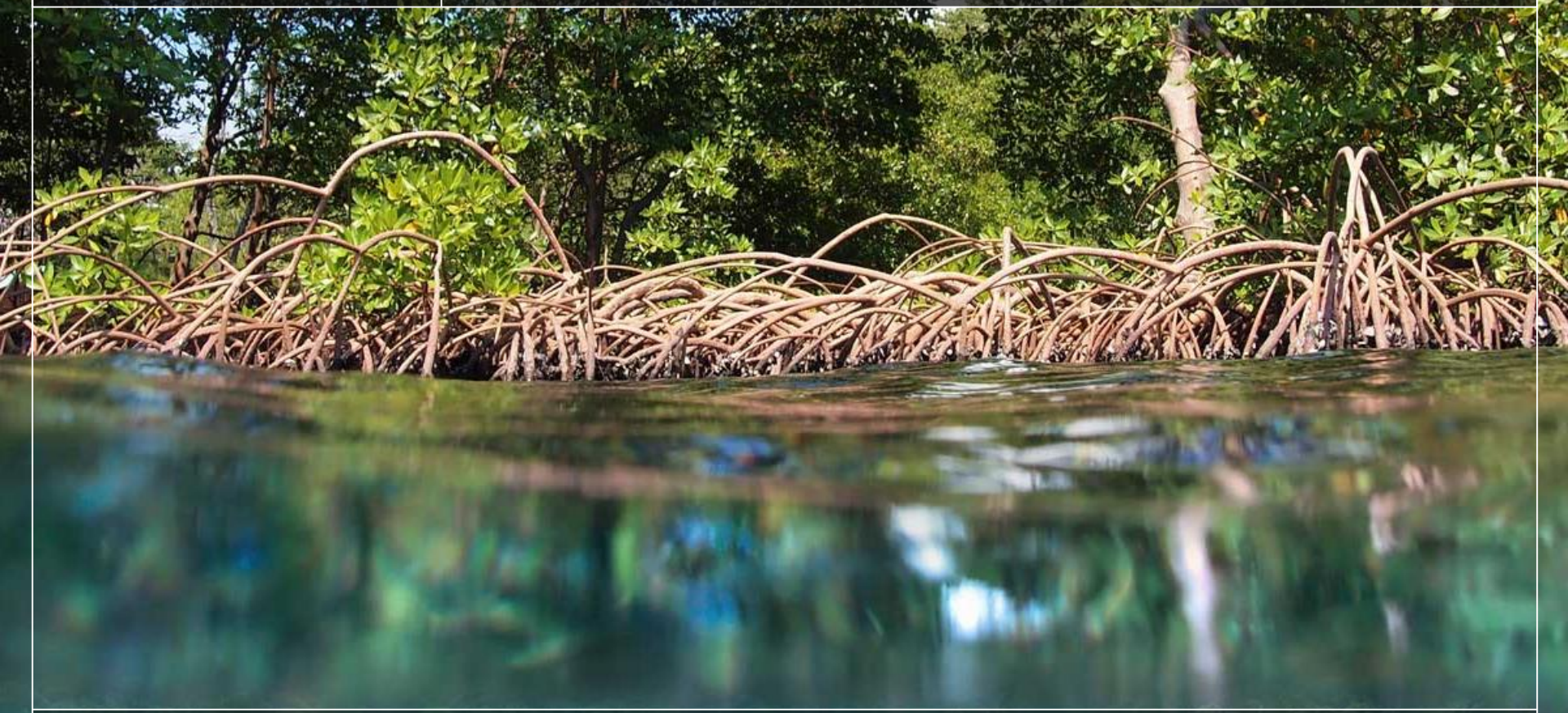
UN environment WCMC

UN Environment
World Conservation Monitoring Centre



Tools and Methods for Ecosystem-based Adaptation (EbA) Practitioners and Planners

Cordula Epple, Climate Change and Biodiversity Programme

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Why focus on tools and methods for EbA?

Uptake of nature-based solutions to climate change, including EbA, is constrained by a number of barriers:

- 'Young' concept – limited experience and evidence
- Lack of awareness and entrenched attitudes / expectations
- Policy, regulatory and funding landscape not suited to particularities of EbA (such as long time horizons, cost-effectiveness dependent on multiple benefits, site-specificity, number of actors and sectors involved)
- Capacity gaps (different disciplines involved)

Why focus on tools and methods for EbA?

Uptake of nature-based solutions to climate change, including EbA, is constrained by a number of barriers:

Improved access to tools and methods can help!

- 'Young' concept – limited experience and evidence ✓
- Lack of awareness and entrenched attitudes / expectations ✓
- Policy, regulatory and funding landscape not suited to particularities of EbA (such as long time horizons, cost-effectiveness dependent on multiple benefits, site-specificity) ✓
- Capacity gaps (different disciplines involved) ✓ ✓

EbA Tools and Methods – what can they do for you?

Taking account of ecosystems in vulnerability assessments and adaptation planning

Identifying and selecting adaptation options

Costs-benefits analysis

Developing an implementation strategy

Developing a monitoring and evaluation system

Integrating EbA into existing policies or frameworks

HOW TO FIND AVAILABLE TOOLS?

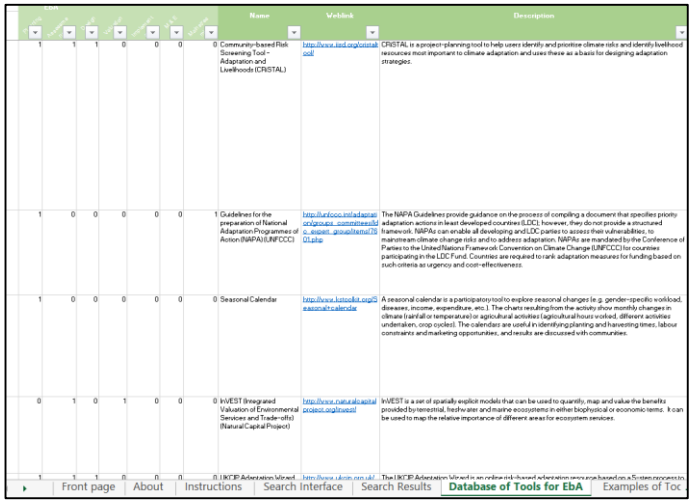
Ecosystem-based Adaptation Tool Navigator

A searchable database of tools and methods relevant to EbA

iied IUCN UN environment WCMC giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety

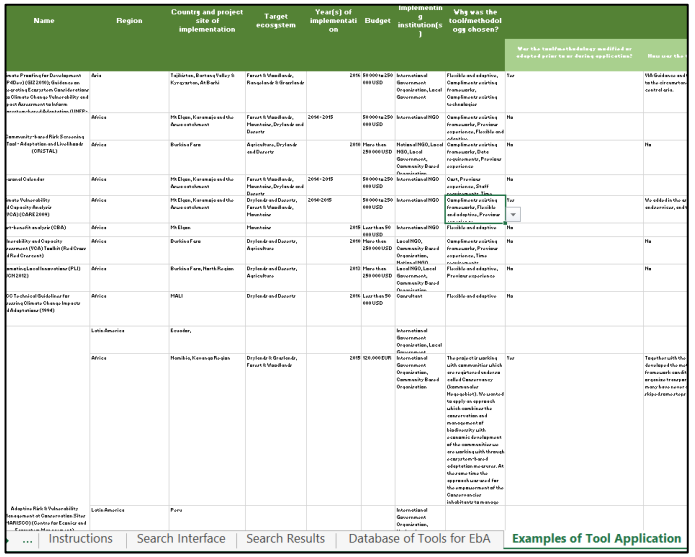
What is the EbA tools and methods Navigator?

- **Searchable database of existing tools and methods that are relevant to EbA**
- **Collection of examples of tool applications**

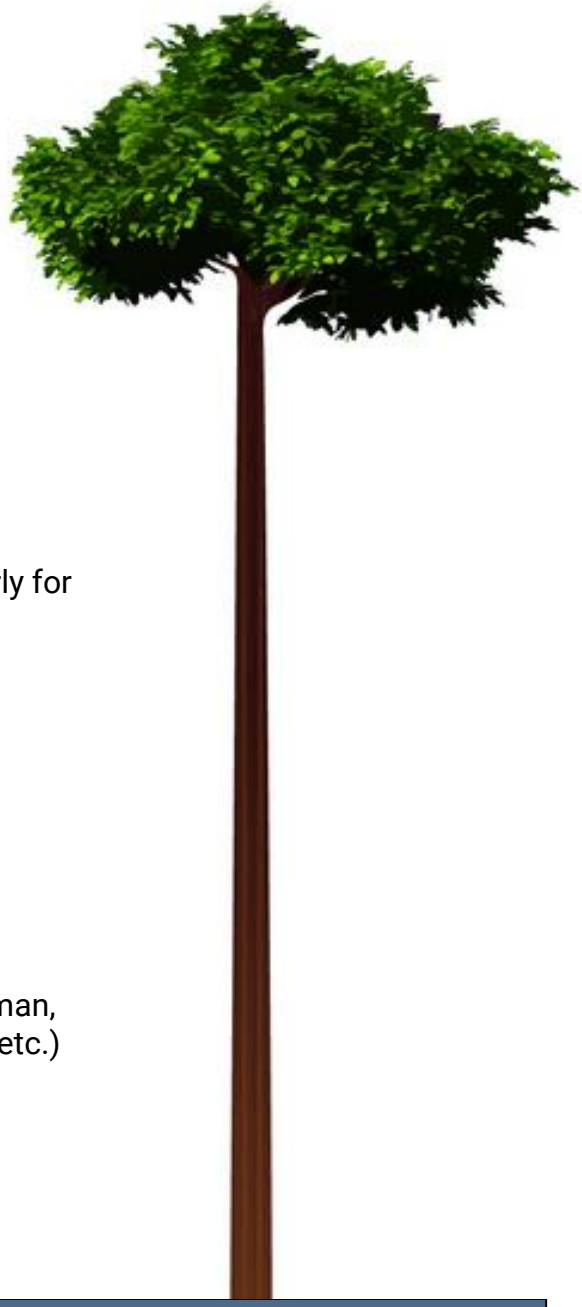


What is the aim of the Navigator?

- **To help planners and practitioners easily find and understand the tools and methods available to support their EbA work**
- **To understand gaps in the current availability and accessibility of tools and methods**



Navigator content



Number of tools: 240

Stages:

- **Large number of tools cover most stages of EbA**
- **Fewest for 'Valuation' and 'Mainstreaming'**

Ecosystems coverage:

- **Most tools are general** (i.e. applicable to a range of ecosystem types and contexts)
- **A few entries in the database are designed for specific ecosystem types** (particularly for rangelands & grasslands, mountains, drylands & deserts)

Scale:

- **Most tools are applicable to a range of scales** (204 tools applicable at local level)

Targeted users:

- **Project planners / managers: 210 --- Policy makers: 166**

Languages:

- **Mostly English – only 35 tools available in other languages** (incl. Spanish, Italian, German, French, Afrikaans, Nepali, Bengali, Mandarin, Arabic, Urdu, Burmese, Thai, Portuguese, etc.)

Access:

- **Most are open access (only 9 restricted)**

Navigator Search Interface

SEARCH INTERFACE

This tab allows you to search the database of tools and methods by making selections, based on certain criteria. Use the drop down lists t
one or multiple criteria, from the ecosystem type you are interested in to the target audience, scale, type of resource and language of the
Another option is to search for tools according to the 'stage of EbA' they support. This can be done in combination with the other criteria.
Results from your search are displayed in the 'Search Results' tab. (Each new search will replace the results from the previous search).

Primary Ecosystem	Target Audience	Scale	Type of Resource	Language	Designed for
Mountains	No filter	Local/Site-level	GIS application	No filter	No filter

EbA Stage						
Planning	Assessment	Design	Valuation	Implementation	M & E	Mainstreaming
0	0	0	0	1	1	0

Search Database

UNEP-WCMC **technical report**

Guidance on Integrating Ecosystem Considerations into Climate Change Vulnerability and Impact Assessment to Inform Ecosystem-based Adaptation

UNEP WCMC

UNEP-WCMC technical report

Guidance on Integrating Ecosystem Considerations into Climate Change Vulnerability and Impact Assessment to Inform Ecosystem-based Adaptation

UNEP WCMC

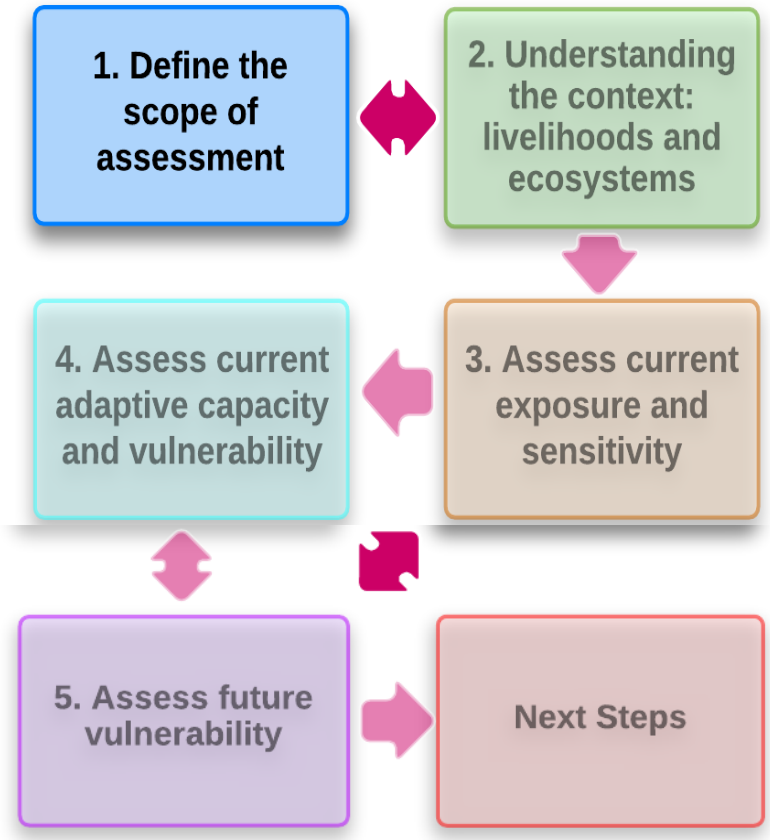
Aim: Provide guidance on how to integrate consideration of ecosystems and ecosystem services into VIAs.

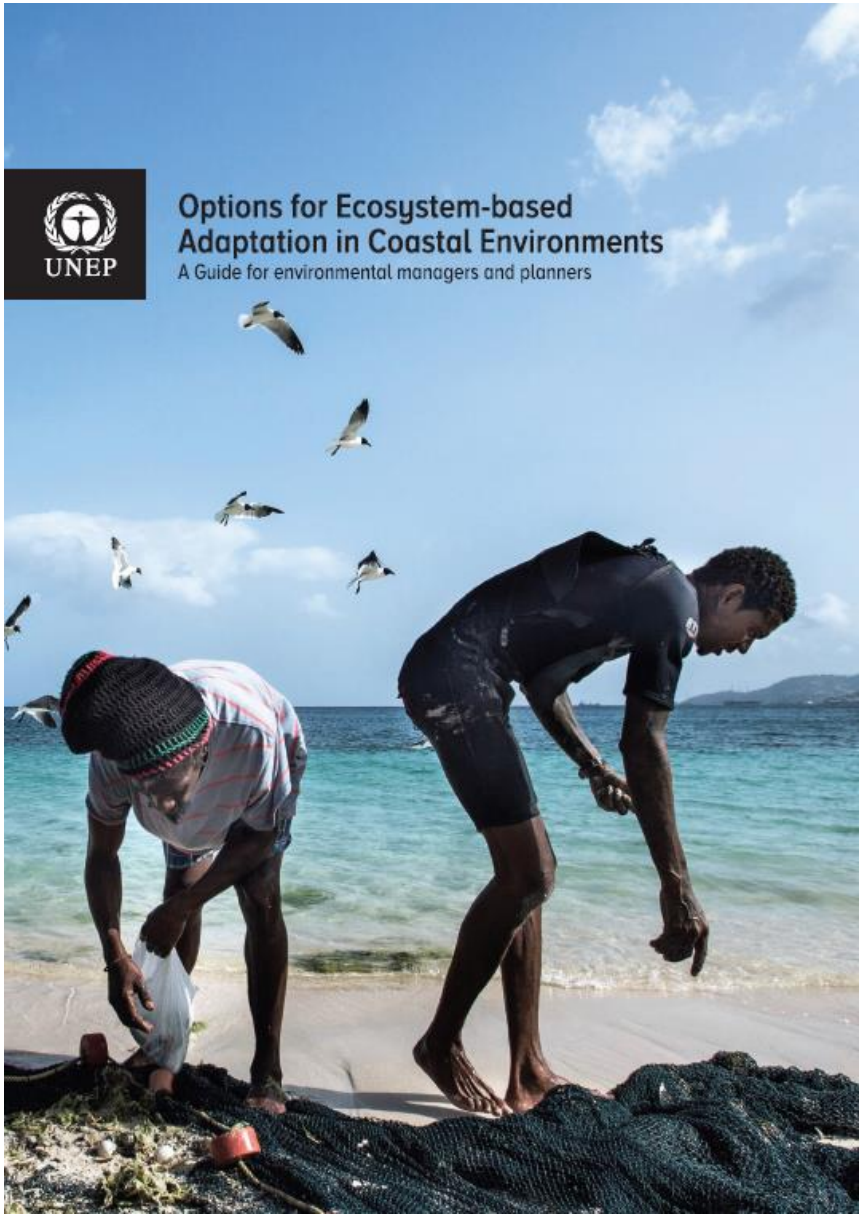
Audience:

- Climate change practitioners interested in holistic adaptation planning and in EbA
- Policy-makers commissioning VIAs
- Ecosystem-based management practitioners integrating climate change into their initiatives

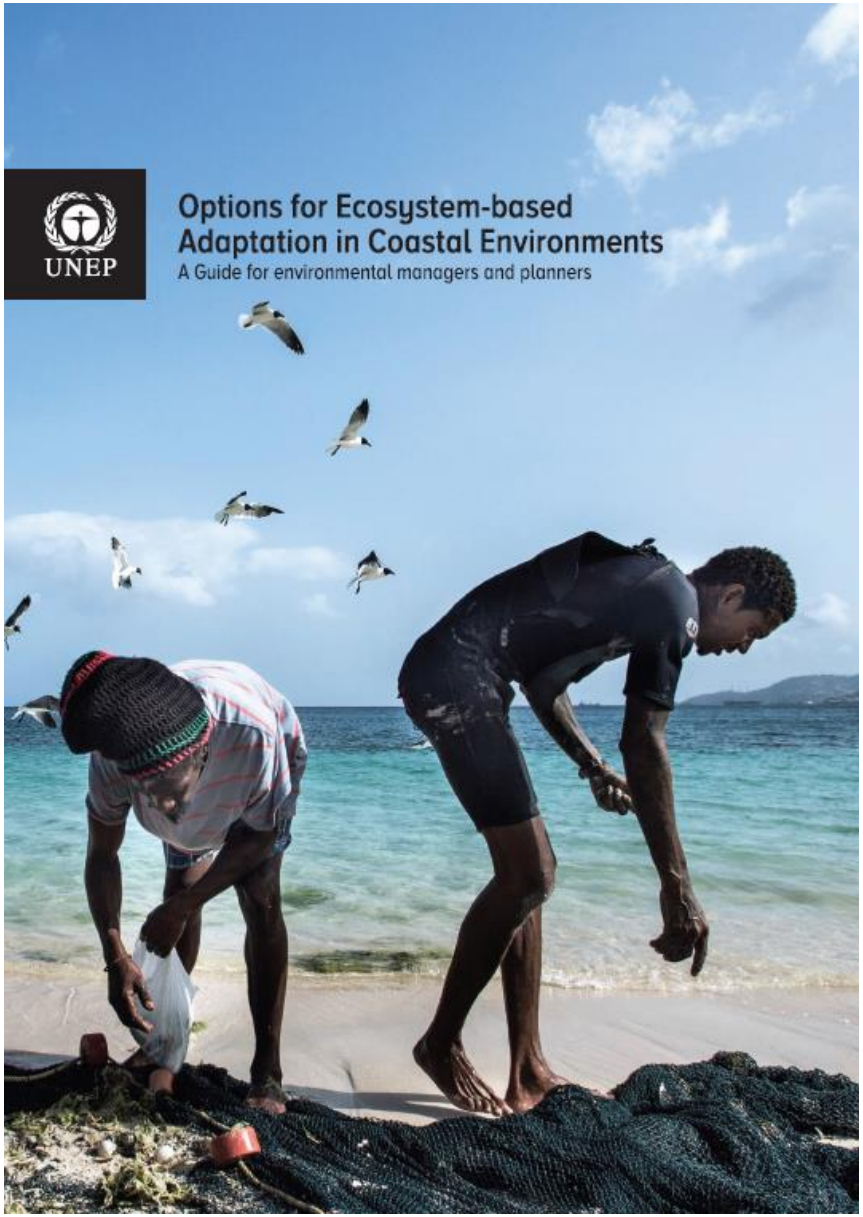
Scale: subnational (e.g. community, watershed or regional level)

Complementing the steps of a 'conventional' vulnerability assessment





Coastal EbA options guide



On-site conservation and restoration

- Mangrove forests
- Coral reefs
- Seagrass beds
- Sand dunes

Area-based planning frameworks

- Marine spatial planning
- Marine Protected Areas

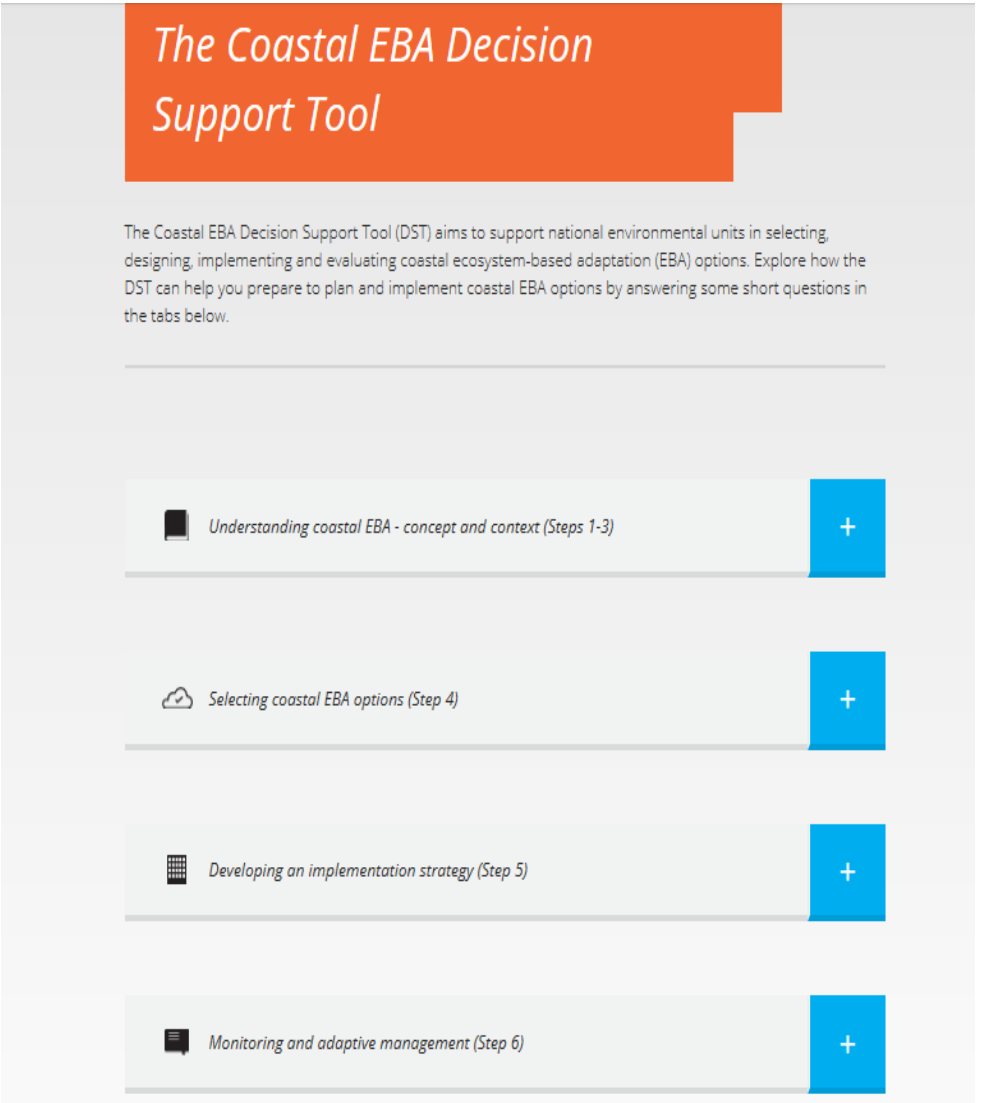
Policies and governance

- Sustainable fisheries management
- Livelihood diversification

Coastal EbA Decision Support Tool

Seven steps for planning and implementing EbA:

1. Understanding EBA
2. Understanding the planning context
3. Understanding the adaptation context
   a. Understanding climate change hazards
   b. Understanding vulnerability
   c. Identifying EBA options
4. Selecting adaptation options
5. Developing an implementation strategy
6. Monitoring and adaptive management
7. Capacity building and mainstreaming



Monitoring and Evaluation for EbA

Learning Brief: GIZ (2017). Monitoring and evaluation – how to measure successes of Ecosystem-based Adaptation

Under development…

Guidebook for Monitoring & Evaluation for EbA

Aim: Provide an overview of the process needed for designing and delivering effective monitoring and evaluation for EbA interventions

Audience: Practitioners and planners who design and implement EbA interventions and who are interested in assessing and understanding the results of their interventions in relation to helping people adapt to climate change

Conclusion

- Nature-based solutions can have great value for national adaptation planning
- They are still under-utilized, in part due to limited awareness and access to information
- However, a significant and growing body of tools and information materials is available and waiting to be used!

QUESTIONS?

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www.unep-wcmc.org

Resources available at:

Pilot EbA Tool Navigator: https://www.iied.org/help-pilot-navigator-tools-for-ecosystem-based-adaptation

Mountain EbA Project outputs, including VIA Guidance: Resilience and Adaptation Planning:

http://www.adaptation-undp.org/projects/mountain-eba

***Coastal EbA Options Guide:* https://web.unep.org/coastal-eba/coastal-EBA-DST**