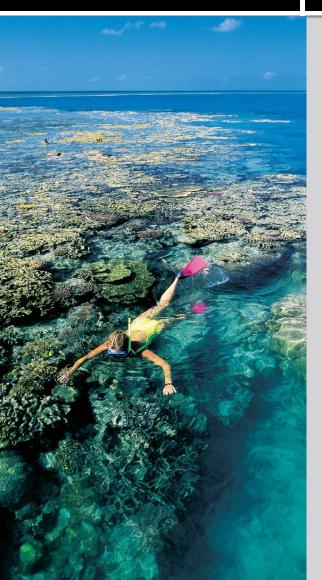
Management Effectiveness Workshop

ICRI Meeting Cairns 17th July 2012

Marinating Management Effectiveness - assessing management of Marine Protected Areas

Professor Marc Hockings University of Queensland Vice-Chair, IUCN World Commission on Protected Areas

Management effectiveness evaluation



Role of evaluation in protected area management

Protected areas play a critical role in biodiversity conservation' ...

are 'natural solutions' to climate change...

and are vital to community health and wellbeing.

Effective management is *increasingly* essential to allow PAs to play this role in the face of escalating challenges – climate change, increasing resource demands, invasive species...

Evaluation – a critical part of management

- Evaluation can:
 - Help us manage better (adaptive management)
 - Help reporting (promote accountability and transparency)
 - Help allocate resources efficiently (prioritising)
 - Help build a supporting constituency (stakeholder participation and understanding)

Management effectiveness

The WCPA Framework



IUCN

Evaluating Effectiveness A framework for assessing management effectiveness of protected areas 2rd Edition Mac Hookrya, Ilus Baltic, Pars Lowenger, Nigel Dates and Joint Pare Valender, Terris



Best Practice Protected Area Guidelines Selles No. 14



Introduction to MEE

WCPA assessment framework

Elements of evaluation	Context Where are we now?	Planning Where do we want to be?	Inputs What do we need?	Process How do we go about it?	Outputs What were the results?	Outcomes What did we achieve?
Criteria	Significance Threats Vulnerability National policy Engagement of Partners	PA legislation and policy PA system design Reserve design Management planning	Resourcing of agency Resourcing of site	Suitability of management processes	Results of management actions Services and products	Impacts: effects of management in relation to objectives
Focus of evaluation	Status	Appropriate- ness	Economy	Efficiency	Effective- ness	Effectiveness Appropriate- ness

Introduction to MEE

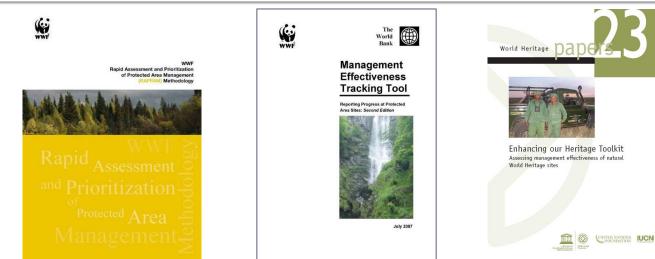


A Diversity of Methodologies

- Methodologies vary in terms of
 Level of detail in assessment (rapid, intermediate, in-depth)
 - Scale (single site, system)
- Type of data collected (qualitative, quantitative, mixed)
- WCPA elements assessed
- Management dimensions addressed
- Self assessment vs External assessment
- Internal or public reporting

Diverse methodologies

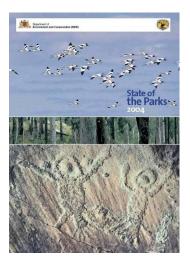






Fortalecimiento de la efectividad de manejo de áreas protegidas en los Ándes Análisis comparativo de herramientas existentes Deco II. J. Georgia J. Georgia (J. M. R. Villey J. Wasset









Análisis de

iel manejo de áreas protegidas

Review of Tiger Reserve Assessment Reports

Prepared by International Union for Conservation of Nature and Natural Resources (IUCN)



Project Tiger Directorate Ministry of Environment & Forests Government of India

Introduction to MEE



Site level assessments

- Provide detailed information that can be used to understand and improve management
- Involves site managers in evaluation
 value of the process
- Can link to annual work programming and site management planning
 Focus on applying the information to adapt management

Introduction to MEE



System level assessments

- Most assessment system focus on the site level
- There are a number of aspects of effective management of PAs that depend on system level characteristics and are not captured even when all PAs in a system are individually assessed Adaptation of management at the system level may be essential to improve overall management and this should be guided and monitored by assessments at this scale
- 4. Can provide an opportunity for stakeholder and external expert input into assessments that is not possible with large site level assessment exercises

Management Effectiveness **Evaluation has** become part of the international agenda for protected area management



International Context – CBD Programme of Work on Protected Areas.



4.2.1 Develop and adopt, by 2006, appropriate methods, standards, criteria and indicators for evaluating the effectiveness of protected area management and governance ...

4.2.2 Implement management effectiveness evaluations of at least 30 percent of each Party's protected areas by 2010... (increased to 60% by 2015 at COP10 in Nagoya)

4.2.3 Include information resulting from evaluation of protected areas management effectiveness in national reports under the Convention on Biological Diversity.

4.2.4 Implement key recommendations arising from site- and system-level management effectiveness evaluations, as an integral part of adaptive management strategies.

International Context

COP10 – CBD Strategic Plan Target 11

Target 11 calls for at least 17 per cent of terrestrial and inland water, and 10 per cent of coastal and marine areas to be conserved through effectively and equitably managed, ecologically representative and wellconnected systems of protected areas

International Context

2010 Biodiversity Indicators – Protected Area Indicators

Coverage of Protected Areas

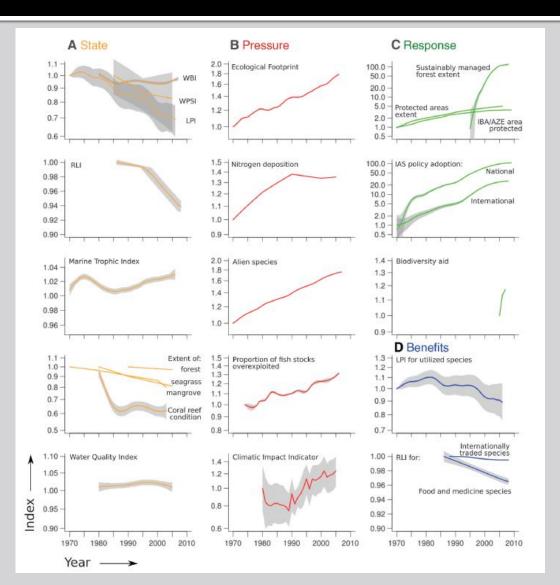
 Overlay of protected areas with key areas for biodiversity

Protected Area
 Management Effectiveness
 (PAME)

International Context



2010 Biodiversity Indicator Results



Global Study of PA Management Effectiveness (PAME)

UCN WCPA WORLD COMMISSION ON PROTECTED AREAS





THE UNIVERSITY OF QUEENSLAND







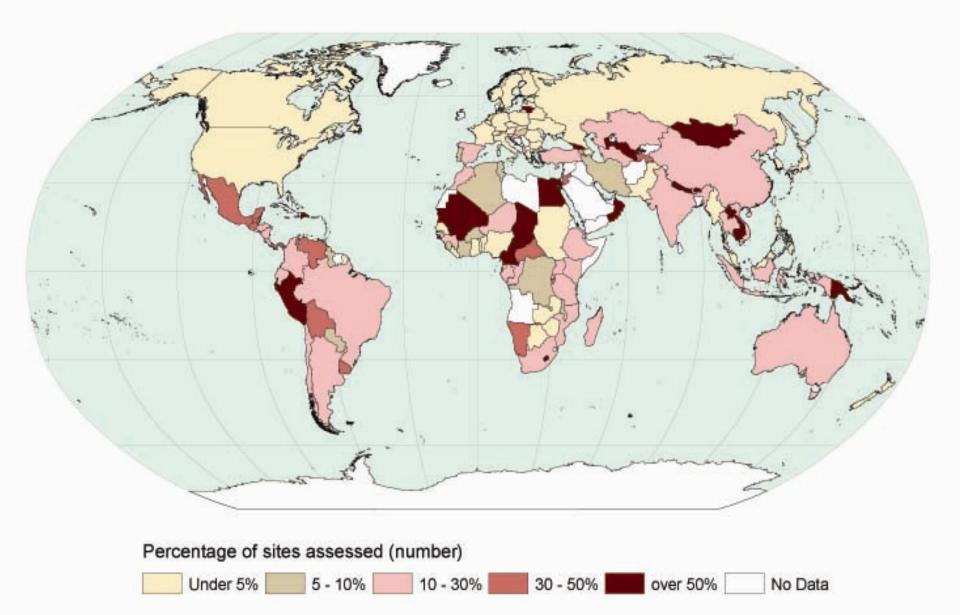
Three Key Objectives 1. What has been done? – Assess progress towards the PoWPA targets for PAME

- 2. Status of parks, key threats, factors influencing effectiveness of management.
- Integrate management effectiveness information into the World Database on Protected Areas.

Progress towards the PoWPA targets

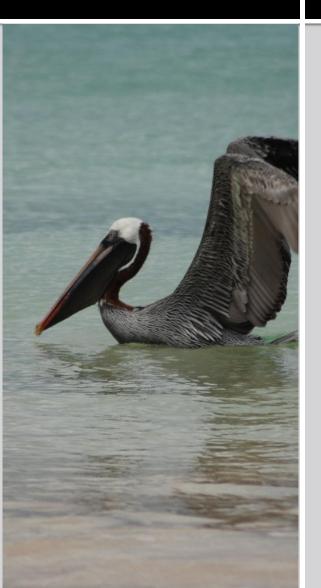
Adopt PAME systems

- PAME studies undertaken in 128 countries using more than 45 methodologies (most based in IUCN-WCPA PAME Framework
- Systems for PAME adopted in Korea, Finland, India, many Central and South American countries, Australia, Mexico etc.
- Systems being developed in South Africa, Thailand , Scotland
- Many other systems that we are learning about through this and other studies

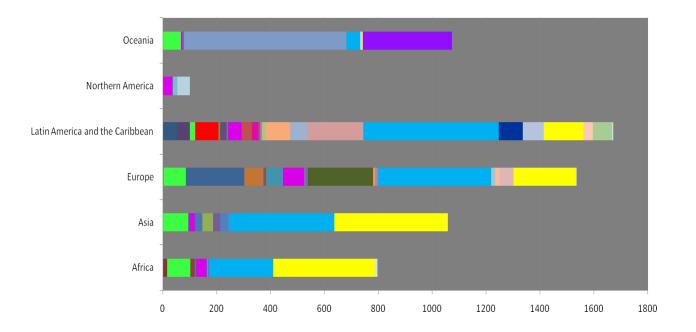


Marine Protected Areas

MEE in MPAs



- Global MEE database records assessments from 355 MPAs over period 1999-2009
- A number of significant MPA studies undertaken since 2009 (Thailand MPA study, Galapagos assessment)
- Other MEE studies include MPAs (Colombia AEMAPPS, Victorian State of Parks)
- 4. Other studies reported today that are not included in the Global Study dataset



AEMAPPS

- Belize Management Effectiveness Evaluation
- Catalonia Management Effectiveness Evaluation
- Ecuador Management Effectiveness Evaluation
- European SCS
- GBRMPA Outlook Report

India Tiger Reserve Assessment

- Korea METT
- Indian Management Effectiveness Evaluation
- MPA Management Effectiveness Evaluation
- NSW State of Parks
- PANPARKS
- PIP Site consolidation
- Scenery matrix
- SIMEC
- Management Efectiveness Tracking tool (METT)
- Venezuela Vision
- Wetland tracking tool

- Africa rainforest study
- Birdlife Important Bird Areas evaluation
- Central African Republic
- Enhancing our Heritage
- French National Parks
- German Nature Parks
- Italy quality park project
- Marine tracking tool
- MEMS
- Netherlands quality test
- PA Consolidation index
- Parks Canada
- PROARCA/CAPAS
- Schrader German BR
- Stockholm BR Survey
- USA SOP
- Victorian SOP
- WWF/CATIE

- Asturias INDESPAR
- Brazil 1999
- Conservation International Management Effectivness Tracking Tool
- European diploma
- Galápagos Management Effectiveness Evaluation
- GOBI survey
- Korea Management Effectiveness Evaluation
- MARIPA-G
- METT-RAPPAM crossover
- NPAPA England
- Padovan 2002
- Parks profiles
- RAPPAM
- Scotland LNR
- Tasmanian WHA
- Valdiviana
- West Indian Ocean MPA

MPA's						
assessed	Overall	Africa	Asia	Europe	LAC	Oceania
1999	1	0	1	0	0	0
2000	2	Ο	Ο	Ο	2	Ο
2001	16	8	1	3	4	Ο
2002	4	0	0	0	4	0
2003	7	2	1	0	4	Ο
2004	29	Ο	17	Ο	Ο	12
2005	54	2	31	5	9	7
2006	118	20	3	11	82	2
2007	18	14	0	1	Ο	3
2008	51	2	8	20	3	18
2009	15	0	0	9	6	0
				0		

PAME Global study results

Global Study Analysis



1. Data is available from approximately half of the **PAME** studies 2. Grouped individual indicators into 45 "headline" indicators and rescaled results into a common o to 1 format

Common reporting format and management effectiveness indicator

Diverse systems

Grid classification

Common reporting format

WDPA ME Indicator set WCPA Framework Elements Thousands of indicators

'translation' rules

45 headlineindicators14 indicators6 indicators

WCPA Framework Element	WDPA ME indicator	Common reporting format 'headline indicators'
	1.Value and	Five important values
	significance	Level of significance
		Five important threats
		Level of extent and severity of threats
Context	2. Threats and constraints	Trend of threats
		Constraint or support from external political and civil environment
		Main constraining factors of external political and civil environment
		Park gazettal and tenure security
	3. Site design and establishment	Adequacy of legislation
Planning		Marking and security/ fencing of park boundaries
		Appropriateness of design
	4. Management Planning	Management plan

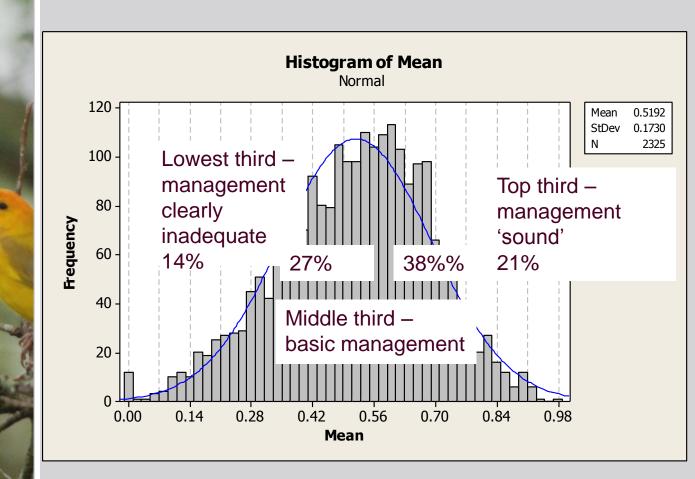
WCPA Framework Element	WDPA ME indicator	Common reporting format 'headline indicators'
		Adequacy of staff numbers
	5. Management resources	Adequacy of current funding
Input		Security/ reliability of funding
		Adequacy of infrastructure, equipment and facilities
	6. Information base	Adequacy of relevant and available information for management

WCPA Framework Element	WDPA ME indicator	Common reporting format 'headline indicators'
		Effectiveness of administration including financial management
		Effectiveness of governance and leadership
	7. Internal management systems and processes	Management effectiveness evaluation undertaken
		Model of governance
		Adequacy of building and maintenance systems
		Adequacy of human resource mgt policies and procedures
	procees	Adequacy of staff training
		Staff morale
		Staff/ other management partners skill level
	8. Law enforcement	Adequacy of law enforcement capacity
Process	o. Law emorcement	List (up to) five main issues for law enforcement
FIUCESS	9. Stakeholder relations	Appropriate program of community benefit/ assistance
		Communication program
		Involvement of communities and stakeholders
		List community benefit/ assistance program
	10. Visitor management	Character of visitor facilities and services
		Level of visitor use
		Visitors catered for and impacts managed appropriately
	11. Natural and	Natural resource and cultural protection activities undertaken
	cultural resource	Sustainable resource use - management and audit
	management	Research and monitoring of natural/ cultural management
	systems	Threat monitoring

WCPA Framework Element	WDPA ME indicator	Common reporting format 'headline indicators'
	12.	Achievement of set work program
Outputs	Achievement of work program	Activities/ services and outputs have been produced
		Proportion of stated objectives achieved
	13. Conservation	Conservation of nominated values - trend
Outcomes	outcomes	Conservation of nominated values - condition
	14. Community outcomes	Effect of park management on local community

PAME Global study results

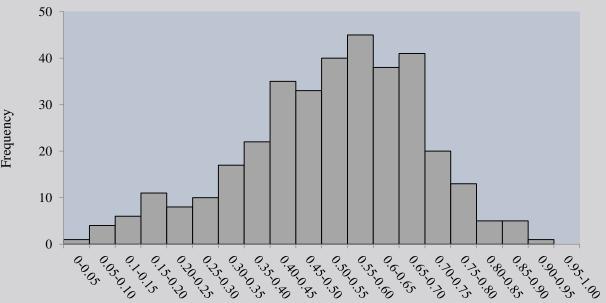
Overall effectiveness of Protected Area Management



Marine Protected Areas

Global ME Database overall scores for MPAs



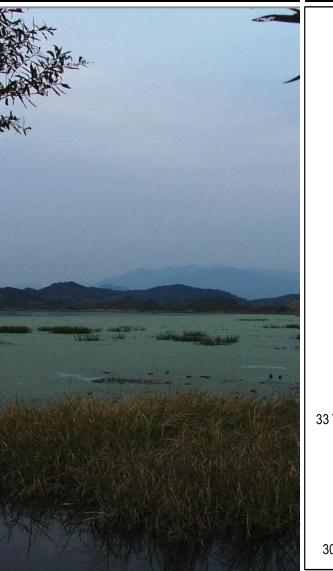


Average

Mean score for MPAs identical to mean for all PA data

PAME Global study results

Performance of indicators



0.00

0.90 1.0

0.80

8 Park gazettal

0.10 0.20 0.30

0 40

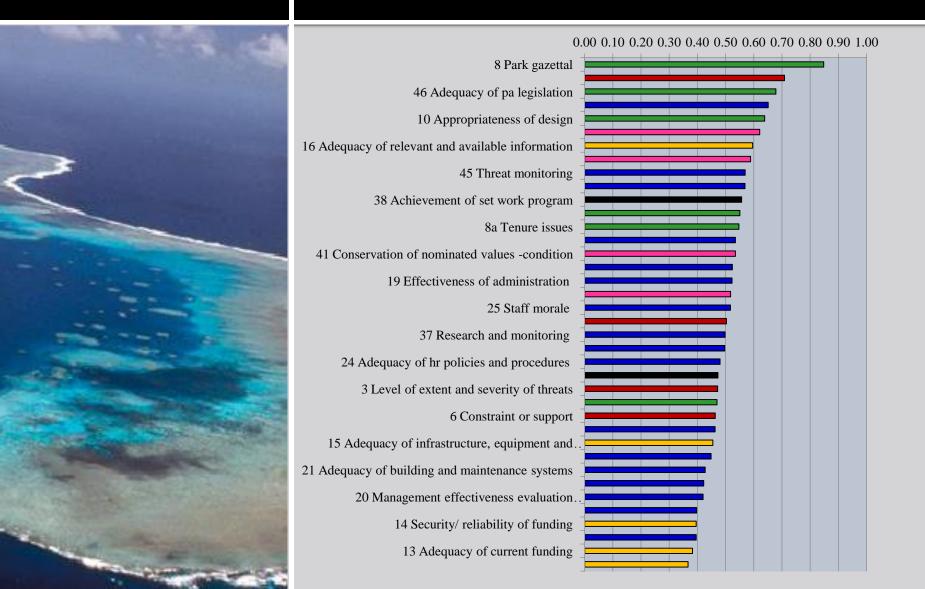
0.50

0.60

17 Effectiveness of governance and leadership 9 Marking and security/fencing of park boundaries 8a Tenure issues 23 Staff/ other management partners skill level 45 Threat monitoring 10 Appropriateness of design 41 Conservation of nominated values -condition 6 Constraint or support 43 Effect of park management on local community 40 Proportion of stated objectives achieved 16 Adequacy of relevant and available information 12 Adequacy of staff numbers 38 Achievement of set work program 22 Adequacy of staff training 39 Results and outputs have been produced 26 Adequacy of law enforcement capacity 11 Management plan 37 Research and monitoring 15 Adequacy of infrastructure, equipment and facilities 19 Effectiveness of administration 24 Adequacy of hr policies and procedures 33 Visitors catered for and impacts managed appropriately 36 Natural resource and cultural protection 28 Involvement of communities and stakeholders 29 Communication program 21 Adequacy of building and maintenance systems 20 Management effectiveness evaluation undertaken 13 Adequacy of current funding 14 Security/ reliability of funding 30 Appropriate program of community benefit/ assistance

Marine Protected Areas

Performance of indicators

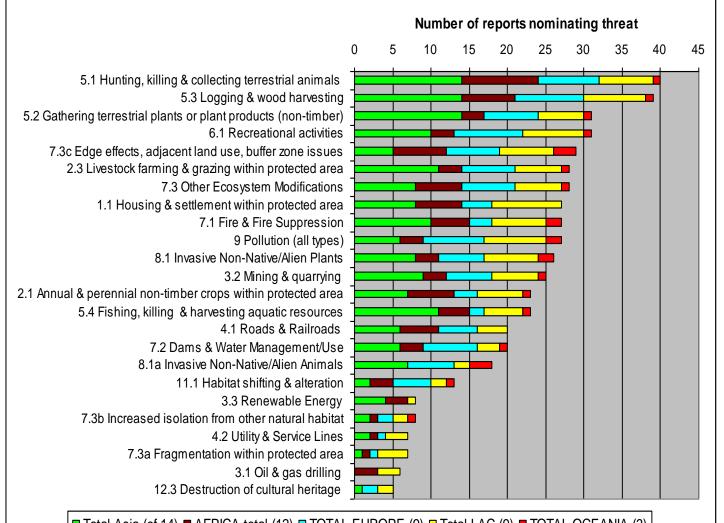


Global Study Results

Summary by WCPA Element

	Mean	Sample
Average inputs	0.50	2302
Average planning	0.64	2305
Average process	0.49	2336
Governance processes	0.51	2301
Community processes	0.45	2189
 Environmental processes 	0.49	2199
Average output	0.53	1368
Average outcome	0.60	2196

Most commonly reported threats



■ Total Asia (of 14) ■ AFRICA total (12) ■ TOTAL EUROPE (9) ■ Total LAC (9) ■ TOTAL OCEANIA (3)

PAME Global study results

Strongest aspects of management

1. Park establishment (gazettal, boundary marking, tenure issues, PA design) 2. Conservation of key values, achievement of management outputs and outcomes. Governance

Marine Protected Areas

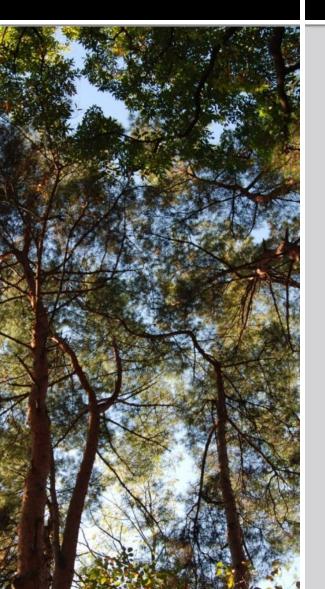
Strongest aspects of management



 Park establishment (gazettal, tenure issues, PA design)

Adequacy of legislation
 Governance

PAME Global study results



Weakest aspects of management

1. Programs of community benefit and assistance 2. Adequacy, security and reliability of funding 3. Communication programs 4. Involvement of communities and stakeholders 5. Building and maintenance systems

Marine Protected Areas

Weakest aspects of management



 Adequacy of staffing, training, skill levels 2. Adequacy, security and reliability of funding Visitors catered for and impacts managed 4. Programs of community benefit and assistance 5. Management effectiveness studies

PAME Global study results

Highest correlation of individual indicators with overall Management Effectiveness



 Communication program
 Natural and cultural resource management programs
 Management plans
 Involvement of communities and stakeholders

PAME Global study results

Highest correlations with Outcomes



Biodiversity outcomes

- 1. Skills of staff
- 2. Resolution of tenure issues
- 3. Achievement of work program
- Effectiveness of law enforcement

Community outcomes

- **1**. Communication program
- Program of community benefit
- Involvement of communities and stakeholders

Marine Protected Areas



Correlations between indicators

Headline indictors	Outcome indicators			
	Conservation of nominated values - condition	Conservation of nominated values –trend	Effect of park management on local community	
Level of significance	0.86** (21)	0.93** (10)	0.47** (148)	
Level of extent and severity of threats	0.45** (13)	0.57** (13)		
Constraint or support	0.47** (55)			
Tenure issues	0.74** (10)			
Management effectiveness evaluation undertaken			0.49** (57)	
Staff/ other management partners skill level	0.53*(10)			
25 Staff morale	0.60** (28)	0.53** (26)		
32 Sustainable resource use	-0.75** (13)			
39 Results and outputs have been produced		0.61* (10)		

Introduction to MEE

Questions

Thank - you

