



Indicators and tools for MPA management effectiveness and conservation success

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IUCN World Commission on Protected Areas - Marine



Why assess management effectiveness?

- Determine if objectives are being met and adapt management if they are not
- Identify threats, needs, changes in context, and improve planning
- Provide information to develop priorities and funding proposals
- Establish accountability for expenditure
- Identify issues within or beyond the control of the manager
- Report on progress – to managers, stakeholders, nationally, regionally, globally
- Provide lessons learned for others

An assessment is a tool to help managers: like annual service check-ups of domestic appliances and cars, it should be a periodic check to make sure things are working and to trouble-shoot for problems.

If your MPA was a bush taxi...

would it look like this:



Or this?





Convention on
Biological Diversity

Target 3 - Kunming-Montreal Global Biodiversity Framework

.....by 2030 at least 30 per cent of terrestrial, inland water, and of coastal and marine areas,, are **effectively conserved and managed** through **ecologically representative, well-connected and equitably governed systems** of protected areas and other effective area-based conservation measures

.....

Effective MPA management = Adaptive Management



- **Context** understood
- **Good design**
- **Well planned** - threats, needs, issues and priorities identified
- **Inputs - resources** adequate and appropriately allocated
- **Processes - transparent and accountable**
- Progress towards **objectives**
- **Management adapted** and improved; lessons learnt

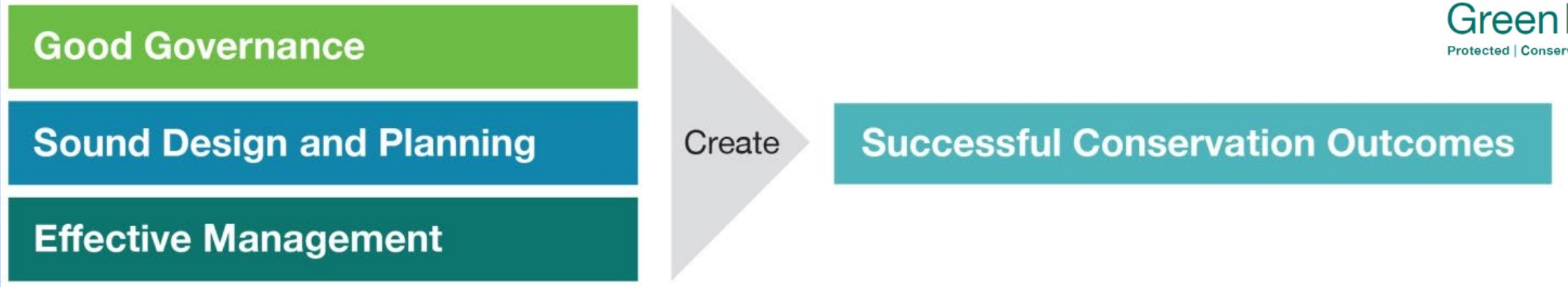
MPA management effectiveness assessment - definition

“the assessment of how well the MPA is being managed – primarily the extent to which it is protecting values and achieving goals and objectives”

Assessment of:

- design issues relating to both individual sites and protected area systems;
- adequacy and appropriateness of management systems, processes and governance; and
- delivery of protected area objectives including conservation of values

IUCN Green List Standard



- Universal Standard for effective area-based conservation - international benchmark for quality
- Aimed at motivating improved performance and achievement of conservation objectives
- Applies to all types of protected areas and OECMs



IUCN Green List Standard components

4 Components, 17 Criteria, 50 Indicators



Good Governance

- 1.1 Guarantee Legitimacy and Voice
- 1.2 Achieve Transparency and Accountability
- 1.3 Enable Governance Vitality and Capacity to Respond Adaptively

Sound Design and Planning

- 2.1 Identify and Understand Major Site Values
- 2.2 Design for Long-Term Conservation of Major Site Values
- 2.3 Understand Threats and Challenges to Major Site Values
- 2.4 Understand Social and Economic Context

Effective Management

- 3.1 Develop and Implement a Long Term Management Strategy
- 3.2 Manage Ecological Condition
- 3.3 Manage Within Social and Economic Context of the Area
- 3.4 Manage Threats
- 3.5 Effectively and Fairly Enforce Laws and Regulations
- 3.6 Manage Access, Resources Use and Visitation
- 3.7 Measure Success

Successful Conservation Outcomes

- 4.1 Demonstrate Conservation of Major Natural Values
- 4.2 Demonstrate Conservation of Major Associated Ecosystem Services
- 4.3 Demonstrate Conservation of Cultural Values

PAME assessment and reporting



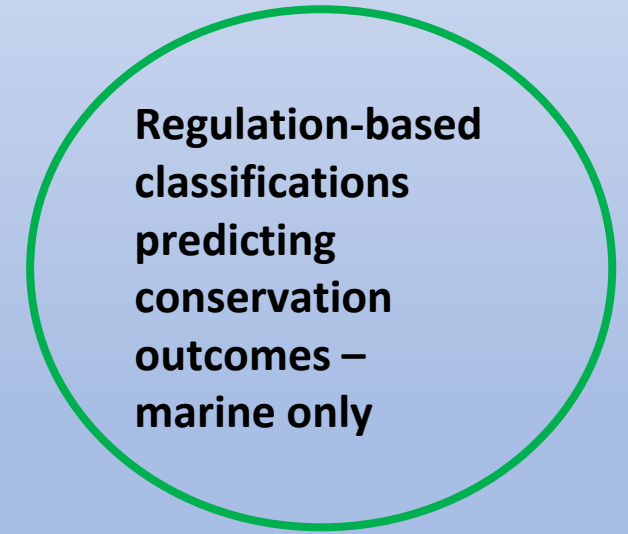
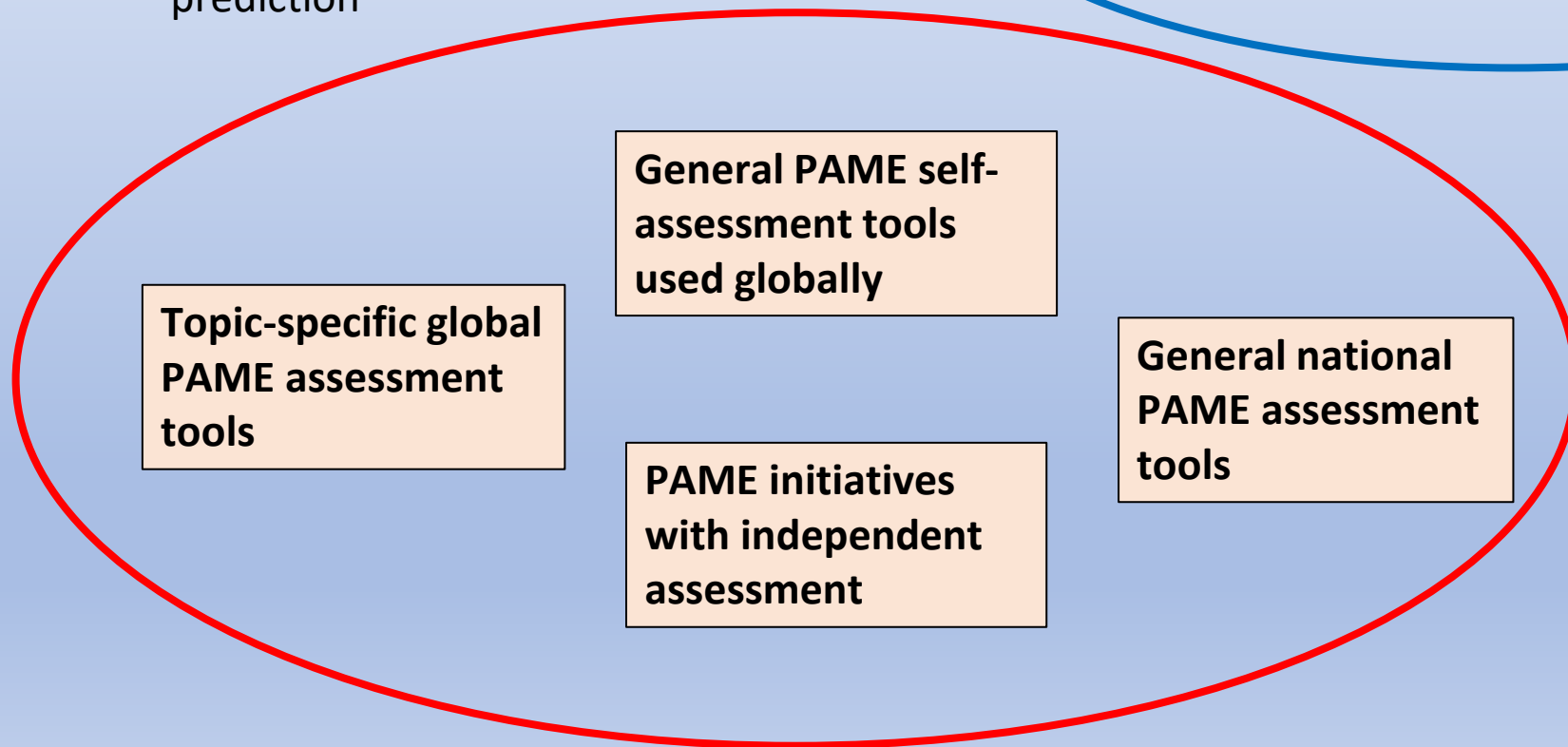
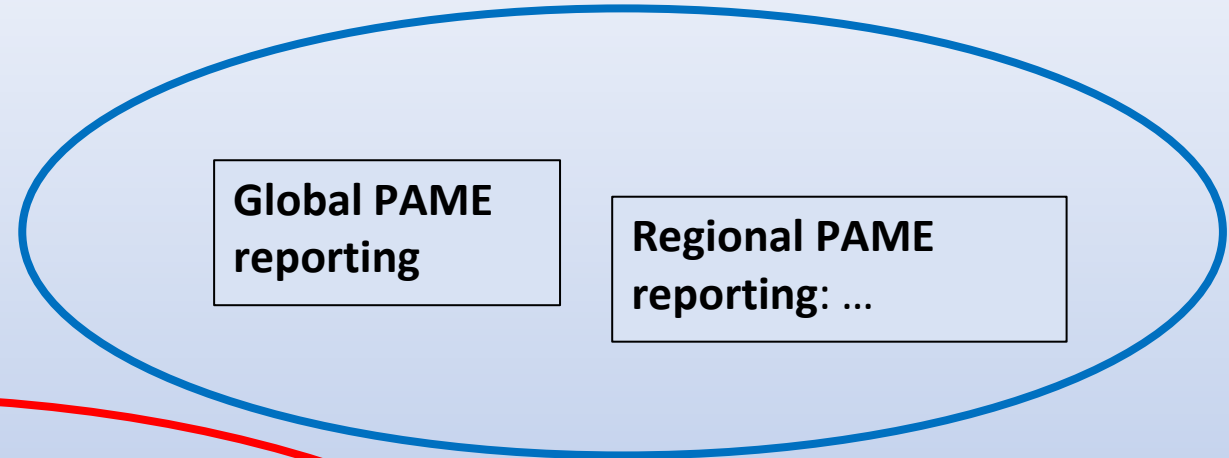
PAME assessment tools



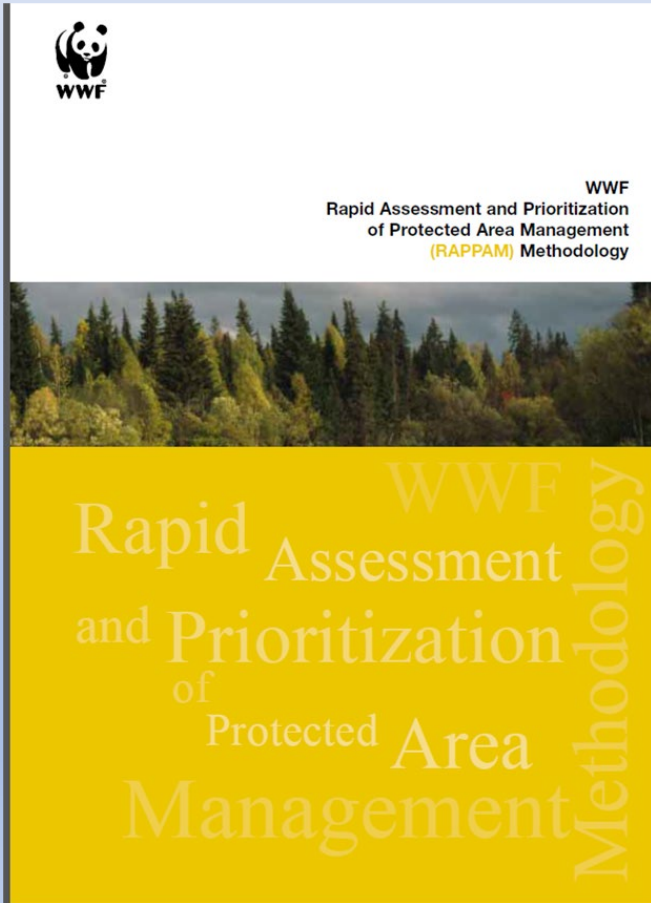
PAME reporting



PAME prediction



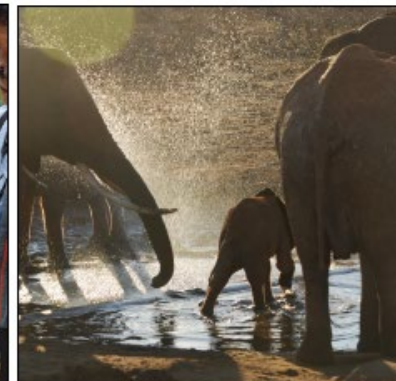
Overview of assessment tools

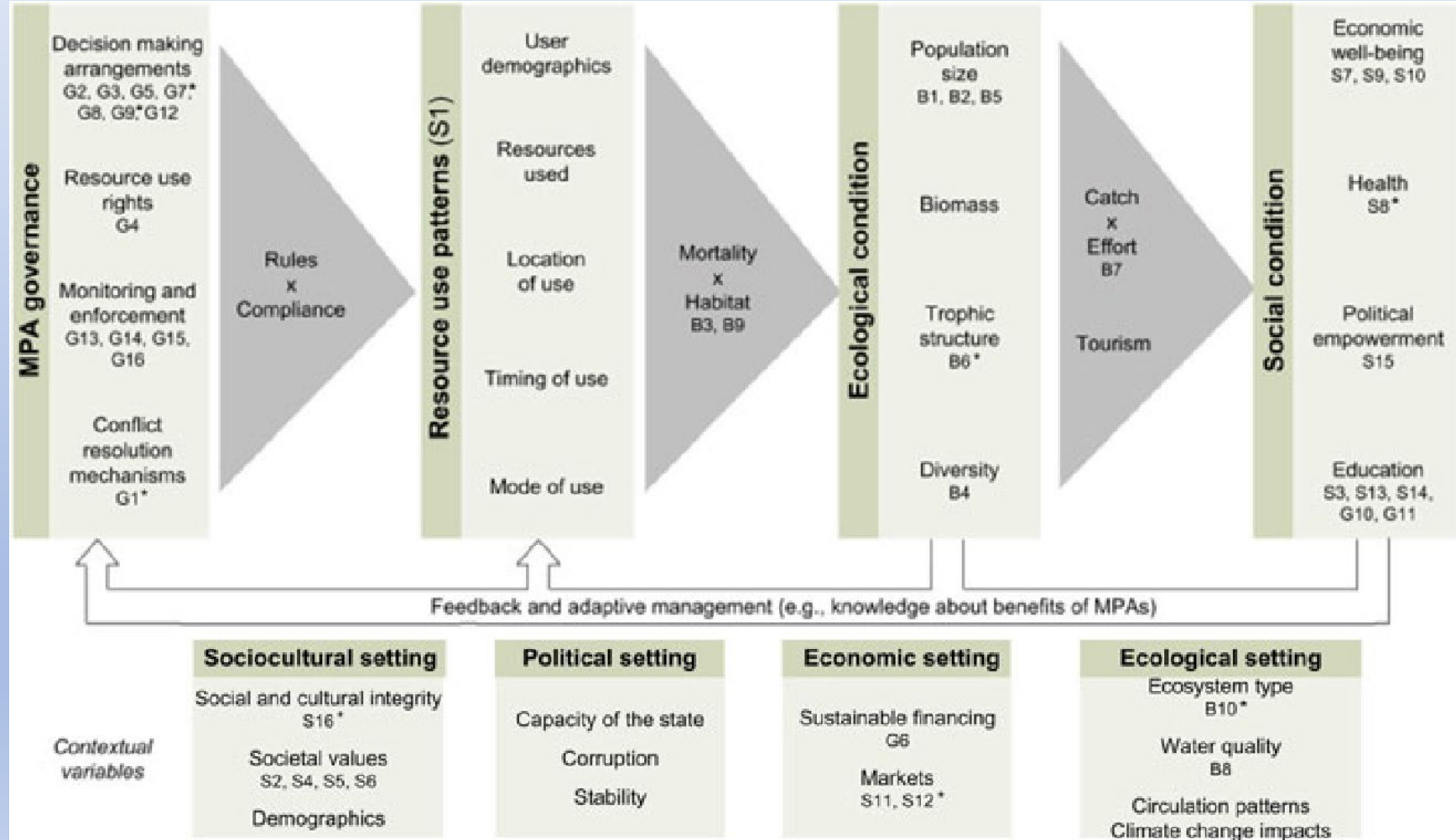
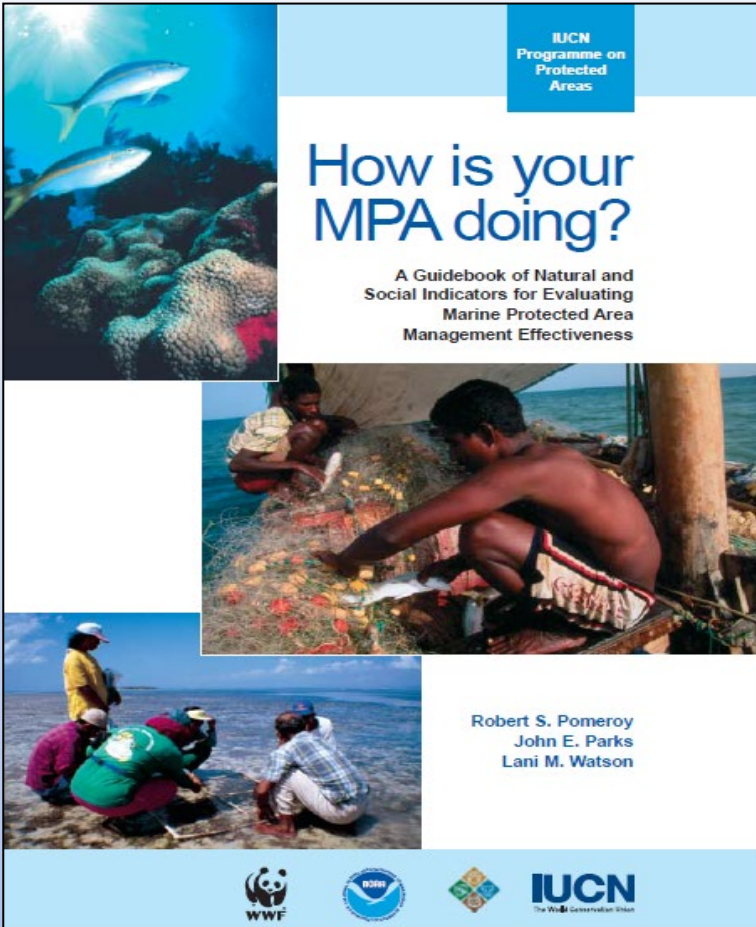


METT-4

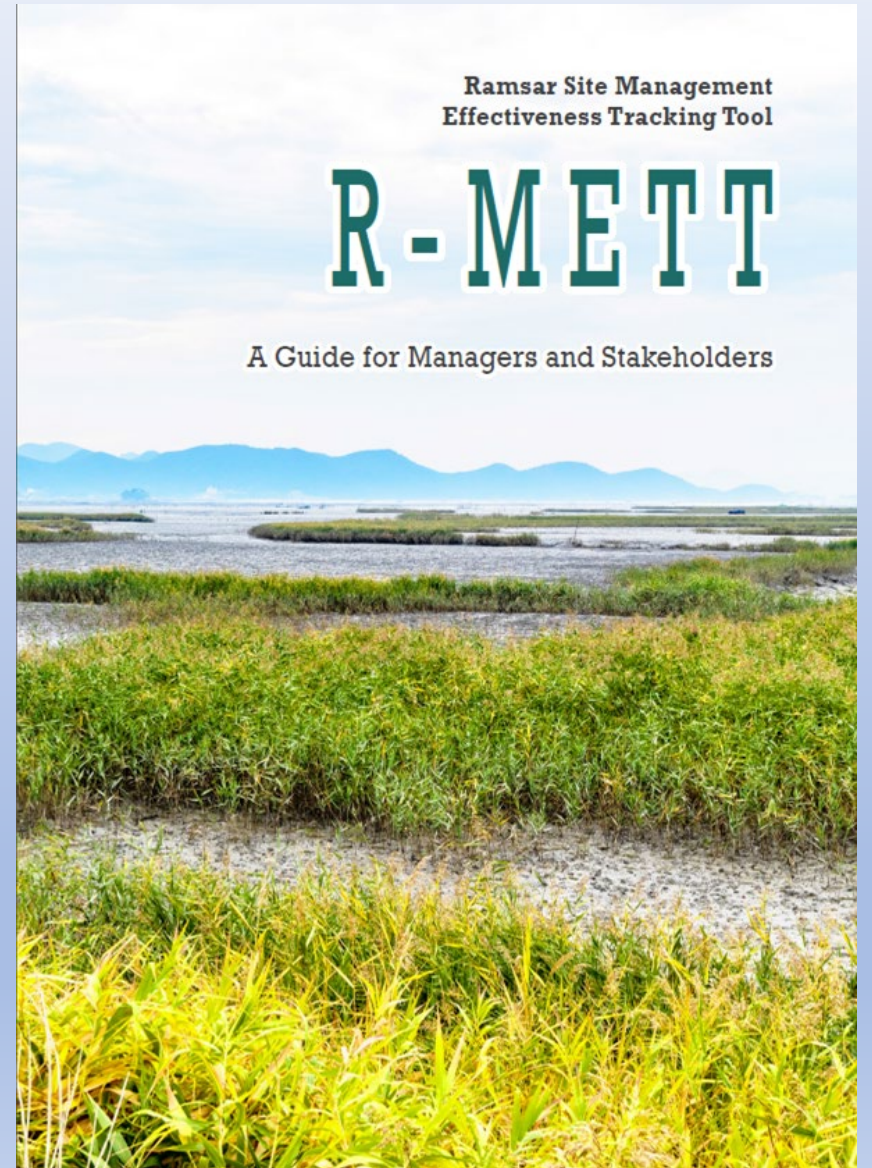
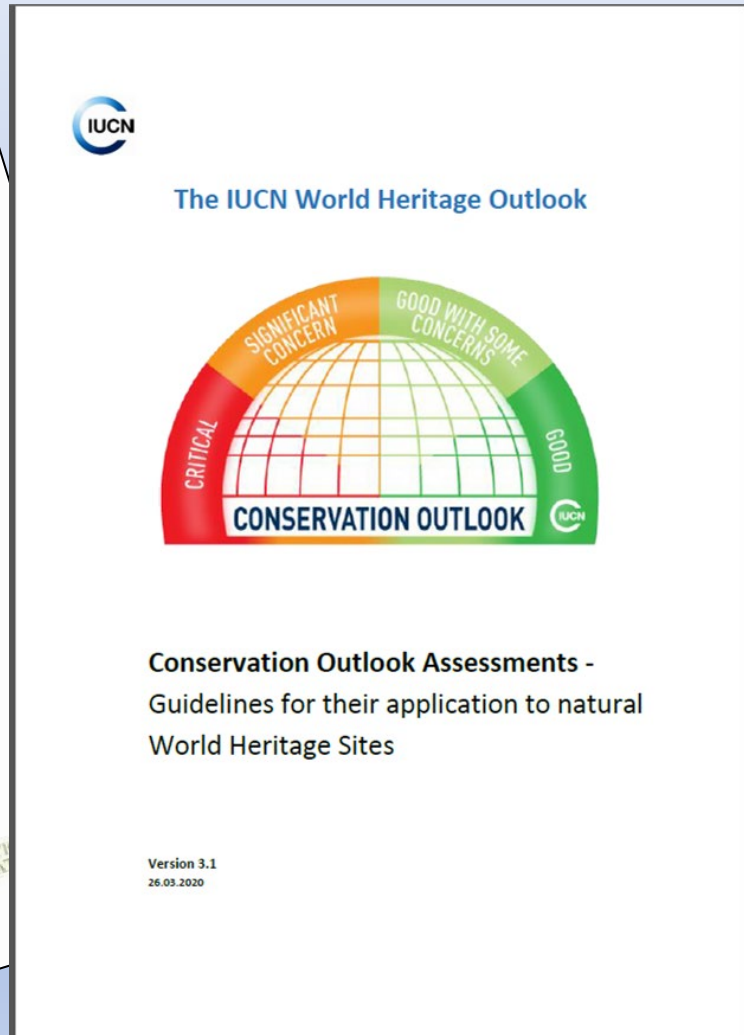
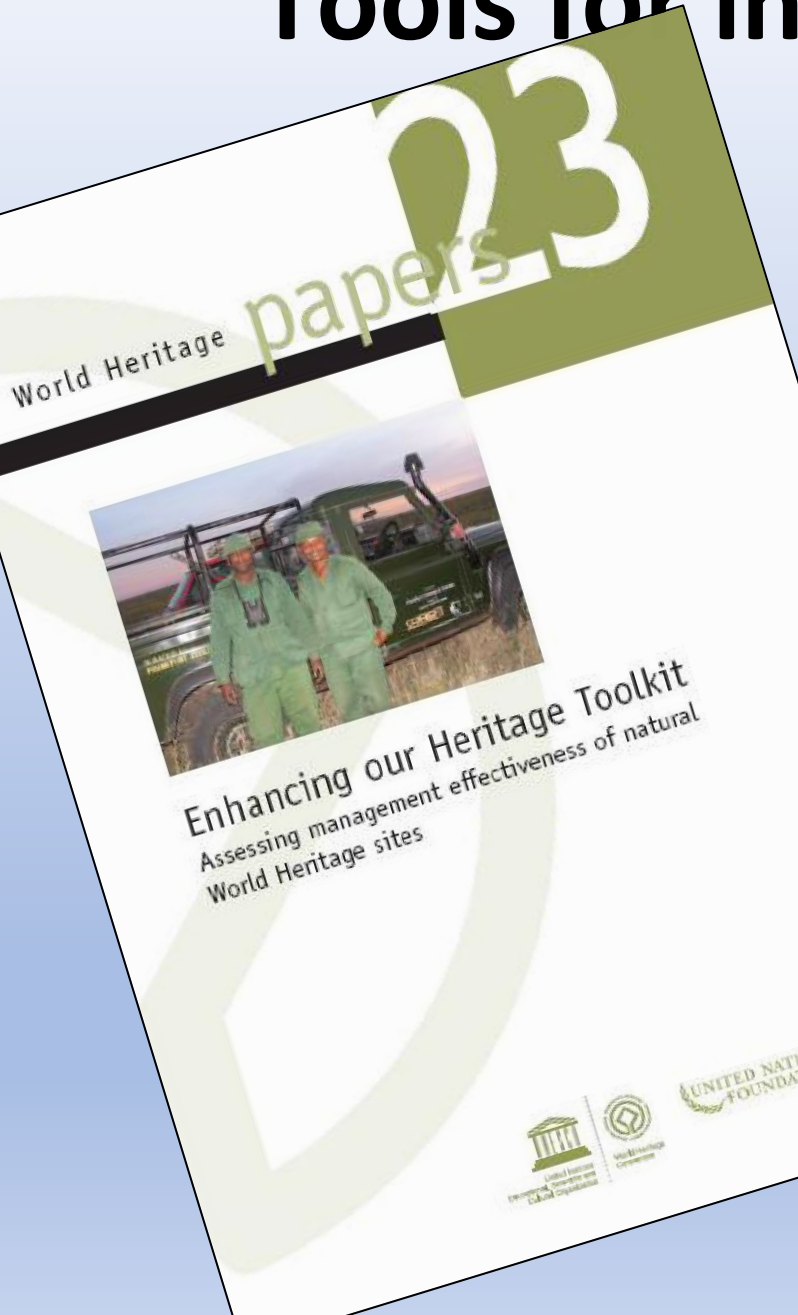
A guide to the online Excel version of the Management Effectiveness Tracking Tool (METT) for protected and conserved areas

Fully updated questions and coverage drawing on 20 years of practical experience in thousands of sites around the world

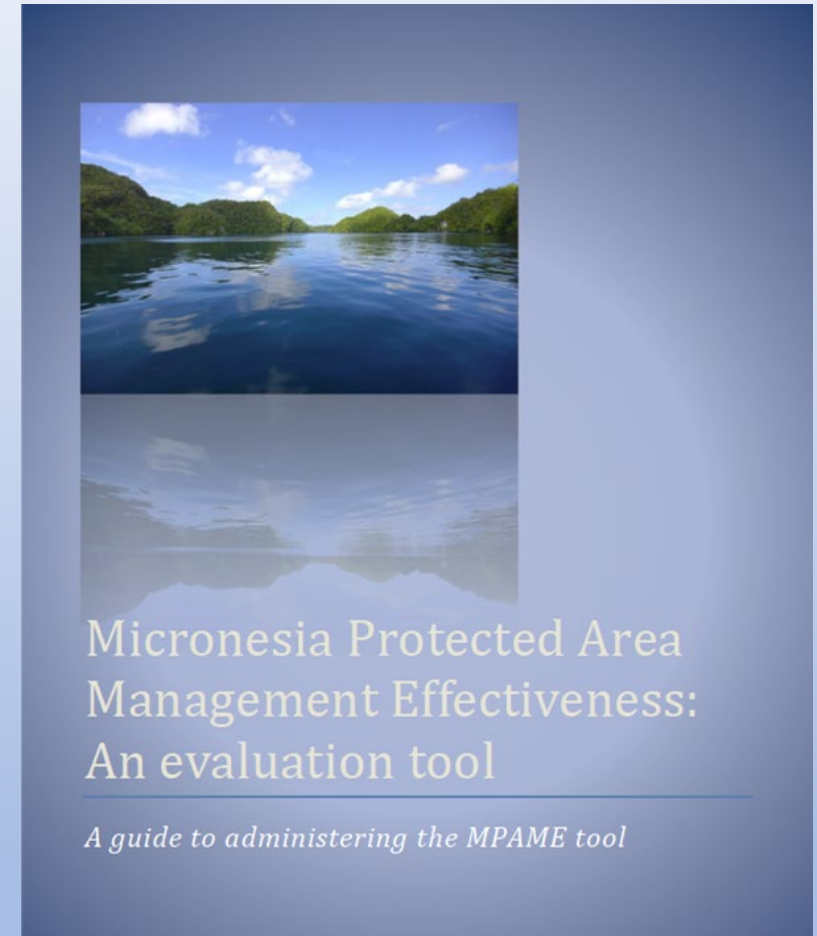
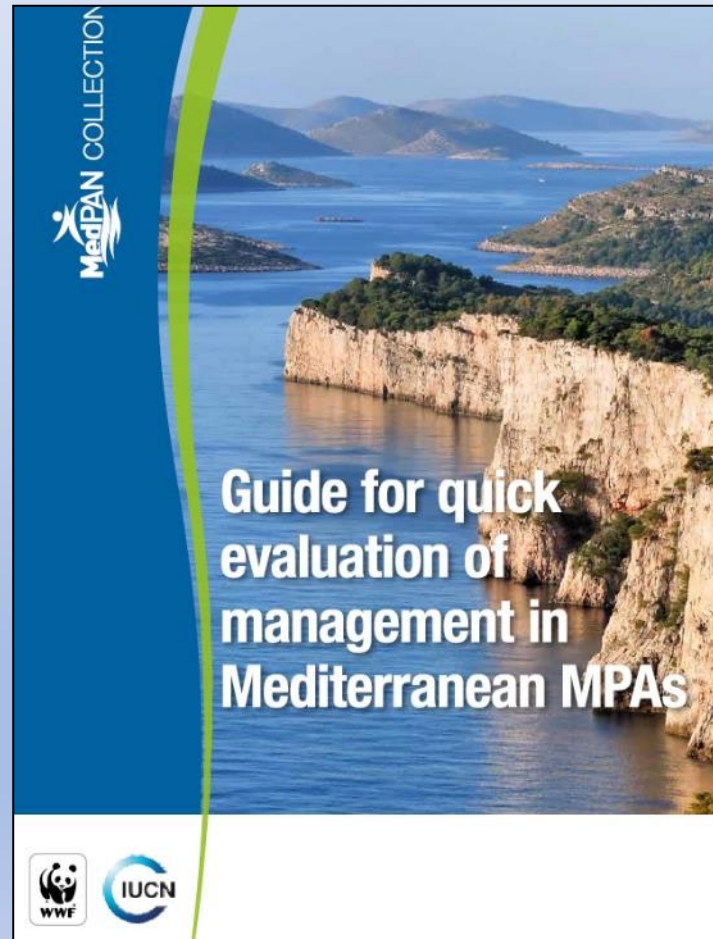




Tools for international designations



Regional assessment tools



EU tool to assess marine Natura 2000 sites and other EU MPAs

Self-assessment

6 sections (11 questions)

1. Conservation objectives

2. Pressures

3. Conservation measures

4. Management

5. Monitoring

6. Conservation outcomes

Scoring system

Guidance notes, video

tutorial

Version 5.4

- Instructions
- Area Input
- 1. Conservation Objectives
- 2. Pressures
- 3. Conservation Measures
- 4. Management
- 5. Monitoring
- 6. Conservation Outcomes

Configuration

Progress Assessment

Save & Exit

Site Name: TEST

Site Code: 2022

Site Location: CATALUNYA

Site Designation (Category and Type):

Date of designation:

Overlapping site Designations:

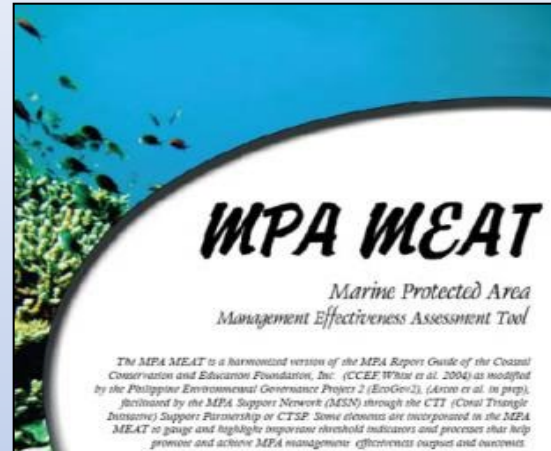
Management body (if established):

Respondent / Institution:

Date:

National tools

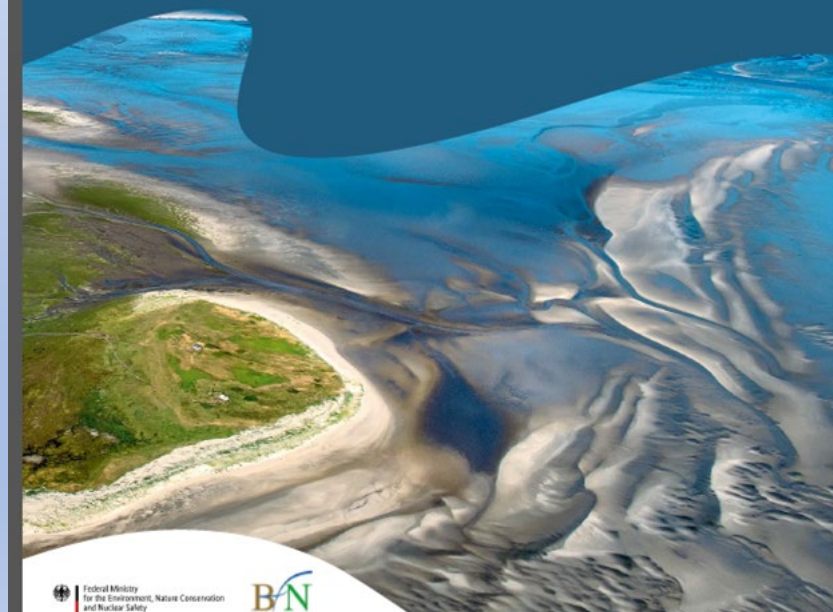
Management Effectiveness Assessment Guide for Marine Managed Areas (MEAMMA) in Solomon Islands



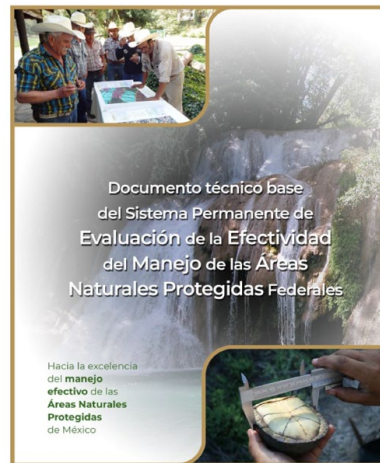
Quality Criteria and Standards for German National Parks

Evaluation procedures for reviewing management effectiveness

Version 2.0



Federal Ministry for the Environment, Nature Conservation and Nuclear Safety



MEDIO AMBIENTE CONANP efectividad



MEAT was initiated by the...
CTI Coordinating Committee
version 07 Feb. 2017

Site-level Assessment of Governance and Equity (SAGE) for protected and conserved areas

Manual for SAGE facilitators

Phase I: Preparation



Phase II: Assessment



Phase III: Taking action



ELINOR

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Assessments Create Assessment

Search by assessment name or managed area name

Showing - 0 assessments Member All

The Climate Change Resilience and Adaptation Planning Tool

A Tool for MPAs and Marine OECMs

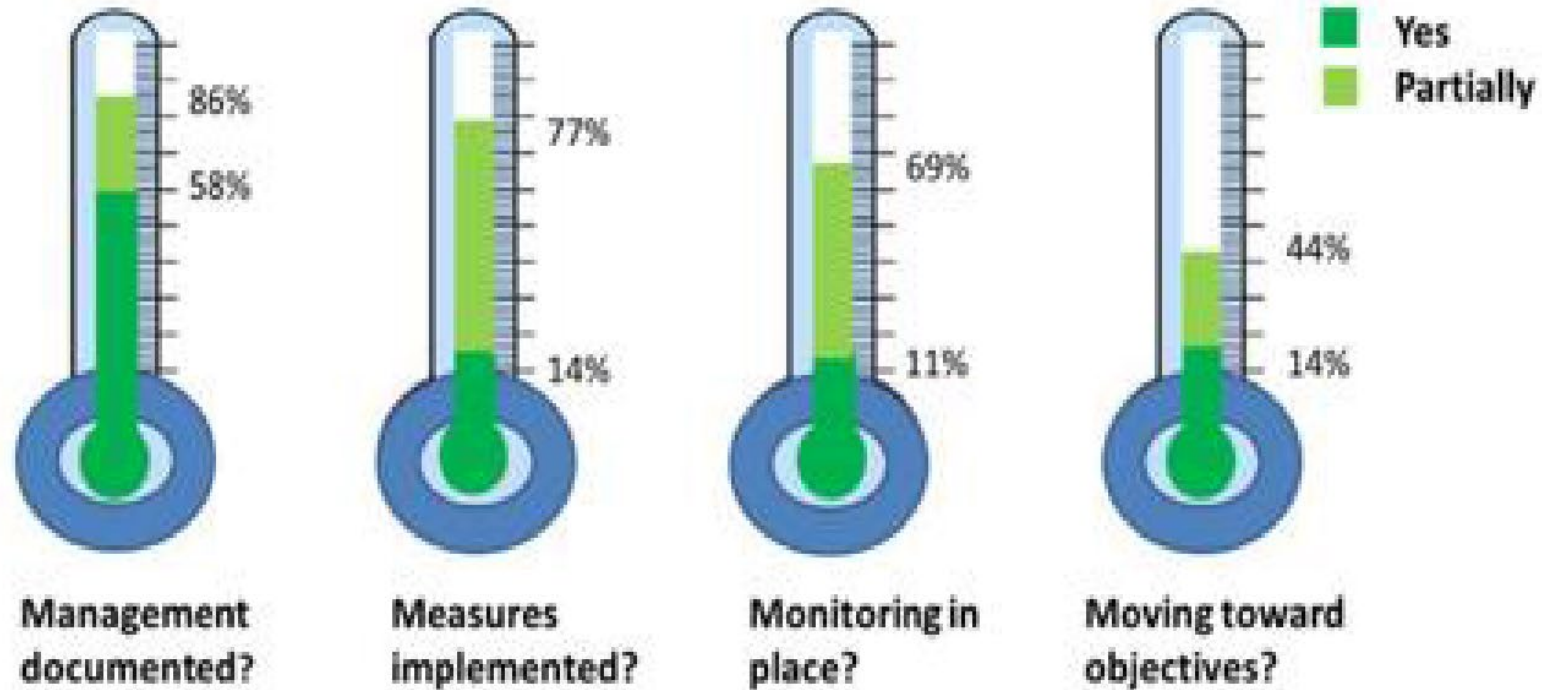
IUCN Protected Areas and Climate Change Specialist Group
January 7, 2023

Ocean Governance

MPA RESILIENCE Self Assessment Tool v.1.

R-SAT is based on a set of criteria that are evaluated by answering multiple-choice questions. In the demo version, the answers to these questions are assigned both automatically and randomly by the application. This possibility allows to explore very quickly the tool and its results.

OSPAR MPA Management Barometer



Blue Parks Award Scheme



Criteria
2021



The MPA Guide is a science-based tool and framework to identify different types of MPAs and connect these types of MPAs with the outcomes they are expected to achieve.

The MPA Guide consists of four elements: Stage of Establishment, Level of Protection, Enabling Conditions, and Outcomes.

STAGES OF ESTABLISHMENT

LEVELS OF PROTECTION

ENABLING CONDITIONS

OUTCOMES

Regulation-based classification predicting conservation outcomes

IUCN Green List Certification Programme – 16 MPAs listed

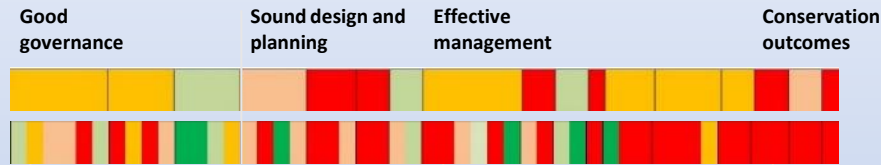
How do the different tools relate?

Green List Standard and PAME tools alignment



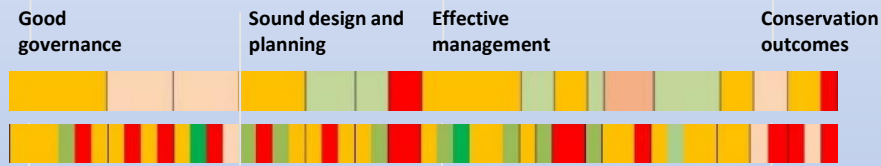
MEAT

Marine Protected Area Effectiveness Assessment Tool



WHO

World Heritage Outlook



EOH 2

Enhancing Our Heritage Toolkit



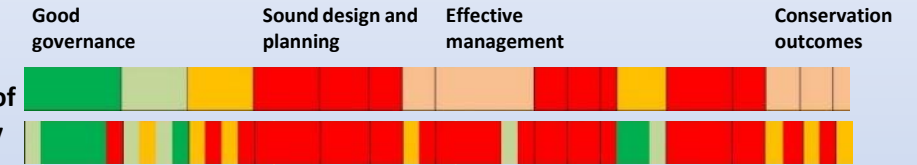
IMET

Integrated Management Effectiveness Tool



SAGE

Site-level assessment of governance and equity



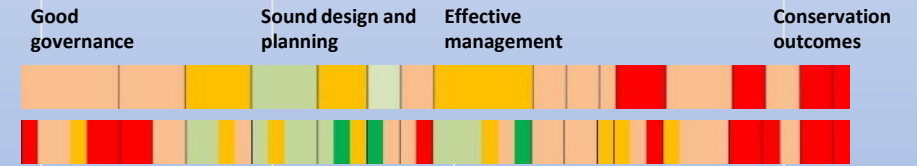
METT

Management Effectiveness Tracking Tool



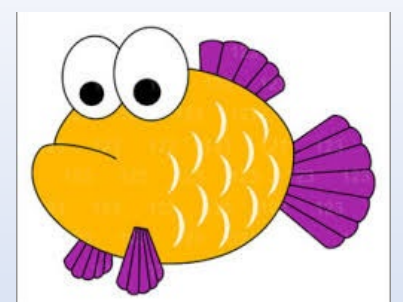
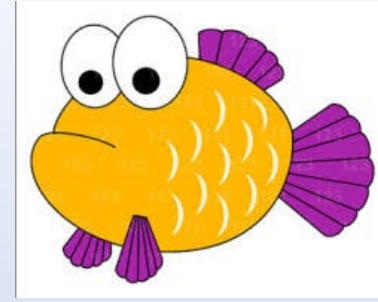
RAPPAM

Rapid Assessment and Prioritisation of Protected Area Management Tool



Scope and depth assessment for each of the seven effectiveness methodologies compared to the IUCN Green List Standard Criteria and Generic Indicators. *Source: WCMC*

Marine challenges?



- **Fishing/extraction:**
 - ‘effective management’ often equated with ‘full protection/no extraction’
 - lack of clarity on types of fishing that damage MPAs
- **Climate change** – adaptation and mitigation
- **Pollution, eutrophication, invasive species** – mitigation often difficult – more guidance needed?
- **Connectivity** – network approach – more guidance?
- **Equitable governance** – local community tenure vs “open access” traditions - economic/livelihood role of marine resources (the last “wild harvest”)

Compatibility of marine activities with MPA_s

Activities	Ia	Ib	II	III	IV	V	VI
Research: non-extractive	Y*	Y	Y	Y	Y	Y	Y
Non-extractive traditional use	Y*	Y	Y	Y	Y	Y	Y
Restoration/enhancement for conservation (e.g. invasive species control, coral reintroduction)	Y	Y	Y	Y	Y	Y	Y
Traditional fishing/collection in accordance with cultural tradition and use	N	Y*	Y	Y	Y	Y	Y
Non-extractive recreation (e.g. diving)	N	Y	Y	Y	Y	Y	Y
Large scale high intensity tourism	N	N	Y	Y	Y	Y	Y
Shipping (except as may be unavoidable under international maritime law)	N	N	N*	N*	Y	Y	Y
Research: extractive	N*	N*	N*	N*	Y	Y	Y
Renewable energy generation	N	N	N	N	Y	Y	Y
Restoration/enhancement for other reasons (e.g. beach replenishment, fish aggregation, artificial reefs)	N	N	N*	N*	Y	Y	Y
Fishing/collection: recreational (sustainable)	N	N	N	N	*	Y	Y
Fishing/collection: local fishing (sustainable)	N	N	N	N	*	Y	Y
Industrial fishing, industrial-scale aquaculture	N	N	N	N	N	N	N
Aquaculture – small-scale	N	N	N	N	*	Y	Y
Works (e.g. harbours, ports, dredging)	N	N	N	N	*	Y	Y
Untreated waste discharge	N	N	N	N	N	N*	N*
Mining, oil and gas extraction (seafloor as well as sub-seafloor)	N	N	N	N	N	N	N
Habitation	N	N	N	N	N	Y	N

Compatibility of fishing with MPAs

IUCN category	Local fishing/ collecting	Recreational fishing/ collecting	Traditional fishing/ collecting	Industrial-scale fishing	Collection for research
Ia	No	No	No	No	No*
Ib	No	No	Yes**	No	Yes
II	No	No	Yes**	No	Yes
III	No	No	Yes**	No	Yes
IV	Variable#	Variable#	Yes	No	Yes
V	Yes#	Yes	Yes	No	Yes
VI	Yes#	Yes	Yes	No	Yes

WCC-2020-Res-055-EN (Guidance to identify industrial fishing incompatible with protected areas)

Industrial fishing (identified by variables e.g. capacity and size of vessels; method and volume of fish extraction):

- Motorised vessels >12 m long x 6 m wide
- Capacity of >50 kgcatch/voyage
- Requiring substantial sums for their construction, maintenance, and operation and mostly sold commercially
- All fishing using trawling gears that are dragged or towed across the seafloor or through the water column, and fishing using purse seines and large longlines

Indicators



Examples of generic indicators

Good governance

- Governance structure clearly defined
- Stakeholders involved in decision-making

Sound design and planning

- Large enough and sufficiently connected to other habitats or ecosystems
- Part of a network meeting representation, replication, connectivity and resilience goals

Effective management

- Current management plan or functional equivalent
- Management activities and policies can be demonstrated

Successful conservation outcomes

- Site meets or exceeds the performance thresholds for the conservation of major natural values, ecosystem services, cultural values



Success does not mean perfection

Kufanya kosa siyo kosa. Kosa ni kurudia kosa.

To make a mistake is not a mistake. The mistake is to repeat the mistake.

Swahili proverb, Kenya



Le mieux est l'ennemi du bien.

The perfect is the enemy of the good

Voltaire

