

PILOT VERSION - October 2018

Ecosystem-based Adaptation Tool Navigator

A searchable database of tools and methods relevant to EbA



Tutorial – How to use the EbA Tools Navigator

Introduction

The Ecosystem-based Adaptation (EbA) Tools Navigator has been developed through a collaboration between two International Climate Initiative (IKI) funded projects: [Ecosystem-based adaptation \(EbA\): Strengthening the Evidence and Informing Policy](#), implemented by IIED, IUCN and UNEP-WCMC; and [Mainstreaming Ecosystem-based adaptation \(EbA\): Strengthening EbA in Planning and Decision Making Processes](#), implemented by GIZ. Both projects aim to show climate change policy-makers and adaptation practitioners when and why EbA is effective – the conditions under which it works, and the benefits, costs and limitations of natural systems approaches – and to promote the better integration of EbA principles into policy and planning.

The EbA Tools Navigator serves two purposes:

- To provide a baseline, by outlining existing tools and their utility, in order to better understand gaps in the current availability and accessibility of tools and methods to support the planning and practice of EbA
- To help EbA planners and practitioners to find and understand tools and methods to support their own efforts in planning and implementing EbA

The Navigator consists of two interdependent parts: i) a database of EbA tools and methodologies; and ii) examples of tool application, to provide information on experiences using EbA tools. It also includes an interface for searching the database and viewing search results.

This tutorial provides guidance on how to search the database and on how users can provide information on their experiences of the various tools included in the database.

I. Overview of the Navigator

About

This tab provides an introduction to the Navigator, how the idea for a Navigator of EbA tools came about, and an overview of its aim and structure.

ABOUT

What is the EbA Tool Navigator?

The Ecosystem-based Adaptation Tool Navigator is a searchable database of tools and methods relevant to ecosystem-based adaptation (EbA). In addition to containing tools and methods specifically designed for EbA, the Navigator content draws on a variety of relevant disciplines, including wider climate change adaptation, biodiversity conservation and human development.

What is the aim of the EbA Tool Navigator?

The Navigator aims to help practitioners, planners, decision-makers and researchers easily find and understand the tools and methods available that can support their work on

How is the EbA Tool Navigator structured?

The EbA Tool Navigator consists of two sections:

- 1) a searchable database of EbA tools and methods, where the user can search for tools based on criteria they select
- 2) user experiences of various tools

1) The database of tools and methods for EbA

About | Instructions | Search Interface | Search Results | Database of Tools for EbA | Examples of Tool F... |

Instructions

This tab provides guidance on how to use the Navigator, including instructions for searching the database and adding tools/methods to the database.

HOW TO USE THE EbA TOOL NAVIGATOR

Please treat this document as a draft – it is not yet ready for further circulation or citation.

The EbA Tool Navigator consists of two interdependent parts: (i) a searchable database of EbA tools and methods, and (ii) examples of tool application, which portray user experiences of various tools from around the world. It also includes interfaces (or worksheets) for searching the database and viewing search results. This guidance explains what information is provided in the database of tools and methods, and provides instructions on how to search and add to this database, and how to provide additional information on user experiences for tools included in the database.

Searching the database

There are two main ways to search the database for tools and methods relevant to your needs. All tools are listed in the 'Database of Tools for EbA' tab. The tools are categorised according to the relevant EbA stages shown below:

Planning	Reviewing and stocktaking of socio-ecological information as well as information on the institutional and regulatory context
Assessment	Analysing climate change scenarios and assessing current and future vulnerabilities
Design	Identifying, selecting and appraising adaptation options
Valuation	Describing, measuring and analysing benefits, costs and impacts arising from EbA approaches
Implementation	Developing a clear, long-term implementation strategy
Monitoring & Evaluation	Developing an M&E system to support adaptive management

About | Instructions | Search Interface | Search Results | Database of Tools for EbA | Examples of Tool / ... (2) |

Search Interface

In this tab, the user can search the database of tools and methods using a range of criteria, from ecosystem type, audience, type of resource, language, or EbA stage.

Search Interface

This tab allows you to search the database of tools and methods by making selections, based certain criteria. Use the drop down lists to select one or multiple criteria, from the ecosystem type you are interested in to the target audience, scale, type of resource and language of the tool. 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, or solely by 'stage of EbA'. Results from your search are displayed in the 'Search Results' tab. (Each new search will replace the results from the previous search).

Criteria	Primary Ecosystem	Target Audience	Scale	Type of Resource	Language	Designed for	Include Generic
Select from drop down lists.	Urban	No filter	No filter	No filter	No filter	No filter	☐
Stage of EbA	EbA Stage						
Check boxes if you wish to see tools specifically supporting that stage of EbA	<input type="checkbox"/> Planning	<input type="checkbox"/> Assessment	<input type="checkbox"/> Design	<input type="checkbox"/> Valuation	<input type="checkbox"/> Implementation	<input type="checkbox"/> M&E	<input type="checkbox"/> Monitoring
Type keyword to search here ->	<input type="text"/>	Expanded Search	Search Database				

x ... | About | Instructions | Search Interface | Search Results | Database of Tools for EbA | Examples of Tool / ... (2) |

Database of Tools for EbA tab

This tab has the complete list of EbA tools and methodologies; for each entry it includes: a brief description of the tool/method and its objectives; which stage of EbA planning or implementation it supports; relevant ecosystems; its target audience; its targeted scale; the type of resource (e.g. modelling tool, manual, guideline); whether it is designed for EbA or for adaptation or conservation more broadly); its language; and information on the time/skills/training required to use it.

Name	Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Website	Description
Community-Based Risk Screening Tool - Adaptation and Livelihoods (CRITAL)		1	1	1	0	0	0	0	0	0	0	0	http://www.undp.org/undp/2017/02/	CRITAL is a project-planning tool to help users identify and prioritize climate livelihood resources most important to climate adaptation and uses these in designing adaptation strategies.
Guidelines for the preparation of National Adaptation Programmes of Action (NAPA)		1	0	0	0	0	0	0	0	0	0	0	http://www.unep.org/adaptation-group_documents/napa_guidelines701.pdf	The NAPA Guidelines provide guidance on the process of compiling a donor priority adaptation actions in least developed countries (LDC); however, the structured framework NAPAs can assist in developing and LDC parties to understand the importance of climate change risk and to enhance adaptive

Examples of Tool Application tab

This tab has information on user experiences of applying the different tools. For each tool, there is information such as country/site of implementation, targeted ecosystem, year of implementation, and details on how the tool/methodology was adapted and used in the context.

Name	Region	Country and period of implementation	Target ecosystem	Year(s) of implementation	Budget	Implementing institution(s)	Why was the tool/methodology chosen?	How was the tool/methodology adapted or modified?
Climate Proofing Development (CPD) (2012-2015) - Guidelines for Integrating Climate Change Adaptation and Project Resilience into the Existing Investment Program (RPP) of the UNFCCC	Asia	Taiwan, Being implemented in Brunei	Forest Ecosystems, Mangroves & Seagrasses	2012-2015	US\$ 20,000,000	International Development Organization - Local Government	Flexible and adaptive. Comprehensive existing framework. Complements existing strategies.	UNFCCC and UNFCCC Climate Proofing Development was adapted to the context of Brunei in cooperation with the Ministry of Natural Resources.
Community-Based Risk Screening Tool - Adaptation and Livelihoods (CRITAL)	Asia	Philippines, Indonesia and the Lao PDR	Forest Ecosystems, Mangroves, Seagrass and Shallow	2012-2015	US\$ 20,000,000	International NGO - Local Government - Community Based Organization	Comprehensive existing framework. Flexible and adaptive. Complements existing strategies. Site-specific. Previous experience.	No
Second Cycle	Asia	Philippines, Indonesia and the Lao PDR	Forest Ecosystems, Mangroves, Seagrass and Shallow	2014-2015	US\$ 20,000,000	International NGO	Cost. Previous experience. Staff resources. Time availability. User feedback. Comprehensive existing framework. Flexible and adaptive. Previous experience.	No
Climate Vulnerability and Capacity Analysis (CVCA) (2012-2015)	Asia	Philippines, Indonesia and the Lao PDR	Forests and Shallow Mangroves	2012-2015	US\$ 20,000,000	International NGO	Comprehensive existing framework. Flexible and adaptive. Previous experience.	UNFCCC in the spirit of understanding the role of ecosystems, goods and services, and their needs.
Community-based (CB)	Asia	Philippines	Mangroves	2012	US\$ 1,000,000	International NGO	Flexible and adaptive.	No
Integrated and Gender Responsive (IGR) - Tailor-Made (2012-2015)	Asia	Philippines	Forests and Shallow Mangroves	2012-2015	US\$ 20,000,000	Local NGO - Community Based Organization - National Government - Local Government - Community Based Organization	Comprehensive existing framework. Flexible and adaptive. User feedback. Time availability. Previous experience.	No
Planning and Investment (PI) (2012-2015)	Asia	Philippines, Lao PDR	Forests and Shallow Mangroves	2012-2015	US\$ 20,000,000	Local Government - Community Based Organization	Comprehensive existing framework. Flexible and adaptive. Previous experience.	No
ICC Technical Guidelines for	Asia	Philippines	Forests and Shallow Mangroves	2012	US\$ 1,000,000	Community	Flexible and adaptive.	No

II. Searching the database - using the Search Interface

The Search Interface is provided on the fourth tab of the Navigator excel sheet. It allows you to search the database by making one or a series of selections to extract information on particular types of tools and methods. For example, you can select an ecosystem type, a stage of EbA or a scale of implementation, or combinations of these. The tools and methods from the database that meet your selection criteria will then be displayed in the **Search Results** tab, which opens automatically after running a search.

1. To use this function, go to the **Search Interface** tab.

Search Interface

This tab allows you to search the database of tools and methods by making selections, based certain criteria. Use the drop down lists to select one or multiple criteria, from the ecosystem type you are interested in to the target audience, scale, type of resource and language of the tool. 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, or solely by 'stage of EbA'. Results from your search are displayed in the 'Search Results' tab. (Each new search will replace the results from the previous search).

Criteria	Primary Ecosystem	Target Audience	Scale	Type of Resource	Language	Designed for	Include Generic
Select from drop down lists.	Urban	No filter	No filter	No filter	No filter	No filter	<input type="checkbox"/>

Stage of EbA	EbA Stage						
Check boxes if you wish to see tools specifically supporting that stage of EbA	<input type="checkbox"/> Planning	<input type="checkbox"/> Assessment	<input type="checkbox"/> Design	<input type="checkbox"/> Solution	<input type="checkbox"/> Implementation	<input type="checkbox"/> M & E	<input type="checkbox"/> Monitoring

Type keyword to search here->

Navigation: About | Instructions | **Search Interface** | Search Results | Database of Tools for EbA | Examples of Tool / ...

2. **Dropdown lists** are provided for different criteria (Primary Ecosystem, Target Audience, Scale, Type of Resource, Language, and Tool design). To select a particular type of tool or method, click on the relevant cell, and then click on the arrow on the right hand side. This will display the list of options available.

For example, you could select tools relevant to 'Marine and coastal ecosystems', targeted at the 'local/site level' scale, and designed 'for EbA'.

Search Interface

This tab allows you to search the database of tools and methods by making selections, based certain criteria. Use the drop down lists to select one or multiple criteria, from the ecosystem type you are interested in to the target audience, scale, type of resource and language of the tool. 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, or solely by 'stage of EbA'. Results from your search are displayed in the 'Search Results' tab. (Each new search will replace the results from the previous search).

Criteria	Primary Ecosystem	Target Audience	Scale	Type of Resource	Language	Designed for	Include Generic
Select from drop down lists.	Marine and Coastal	No filter	Local/ Site-level	No filter	No filter	No filter	<input type="checkbox"/>

Stage of EbA	EbA Stage						
Check boxes if you wish to see tools specifically supporting that stage of EbA	<input type="checkbox"/> Planning	<input type="checkbox"/> Assessment	<input type="checkbox"/> Design	<input type="checkbox"/> Solution	<input type="checkbox"/> Implementation	<input type="checkbox"/> M & E	<input type="checkbox"/> Monitoring

Type keyword to search here->

Note: An arrow points to the dropdown menu for 'Designed for', which shows options: 'EbA', 'Other', and 'No filter'.

Note: When searching for a tool/ method according to **Primary Ecosystem**, please refer to the ecosystem definitions below.

Agriculture land – includes areas of arable land, permanent crops and permanent pastures.

Dryland and deserts – areas characterized by limited soil moisture, low rainfall and high evaporation.

Forests – areas spanning more than 0.5 hectares with trees higher than 5 meters and a canopy cover of more than 10 percent

Woodlands – areas spanning more than 0.5 hectares; with trees higher than 5 meters and a canopy cover of 5-10 percent; or with a combined cover of shrubs, bushes and trees above 10 percent

Inland waters – aquatic-influenced areas located within land boundaries, including major rivers, lakes and water reservoirs.

Marine ecosystems – areas beginning at the low-water mark and encompassing the high seas and deep-water habitats.

Coastal ecosystems – areas bounded inland by land-based influences within 100 kilometres or 100-meters elevation and seaward by the 50-meter depth contour.

Mountains – areas defined by elevation above sea level (between 300-1000 meters) and steepness of slope (at least 2° over 25 kilometres, on the 30 arc-second grid).

Rangelands and grasslands – areas covered by vegetation dominated by grasses, with little or no tree cover.

Urban – areas of agglomerations of people and their activities.

Sources:

Millennium Ecosystem Assessment (Program) (2005). Ecosystems and human well-being. Washington, D.C: Island Press.
 FAO (2015). Global Forest Resources Assessment 2015. UN Food and Agriculture Organization, Rome.

3. If you wish for no criteria from one or more dropdown lists to be considered, make sure **No filter** is selected.

Criteria
 Select from drop down lists.

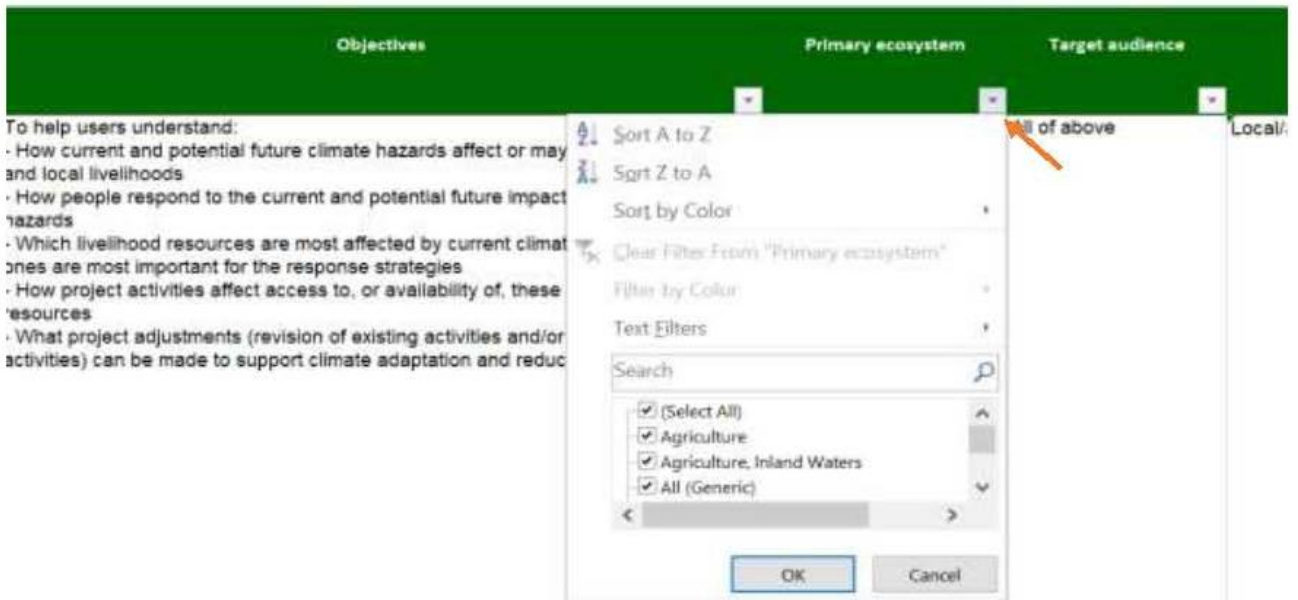
Primary Ecosystem	Target Audience	Scale	Type of Resource	Language	Designed for	Include Generic
Marine and Coastal	No filter	Local/Site-level	No filter	No filter	EbA	<input type="checkbox"/>

Stage of EbA
 Check boxes if you wish to see tools specifically supporting that stage of EbA.

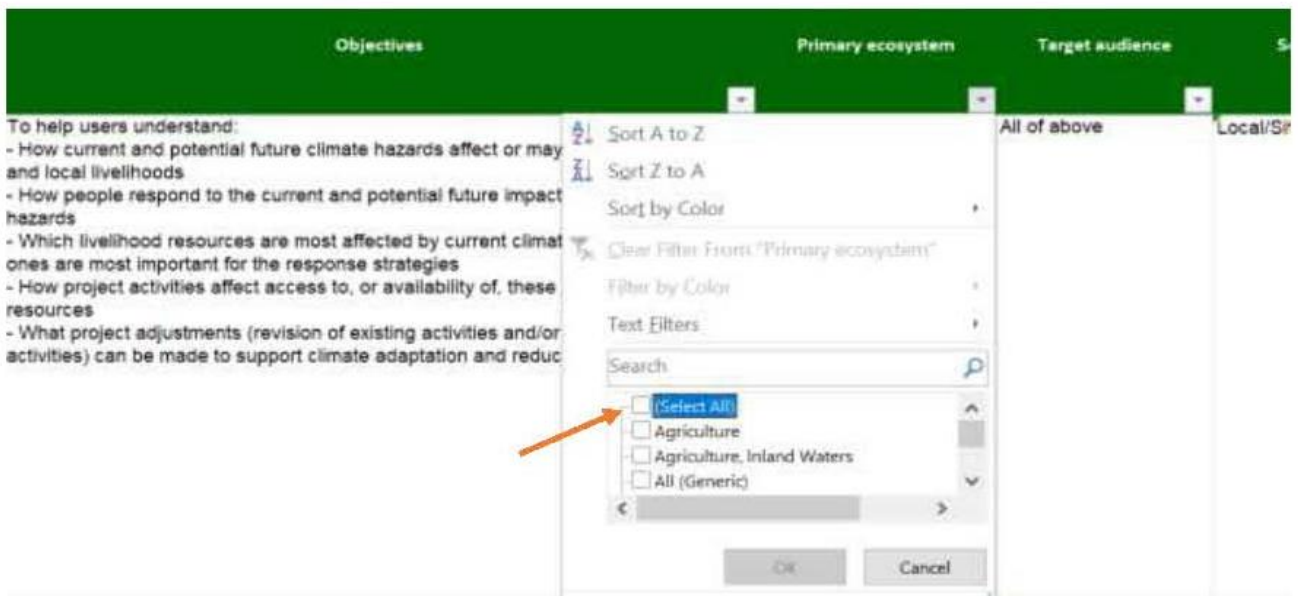
EbA Stage						
<input type="checkbox"/> Planning	<input checked="" type="checkbox"/> All of them	<input type="checkbox"/> Design	<input type="checkbox"/> Monitor	<input type="checkbox"/> Implementation	<input type="checkbox"/> M&E	<input type="checkbox"/> Transitioning

Type keyword to search here->

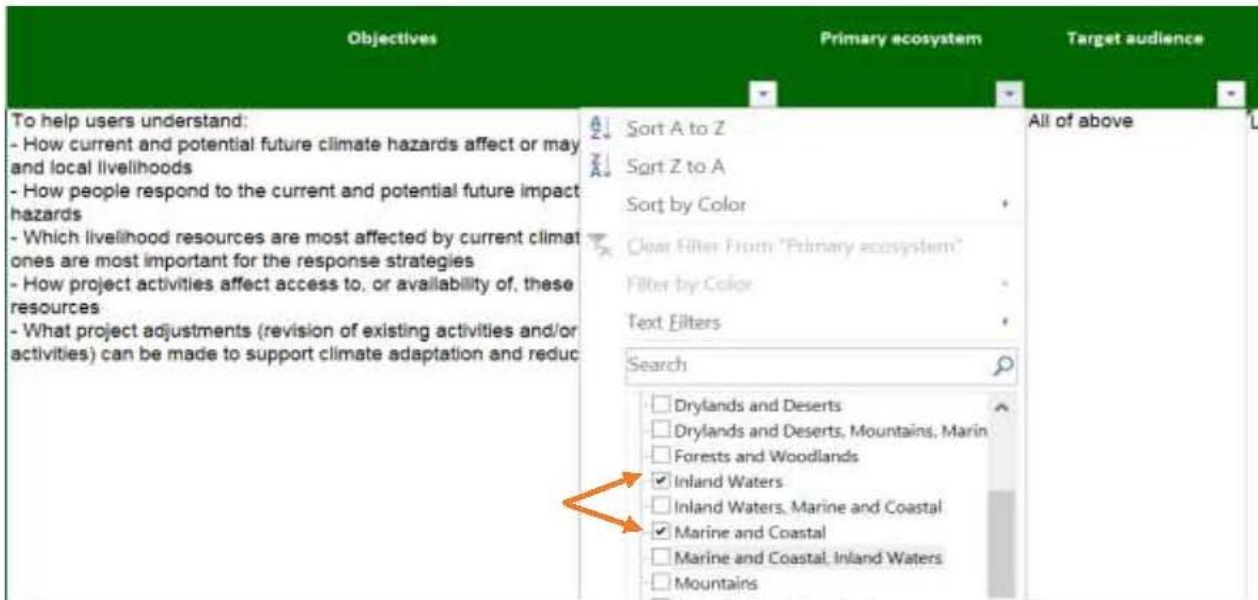
4. To make a selection according to one or more **EbA stages**, check boxes are provided. Tick each box if you wish to see tools specifically supporting a stage of EbA. If you do not wish to select a specific EbA stage, make sure the box in **unticked**.



1. Untick **Select All**.



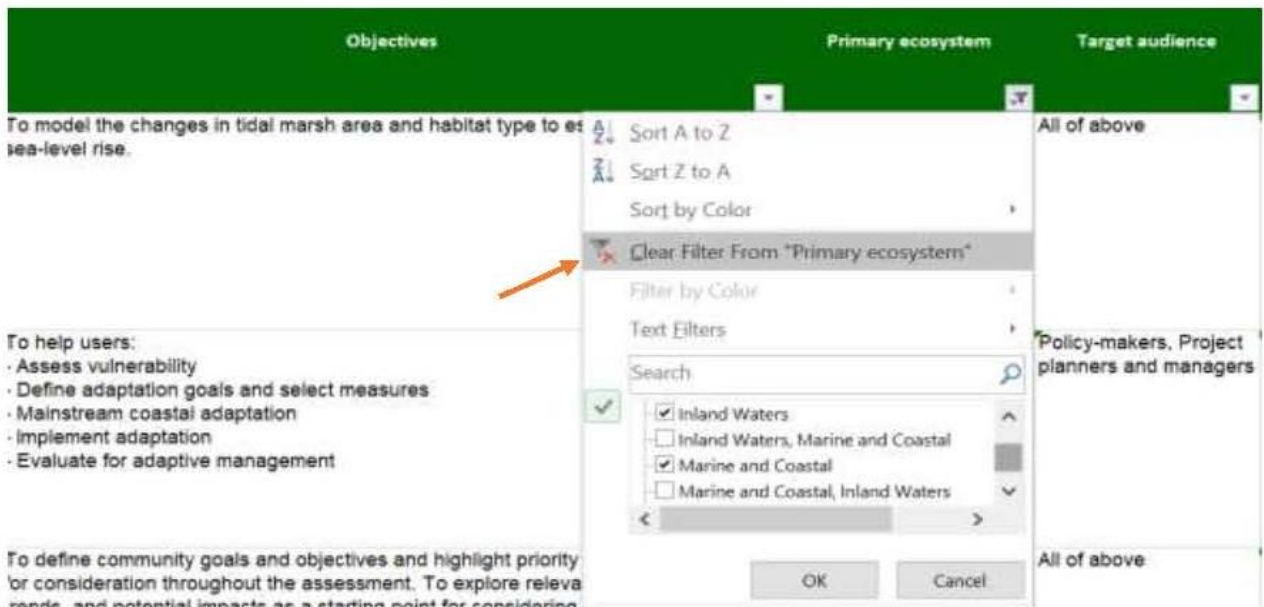
2. Select the ecosystem type (or types) you would like to see. For example, you could select 'Marine and Coastal' plus 'Inland Waters'.



3. Select **OK**.

4. The database will then only present tools relevant for Marine and Coastal or Inland Waters ecosystems.

5. To remove the previous selection and perform a new search, click **Clear Filter**.



To search for tools related to a **specific stage of EbA**, those tools and methods that are identified as relevant to an EbA stage have been tagged with '1', and those not relevant are tagged with '0'.

Name	Year	EbA Stage							
		Planning	Assessment	Design	Valuation	Implementation	M & E	Maintaining	
Climate Resilience Evaluation for Adaptation through Empowerment (CREATE) (IUCN)		1	1	1	0	0	0	0	
Toolkit for Planning, Monitoring and Evaluation of the Capacity to Adapt to Climate Change (TOP-ECAC) (IUCN, PACO, GHRYMET)	2011	1	1	1	0	1	1	0	
Technical Guidelines for the National Adaptation Plan (NAP) process	2012	1	1	1	0	1	1	1	

1. To select tools relevant to an EbA stage, click on the relevant cell, and then click on the arrow on the right hand side.
2. Ensure that the tickbox for '1' is selected for the stage(s) in which you are interested. Multiple filters can be used if you are interested in more than one EbA stage.

3. Select OK.
4. The database will then only present tools relevant for the selected EbA stages.
5. To remove the previous selection and do a new search, click **Clear Filter**.

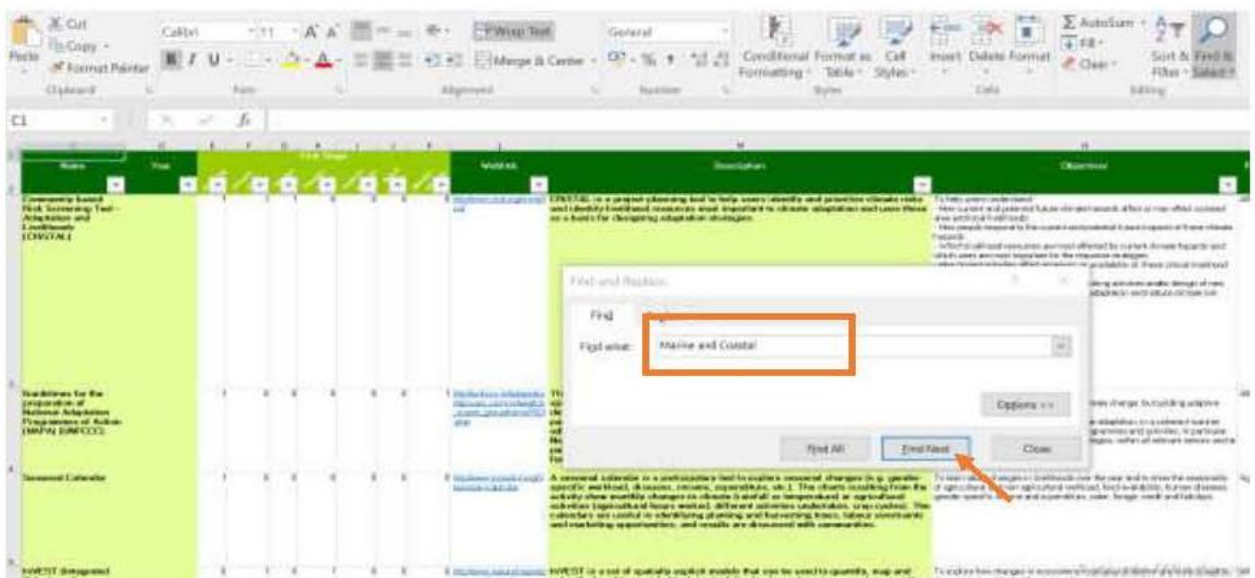
Finally, you can also search the database by keyword, using the **Find & Select** option.

1. Click **Find & Select**.



2. Type the keyword you would like to search in the database (for example a specific ecosystem type, an organisation or a type of application).

3. Click **Find Next**. The database will then guide you through the cells containing the typed keyword.



IV. Using the Tool Application sheet

Information collected so far on user experiences with particular tools and approaches has been included in the tab **Examples of Tool Application**.

Name	Region	Country and project site of implementation	Target ecosystem	Year(s) of implementation	Budget	Implementing institution(s)	Why was the tool/methodology chosen?	Was the tool/methodology selected prior to or during selection?
Climate Proofing for Development (CP4Dev) (2012-2015). Evidence on Integrating Ecosystem Considerations into Climate Change Vulnerability and Impact Assessment to Inform Ecosystem-based Adaptation (UNEP-ICMAE 2015)	Africa	Tanzania, Botswana, Togo & Kyrgyzstan, Al Bahr	Forest & Woodlands, Mangroves & Grasslands	2015	50 000 to 250 000 USD	International Government, Local Government	Flexible and adaptive. Complements existing Networks, Complements existing technologies	Yes
Community-based Risk Screening Tool - Adaptation and Livelihoods (CRISTAL)	Africa	36 Diga, Karamoja and the Arusa catchment	Forest & Woodlands, Mountains, Drylands and Deserts	2014 - 2015	50 000 to 250 000 USD	International NGO	Complements existing Networks, Flexible and adaptive	No
Resilient Calendar	Africa	36 Diga, Karamoja and the Arusa catchment	Agriculture, Drylands and Deserts	2014 - 2015	200 More than 250 000 USD	National NGO, Local NGO, Local Government, Community Based Organisation	Complements existing Networks, Data requirements, Flexible experience	No

Name	Year	EBA Stage						
		Planning	Assessment	Design	Validation	Implementation	M & I	Maintenance
New Tool	2018	1	0	1				

2. Add **Weblink**, **Description** and **Objectives**. To do this, simply add the information directly to the cell in the relevant column. Please complete information in these columns.

3. Add information on **Primary Ecosystem**, **Target audience**, **Scale**, **Type of resource**, **Access**, **Tool design purposes**, **Language**, and whether the tool is **Region or Country specific**. Dropdown lists are provided for these data fields. Click on the relevant column/cell and then click on the arrow on the right hand side of that cell. This will display the list of options available. Multiple options can be selected. If you have selected an option in error, you can remove it by clicking on that option again, which will delete it from the cell. If you select the 'other please specify' option or have comments on your selection, use the **Additional comments** column (column 'Y') to capture the necessary information. Please complete information in these columns

Primary ecosystem	Target audience	Scale	Type of resource	Time/Resources required
Agriculture	Policy-makers	National	<ul style="list-style-type: none"> Information Source Guidance Step-by-step guide/manual Desktop application GIS application Spreadsheet application Web-based application Ecological Modeling Tool 	

4. Add information on **Time/resources** and **Skills/training** required. To do this, simply add the information directly to the cell in the relevant column. Please complete information in these columns.

Time/Resources required	Skills/Training required
No additional resources required	Some understanding of climate change, ecosystems and biodiversity is needed.

5. Always remember to save the data you have added to the file.

6. Please email your completed entry to charlotte.hicks@unep-wcmc.org and CCB@unep-wcmc.org