

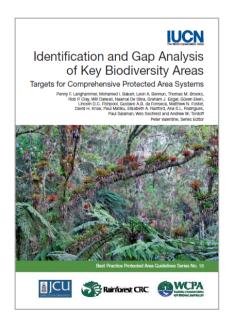


A review of tools for EBA

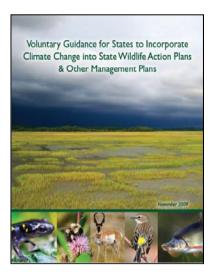
- What is available already
- What is needed
- Some initial proposals for the project

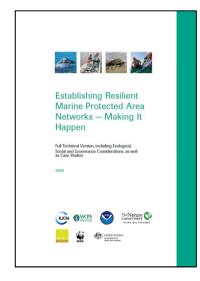


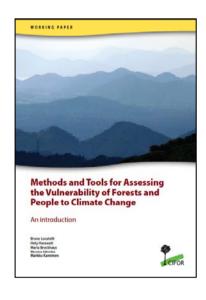
Global 200, Key Biodiversity Areas, Centres of Plant Diversity, Important Bird Areas, Important Plant Areas, Alliance for Zero Extinction etc

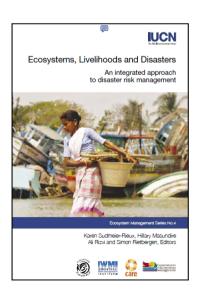


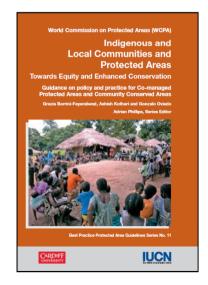


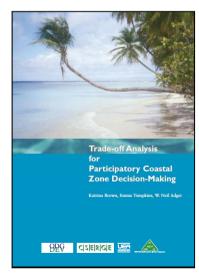




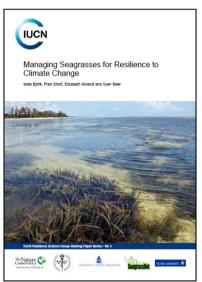


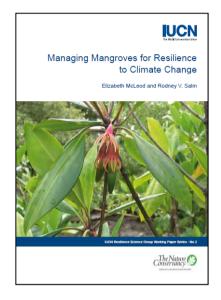


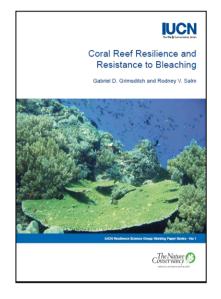


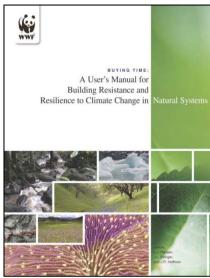


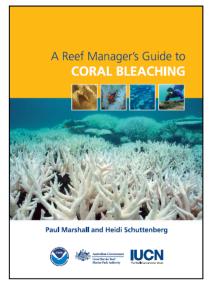


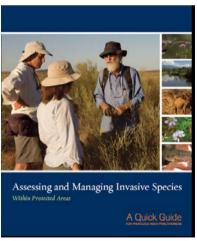


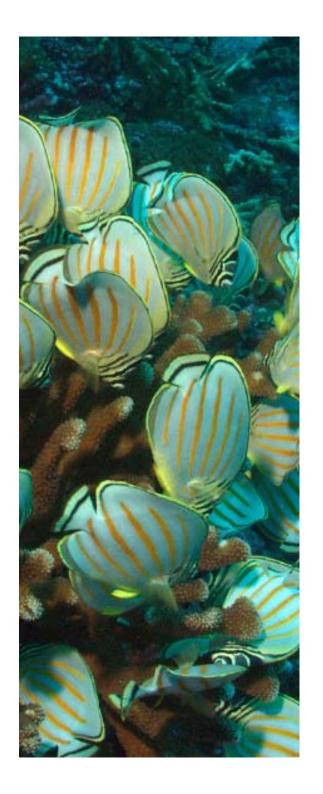




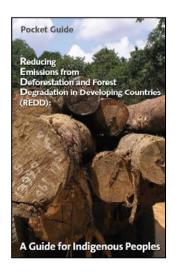


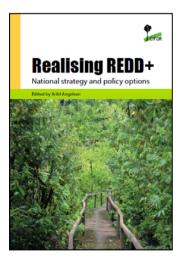






Also tools for mitigation —a meeting in Washington DC of the Climate, Communities and Biodiversity Alliance is discussing new social and environmental guidelines for REDD projects



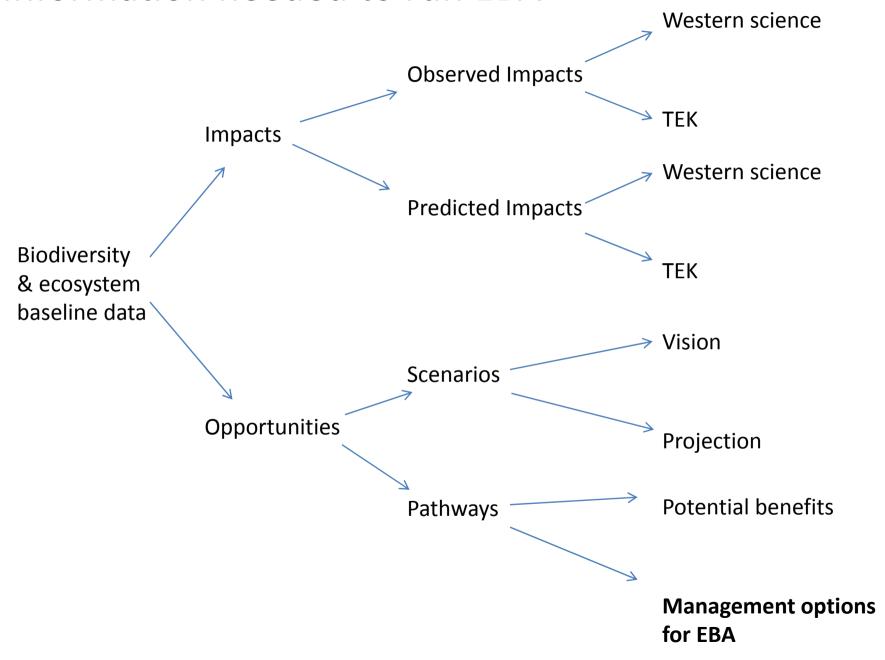




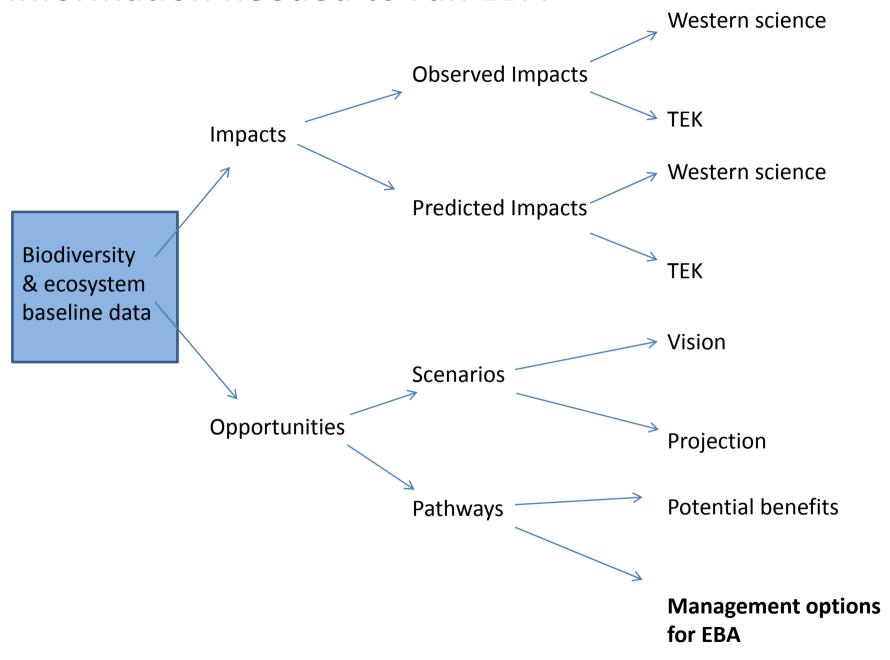
What is needed

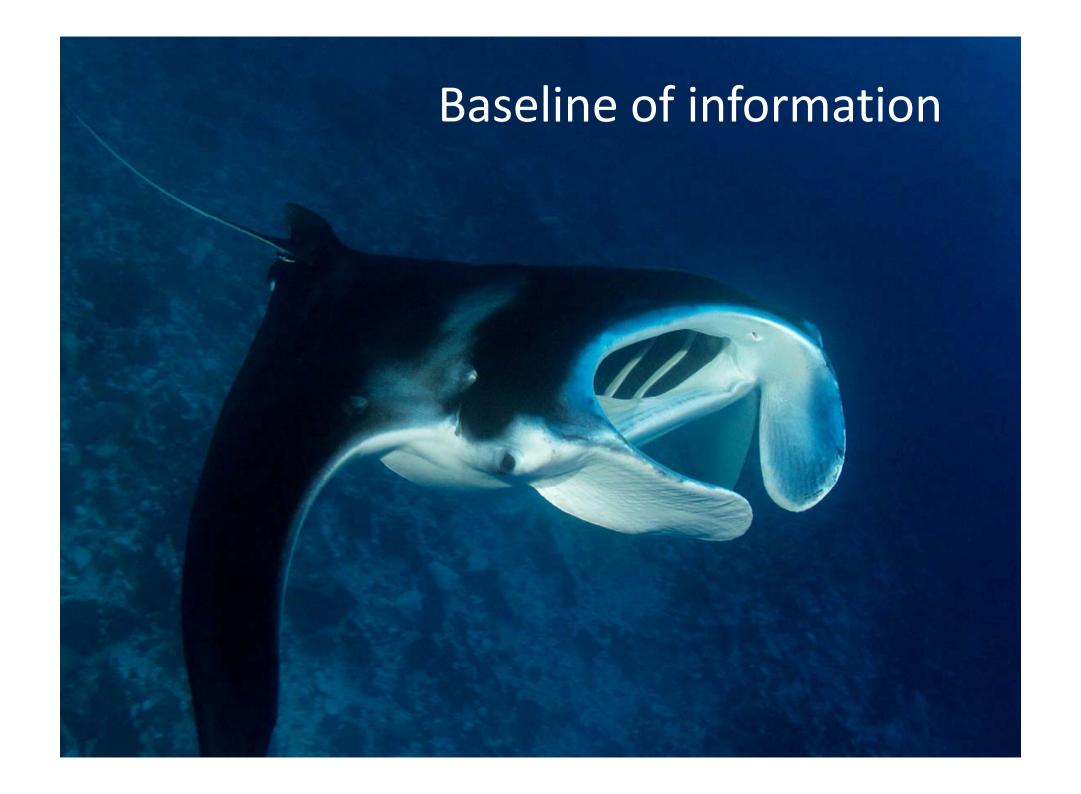
The range of tools needed for the current project will depend ultimately on project objectives – which we need to agree in the next couple of days...

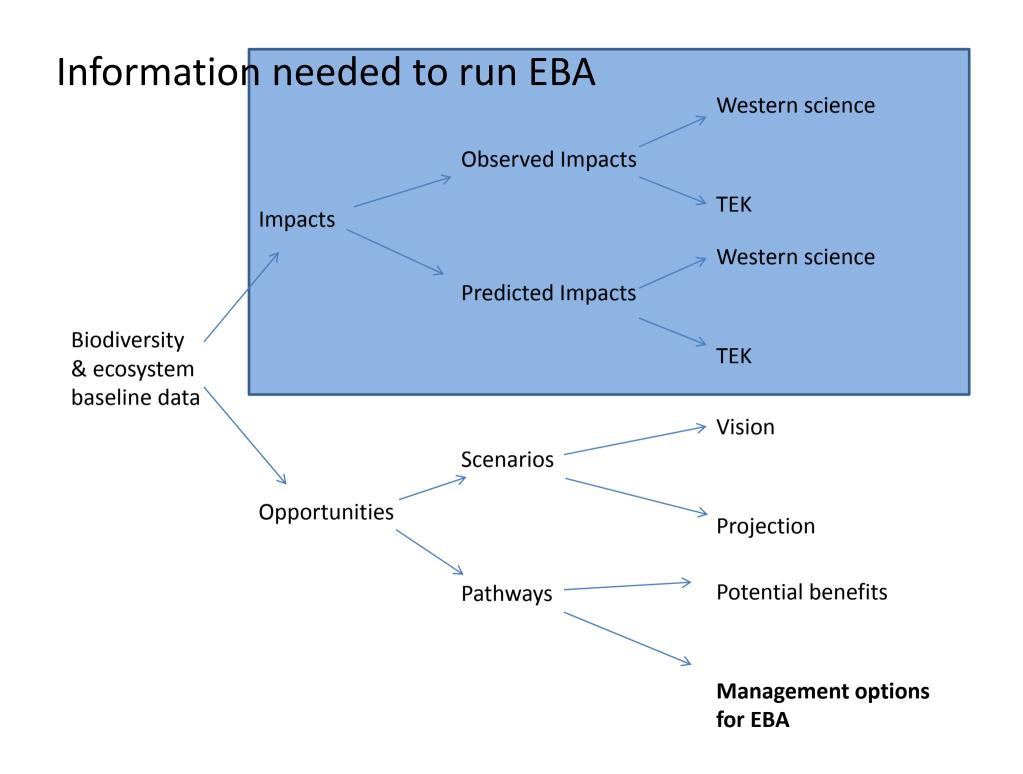
Information needed to run EBA



Information needed to run EBA









Measuring impacts

- Prediction for individual Pacific island groups is inexact
- We need to know:
 - What global climate models say
 - Biodiversity information
 - What scientists have measured or predicted for individual sites
 - What local people have observed
- Information should be presented in an easily understood format
- Is the information already known or do we need more research?







Potential ways of *showing* impacts

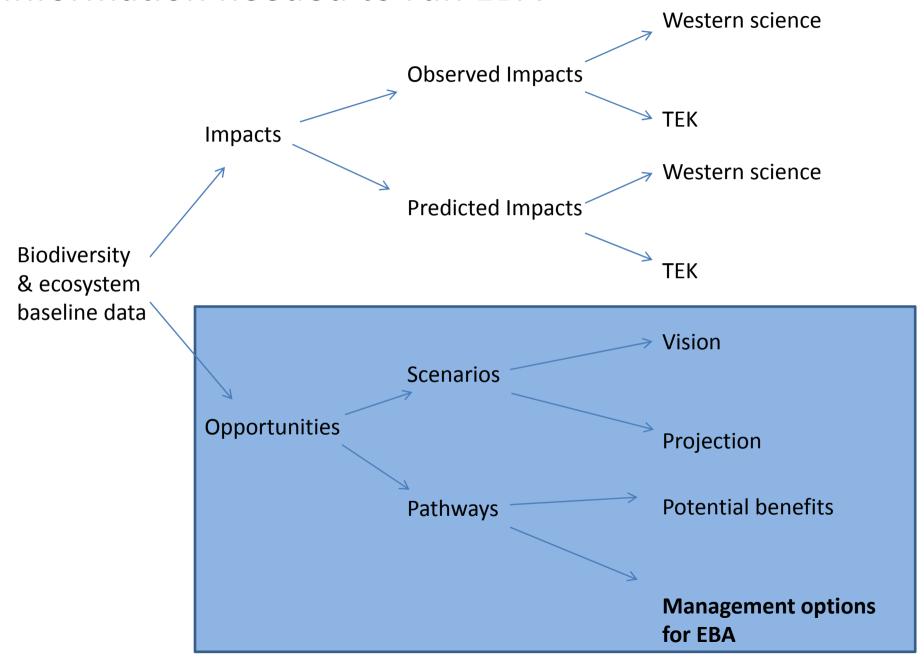
By a particular site or island

Key issues	Western science	Rating	TEK	Rating	Likely impacts
Sea level ríse	Recorded increases throughout the region, predicted to intensify (include references)		Noted that some íslands now vírtually unínhabítable	?	Some íslands and many coastal communítíes at rísk
Físheríes	Measured decline in populations of some species linked to changing water temperatures	?	Catches becoming more erratic		Potentíal food shortages, partícularly for proteín amongst coastal communítíes
Crop success	Líkely increase in droughts				No changes in crop yield observed so far
Etc					

By a particular ecosystem

Ecosystem	Pressure from climate change													
	Sea-level rise		Increased natural disasters		Coastal decline		Food supply		Reduced water		Invasive species		Cumulative impacts	
	Sci	TEK	Sci	TEK	Sci	TEK	Sci	TEK	Sci	TEK	Sci	TEK	Sci	TEK
Coastal areas	↓	\	↓	↓	1	↓				↓		+	↓	\
Forests	/		\	↓	1	/	↓	+			↓	+	↓	+
Etc														

Information needed to run EBA

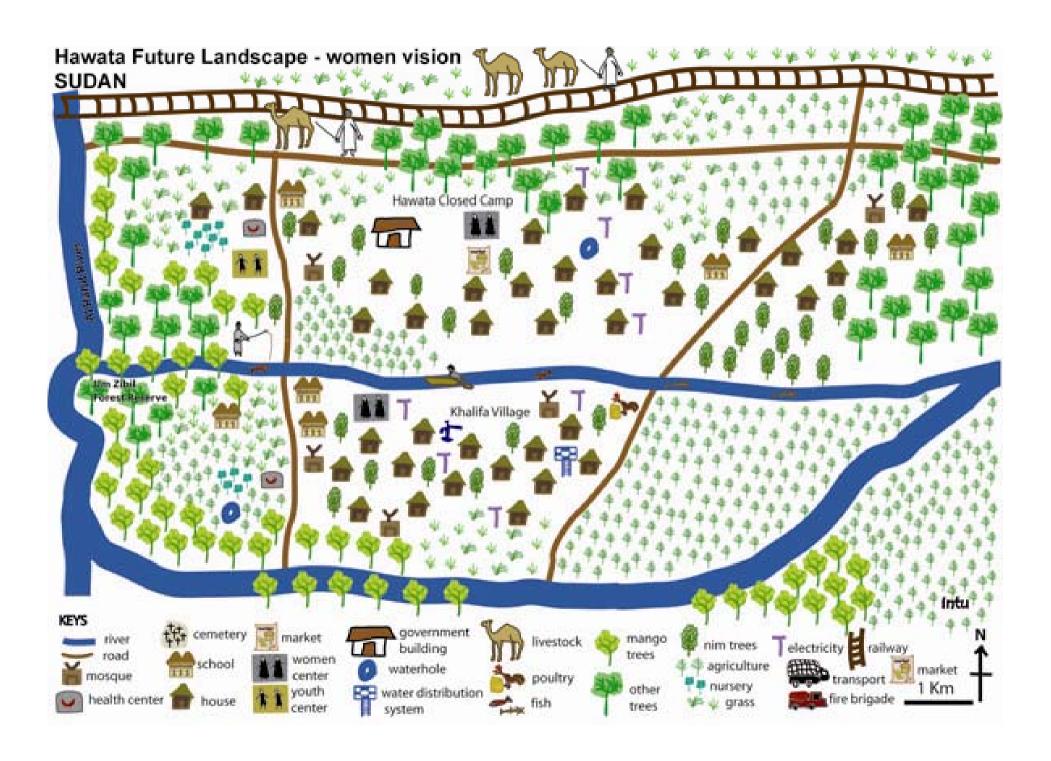




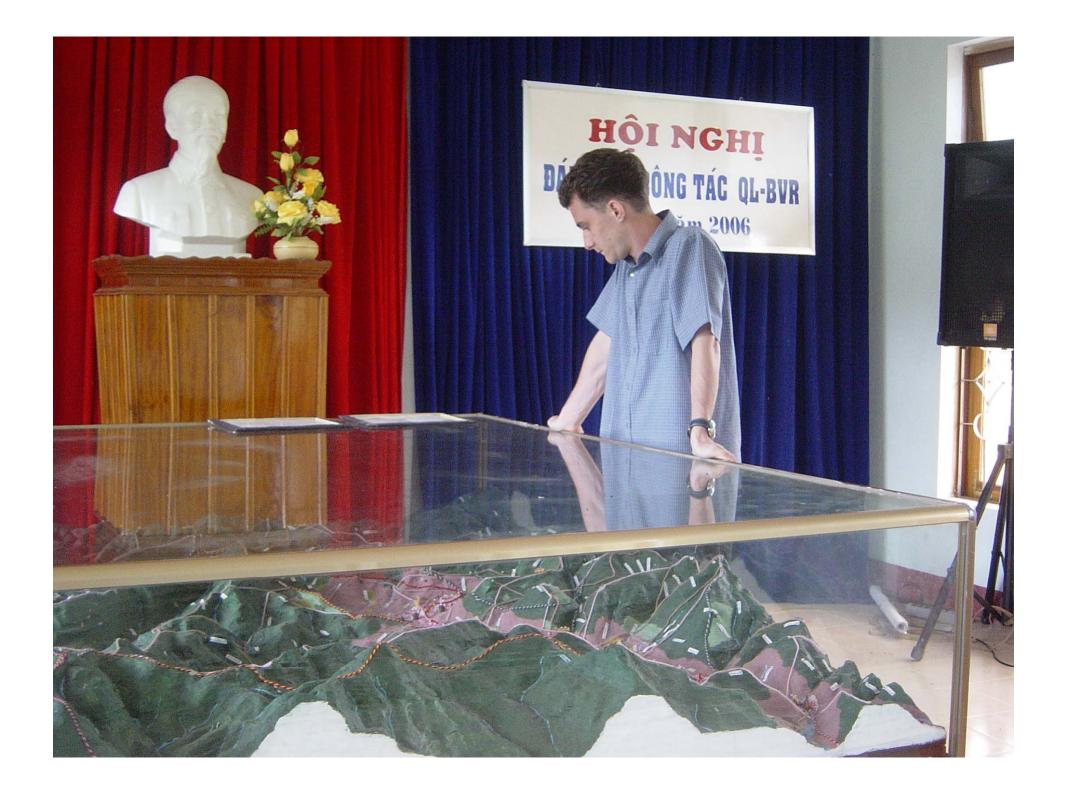
Scenarios

- Finding out what people want
- Scenarios can either be ideal visions or expectations of reality – both are useful
- They can be recorded discussions, maps, models or plans...
- A stand-alone component <u>or</u> EBA added into existing scenario building



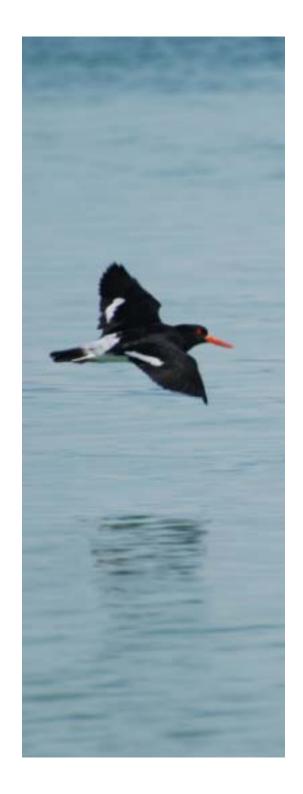






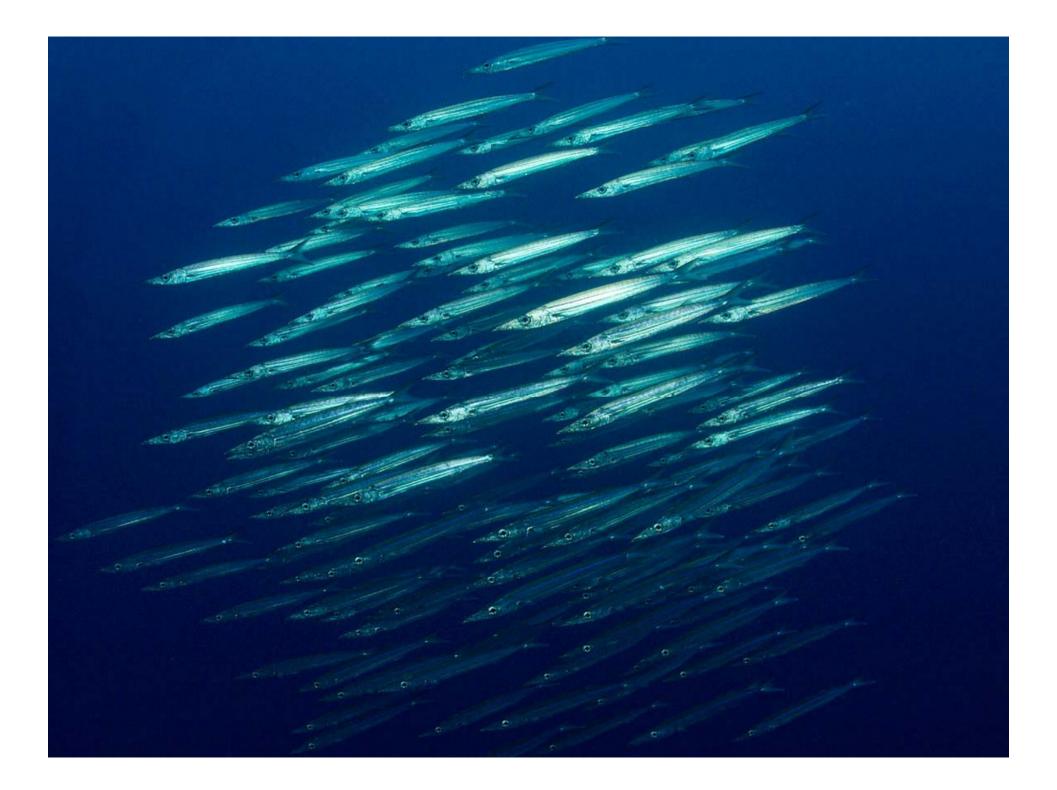






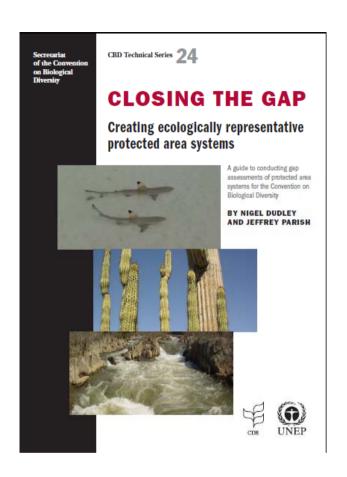
Identification of potential benefits

- Preventing floods
- Protecting shorelines
- Providing clean water
- Maintaining fish stocks
- Securing agriculture



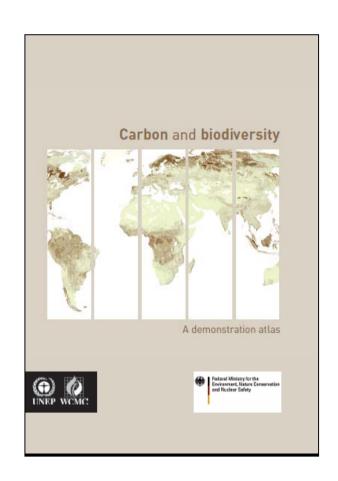




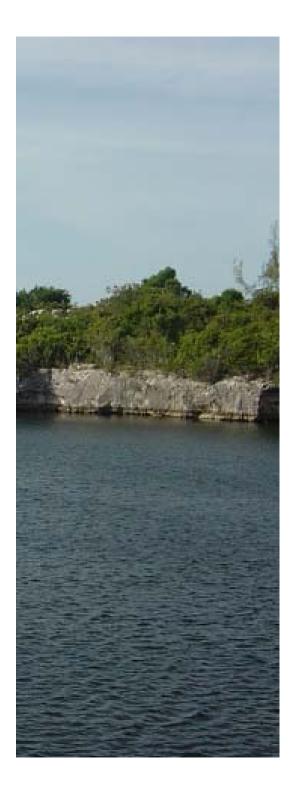


Adapting protected area gap analysis to a system that can identify gaps in EBA and suggest possible solutions





Overlaying carbon mapping with biodiversity and management options





Marine Protected Areas Policy and Legislation Gap Analysis: Fiji Islands

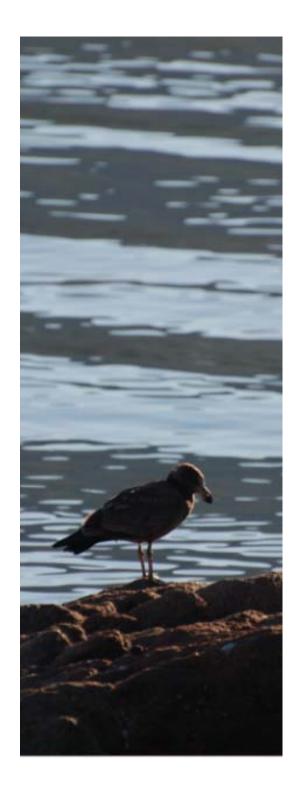
Erika J Techera, LLB (Hons), M Env Law, LLM Shauna Troniak, BA, LLB



IUCN Regional Office for Oceania



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Also possibly legislative gaps – should we be looking for a legal gap analysis?



Management options

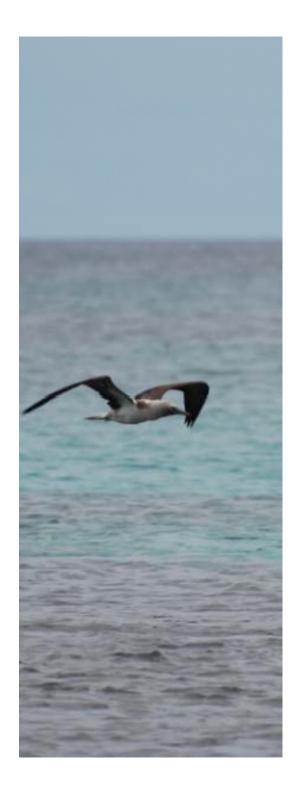
Protected area	State, private or customary agreement
Marine and freshwater fishing	Government and community no-take zones, certification, codes of practice, tradable fish quotas
Agriculture	Certification, voluntary codes, tax and incentives
Forestry	Government reserves and concessions, community management, certification, voluntary codes, tax incentives
Ecosystem services	Legal protection, Payment for Ecosystem Services schemes, tax incentives, community schemes
Hunting	Voluntary and legal hunting reserves, bushmeat controls
Tourism	Ecotourism, recreational parks
Cultural heritage	Voluntary and legal schemes

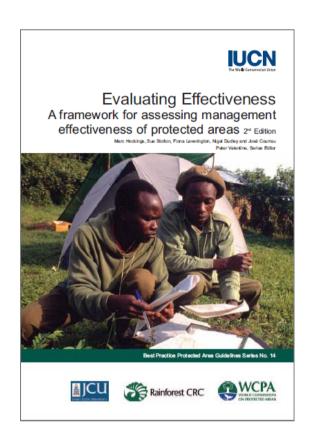
Protected areas

Governance type	A. Protected areas managed by the government			B. Co-managed protected areas			C. Private protected areas			D. Indigenous & Community Conserved Areas	
IUCN category (management objective)	Federal or national ministry or agency in charge	Local ministry or agency in charge	Management delegated by the government (e.g. To an NGO)	Transboundary protected area	Collaborative management (various pluralist influences)	Collaborative management (pluralist management board	Declared and run by private individual	Declared and run by non-profit organisations	Declared and run by forprofit individuals	Declared and run byindigenous peoples	Declared and run by local communities
I – Strict nature reserve or wilderness areas											
II – Ecosystem protection and recreation											
III – Natural monument											
IV – Protection of habitats and species											
V – Protection of landscapes or seascapes											
VI – Protection and sustainable resource use											

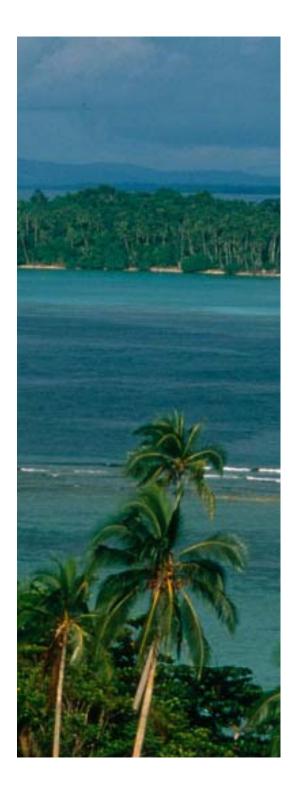
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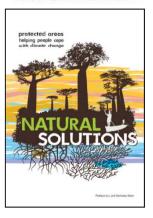
Should we also be considering management effectiveness of protected areas? And other conservation areas?

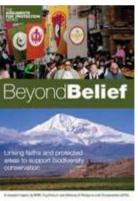


Values of protected areas

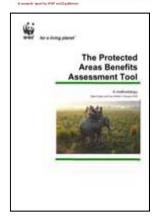






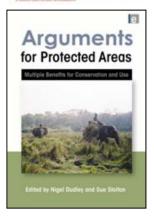




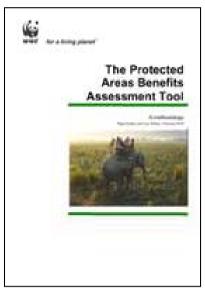












A simple way of capturing information about the wider values of protected areas (or other areas) suitable for use with scientists, managers or communities



	Baseline requirement for EBA						
Information Baselines	Vital and present	Vital and priority to complete	Good to have but not vital				
Conservation priorities (e.g. Key Biodiversity Areas; Important Bird Areas)							
Biodiversity monitoring (e.g. long term trend monitoring)							
Carbon (e.g. stores and sinks)							
Ecosystem services (e.g. watersheds; fisheries; storm protection)							
PA monitoring and assessment (e.g. management effectiveness, managing for climate change)							
Community status, vision and scenarios							
Climate impacts (e.g. long-term monitoring methodologies; modelling)							