

Recapping
Management Capacity
for Coral Restoration
in the
MPAConnect Network



Dana Wusinich-Mendez and Gabriela Ochoa Key West, June 11, 2024

Photos by: CONANP<sup>1</sup>, Fundacion Cayos Cochinos: Nicole Webster <sup>2</sup>, TIDE<sup>3</sup>, Fundacion Cayos Cochinos: Shelley Wilson<sup>4</sup>









#### Presentation outline

- 1. Brief introduction to MPAConnect
- 2. Latest findings on network capacity for bio-physical monitoring
- 3. Latest findings on network capacity for coral restoration
- 4. Managers' challenges and needs for coral restoration
- 5. MPAConnect capacity building activities

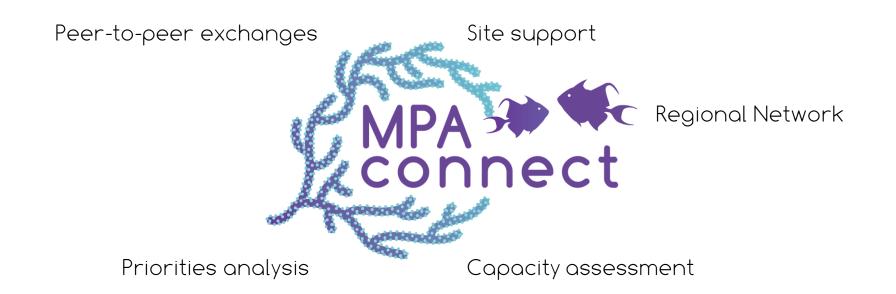




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### 21 elements of management capacity



Financing



Enforcement



Bio-physical monitoring



Fisheries management



Management planning



Outreach/ education



On-site management



MPA effectiveness



Sustainable livelihoods



Pollution control



Habitat restoration



Partnerships





Stakeholder engagement



Boundaries



Resilience to climate change



Legal

framework

Organizational management



SocMon



Sustainable tourism



Economic

valuation



Disturbances



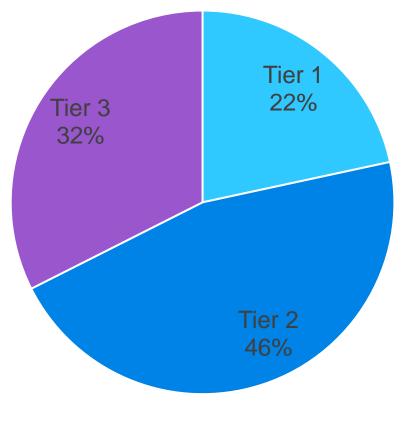
15a. Which of the following statements best describes the <b>current management capacity</b> at the MPA with respect to <b>bio-physical monitoring</b> ? There is		
☐ Tier 1	Little or no existing bio-physical monitoring activity	
☐ Tier 2	Existing bio-physical monitoring program but data not being used to inform management	
☐ Tier 3	Data produced from bio-physical monitoring program being evaluated and used to inform management decisions	





## Bio-physical monitoring capacity in MPAConnect

Nearly 80% of MPAs do some bio-physical monitoring



2023, n=37 MPAs





# Coral reef monitoring in MPAConnect

What is monitored?	Percentage of MPAs
Coral reef health	68%
Coral disease	68%
Coral bleaching	65%
Coral restoration	41%



Photo: E. Doyl



# Coral reef monitoring methods in MPAConnect

	Most common method and number of mentions	Second most common method	Third most common method
Coral reef health	AGRRA (19)	GCRMN (7)	Other (4)
Coral disease	AGRRA (11)	Roving diver/ prevalence (8)	GCRMN (3)
Coral bleaching	AGRRA (13)	Bar drop (5)	GCRMN (4)
Coral restoration	Survival in-situ/ex-situ (4)	Outplanting (4)	Fragmentation (2)



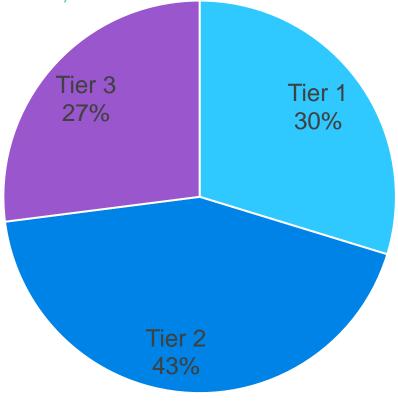


23a. Which of the following statements best describes the current management capacity at the MPA with respect to the restoration of coral reefs, their associated habitats and/or the services they provide?	
☐ Tier 1	There is little to no restoration activity occurring in the MPA
☐ Tier 2	There is some restoration activity occurring within the MPA but it is opportunistic and not based on a strategic approach or plan and/or a restoration plan has been developed for the MPA but it is not being implemented
☐ Tier 3	A restoration plan for the MPA exists and is being implemented





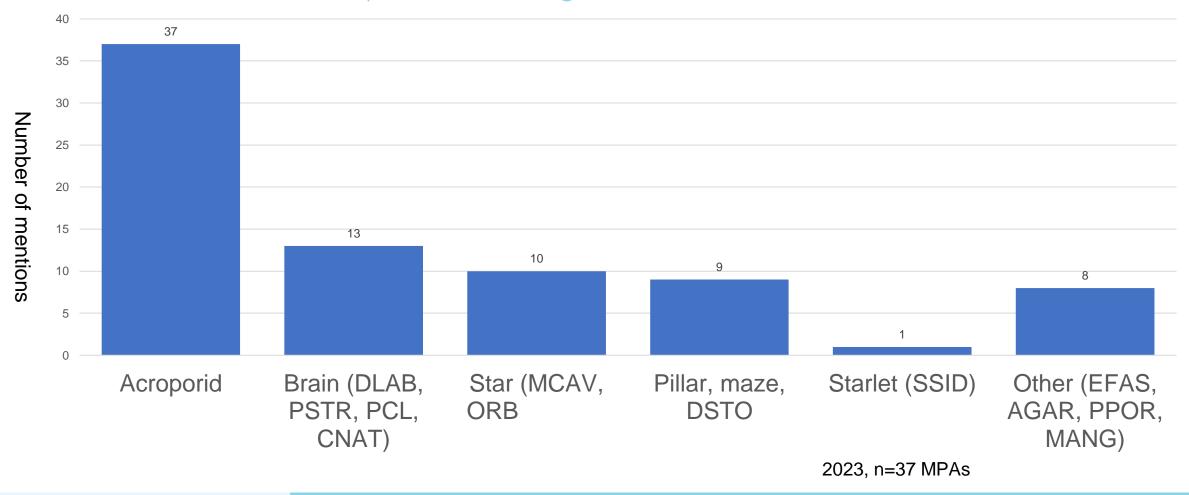
70% of MPAs have some restoration activity



2023, n=37 MPAs



### Coral species being restored in MPAConnect





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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





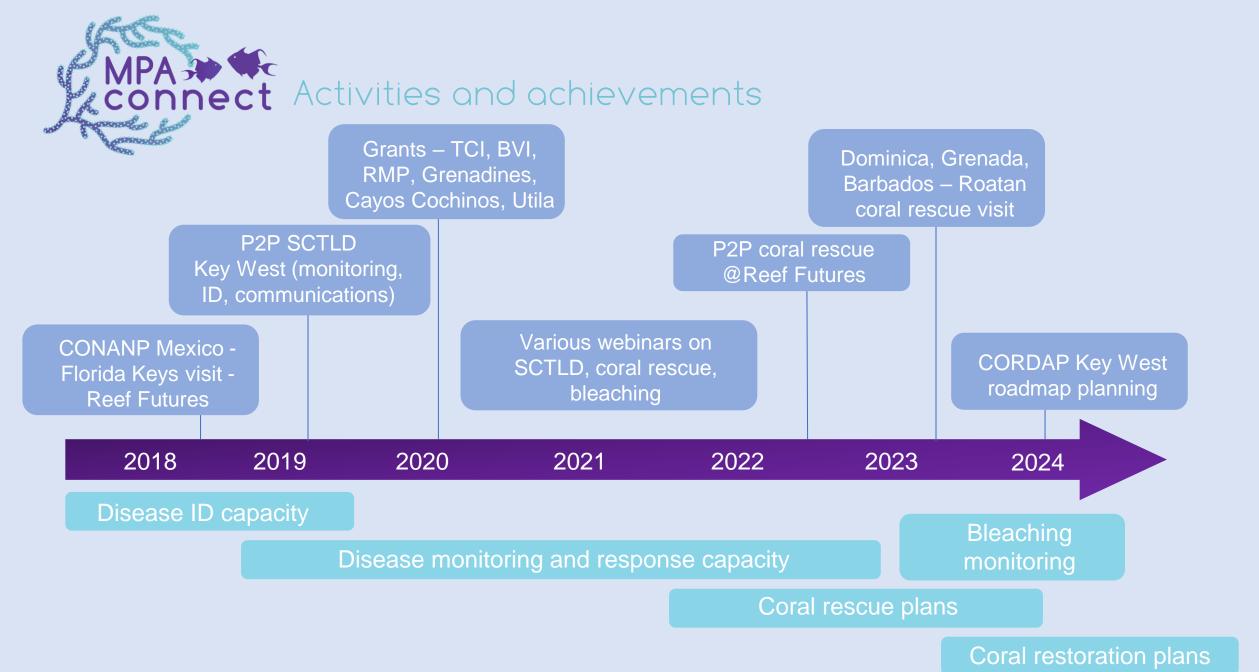


## Challenges and needs in management of coral restoration

	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









A partnership between





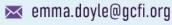
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## Coral reef health monitoring in MPAConnect



Coral Reef Monitoring in MPAConnect	Percentage of MPAs
MPAs doing some coral reef monitoring	78%
Proportion of those MPAs using AGRRA for coral monitoring	. 0,0
MPAs using AGRRA in network	54%

