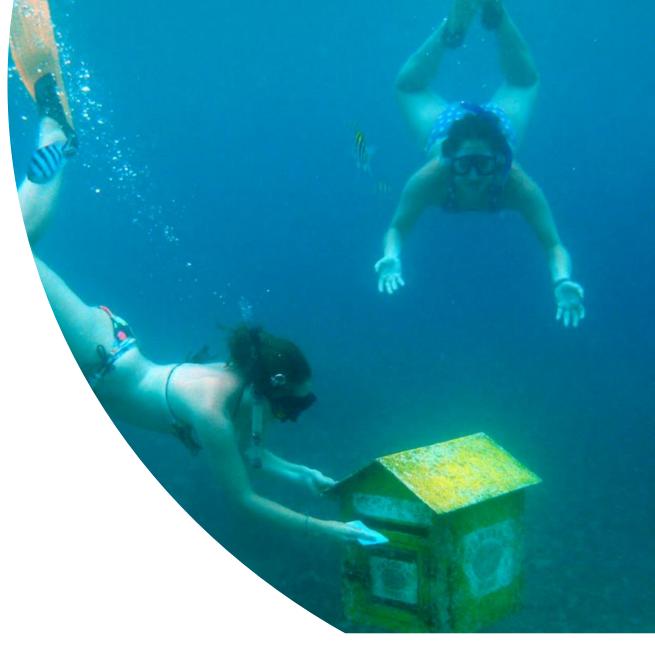
	Mentions
Technical capacity	21
Funding	19
Planning	15
Staff shortages	15
Partnership building	11
Other threats to reefs	7
Training/sharing	5
Equipment	5
Communications/outreach/support	5
Monitoring	4
Permitting	3
Herbivore co-cultivation	3
Other	2





What is MPA sustainable financing?

- Ability to maintain stable and sufficient long-term financial resources
- Diverse and resilient mix of financing streams
- Cover full costs of effectively and efficiently managed MPAs
- Financing that recognizes and supports the benefits biodiversity provides to communities and the blue economy















This message is for @Arjan De Groene: We have Panda. He is safe for now but we have requests. In 24 hours we want funded: A new shark tagging project The Aruba burrowing owl project Fla...



MPLE MPA								Budget - Year One					
egic Level Management /Outcomes	Priority level	Main Operational Activity	Sub-activity	Program Area (select from list below)	Budget item (select from list below)	Cost Calculation Description	Unit	Number of units	Cost per unit	Total cost (Year 1)	Funding secured	Funder	Balance to be raised
,													
odate the MPA management		monitoring findings into management Plan	Desk work by research assistant	Research and monitoring	Personnel	1 week of research assistant's time	Per month	25%	\$2,000	\$500	\$500	Donor x	\$0
		1.1.2 Hold stakeholder consultation meetings to share monitoring findings with buffer communities	Travel for community meetings	Research and monitoring	Consumables	gallons spare (e.g. for follow up with individual community) x \$13/gallon	Per gallon	15	\$13	\$195	\$0		\$195
mplement MPA enforcement egy	#	1.2.1 Run high season patrol program	Head Ranger salary	Enforcement	Personnel	1 head ranger*6 months full time 2\$2000 /month	Per month	6	\$2,000	\$12,000	\$12,000	MPA	\$0
	+1		Ranger salaries	Enforcement	Personnel	3 rangers*6 months full time &\$1000/month	Per month	18	\$1,000	\$18,000	\$18,000	MPA	\$0
	++				Personnel	salaries 2\$5000/month	Per month	10%	\$5,000	\$500	\$500	MPA	\$0
			·			estimate in high season	Per month	6	\$1,000	\$6,000	\$3,000	(Fisheries)	\$3,000
			Boat maintenance - parts	Entorcement	Consumables	Average monthly estimate in high season	Per month	6	\$250	\$1,500	\$0		\$1,500
mplement MPA Junior Ranger am during summer school ays	М	2.1.1 Coordination of Program	Planning, scheduling and communications with schools and parents	Community development	Personnel	2 weeks of education officer's time	Per month	50%	\$2,000	\$1,000	\$1,000	Donor x	\$0
	M	2.1.2 Transport for kids	Bus pick up and drop off, transport	Community development	Travel	1 month of education officer's time	Per month	1	\$2,000	\$2,000	\$2,000	In-kind (bus co)	\$0
		2.1.3 Equipment and supplies		, ,	Equipment	per set	Per set	15	\$20	\$300	\$0		\$ 300
			Lunches and other supplies	Community development	Consumables	water for 15 kids 2\$10 per lunch		120	\$10	\$1,200	\$0		\$ 1,200
lun social media outreach and eting campaign	+1	2.2.1 Coordination of program	Desk work by communications officer	Communications	Personnel	1 communications officer	or month	12	\$750	\$9,000	\$9,000	МРА	\$ -
AGEMENT OBJECTIVE 3: eg. EFF													
1PA Networking	L	3.1.1Participate in regional conference	Travel to confere				трѕит	1	\$2,100	\$2,100	\$0	МРА	\$ 2,100
	L		Conference fees	L COLL			mpsum			\$0	\$0	MPA	\$ -
	L		MPA manager tin preparation, trav			The Park	r month	25%	\$3,500	\$875	\$875	M _P A	\$ -
			Pai napanon			A STATE OF THE STA	100				\$46,875	;	\$8,295
A A A A A A A A A A A A A A A A A A A	Mate the WPA management Mplement WPA enforcement egy AGEMENT OBJECTIVE 2: eg. STA mplement WPA Junior Ranger am during summer school ys un social media outreach and eting campaign AGEMENT OBJECTIVE 3: eg. EFFI	mplement WPA enforcement # # # # # # # # # # # # # # # # # # #	## 1.1.1 Incorporate latest coral reef monitoring findings into management plan ## 1.1.2 Hold stakeholder consultation meetings to share monitoring findings with buffer communities ## 1.2.1 Run high season patrol program ## ## ## ## ## ## ## ## ## ## ## ## ##	monitoring findings into management plan 1.1.2. Hold stakeholder consultation meetings to share monitoring findings with buffer communities Travel for community meetings Travel for co	## 1.1.1 Interpretate latest coral reef monitoring findings into management plan ## 1.1.2 Hold stakeholder consultation mechanisms with buffer communities ## 1.2.1 Hold stakeholder consultation mechanisms with buffer communities ## 1.2.1 Run high season patrol program patrol program patrol program patrol	AGEMENT OBJECTIVE 1: e.g. EFFECTIVE PROTECTION OF WARTINE NATURAL RESOURCES date the WPA management ## 1.1.1 Encountering findings into management join ## 1.1.2-fold stakeholder consultation meetings to share monitoring findings with buffer community meetings With buffer communities ## 1.2.1 Run high season patrol program ## Ranger salarly ## Ranger salarly ## Ranger salarly ## Ranger over-time contingency ## Enforcement ## Enforcement ## Enforcement ## Consumables ## Enforcement ## Consumables ## Enforcement ## Consumables ## Enforcement ## Consumables ## Consumables ## 2.1.1 Coordination of program ## 2.1.2 Transport for kids ## Bus pick up and drop off, transport ## Community development ## Travel ## 2.1.3 Equipment and supplies ## Louches and other supplies ## Community development ## Consumables ## Community development ## Commun	ASCEMENT OBJECTIVE 1:00, EFFECTIVE PROTECTION OF WAITINE NATURAL RESOURCES White WTA management ## 1.1,12 Hold shelzholder crossistation increases in the protection of judings into management she ## 1.1,24 Hold shelzholder crossistation increases in share monitoring fludings into management she ## 1.1,24 Hold shelzholder crossistation increases with buffer communities ## 1.2.1 Trans Ingly season patrol program ## 1.2.2 Transport of staff salaries ## 1.2.2 Transport of staff salaries ## 1.2.2 Transport for kids ## 2.2.1 Coordination of program ## 2.1.1 Coordination of program ## 2.1.2 Transport for kids ## 2.2.2 Coordination of program ## 2.1.3 Equipment and supplies ## 2.1.3 Equipment and supplies ## 2.2.4 Coordination of program ## 2.2.4 Co	Accommendation of the MTA management of the	Accommendation processes and the program of the WPA management of	Acception Described 1: 69, EFFECT FOR FROTECT FOR ON WARTER BATTURAL PESODRESS After the MYA management would remove the first present and monitoring findings into management your findings into management your first present assistant or present and monitoring findings into management your findings into management your findings into management your findings with indiffer commonities. If 11,2 Fids individual present monitoring findings with findings and present findings with findings wit	Account MYA evigracement of the MYA management of the MYA manageme	Accordance of the With management of the With the Wit	Address to RPTA mensagement of the PATA mensagement of

	EXAMPLE MPA			
Activity Code	Strategic Level Management Goals/Outcomes	Priority level	Main Operational Activity	Sub-activity
	MANAGEMENT OBJECTIVE 1: eg. EF	FECTIVE	PROTECTION OF MARINE NATUR	AL KESOURCES
	1.1 Update the MPA management plan	#	1.1.1 Incorporate latest coral reef monitoring findings into management plan	Desk work by research assistant
		++	1.1.2 Hold stakeholder consultation meetings to share monitoring findings with buffer communities	Travel for community meetings
	1.2 Implement MPA enforcement strategy	H	1.2.1 Run high season patrol program	Head Ranger salary
		#		Ranger salaries
		H		Ranger over-time contingency
		++		Fuel
		#		Boat maintenance - parts
	MANAGEMENT OBJECTIVE 2: eq. ST;	AKEHOLD	PER ENGAGEMENT	
	21 Implement MPA Junior Ranger Program during summer school holidays	M	2.1.1 Coordination of Program	Planning, scheduling and communications with schools and parents
		M	2.1.2 Transport for kids	Bus pick up and drop off, transpor
		M	2.1.3 Equipment and supplies	Snorkel equipment
		M		Lunches and other supplies
	2.2.Run social media outreach and marketing campaign	H	2.2.1 Coordination of Program	Desk work by communications officer

EXAMPLE MPA								
 Strategic Level Management Goals/Outcomes	Priority level	Main Operational Activity	S	ub-activity	Program Area (select from list below)	(select from list below)	Cost Calculation Description	
MANAGEMENT OBJECTIVE 1: eg. EFF	FECTIVE	PROTECTION OF MARINE NATURA	LRESOURC	ES				
1.1 Update the MPA management plan	#	1.1.1 Incorporate latest coral reef monitoring findings into management Plan	Desk work by	f research assistant	Research and monitoring	Personnel	1 week of research assistant's time	
	#	1.1.2 Hold stakeholder consultation meetings to share monitoring findings with buffer communities	Travel for co	mmunity meetings	Research and monitoring	Consumables	10 gals round trip from THQ to communities plus 5 gallons spare (e.g. for follow up with individual community) x \$13/aallon	
1.2 Implement MPA enforcement strategy	#	1.2.1 Run high season patrol program	Head Range	Program A	reas	Budget Ite	ms	
	+1		Ranger sala	•Enforce	ment	•Personr	nel	
	+1		Ranger over			Consumables		
	++		Fuel	•Commu	nications	(materials and		
	#		Boat mainte			supplies) -	
MANAGEMENT OBJECTIVE 2: eg. ST				-Pagare	sh and	-Equipm	ant and	
2.1 Implement MPA Junior Ranger program during summer school	М	2.1.1 Coordination of Program	Planning, sch communicati	•Researd Monitorin		•Equipm Infrastru		
				CommuDevelopi	•	•Contrac	ets	
				NaturalManager	Resources ment	•Travel		

			В	udget - Year One			
Cost Calculation Description	Unit	Number of units	Cost per unit	Total cost (Year 1)	Funding secured	Funder	Balance to be raised
1 week of research assistant's time	Per month	25%	\$2,000	\$500	\$500	Donor X	\$0
10 gals round trip from HQ to communities plus 5 gallons spare (e.g. for follow up with individual community) x \$13/gallon	Per gallon	15	\$13	\$195	\$0		\$195
1 head ranger*6 months full time &\$2000 /month	Per month	Ģ	\$2,000	\$12,000	\$12,000	MPA	\$0
3 rangers*6 months full time 20\$1000/month	Per month	18	\$1,000	\$18,000	\$18,000	МРА	\$0
Approx 10% of staff salaries 2\$5000/month	Per month	10%	\$5,000	\$500	\$500	WIFA	\$0
Average monthly estimate in high season	Per month	6	\$1,000	\$6,000	\$3,000	Partner (Fisheries)	\$3,000
Average monthly estimate in high season	Per month	6	\$250	\$1,500	\$0		\$1,500
2 weeks of education officer's time	Per month	50%	\$2,000	\$1,000	\$1,000	Donor X	\$0
Bus fares for group	Per month	1	\$2,000	\$2,000	\$2,000	In-kind (bus co)	\$0
15 snorkel sets 2\$20 per set	Per set	15	\$20	\$300	\$0		\$ 300
8 days of lunches and water for 15 kids &\$10 per lunch	Per lunch	120	\$10	\$1,200	\$0		\$ 1,200
1 communications officer half time for 12 months D\$1500 per month full time equivalent	Per month	12	\$750	\$9,000	\$9,000	MPA	\$ -
Airfare \$750, hotel \$1000 total, per diem	Lumpsum	1	\$2,100	\$2,100	\$0	МРА	\$ 2,100

			Budget - Year One						
Program Area (select from list below)	Budget item (select from list below)	Cost Calculation Description	Unit	Number of units	Cost per unit	Total cost (Year 1)	Funding secured	Funder	Balance to be raised
Research and monitoring	Personnel	1 week of research assistant's time	Per month	25%	\$2,000	\$500	\$500	Donor x	\$0
Research and monitoring	Consumables	10 gals round trip from HQ to communities plus 5 gallons spare (e.g. for follow up with individual community) x \$13/gallon	Per gallon	15	\$13	\$195	\$0		\$195
Enforcement	Personnel	1 head ranger*6 months full time &\$2000 /month	Per month	6	\$2,000	\$12,000	\$12,000	МРА	\$0
		Time copyratories;	1		1			<u>'</u>	'
Communications	Travel	Airfare \$750, hotel \$1000 total, per diem \$350 total	Lитрыт	1	\$2,100	\$2,100	\$0	MPA	\$ 2,100
Communcations	Travel	Registration \$500	Lumpsum			\$0	\$0	МРА	\$ -
Communcations	Personnel	One week of MPA manager's time	Per month	25%	\$3,500	\$875	\$875	MPA	\$ -
							\$46,875	5	\$8,295
-									

Summary of Budget Needs for Sample MPA



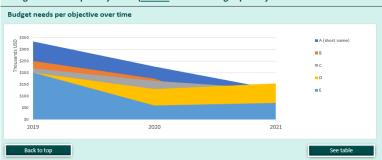


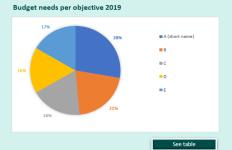


Budget overview per objective (NOTE: data on budget per objective is not available. The data presented by objective in this section is based on fictional numbers)

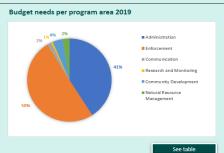
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Updated: 13/Oct/20



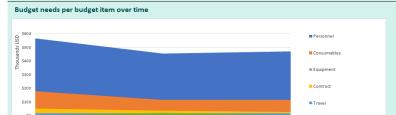




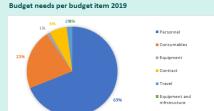


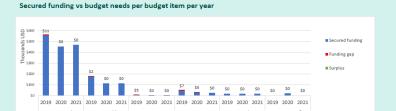


Budget overview per budget item



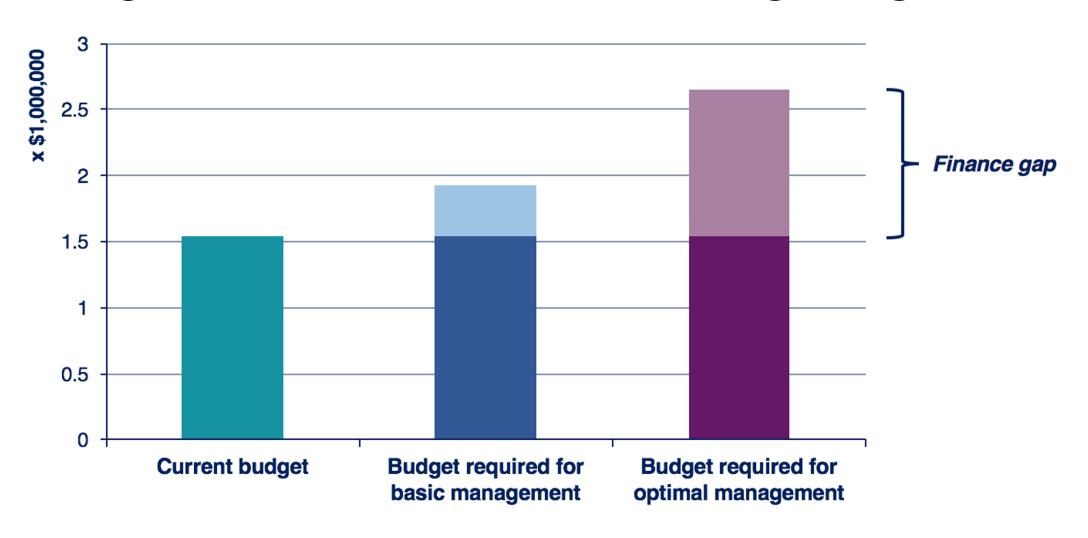
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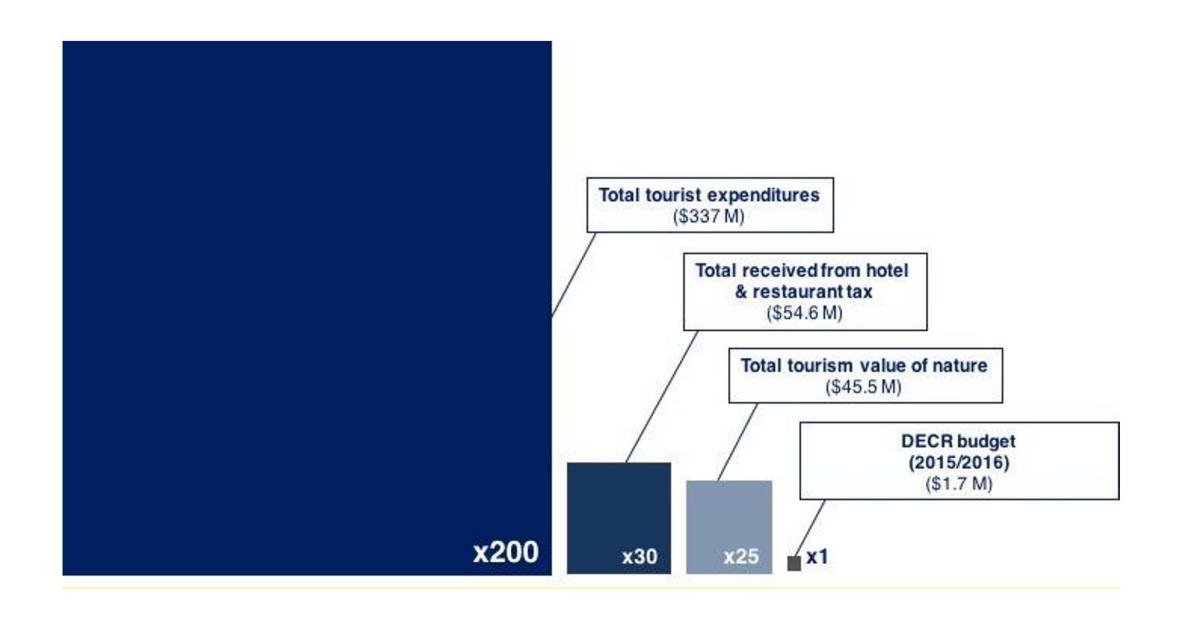




	EXAMPLE MPA			
Activity Code	Strategic Level Management Goals/Outcomes	Priority level	Main Operational Activity	Sub-activity
	MANAGEMENT OBJECTIVE 1: eg. EN	FECTIVE	PROTECTION OF MARINE NATURA	
	1.1 Update the MPA management plan	+1	1.1.1 Incorporate latest coral reef monitoring findings into management plan	Desk work by research assistant
		+1	1.1.2 Hold stakeholder consultation meetings to share monitoring findings with buffer communities	Travel for community meetings
	1.2 Implement MPA enforcement strategy	++	1.2.1 Run high season patrol program	Head Ranger salary
		++		Ranger salaries
		++		Ranger over-time contingency
		++		Fuel
		++		Boat maintenance - parts
	MANAGEMENT OBJECTIVE 2: eq. ST	AKEHOLD	PER ENGAGEMENT	
	2.1 Implement MPA Junior Ranger program during summer school holidays	M	2.1.1 Coordination of Program	Planning, scheduling and communications with schools and parents
		M	2.1.2 Transport for kids	Bus pick up and drop off, transpor-
		M	2.1.3 Equipment and supplies	Snorkel equipment
		M		Lunches and other supplies
	2.2.Run social media outreach and marketing campaign	++	2.2.1 Coordination of Program	Desk work by communications officer

Management scenarios for budgeting





	EXAMPLE MPA										Budget - Year One			
Activity Code	Strategic Level Management Goals/Outcomes	Priorit	Main Operational Activity	Sub-activity	Program Area (select from list below)	Budget item (select from list below)	Cost Calculation Description	Unit	Number of units	Cost per unit	Total cost (Year 1)	Funding secured	Funder	Balance to be raised
	MANAGEMENT OBJECTIVE 1: eg. EFF	Ed	OF MARINE NATURA											
	1.1 Update the MPA management Plan		monitoring.	Desk work by research assistant	Research and monitoring	Personnel	1 week of research assistant's time	ror month.	2500	\$2,000	\$500	\$500	Donor x	\$0
			1.1.2 Hold stakeholder consultation meetings to share monitoring findings with buffer communities	wity meetings	Research and monitoring	Consumables	10 gals round trip from HQ to communities plus 5 gallons spare (e.g. for follow up with individual community) x \$13/gallon	Per gallon	46	\$13	\$195	\$0		\$195
	1.2 Implement MPA enforcement strategy	++	1.2.1 Run high season patrol program	Head Ranger salary	Entoroc	Personnel	1 head ranger*6 months full time &\$2000 /month	Per month	6	\$2,000	\$12,000	\$12,000	MPA	\$0
		++		Ranger salaries	Enforcement	Personnel	3 rangers*6 months full time &\$1000/month	Per month	18	\$1,000	\$18,000	\$18,000	MPA	\$0
		++		Ranger over-time contingency	Enforcement	Personnel	Approx 10% of staff salaries 2\$5000/month	Per month	10%	\$5,000	\$500	\$500	MPA	\$0
		++		Fuel	Enforcement	Consumables	Average monthly estimate in high season	Per month	6	\$1,000	\$6,000	\$3,000	(Fisheries)	\$3,000
	MANACEMENT ORIENTIAL AS CETA	H WELLOU D		Boat maintenance - parts	Enforcement	Consumables	Average monthly estimate in high season	Per month	6	\$250	\$1,500	\$0		\$1,500
	MANAGEMENT OBJECTIVE 2: eg. STA 2.1 Implement MPA Junior Ranger		2.1.1 Coordination of Program	Planning, scheduling and	Community development	Personnel	2 weeks of education							
	Program during summer school holidays	¥νι	2.1.1 Coordination of Program	communications with schools and parents	Community development	rersonnei	officer's time	Per month	50%	\$2,000	\$1,000	\$1,000	Donor x	\$0
				Bus pick up and drop off, transport		Travel	1 month of education officer's time	Per month	1	\$2,000	\$2,000	\$2,000	In-kind (bus co)	\$0
		M	2.1.3 Equipment and supplies	Snorkel equipment	Community development	Equipment	15 snorkel sets 20 per set	Per set	15	\$20	\$300	\$0		\$ 300
		M		Lunches and other supplies	Community development	Consumables	8 days of lunches and water for 15 kids 2\$10 per lunch	Per lunch	120	\$10	\$1,200	\$0		\$ 1,200
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	MANAGEMENT OBJECTIVE 3: eg. EFF	ECTIVE:												
	3.1 MPA Networking	L	3.1.1Participate in regional conference	Travel to confere				трѕит	1	\$2,100	\$2,100	\$0	MPA	\$ 2,100
		L		Conference fees		1		м⊳ѕим			\$0	\$0	MPA	\$ -
		L		MPA manager tin preparation, trav participation			THE REAL PROPERTY.	r month	25%	\$3,500	\$875	\$875	MPA	\$ -
	Total											\$46,87	<mark>75</mark>	\$8,295
	Iotal						MACHE TOP					\$4 0 ,8.	(3)	\$8,295



Expanding coral restoration in Caribbean Marine Protected Areas

AGRRA and MPAConnect have teamed up in a new 3-year partnership, entitled the "Caribbean Restoration Roadmaps Initiative" to expand coral restoration in Marine Protected Areas (MPAs) and beyond. In response to the recent stony coral tissue loss disease outbreak and coral bleaching events in the Caribbean, there is an urgent need to expand the number of restoration efforts and coral species to maintain genetic diversity, reef structure and ecosystem function. Together with marine resource managers and our Restoration Advisory Team, our long-term goal is to increase regional collaboration to scale-up the rescue and recovery of Caribbean corals and enhance reef ecosystems.

Objectives:

- Increase coral populations and improve reef ecosystem function
- Develop science-based and management-relevant restoration roadmaps
- Share and increase coral recovery technical expertise
- Synergize and catalyze restoration efforts within Caribbean MPAs to increase recovery potential regionally



21 elements of management capacity



Financing



Enforcement



Bio-physical monitoring



Fisheries management



Management planning



Outreach/ education



On-site management



MPA effectiveness



Sustainable livelihoods



Pollution control



Habitat restoration



Legal framework



Partnerships



Stakeholder engagement



Economic

Boundaries



Resilience to climate change



Disturbances



Organizational management



SocMon



Sustainable tourism





Adequate support	Effective management	Core programs	Evaluation	Adaptive management
 Reliable, long-term financing Clear and full legal framework Up-to-date, approved management plan 	 Adequate staff with skills and knowledge Formal coordination with agencies and partners Community and stakeholder engagement 	 Active, consistent enforcement Outreach program to build stewardship Livelihood opportunities developed Fisheries management program Tourism management plan 	 Bio-physical monitoring program Socio-economic monitoring program Economic valuation Management effectiveness evaluation program 	 Response to disturbances Resilience to climate change Habitat restoration Communications Enhanced biodiversity conservation





Adequate support	Effective management	Core programs	Evaluation	Adaptive management
 Reliable, long-term financing Clear and full legal framework Up-to-date, approved management plan 	 Adequate staff with skills and knowledge Formal coordination with agencies and partners Community and stakeholder engagement 	 Active, consistent enforcement Outreach program to build stewardship Livelihood opportunities developed Fisheries management program Tourism management p 94% 	 Bio-physical monitoring program Socio-economic monitoring program Economic valuation Management effectiveness evaluation program 	 Response to disturbances Resilience to climate change Habitat restoration Communications Enhanced biodiversity conservation





Adequate support	Effective management	Core programs	Evaluation	Adaptive management
 Reliable, long-term financing Clear and full legal framework Up-to-date, approved management plan 	 Adequate staff with skills and knowledge Formal coordination with agencies and partners Community and stakeholder engagement 	 Active, consistent enforcement Outreach program to build stewar 100% Livelihood opportunities developed Fisheries management program Tourism management p 94% 	 Bio-physical monitoring program Socio-economic monitoring program Economic valuation Management effectiveness evaluation program 	 Response to disturbances Resilience to climate change Habitat restoration Communications Enhanced biodiversity conservation





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Approaches to coral restoration in MPAConnect

	Mentions
In-situ nursery	19
Outplanting in MPA	9
Assisted reproduction	9
Ex-situ nursery	4
Other approach (reef balls, biorock)	4
Grounding response	3
Microfragmentation	2
Herbivore co-cultivation	2





Objectives of coral restoration

Assist natural recovery by:

Restoration = bringing a degraded ecosystem back to original condition

Rehabilitation = improving ecological value of a degraded site

Remediation = repairing damage to a site.

Aim for restoration, but often we're happy with some rehab

MPAConnect Coral Rescue Planning Canvas Opportunities Actions Overall goal Challenges Actions What actions can you take to What opportunities exist at What is the overall goal of What challenges need to be What actions can you take to realize each opportunity and your site to implement this coral rescue at the reefs that overcome to implement this overcome each challenge and Start you manage or work on? implement this approach to implement this approach to approach to coral rescue? approach to coral rescue at coral rescue at your site? coral rescue at your site? your site? Selected approach What is your selected approach to coral rescue? This can also be your selected cafe table. Specific objectives What are your aims or objectives in applying this approach to the coral reefs that you manage or work on? List corals Permits needed Resources available Resources needed Which species of corals do you want to What permits might What resources do you already What additional resources do you need to enable you to implement focus on to achieve your objective and why? be required? have to enable you to implement See species selection criteria handout. this approach at your site? this approach at your site? Activities to implement Next steps at home List partners Identify the potential partners who What activities are required to What are the next steps that you can take can work with you to implement this implement this approach? at home to implement this approach to approach to coral rescue at your site. coral rescue at your site? This week @Reef Futures Financing mechanisms Risk Management How to reduce the What are some potential financing What can you do this week while at impact of hurricanes, mechanisms to generate funding to Reef Futures to make progress towards A partnership between: avoid marine debris etc implement this approach to coral rescue? implementing this coral rescue approach? Re-visit your specific aims Let's revisit your goal from Question 1 what are you now feasibly seeking to achieve from coral rescue for the coral reefs that you manage or work on?



Management team

The management team - executive director, programme director/manager, operations manager, and communication manager, among others.

- Supervise the functioning of the organization as a whole;
- Set priorities;
- Formulate the organizational strategy basis for budgeting;
- Monitor and present the impact of investments.



Administrative staff

The administrative staff - major contributor to the financial budgeting and planning process.

- Estimate figures and make forecasts;
- Track and report on spend.



Board or advisory committee

The Board or advisory committee – decision-making on the organization's strategy and methods to generate funding to meet objectives.

- Members bring expertise and input from various sectors to the table and are can facilitate collaboration with other stakeholders;
- Knowledge and networks can be of great value when selecting and implementing financing solutions.







Adequate support	Effective management	Core programs	Evaluation	Adaptive management
 Reliable, long-term financing Clear and full legal framework Up-to-date, approved management plan 	 Adequate staff with skills and knowledge Formal coordination with agencies and partners Community and stakeholder engagement 	 Active, consistent enforcement Outreach program to build stewardship Livelihood opportunities developed Fisheries management program Tourism management plan 	 Bio-physical monitoring program Socio-economic monitoring program Economic valuation Management effectiveness evaluation program 	 Response to disturbances Resilience to climate change Habitat restoration Communications Enhanced biodiversity conservation



A partnership between





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