

1 1 Supplementary information – Online Resource 1

2 Final selection of the articles composing the literature review:

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Table S1. Actions composing each the 13 strategies to sustain MPA effectiveness as included in the literature review. On the right side, the number of literature items that included each factor, alongside the sum of literature items per factor (the number of studies per subgroup can be larger than the number of studies per factor, as the same paper can recommend one or multiple actions listed in the table)

Rank	Group	Subgroup	Factor		No. of studies per subgroup	No. of studies per factor
1	Stakeholder inclusion	Engagement of professional fishers	1	Engagement of fishers and fishing cooperatives into MPA design, management, rule-agreement and surveillance	13	40
			2	Presence of fishermen within the MPA management board		
			3	Creation of fishers management subcommittees with support from coordinator and monitoring teams, with decision powers on regulation changes, penalty impositions, use of space, size and/or catch limitations, and others		
		Engagement of local communities	1	Involvement of local communities in MPA consultation, designation, decision-making and management processes through community-based co-management organizations	12	
			2	Engagement of local leaders to foster voluntary surveillance		
			3	Involvement of an NGO to assist the local community with participation and to establish a collaborative platform		
		Promotion of joint ventures among different stakeholder classes	1	Participation of various stakeholder groups in MPA institutional design (i.e., setting boundaries, rule-making), MPA establishment and implementation, MPA management	11	
			2	Creation of a permanent governance and co-management body including government members, fishers, fishing industry, academia and environmental NGOs		
		Engagement of recreational fishers	1	Involvement of recreational fishers into MPA planning, design, enforcement, advocacy, conservation, management and research	3	
		Engagement of entrepreneurs	1	Engagement of entrepreneurs in existing networks with coastal communities to create and exploit opportunities for marine conservation	1	
2	Improve communication/ Raise awareness	Communication to stakeholders	1	Increase social capital by implementing outreach education activities for government officials, teachers, students, tourism operators, the general public and all visitors in the MPA, including: environmental education, awareness about human impacts on environment, importance/vulnerability of marine ecosystems, understanding and acceptance of MPA objectives, benefits of MPAs, desired MPA outcomes	25	38
			2	Investment in community outreach to help retain political support, to the extent that public perceptions may influence government decisions		
			3	Facilitate community support for MPAs and creating a sense of pride and recognition by pairing stakeholder engagement with educational efforts		
			4	Launch communication campaigns based on: brochures, websites, social media, events, school campaigns and visits, volunteering programs, tourist activities, shows, concerts, workshops on local gastronomy and food sustainability		
			5	Consultation with affected communities about what positive MPA impacts are desired at the local level		
			6	Communicate with all stakeholders before establishing MPAs to gather perceptions		
			7	Involvement of fishers to communicate with tourists		
			8	Improved MPA signage		
		Fishery-specific communication	1	Launch education programs to raise awareness about marine conservation for fishers and emphasize how poaching personally affects fishers, to promote stewardship norms and moral responsibility, to enhance participation and compliance, to inform fishers about MPA and its rules and benefits, and to increase MPA acceptance	13	
			2	Increase dialogue among scientists, managers and fishers to reduce the disparity in understanding fisheries benefits from MPAs		

3	Enforcement and monitoring, control and surveillance	Enforcement and monitoring, control and surveillance	1	Ensure sufficient enforcement of rules for both professional and recreational fisheries to tackle non-compliance and ensure resource rebuilding	31	32
			2	Increase patrol numbers, drones, centers to facilitate night patrol, and appoint honorary wardens		
			3	Tackle free-riding that undermines the stability of voluntary agreements between fishers and MPAs		
			4	Improve anti-poaching activities and land-based video monitoring		
			5	Implement and respect MPA zoning and clearly define MPA boundaries		
			6	Implement enforcement only after fishers have been included in management; otherwise it might lead to counterproductive results		
			7	Ensure surveillance resources including publicly-supported ones		
			8	Ensure that sufficient surveillance technologies are available to enforce all restrictions equitably on all local and incoming users		
			9	Address driving forces for non-compliance		
			10	Ensure the enforcement of Territorial Use Rights for Fisheries (TURF) by supporting fisher associations		
			11	Ensure clear penalties and sanctions against perpetrators are in place, as well as that the latter are paid in full		
			12	Control restaurants and fishmongers to make sure that they do not buy fish on the black market		
			13	Secure enforcement through collaboration between MPA rangers and police		
4	Increase and secure funding/human resources	Increase and secure funding/human resources	1	Establish and strengthen sustainable and long-term funding streams for adequate staffing, socio-ecological monitoring and data collection, enforcement, stakeholder permanent committees, and adaptive management	24	26
			2	Determine precise funding needs		
			3	Diversify income sources		
		NGO/private/Philanthropic funding	1	Explore new revenue streams from NGOs and private/philanthropic sectors	6	
			Visitor fees	1	Introduce, increase, collect and widely apply diving and visitor fees	
		Public funding	1	Source funding from government social, educational and environmental budgets	2	
			2	Apply for projects under the European Regional Development Fund (ERDF) as well as other regional funds		
		Conservation-finance area	1	Secure funding through Conservation finance area "CFA"	1	
		MPA fund	1	Establish an MPA fund to enhance financial sustainability and provide more financial flexibility for MPA management	1	
		Ecotourism	1	Reinvest revenues generated from ecotourism to support MPA management and environmental education programs	1	
		Fines	1	Reinvest revenues generated from fines for infractions	1	
Non-extractive use rights from industry	1	Reinvest revenues generated from non-extractive use rights from shipping, transport and telecommunications industries	1			
Research permits	1	Reinvest revenues generated from non-extractive use rights from research institutions	1			
Biodiversity offsets	1	Gather biodiversity offsets from the oil and gas sector	1			
5	Presence of management objectives and plans	Presence of management objectives and plans	1	Provide the MPA with clearly-stated, MPA-specific, uncertainty-accounting, consistent and compatible vision, objectives, management plans, restrictions, priorities, research regulations, boundaries and responsibilities	22	22
			2	Officially approve the MPA management plan		
			3	Existence of a management plan for artisanal fisheries inside the MPA		
			4	Management goals and objectives that are prepared with local communities and reflect their interests		
			5	Ensure clarity and consistency in defining roles and responsibilities of different authorities and organisations		
			6	Periodical reassessment of MPA goals and objectives, and their readjustment when needed		
			7	Ensure clarity and consistency in defining legal objectives of MPAs, general and zone restrictions, jurisdictional boundaries, roles and responsibilities of different authorities and organizations		
6	Research/Capacity development	Implement sound scientific research	1	Establish a comprehensive scientific research framework	11	17
			2	Provide rigorous scientific information through ecological and environmental monitoring to improve habitat protection and ensure that clear, consistent, and useful information is available to guide MPA decision-making		

			3	Carry out baseline monitoring and characterization of MPAs as well as long-term monitoring of MPA impacts	7	
			4	Integrate local knowledge in MPA decision-making through participatory research projects among scientists, fishers and other relevant stakeholder groups		
		Capacity development	1	Strengthen capacity of national and local institutions and create new capacity through formal and informal educational initiatives		
			2	Widen the professional MPA network through co-operation with research institutions and participation in national and international meetings and conferences		
			3	Provide education and training in business administration and logistics to the fishing sector to help maximise their fisheries income		
4	Engage fishers in marine research					
7	Enhance legislation/ Secure political will	Legislation	1	Presence of international-regional-national-local regulatory obligations that require effective conservation through MPAs	9	15
			2	Improve national and local legislation to: promote enforcement, reduce incentive to poaching, increase penalties for non-compliance, address special issues of artisanal fisheries, promote co-management and territorial approaches, back the establishment of voluntary agreements		
			3	Require a license for recreational fishing, in order to make it less profitable and attractive for those looking for an easy profit through illegal fish sale		
			4	Incorporate the ecosystem service concept and local people's perceptions of ecosystem service into policy-related decisions		
		Political will	1	Presence of a political will to control tourism, coastal development and illegal fishing, and to enforce regulations to protect natural resources and have effective MPAs in place	8	
			2	Ensure clear and long-run commitment from government agencies as well as government support for MPAs		
8	Economic and market-based incentives	Livelihood diversification	1	Diversify livelihoods to reduce pressure on stocks and to improve resilience of local communities, namely fishing ones, by: introducing appropriate incentives, proposing economic alternatives to fishing and promoting alternative livelihoods e.g. water taxis or MPA rangers	9	13
			2	Work with tourism through gastronomic workshops or underwater photo competitions		
			3	Prioritize local employment in the MPA e.g. dive operators		
		Compensation	1	Appropriate economic benefits/compensations must be generated for fishers to mitigate negative socio-economic impacts of MPAs. Namely: introducing incentives to encourage compliance such as compensation for lost fishing grounds (e.g. by creating artificial reefs), ensuring that good fishing grounds are accessible in close range of local communities, implementing strategies for adding value to seafood products, introducing direct economic compensation of fishers for loss of fishing grounds until compensation by spillover occurs, co-designing MBI-programs with artisanal fishers to compensate them through outcome-based philanthropy and biodiversity offsets	6	
			Eco-labelling	1		
		9	Peer pressure	Direct involvement of fishers	1	
2	Recruit and training former fishers as park rangers					
3	Ease voluntary reporting of rule violations by fishers also through fishers' involvement in all MPA phases so to increase acceptance					
4	Ease fishers reporting to the MPA Consortium staff in case of poaching by non-residents					
10	Conflict avoidance and resolution	Conflict avoidance	1	Map and quantify conflicting stakeholder groups	7	9
			2	Implement multiple-use zones in agreement with stakeholders to provide a legal and spatial basis for controlling conflicts		
			3	Discuss spatial management and spatial conflicts with fishers to identify win-win solutions		
			4	Implement a systematic application of zoning criteria to reduce conflicts		
			5	Adapt existing regulations to local specificity to reduce conflicts between policy makers and local community		
		Conflict resolution	1	Solve conflicts among directly-competing user groups, namely fishers vs tourism/divers	2	

11	Ecotourism	Promotion of ecotourism	1	Promotion of ecotourism activities inside the MPA (e.g., snorkelling, diving, observation of marine fauna)	9	9
			2	Reduction of negative environmental impacts of tourism inside the MPA		
			3	Invest efforts for extending the tourism season		
			4	Development of ecotourism as a source of MPA funding		
			5	Promotion of synergies among the MPA and the tourism and agricultural sectors		
			6	Promotion of green marketing for tourism inside the MPA		
		Promotion of pescatourism	1	Reduction of bureaucratic obstacles and promotion of pescatourism in MPAs		
12	Infrastructures and equipment	Securing adequate infrastructures	1	Provide the MPA with adequate infrastructures to ensure its functioning (video and GPS monitoring technology for surveillance and enforcement, adequate demarcation buoys and mooring buoys for tourism, sufficient fuel for patrolling)	7	7
			2	Introduction of an MPA-staff assistance for fishers in case of rough weather and/or technical problems to the boat to build a better relationship between MPA and fishers		
			3	Reinvestment of MPA income in facilities including those for the local community		
13	Considering the surrounding network of MPAs	Considering the surrounding network of MPAs when managing the mpa	1	Establishment of effective and timely communication streams with neighbouring MPAs	4	4
			2	Gather inputs from regional networks of MPA managers and scientists to support stakeholder committees		
			3	Identification of additional protection needed to turn existing MPAs into effective, connected, functioning networks		

305 **Table S2.** Previous literature items mentioning the group of strategies for MPA effectiveness reported in this paper.

Factor group	Relevant literature
Stakeholder inclusion	Massinga 1996; Pomeroy et al. 1997; Done and Reichelt 1998; Uychiaoco et al. 2000; White and Vogt 2000; Beger 2005; McLanahan et al. 2006; Rossiter and Levine 2014; Di Franco et al. 2016; Gallacher et al. 2016; Ahmad kamil et al. 2017; Gill et al. 2017; Jones et al. 2013; Mizrahi et al. 2018
Conflict avoidance and resolution	Agardy et al. 2003; Dalton 2005; Gallacher et al. 2016; Pomeroy 2005; Rossiter and Levine 2014
Economic and market-based incentives	Rivera and Newkirk 1997; Pollnac et al. 2001; Beger 2005; Jones et al. 2013; Gallacher et al. 2016
Ecotourism/pescatourism	Nordlund et al. 2013
Enforcement and monitoring, control and surveillance	Russ and Alcala 1996; Beger 2005; McLanahan et al. 2006; Jones et al. 2013; Edgar et al. 2014; Rossiter and Levine 2014; Di Franco et al. 2016; Gallacher et al. 2016; Gill et al. 2017; Iacarella et al. 2021
Enhance legislation/political will	Heinen and Laranjo 1996; Agbayani et al. 2000; White and Vogt 2000; Beger 2005; McLanahan et al. 2006; Leverington et al. 2010; Jones et al. 2013
Improve communication/raising awareness	Savina and White 1986; Heinen and Laranjo 1996; Rivera and Newkirk 1997; Courtney And White 2000; White and Vogt 2000; Elliott et al. 2001; Beger 2005; Jones et al. 2013; Gallacher et al. 2016; Mizrahi et al. 2018; Iacarella et al. 2021
Peer pressure	Jones et al. 2013
Increase and secure funding/human resources	Graverstock et al. 2008; Leverington et al. 2010; Rossiter and Levine 2014; Gill et al. 2017
Provide MPA with adequate infrastructure and equipment	Leverington et al. 2010; Ahmad Kamil et al. 2017
Consider the surrounding network of MPAs	Beger and Harborne 2000; Beger 2005
Presence of management objectives and plans	Di Franco et al. 2016; Gallacher et al. 2016; Gill et al. 2017; Jones et al. 2013; McLanahan et al. 2006; Rossiter and Levine 2014
Research/capacity development	White and Vogt 2000; Beger 2005; Jones et al. 2013; Gallacher et al. 2016

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395 Table S3. Case studies presented in this review per country of origin.

COUNTRY	No. of case studies
Spain	8
Australia	6
Italy	5
The Philippines	4
France	4
USA	4
Indonesia	3
Colombia	3
Costa Rica	3
Portugal	3
UK	3
Malaysia	2
Madagascar	2
Belize	2
Ecuador	2
Kenya	2
Tanzania	2
Saint Lucia	2
Taiwan	2
The Bahamas	2
Cambodia	1
Singapore	1
Thailand	1
Vietnam	1
Maurice Island	1
Mayetta	1
French Polynesia	1
Reunion Island	1
Antigua and Barbuda	1
Brazil	1
Canada	1
Chile	1
Cyprus	1
Tunisia	1
Algeria	1
Jamaica	1
Papua New Guinea	1
Malta	1
Mexico	1
Northern Irland	1
Seychelles	1

Croatia	1
Greece	1
Barbados	1
Cayman Islands	1
Dominica	1
Honduras	1
Netherlands Antilles	1
Puerto Rico (US)	1
St. Vincent & Grenadines	1
Trinidad & Tobago	1
Turks and Caicos	1
Virgin Islands (US)	1
TOTAL	97