



ACCELERATING CLIMATE
AMBITION AND IMPACT:
Toolkit for Mainstreaming Nature-
Based Solutions into Nationally
Determined Contributions

Acknowledgements

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The challenge

At the COP21 in Paris, UNFCCC Parties committed to intensify the global response to climate change through the adoption of the Paris Agreement. The agreement aims to hold the increase in global temperature to well below 2°C above pre-industrial levels, and improve the adaptation capacity to climate change and facilitate finance for such goals. In 2018, UNEP's Emissions Gap Report showed that to succeed in meeting the 2°C degrees target, the current Nationally Determined Contributions (NDCs) emission reductions need to be tripled, while holding global warming below 1.5°C would require existing commitments to be increased by fivefold.¹

The opportunity

The UNFCCC invites authorities to include actions in all sector of the economy in their NDCs targets. One sector that is currently underrepresented in the NDCs is nature-based solutions (NBS). Within the Agriculture, Forestry and Other Land Use (AFOLU) category, NBS comprise the protection, restoration and sustainable use of forests, grasslands, mangroves, wetlands and other ecosystems. NBS alone can deliver at least a third of the cost-effective CO₂ mitigation needed through 2030. Incorporating more and better NBS targets in countries' NDCs represents an invaluable opportunity to meet the global goal of keeping global temperature below 2°C.

Target audience and objective

This toolkit is intended to provide support to national governments in the process of including nature-based solutions in their National Determined Contributions. The tools collected in this document offer key information, methodologies and guidance for national authorities related to climate change, environmental management, forests, other land use sectors, as well as other sectors related to the NDCs. This toolkit also provides information relevant for sub-national governments seeking to align their commitments and actions with the NDCs.

The inclusion of tools considered in this toolkit does not imply endorsement of one approach over another.

¹ UNEP. 2018. Emissions Gap Report 2018. Nairobi: UNEP.

List of Tools

1. Adaptation Knowledge Portal (UNFCCC)
2. Adaptation Support Tool (ADAPT)
3. Agriculture and Land Use National Greenhouse Gas Inventory Software (USAID)
4. Agriculture, Forestry and Other Land Use Carbon Calculator (USAID)
5. Assessment of Capacities to Implement Policy Outcomes of Investment & Financial Flows Assessment for Key Sectors (UNDP)
6. Biennial Update Report submissions from Non-Annex I Parties (IPCC)
7. Blending Climate Finance Through National Climate Funds: A Guidebook for the Design and Establishment of National Funds to Achieve Climate Change Priorities (UNDP)
8. Bonn Challenge Commitments
9. Caribbean Climate Change Tools (Nature4Climate)
10. CCAFS Mitigation Options Tool (USAID, CGIAR, CIAT, CCAFS, University of Aberdeen, University of Vermont)
11. Climate Action Tracker (NewClimate Institute)
12. Climate Change and Land (IPCC)
13. Climate Data Explorer (WRI)
14. Climate Finance Training for Sector Experts (CliFiT4SE) (GIZ/adelphi)
15. Climate Initiatives Platform (UNEP)
16. Climate Investment Funds Knowledge Center (CIF)
17. Climate Smart Planning Platform (World Bank)
18. ClimateLinks (USAID)
19. Coastal Capital: Ecosystem Valuation for Decision Making in the Caribbean (WRI)
20. Coastal Resilience (TNC)
21. Compilation and Synthesis Reports of Parties included in Annex I to the Convention (IPCC)
22. Country's Actions in their NDCs (NDC Partnership)
23. Country's Context (NDC Partnership)
24. Drivers of Emissions in Agriculture (NDC Partnership)
25. Drought Stress Testing Tool (GIZ/UNEPFI/GCP)
26. e-Learning Platform of the United Nations Statistics Division (UNSD)
27. ENCORE (Exploring Natural Capital Opportunities, Risks and Exposure) (NCFA/UNEP/SECO)
28. Enhancing National Determined Contributions Through Protected Areas (WWF)
29. Evidence Map (University of Oxford)
30. Ex-Ante Carbon-Balance Tool (EX-ACT) (FAO)
31. FAOSTAT (FAO)
32. Financing Solutions for Sustainable Development: Payment for Ecosystem Services (UNDP)
33. GEF Country Profiles (GEF)
34. GEF Knowledge and Learning Projects (GEF)
35. GGGI Library of Publication & Graphics (GGGI)
36. Global Alliance for Climate-Smart Agriculture (FAO)
37. Global Database on Sustainable Land Management (WOCAT)
38. Global Forest Resources Assessments (FAO)
39. Global Forest Watch Climate Map (GFW)
40. Global Forest Watch Map (GFW)
41. Global Information and Early Warning System on Food and Agriculture (FAO)
42. Global Livestock Environmental Assessment Model (FAO)
43. Global Support Programme (UNEP, UNDP, GEF)

44. Good Practice Database (NDC Partnership)
45. Good Practice Guidance for Land Use, Land-Use Change and Forestry (IPCC)
46. Green Finance for Latin America and the Caribbean Platform (GFL)
47. Green Growth Knowledge Platform (OECD/World Bank/UNEP)
48. Growing Better: Ten Critical Transitions to Transform Food and Land Use (FOLU)
49. Guide to Including Nature in Nationally Determined Contributions (N4C, CI, TNC, EDF, NWF, LUKI, Climate Advisers)
50. Handbook for Integrated Water Resources Management in Basins (GWP)
51. Increasing ambition & action on NDCs through FLR (IUCN)
52. Informea (UNEP)
53. Initiative for Climate Action Transparency Guidance on Agriculture (ICAT)
54. Initiative for Climate Action Transparency Guidance on Forests (ICAT)
55. InVEST - Integrated Valuation of Ecosystem, Services and Tradeoffs (Stanford University)
56. Knowledge Navigator (IDS Knowledge Services, CDKN)
57. Land-use Finance Toolbox (EU REDD Facility / CPI)
58. Learning Tool on Nationally Appropriate Mitigation Actions (NAMAs) in Agriculture, Forestry, and Other Land-use Sectors (FAO)
59. Livestock Environmental Assessment and Performance (LEAP) Partnership (FAO)
60. Mapping land management, degradation and conservation including driver, state and impacts (WOCAT)
61. Mapping Ocean Health Explorer (TNC)
62. Mapping Ocean Wealth Explorer (TNC)
63. Mapping to support REDD+ planning and secure multiple benefits: toolbox and tutorials for QGIS and ArcGIS (UNEP)
64. NAP Central (UNFCCC)
65. NAP Global Network (IISD)
66. National Biodiversity Strategies and Action Plans (CBD)
67. National Communication submissions from Non-Annex I Parties (IPCC)
68. National REDD+ Strategies and Actions (UNFCCC)
69. Natural Capital Toolkit (Shift)
70. Natural Climate Solutions - Research paper (Griscom et. al. 2017)
71. Natural Climate Solutions US State Mapper (Nature4Climate)
72. Natural Climate Solutions World Atlas (Nature4Climate)
73. Natural Pathways to Climate Mitigation (Nature4Climate)
74. Natural Solutions Toolkit (TNC)
75. Naturally Resilient Communities (TNC)
76. Nature Based Solutions in Action (UNEP)
77. Nature Based Solutions Policy Platform (University of Oxford-IIED)
78. Nature-Based Solutions Policy Data Platform (University of Oxford-IIED)
79. NBS Bibliography (University of Oxford)
80. NDC Official Documents (UNFCCC)
81. NDC Support Cluster Toolbox (BMU)
82. NDC-SDG Connections Database (DIE/SEI)
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84. NDCs – A source for Nature (WWF)
85. OECD Green Growth Indicators Database 2017 (OECD)
86. Open Foris (FAO)

87. Outreach into sectors: Integrating ecosystem-based approaches to climate change adaptation and disaster risk reduction (Secretariat of the Convention on Biological Diversity)
88. PANORAMA: Solutions for a Healthy Planet (GIZ/IUCN/UNEP/Rare +others)
89. Partnership on Transparency in the Paris Agreement (Partnership on Transparency)
90. Pathway for Increasing Nature-Based Solutions in the NDCS: A Seven-Step Approach for Enhancing Nationally Determine Contributions through Nature-Based Solutions (UNDP)
91. Planting Healthy Air (TNC)
92. Policy and Action Standard (WRI)
93. Primer for policymakers and voluntary guidelines for the design and effective implementation of ecosystem-based approaches to climate change adaptation and disaster risk reduction (Secretariat of the Convention on Biological Diversity)
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112. Water Funds Toolbox (TNC)
113. weADAPT (SEI)
114. World Bank Open Data (World Bank Group)

How to use this toolkit

The document "[Pathway for Increasing Nature-Based Solutions in the NDCS: A Seven-Step Approach for Enhancing Nationally Determined Contributions through Nature-Based Solutions](#)" provides a concise summary of specific actions to consider when including NBS in the NDCs. This methodology is organized in seven steps or stages. Most of the tools collected in this toolkit can potentially contribute to at least one, if not more, to each of the following steps:

Step 1 – Establish an understanding of the national greenhouse gas accounting context

This step aims at creating a comprehensive understanding of the current context of greenhouse gas emissions by sources and removals by sinks as an essential exercise for countries NDCs.

Step 2 – Identify and review existing nature-based actions in national legal and institutional frameworks

This step implies the identification of Nature-Based Solutions already in place as part of the country's plans, policies, strategies, targets and commitments. The idea behind compiling existing NBS actions is not only to make it evident to policymakers, but also to showcase the potential "low hanging fruits" available to countries to enhance their NDCs.

Step 3 – Identify and review nature-based actions in the current NDC

This step entails a review of the current nature-based actions present in the country's NDC or the enhanced NDC proposal, if under development.

Step 4 – Develop a rapid analysis for estimating the climate change mitigation and adaptation potential of the existing nature-based actions

The objective of this step is to quantify the various paths that the country can follow. By using the information from Step 1, countries should assess the climate change mitigation and adaptation potential of their existing nature-based actions in national legal and institutional frameworks (collected in step 2) and in their proposed NDCs (identified in step 3).

Step 5 – Crosswalk nature-based solution pathways with existing measurable nature-based actions and identify opportunities for enhancing NDCs using spatial data

This step compares the existing nature-based proposed actions with the NBS potential pathways to identify if further nature-based opportunities could be captured within the country's NDC.

Step 6 – Integrate measurable nature-based actions into the NDC

This step focuses on setting quantifiable indicators, crucial for tracking progress toward achieving the NDC goals. Ideally, all NBS should have at least one measurable indicator.

Step 7 – Improve or create the enabling conditions to support implementation of NBS integrated into the NDC

This step entails identification of the main enabling conditions needed to support NBS enhancement or integration into the NDC.

TOOLS FOR ENHANCING NATIONALLY DETERMINED CONTRIBUTIONS WITH NATURE-BASED SOLUTIONS

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2	Adaptation Support Tool (ADAPT)					*		
3	Agriculture and Land Use National Greenhouse Gas Inventory Software (USAID)				*			
4	Agriculture, Forestry and Other Land Use Carbon Calculator (USAID)				*			
5	Assessment of Capacities to Implement Policy Outcomes of Investment & Financial Flows Assessment for Key Sectors (UNDP)						*	
6	Biennial Update Report submissions from Non-Annex I Parties (IPCC)	*						
7	Blending Climate Finance Through National Climate Funds: A Guidebook for the Design and Establishment of National Funds to Achieve Climate Change Priorities (UNDP)						*	
8	Bonn Challenge Commitments		*					
9	Caribbean Climate Change Tools (Nature4Climate)				*	*		
10	CCAFS Mitigation Options Tool (USAID + others)	*						
11	Climate Action Tracker (NewClimate Institute)			*				
12	Climate Change and Land (IPCC)				*	*		

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13	Climate Data Explorer (WRI)						*	
14	Climate Finance Training for Sector Experts (CliFiT4SE) (GIZ/adelphi)						*	
16	Climate Investment Funds Knowledge Center (CIF)						*	
17	Climate Smart Planning Platform (World Bank)				*			
18	ClimateLinks (USAID)	*			*			
19	Coastal Capital: Ecosystem Valuation for Decision Making in the Caribbean (WRI)				*	*		
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21	Compilation and Synthesis Reports of Parties included in Annex I to the Convention (IPCC)	*						
22	Country's Actions in their NDCs (NDC Partnership)		*	*				
23	Country's Context (NDC Partnership)	*		*				
24	Drivers of Emissions in Agriculture (NDC Partnership)	*						
25	Drought Stress Testing Tool (GIZ/UNEPFI/GCP)						*	

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27	ENCORE (Exploring Natural Capital Opportunities, Risks and Exposure) (NCFA/UNEP/SECO)				*
28	Enhancing National Determined Contributions Through Protected Areas (WWF)	*	*		*
29	Evidence Map (University of Oxford)		*	*	
30	Ex-Ante Carbon-Balance Tool (EX-ACT) (FAO)		*		
31	FAOSTAT (FAO)			*	
32	Financing Solutions for Sustainable Development: Payment for Ecosystem Services (UNDP)				*
33	GEF Country Profiles (GEF)	*		*	
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39	Global Forest Watch Climate Map (GFW)			*	*

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41	Global Information and Early Warning System on Food and Agriculture (FAO)				*		*	
42	Global Livestock Environmental Assessment Model (FAO)				*			
44	Good Practice Database (NDC Partnership)	*					*	*
45	Good Practice Guidance for Land Use, Land-Use Change and Forestry (IPCC)		x					
46	Green Finance for Latin America and the Caribbean Platform (GFL)						*	
47	Green Growth Knowledge Platform (OECD/World Bank/UNEP)						*	
48	Growing Better: Ten Critical Transitions to Transform Food and Land Use (FOLU)				*	*	*	
49	Guide to Including Nature in Nationally Determined Contributions (N4C, CI, TNC, EDF, NWF, LUKI, Climate Advisers)	*		*			*	*
50	Handbook for Integrated Water Resources Management in Basins (GWP)						*	
51	Increasing ambition & action on NDCs through FLR (IUCN)	*		*	*		*	

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53	Initiative for Climate Action Transparency Guidance on Agriculture (ICAT)		*					
54	Initiative for Climate Action Transparency Guidance on Forests (ICAT)		*					
55	InVEST - Integrated Valuation of Ecosystem, Services and Tradeoffs (Stanford University)			*	*	*		*
57	Land-use Finance Toolbox (EU REDD Facility / CPI)						*	*
58	Learning Tool on Nationally Appropriate Mitigation Actions (NAMAs) in Agriculture, Forestry, and Other Land-use Sectors (FAO)						*	
59	Livestock Environmental Assessment and Performance (LEAP) Partnership (FAO)			*				
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67	National Communication submissions from Non-Annex I Parties (IPCC)	*						
68	National REDD+ Strategies and Actions (UNFCCC)		*					
69	Natural Capital Toolkit (Shift)			*	*			*
70	Natural Climate Solutions - Research paper (Griscom et. al. 2017)	*	*	*	*			
72	Natural Climate Solutions World Atlas (Nature4Climate)	*	*	*	*			
73	Natural Pathways to Climate Mitigation (Nature4Climate)	*	*	*	*			
74	Natural Solutions Toolkit (TNC)			*	*			
76	Nature Based Solutions in Action (UNEP)			*	*			*

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79	NBS Bibliography (University of Oxford)			*	*			
80	NDC Official Documents (UNFCCC)	*		*				
81	NDC Support Cluster Toolbox (BMU)	*					*	
82	NDC-SDG Connections Database (DIE/SEI)			*	*			
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84	NDCs – A source for Nature (WWF)			*				
86	Open Foris (FAO)				*	*		
87	Outreach into sectors: Integrating ecosystem-based approaches to climate change adaptation and disaster risk reduction (SCBD)						*	
89	Partnership on Transparency in the Paris Agreement (Partnership on Transparency)				*		*	
91	Planting Healthy Air (TNC)				*		*	
92	Policy and Action Standard (WRI)			*				

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95	Readiness for Climate Finance (UNDP)							*
96	Resilience Atlas (CI)						*	*
97	Resource Watch (WRI)						*	*
98	Review Reports of National Communications and Biennial Reports (IPCC)	*						
99	SDG Climate Action Nexus tool (SCAN-tool) (GIZ/NCI)						*	
100	SERVIR Global (NASA-USAID)						*	*
101	Specialized Datasets (IDB)	*					*	
102	Synthesis Report on Experiences with Ecosystem-Based Approaches to Climate Change Adaptation and Disaster Risk Reduction (SCBD)							*
103	System of Environmental-Economic Accounting (UN)						*	*

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106	The Water Risk Filter (WWF)			*	*			
107	Think Hazard (GFDRR)					*	*	
108	Toolkit to Enhance Access to Adaptation Finance (OECD)							*
109	United Nations Biodiversity Lab (UNDP-UNEP)				*			
110	Urban Water Blueprint (TNC)					*	*	
111	Voluntary LDN Targets (UNCCD)	*						
112	Water Funds Toolbox (TNC)						*	
113	weADAPT (SEI)					*	*	
114	World Bank Open Data (World Bank Group)	*				*	*	

OTHER TOOLS

Other tools included in this toolkit provide overview information and approaches that apply across all of the steps include the following tools:

- 15. Climate Initiatives Platform (UNEP)
- 34. GEF Knowledge and Learning Projects (GEF)
- 35. GGGI Library of Publication & Graphics (GGGI)
- 36. Global Alliance for Climate-Smart Agriculture (FAO)
- 43. Global Support Programme (UNEP, UNDP, GEF)
- 56. Knowledge Navigator (IDS Knowledge Services, CDKN)
- 71. Natural Climate Solutions US State Mapper (Nature4Climate)
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- 85. OECD Green Growth Indicators Database 2017 (OECD)
- 88. PANORAMA: Solutions for a Healthy Planet (GIZ/IUCN/UNEP/Rare +others)

1. Adaptation Knowledge Portal

Type of tool: Knowledge platform

Organization: UNFCCC

Description: The Adaptation Knowledge Portal builds on the worldwide contributions of policy-makers, practitioners and researchers to offer first-hand information and actionable knowledge on climate change adaptation. On the portal, you will find: Adaptation case studies; methods and tools; other knowledge resources including relevant publications, technical documents, training material and online portals.

Website: <https://www4.unfccc.int/sites/nwpstaging/Pages/Home.aspx>



2. Adaptation Support Tool

Type of tool: Guidance documents

Organization: The European Climate Adaptation Platform Climate-ADAPT

Description: The aim of the Adaptation Support Tool is to assist users in developing climate change adaptation strategies and plans by providing guidance, links to relevant sources and dedicated tools.

Website: <https://climate-adapt.eea.europa.eu/knowledge/tools/adaptation-support-tool>

The screenshot shows the Climate-ADAPT website interface. At the top, there is a navigation bar with links for 'ABOUT', 'EU POLICY', 'COUNTRIES, TRANSNATIONAL REGIONS, CITIES', 'KNOWLEDGE', and 'NETWORKS'. On the right side of the header, there are search, help, and user account icons. Below the header, a breadcrumb navigation shows 'Home > Knowledge > Tools > Adaptation Support Tool'. The main content area features a circular diagram titled 'Adaptation Support Tool' with six numbered steps (1 to 6) arranged clockwise. Step 1 is at the top, step 2 is at the top-right, step 3 is at the right, step 4 is at the bottom-right, step 5 is at the bottom, and step 6 is at the top-left. To the right of the diagram, the title 'The Adaptation Support Tool - Getting started' is displayed. Below this, a section titled 'What is the Adaptation Support Tool?' provides a brief description of the tool's purpose. Further down, another section discusses the policy cycle and its alignment with EU guidelines and strategies. A sidebar on the left contains a link to 'The Adaptation Support Tool - Getting started' and three bullet points: 'How is the European climate changing?', 'Why adapt to climate change?', and 'Key principles for adaptation.'

3. Agriculture and Land Use National Greenhouse Gas Inventory (ALU) Software

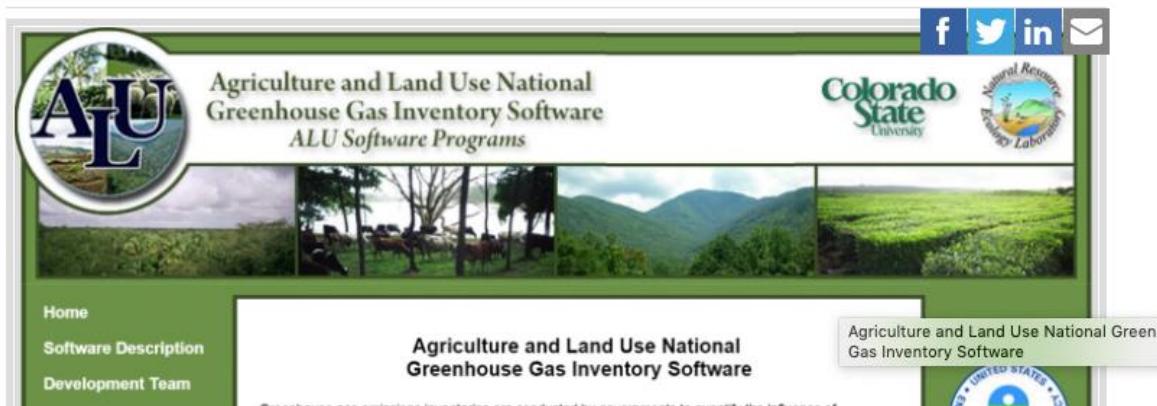
Type of tool: Technical software

Organization: Colorado State University and USAID

Description: ALU Software is a downloadable tool that guides users through the process of estimating national greenhouse gas emissions and removals related to agricultural and forestry activities. The software links GHG inventory to planning and development of mitigation actions, useful in developing Nationally Appropriate Mitigation Actions and Low Emissions Development Strategies.

Website: <https://www.climatelinks.org/resources/agriculture-and-land-use-national-greenhouse-gas-inventory-alu-software>

Agriculture and Land Use National Greenhouse Gas Inventory (ALU) Software



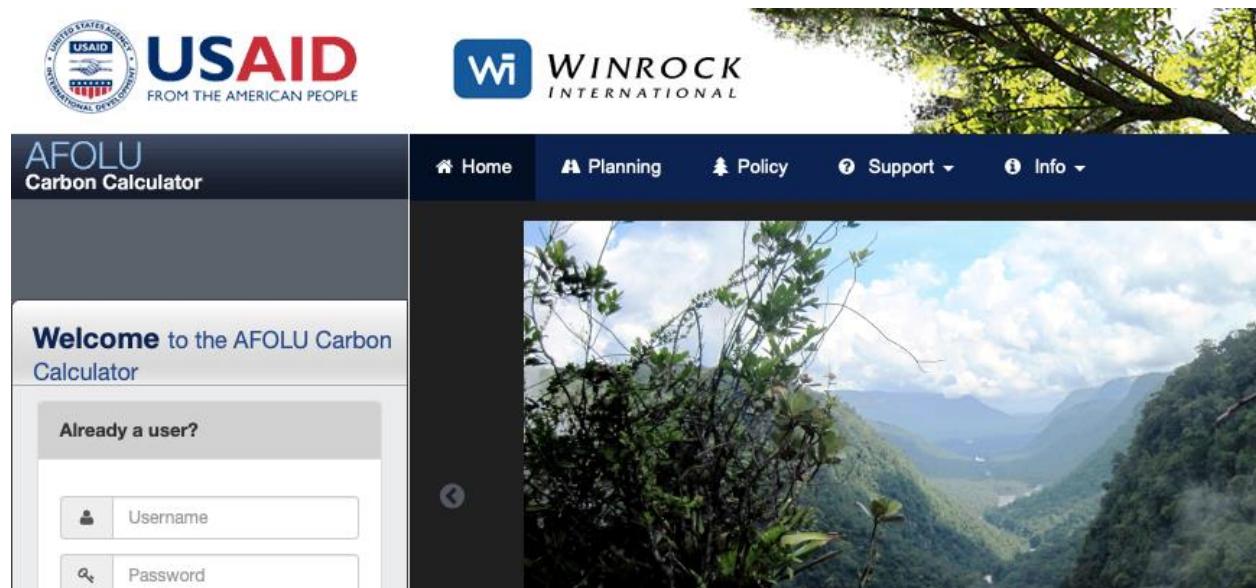
4. Agriculture, Forestry, and Other Land Use Carbon Calculator

Type of tool: Technical software

Organization: USAID

Description: AFOLU Carbon Calculator is a set of simple, user-friendly, web-based calculation tools, which employ IPCC based carbon accounting methods that allows users to estimate the absorption and storing of carbon dioxide benefits, and emissions reduction potential of eight different types of land-use and management project activities: forest protection, forest management, afforestation/reforestation, agroforestry, cropland management, grazing land management, forest degradation by fuelwood, and the development of land management policies.

Website: <http://www.afolucarbon.org>



5. Assessment of Capacities to Implement Policy Outcomes of Investment & Financial Flows Assessment for Key Sectors

Type of tool: Assessment, Finance

Organization: UNDP

Description: The purpose is to assess the capacities of the relevant institutions and ministries to take forward the policy outcomes of the national investment & financial flows (I&FF) assessment by determining the capacities that exist and those that are needed to implement the outcomes of the I&FF analysis.

Website: <http://ndcpartnership.org/toolbox/assessment-capacities-implement-policy-outcomes-investment-financial-flows-assessment-key>



Assessment of Capacities to Implement Policy Outcomes of Investment & Financial Flows Assessment for Key Sectors

Entry point: Organizational/Institutional Level

6. Biennial Update Report submissions from Non-Annex I Parties

Type of tool: Guideline documents

Organization: IPCC

Description: BURs are reports to be submitted by non-Annex I Parties, containing updates of national Greenhouse Gas (GHG) inventories, including a national inventory report and information on mitigation actions, needs and support received.

Website: <https://unfccc.int/BURs>



The screenshot shows the official website of the United Nations Climate Change. The header features the UN Climate Change logo and navigation links for EN, social media (Twitter, Facebook, LinkedIn, Instagram, YouTube), and other sections like Home, COP25, Process and meetings, Topics, Calendar, Climate action, Documents and decisions, and About. A search bar is also present. The main content area is titled "Biennial Update Report submissions from Non-Annex I Parties". Below this title, there is descriptive text about the reporting requirements for Non-Annex I Parties, mentioning the submission of their first BUR by December 2014 and every two years thereafter. It also notes that least developed country Parties and small island developing States may submit BURs at their own discretion. The text is in accordance with decision 2/CP.17 ([decision 2/CP.17](#)). To the right, there are two sections: "HOW TO SUBMIT" (with a link to "BUR submission procedures") and "USEFUL LINKS".

Biennial Update Report submissions from Non-Annex I Parties

Non-Annex I Parties, consistent with their capabilities and the level of support provided for reporting, should submit their first BUR by December 2014, and every two years thereafter. The least developed country Parties and small island developing States may submit BURs at their own discretion. The BURs shall be prepared in accordance with the guidelines contained in decision 2/CP.17 ([decision 2/CP.17](#)).

HOW TO SUBMIT

[BUR submission procedures](#)

USEFUL LINKS

7. Blending Climate Finance Through National Climate Funds: A Guidebook for the Design and Establishment of National Funds to Achieve Climate Change Priorities

Type of tool: Guidance document, Finance

Organization: UNDP

Description: The purpose of this guidebook is to assist countries in designing a National Climate Fund. It also aims to provide a simple, robust and transparent method for meaningful stakeholder engagement throughout the design process.

Website:https://www.undp.org/content/dam/undp/library/Environment%20and%20Energy/Climate%20Change/Capacity%20Development/Blending_Climate_Finance_Through_National_Climate_Funds.pdf



8. Bonn Challenge Commitments

Type of tool: Website with key information

Organization: Global Partnership on Forest Landscape Restoration

Description: In this website you can find the countries commitments to restore 150 million hectares of the world's degraded and deforested lands by 2020 and 350 million hectares by 2030.

Website: <http://www.bonnchallenge.org>



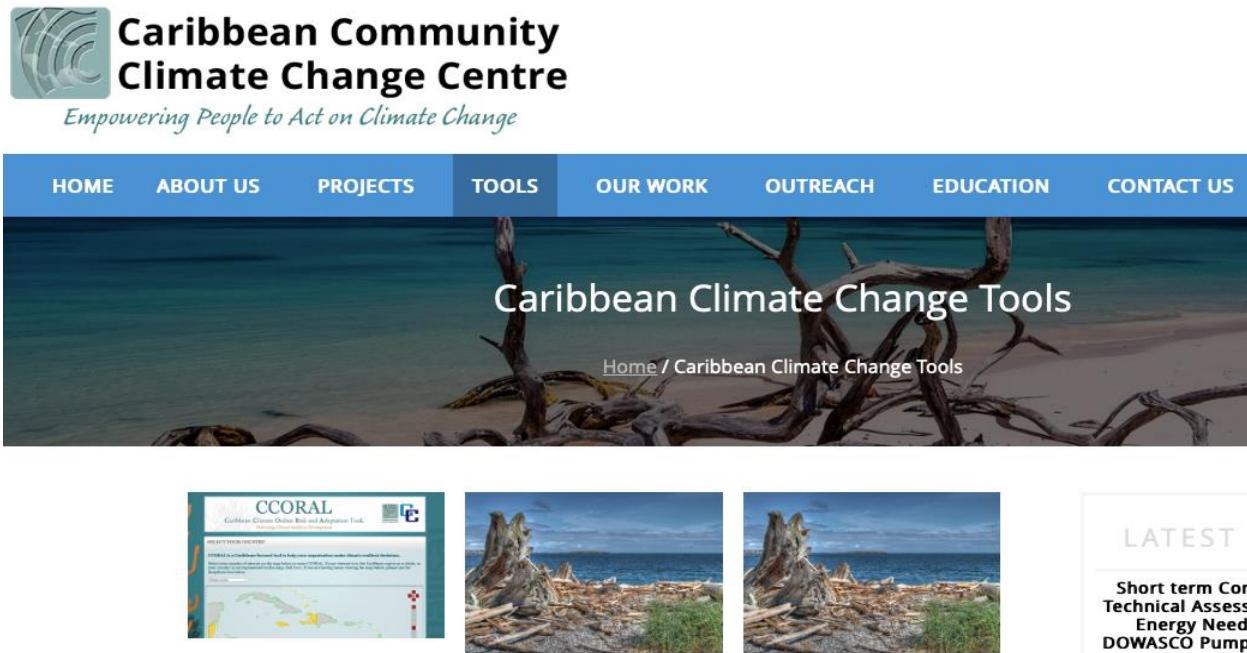
9. Caribbean Climate Change Tools

Type of tool: Knowledge Platform, Toolkits

Organization: Nature4Climate

Description: A suite of tools to educate regional decision-makers and inform climate resilient policy in the Caribbean. Tools include: a climate change risk management & adaptation tool, a database of scientific information regarding threats to coral reefs, a carbon-neutral tourism calculator, an online archive and information exchange system for climate resilient decision-making, a navigator or knowledge tools, a tool to improve climate risk planning, a drought assessment tool, and a data platform to improve environmental monitoring in the region.

Website: <http://www.caribbeanclimate.bz/caribbean-climate-chage-tools/>



The screenshot shows the homepage of the Caribbean Climate Change Tools website. At the top, there is a navigation bar with links for HOME, ABOUT US, PROJECTS, TOOLS (which is highlighted in blue), OUR WORK, OUTREACH, EDUCATION, and CONTACT US. Below the navigation bar is a large banner image of a beach with driftwood. Overlaid on the banner is the text "Caribbean Climate Change Tools" and a smaller link "Home / Caribbean Climate Change Tools". At the bottom left, there is a thumbnail image of a CCORAL tool interface, which is described as a "Caribbean Climate Online Risk and Adaptation Tool". To the right of the thumbnail are two photographs of a beach with driftwood. On the far right, there is a sidebar with the word "LATEST" and a summary of a document titled "Short term Con Technical Assess Energy Need DOWASCO Pump".

10. CCAFS Mitigation Options Tool (CCAFS-MOT)

Type of tool: Technical software

Organization: USAID, USDA, CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS), the University of Aberdeen, the International Centre for Tropical Agriculture (CIAT) and the University of Vermont's Gund Institute for Environment.

Description: CCAFS-MOT is a tool that provides reliable information about GHG emission reduction options from agriculture. CCAFS-MOT estimates GHG emissions from crop, livestock, agroforestry and rice management systems by country or geographic region.

Website: <https://ccafs.cgiar.org/mitigation-options-tool-agriculture-0#.XWhDs13MzOR>

The screenshot shows the homepage of the CCAFS-MOT website. At the top, there is a header with the CGIAR logo, the text "RESEARCH PROGRAM ON Climate Change, Agriculture and Food Security", and the CCAFS logo. To the right of the header are social media icons for Twitter, Facebook, RSS, LinkedIn, and Email. Below the header is a navigation bar with links for "CONTACTS", "ABOUT US", "DONORS", "PARTNERS", "CAREERS & CALLS", and "MEDIA & PRESS". The main content area features a large banner with the text "CCAFS-MOT: a mitigation options tool for agriculture" and a photograph of three researchers in a field examining rice plants. To the right of the banner is a "Share" button with 74 shares. Below the banner is a section titled "Our research flagships" with three items: "Priorities and Policies for CSA" (with a building icon), "Climate-Smart Technologies and Practices" (with a leaf and hand icon), and "Low Emissions Development" (with a leaf icon).

11. Climate Action Tracker Data Portal

Type of tool: Dataset

Organization: Climate Analytics, Ecofys, NewClimate Institute

Description: The Climate Action Tracker (CAT) is an independent scientific analysis produced by three research organizations tracking climate action and global efforts towards the globally agreed aim of holding warming below 2°C, since 2009.

Website: <https://climateactiontracker.org/data-portal/>



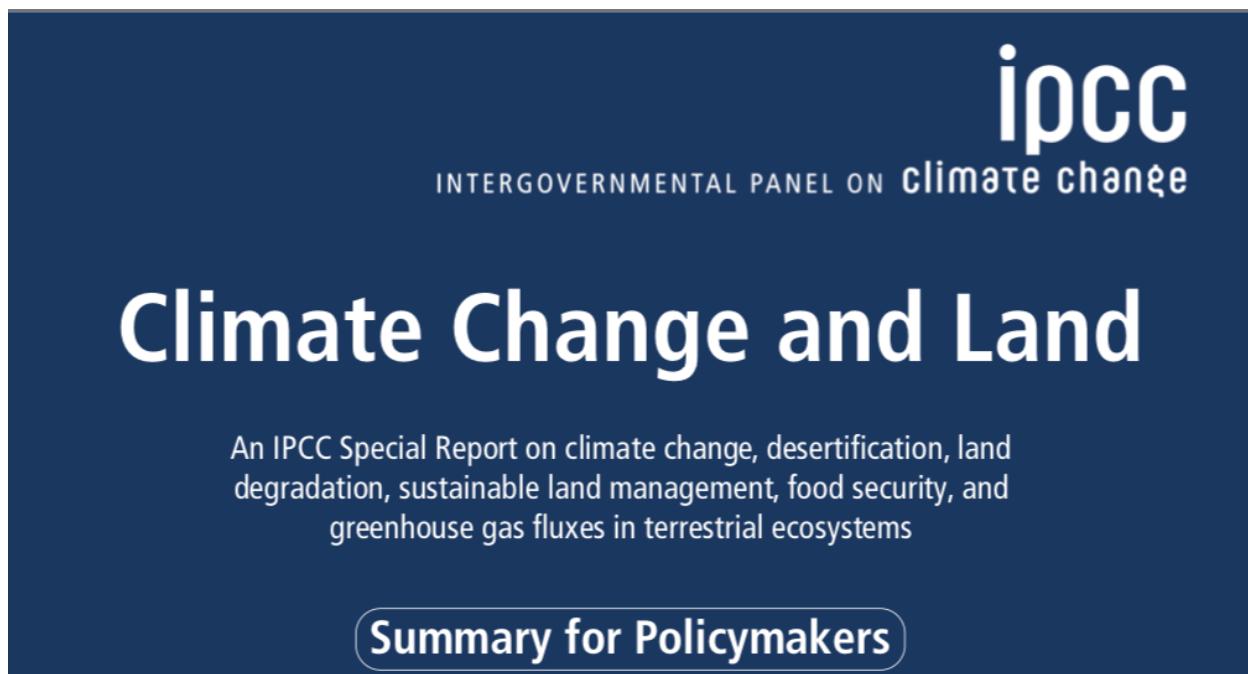
12. Climate Change and Land

Type of tool: Guideline document

Organization: IPCC

Description: Latest (2019) IPCC Special Report on climate change, desertification, land degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems

Website: https://www.ipcc.ch/site/assets/uploads/2019/08/Edited-SPM_Approved_Microsite_FINAL.pdf



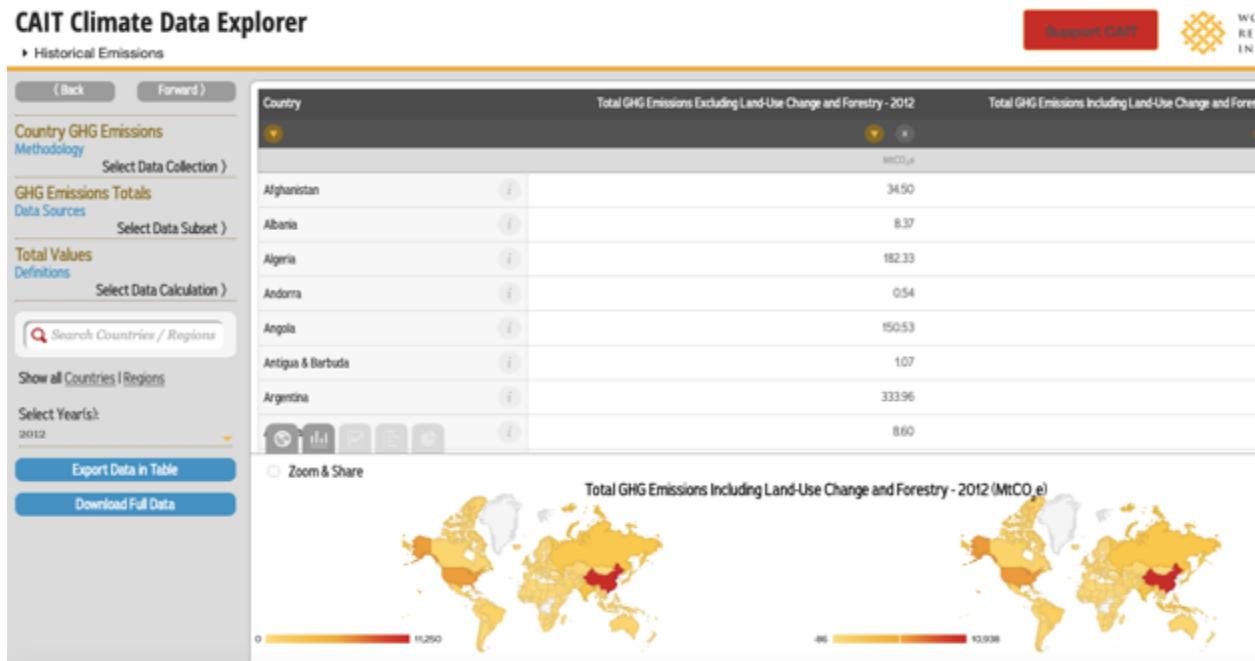
13. Climate Data Explorer

Type of tool: Datasets

Organization: World Resource Institute (WRI)

Description: A variety of global datasets on climate

Website: <http://cait2.wri.org/historical/Country%20GHG%20Emissions?indicator%5b%5d=Total%20GHG%20Emissions%20Excluding%20Land-Use%20Change%20and%20Forestry&indicator%5b%5d=Total%20GHG%20Emissions%20Including%20Land-Use%20Change%20and%20Forestry&year%5b%5d=2012&sortIdx=NaN&chartType=geo>



14. Climate Finance Training for Sector Experts (CliFiT4SE)

Type of tool: Training toolkit, Finance

Organization: adelphi, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Description: Climate Finance Training for Sector Experts (CliFiT4SE) is a dynamic, interactive training approach to inform sector experts in developing countries and emerging economies about climate finance opportunities.

Website: <https://www.clifit.org>

The screenshot shows the homepage of the CliFiT4SE website. The header is red with the text "Climate Finance Readiness Training- CliFiT". Below the header, there is a navigation bar with links to "Home", "Climate Finance Training for Sector Experts – CliFiT4SE", "Search", and social media icons for Facebook, Twitter, and LinkedIn. The main content area has a white background. On the left, there is a sidebar with links to "Home", "CliFiT toolkit", "CliFiT4SE toolkit", "About", "Conceptual Framework", "Training Modules", and "Trainers [login]". The central content area contains a section titled "Climate Finance Training for Sector Experts – CliFiT4SE" which describes the training's purpose and objectives. It also lists specific learning objectives and includes a bulleted list of topics. To the right of the central content, there is a "Developed by" section featuring the adelphi logo, which consists of a stylized 'a' inside a circle.

15. Climate Initiatives Platform

Type of tool: Platform, Datasets

Organization: UNEP

Description: The Climate Initiatives Platform enables cooperative climate initiatives to register their action and to showcase their ambition and progress to the world. This freely accessible online platform has brought together more than 200 important cooperative climate initiatives driven by non-state actors, with more than 50 data points provided for each initiative, including goals, activities and participants, as well as progress and impacts.

Website: [**Climate Initiatives Platform**

\[Search\]\(#\) \[About\]\(#\) \[Suggest\]\(#\) \[Success stories\]\(#\) \[Impacts of ICIs\]\(#\)

\[Analysis\]\(#\) \[Log In\]\(#\) \[Register\]\(#\)

!\[\]\(001db52133ab4d4e6f33ee52d8a36710_img.jpg\)

Welcome to the Climate Initiatives Platform \(CIP\). This portal collects, shares and tracks information on international cooperative climate initiatives driven by non-state actors such as businesses and cities, often with support from national states. More than 50 data points are open for each initiative.

260
Initiatives in the database](http://climateinitiativesplatform.org/index.php>Welcome</p></div><div data-bbox=)

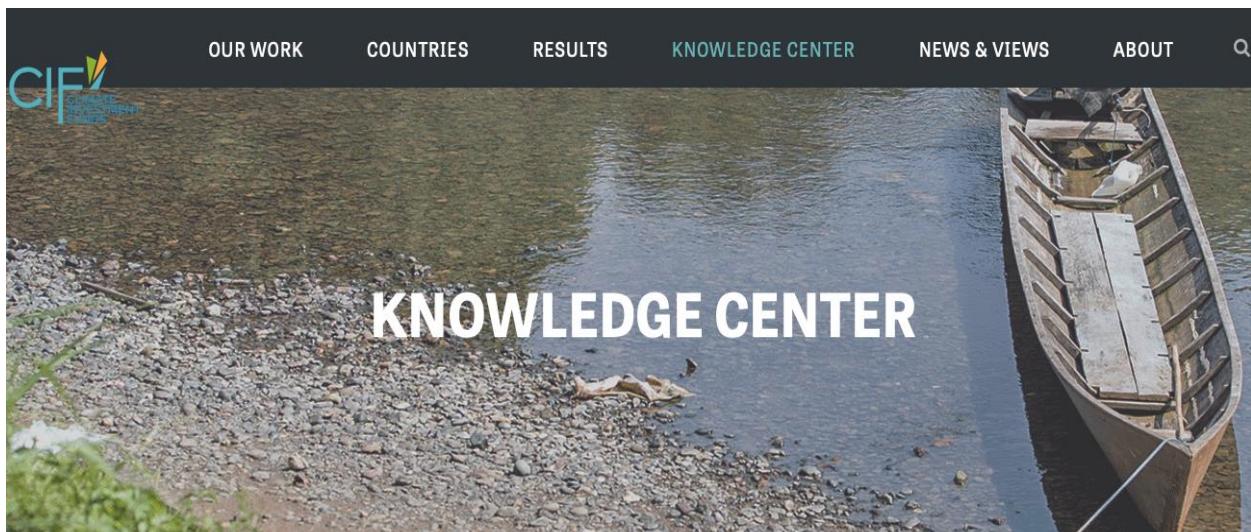
16. Climate Investment Funds Knowledge Center

Type of tool: Platform, Finance

Organization: Climate Investment Fund (CIF)

Description: A collection of reports, tools, case studies, fact sheets, investment plans, learning events, and other policy guidelines to assist policymakers in NDC implementation. Database includes country profiles and resources on how to scale up sustainable programs in low-income countries.

Website: <https://www.climateinvestmentfunds.org/knowledge-center>



17. Climate-Smart Planning Platform

Type of tool: Dataset, Knowledge Platform

Organization: World Bank

Description: The Climate-Smart Planning Platform provides countries and individual users with the opportunity to gather and share information on the application of climate-resilient and low-carbon development tools by giving access to a wide range of climate-related global and national datasets through its built-in semantic Wiki.

Website: <https://www.climatesmartplanning.org/index.html>

The screenshot shows the homepage of the Climate-Smart Planning Platform. At the top, there's a dark blue header with the platform's name in white. Below it is a navigation bar with links for Climate, Tools, Data, Knowledge, News, Partners, and About us. To the right of the navigation are three buttons: Start Here, Planning Process, and Browse the Platform. The main content area features a large graphic of a globe with green continents and blue oceans. Overlaid on the globe are several pieces of text and icons: 'Enhance your climate-smart planning with more than:', '320 Tools', 'Datasets', 'Knowledge', '58 Organizations', and a small image of a house with a solar panel. To the right of the globe is a box containing five numbered circles (1 to 5) arranged in a triangle, with a small description below it. On the far right, there are three vertical boxes: 'Start Here' (Help to get started), 'Planning Process' (Step by step), and 'Join Us' (Contribute and Share). At the bottom left is a search bar with a placeholder 'Search by' and a 'Google Custom' link. Next to it is a 'Browse by' section with links to Climate Resilient Development, Low Carbon Development, and Screening, Monitoring & Evaluation.

18. ClimateLinks

Type of tool: Platform

Organization: USAID

Description: ClimateLinks is a global knowledge portal that curates and archives technical guidance and knowledge related to USAID's work to help countries mitigate and adapt to climate change. The aim is to improve climate change and development programming through knowledge sharing. ClimateLinks is a place for climate and development practitioners to share training & learning opportunities, data and decision-support systems, and resources to monitor and report progress.

Website: <https://www.climatelinks.org>

The screenshot shows the ClimateLinks website homepage. At the top, there is a green decorative bar with a white triangle on the left. Below it is the ClimateLinks logo in blue and orange, followed by the tagline "A Global Knowledge Portal for Climate and Development Practitioners". To the right of the tagline is the USAID logo with the text "FROM THE AMERICAN PEOPLE". The main navigation menu is located at the top of the page, featuring links for "Photo Contest", "About", "Contact", "Subscribe", and "Blog". There are also social media icons for LinkedIn, Twitter, and YouTube. Below the menu, there is a large photograph of a person holding a smartphone on a tripod, filming a group of people outdoors. In the bottom left corner of the photo, there is an orange call-to-action box with the text "ClimateLinks Photo Contest 2019" and "Do you have great photos of climate and development? Now is your chance to showcase your photos and promote your work on ClimateLinks! Winning".

19. Coastal Capital: Ecosystem Valuation for Decision Making in the Caribbean

Type of tool: Guideline document

Organization: World Resources Institute

Description: This guidebook details the steps in conducting a coastal ecosystem valuation to inform decision making in the Caribbean. It guides valuation practitioners—both economists and non-economists—through the three phases of a valuation effort (scoping, analysis and outreach), with an emphasis on stakeholder engagement in all phases.

Website: <https://www.wri.org/publication/coastal-capital-ecosystem-valuation-decision-making-caribbean>

The screenshot shows the WRI website navigation bar at the top, featuring links for 'What We Do', 'Where We Work', 'Publications' (which is highlighted in black), 'Maps & Data', 'Blog', 'News', 'Events', 'About', and a 'DONATE' button. Below the navigation is a secondary menu with categories like 'Climate', 'Energy', 'Food', 'Forests', 'Water', 'Cities', 'Ocean', 'BUSINESS', 'ECONOMICS', 'FINANCE', and 'GOVERNANCE'. A search bar with the placeholder 'Enter a term' and a magnifying glass icon is also present. The main content area displays the title 'Coastal Capital: Ecosystem Valuation for Decision Making in the Caribbean' above a thumbnail image of the publication cover. The cover features a tropical beach scene with palm trees and mountains. Below the title, it says 'by Richard Waite, Lauretta Burke, Erin Gray, Pieter van Beukering, Luke Brander, Emily McKenzie, Linwood Pendleton, Peter Schuhmann and Emma Tompkins - February 2014'. A yellow 'DOWNLOAD OPTIONS' button is visible. To the right of the main content, there's a sidebar with sections for 'PUBLICATION', 'CONTACT', 'PROJECTS', 'TOPICS', and 'TAGS', each listing specific terms related to the publication.



Coastal Capital: Ecosystem Valuation for Decision Making in the Caribbean

by [Richard Waite](#), [Lauretta Burke](#), [Erin Gray](#), Pieter van Beukering, Luke Brander, Emily McKenzie, Linwood Pendleton, Peter Schuhmann and Emma Tompkins - February 2014

This guidebook details the steps in conducting a coastal ecosystem valuation to inform decision

PUBLICATION

CONTACT:
Richard Waite

PROJECTS:
[Coastal Capital: Economic Valuation of Coastal Ecosystems in the Caribbean](#)

TOPICS:
Food, Water, Economics

TAGS:
[caribbean](#), [coastal ecosystems](#), [coral reefs](#), [economic valuation](#), [economics](#), [ecosystem services](#), [fisheries](#), [food](#), [oceans](#), [water](#)

20. Coastal Resilience

Type of tool: Platform, Spatial datasets

Organization: The Nature Conservancy

Description: Coastal Resilience is an approach and online decision support tool to help address the effects of climate change and natural disasters. This platform holds a suite of applications to meet specific planning needs, including coastal management policies, post-storm disaster decision-making, community assessments, hazard mitigation plans or cost effectiveness evaluations. It also holds an online mapping tool designed for planners, government officials, and communities to develop risk reduction, restoration and resilience strategies.

Website: <http://coastalresilience.org>



Coastal Resilience is a program led by The Nature Conservancy to examine nature's role in reducing coastal flood risk. The program consists of an approach, a web mapping tool, and a network of practitioners around the world supporting hazard mitigation and climate adaptation planning.

PROJECTS
Coastal Resilience projects around the U.S., encompassing 17 coastal states, in the Caribbean, across Mexico and Central America, and a global effort enable planners, government officials, and communities to develop risk reduction, restoration and resilience strategies.

OUR APPROACH
The approach consists of four critical steps:
(1) assess hazard risk and community vulnerability,
(2) identify nature-based solutions,
(3) take conservation and restoration action, and
(4) measure the effectiveness of our actions to reduce flood risk.

NATURAL SOLUTIONS
The science of nature-based solutions in reducing flood risk is growing rapidly. Coastal Resilience and our Natural Solutions Toolkit examines when and where they are most effective.



The Coastal Resilience decision support system includes a visualization platform where ecological, social, and economic information can be viewed alongside sea level rise and storm surge scenarios in specific geographies. In addition, a modular, configurable plugin architecture allows specific geographies to have apps designed specifically for geo-processing and display. These cater to the needs of stakeholders, policies and planning processes. Apps are used to simplify complex relationships or models, convey a specific ecological or social concept, or used to compare different future condition scenarios.

Aquatic Barrier Prioritization
Access Risk, Identify Solutions, Measure Effectiveness
The Aquatic Barrier Prioritization app allows users to access risk, identify solutions, and measure effectiveness for aquatic barriers.

Coastal Defense
Identify Solutions
The Coastal Defense app examines how coastal habitats such as oyster reefs, marshes, and dunes reduce flood risk.

Coastline Change: Future Scenarios
Identify Solutions
The Coastline Change: Future Scenarios app allows users to identify solutions for coastline changes.

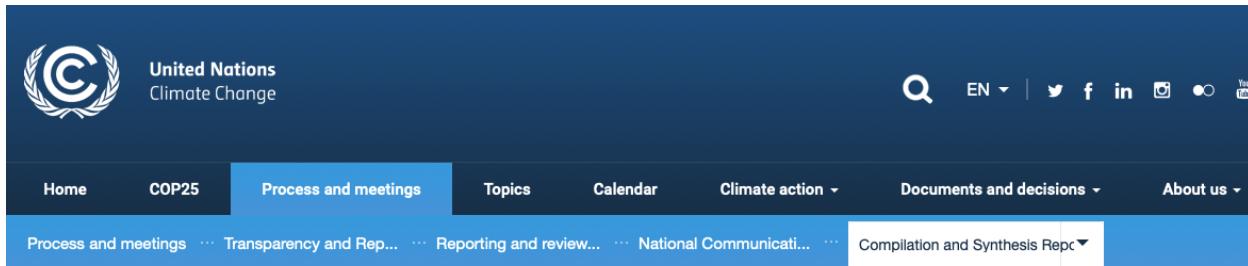
21. Compilation and Synthesis Reports of Parties included in Annex I to the Convention

Type of tool: Guideline documents

Organization: IPCC

Description: The report highlights findings on quantified economy-wide emission reduction targets; progress made towards their achievement, including information on mitigation actions and their effects, the estimates of emission reductions and removals and the use of units from market-based mechanisms and LULUCF activities; greenhouse gas (GHG) emission trends and projections; and the provision of financial, technological and capacity-building support to developing country Parties.

Website: <https://unfccc.int/process-and-meetings/transparency-and-reporting/reporting-and-review-under-the-convention/national-communications-and-biennial-reports-annex-i-parties/CandS-report>



Compilation and Synthesis Reports of Parties included in Annex I to the Convention

The secretariat prepares compilation and synthesis (C&S) reports of the information provided in the biennial reports (BRs) and National Communications (NCs) by developed Parties.

NEWS

Actions and support before 2020: where are

22. National Actions in their NDCs

Type of tool: Dataset

Organization: NDC Partnership

Description: A summary, per country, of the NDC targets, target methodology, coverage, mitigation and adaptation commitments per sector

Website: <https://www.climatewatchdata.org/contained/sectors/agriculture#countries-actions-in-their-ndcs>

Countries' Actions in their NDCs

While emissions are rising, countries are also stepping up their commitments to reduce emissions. As part of the Paris Agreement, 65 countries proposed agricultural mitigation measures (i.e.: targets, policies, actions and plans) and 112 countries proposed agricultural adaptation measures (i.e.: targets, policies, actions and plans).

Click on a country to see what agriculture actions have been proposed in their NDCs.

MAP TABLE

Category

Sectoral Adaptation Measures



- Sectoral measure specified
- No specified measure

23. National context

Type of tool: Dataset

Organization: NDC Partnership

Description: General info per country regarding GDP indicators, Socio-economic indicators, Water withdrawal and water stress, Fertilizer and pesticide use, Share in Land Area, Production, Consumption and Trade

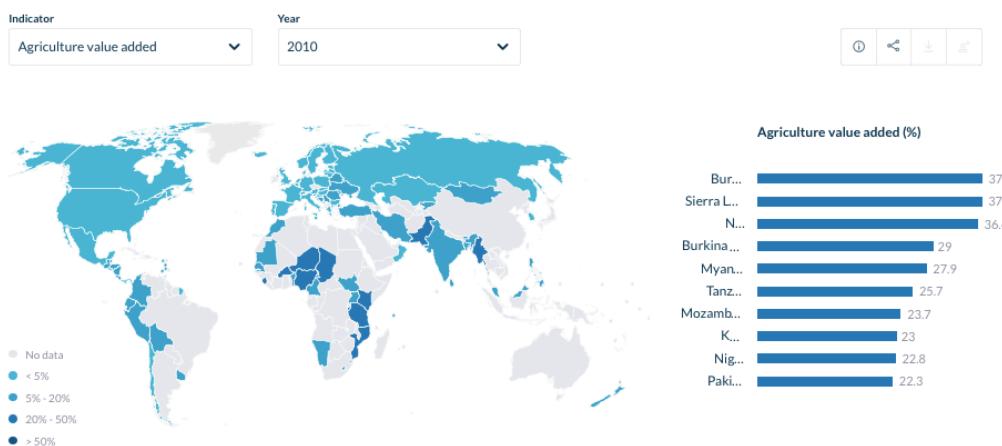
Website: <https://www.climatewatchdata.org/contained/sectors/agriculture#understand-countries-contexts>

Understand Country Context

Agricultural practices and products not only influence emissions and water impacts, but also provide economic growth, jobs and food security. How countries can reduce their environmental impacts will be dependent on their unique circumstances.

EXPLORE BY INDICATOR

EXPLORE BY COUNTRY



24. Drivers of emissions in Agriculture

Type of tool: Dataset

Organization: NDC Partnership

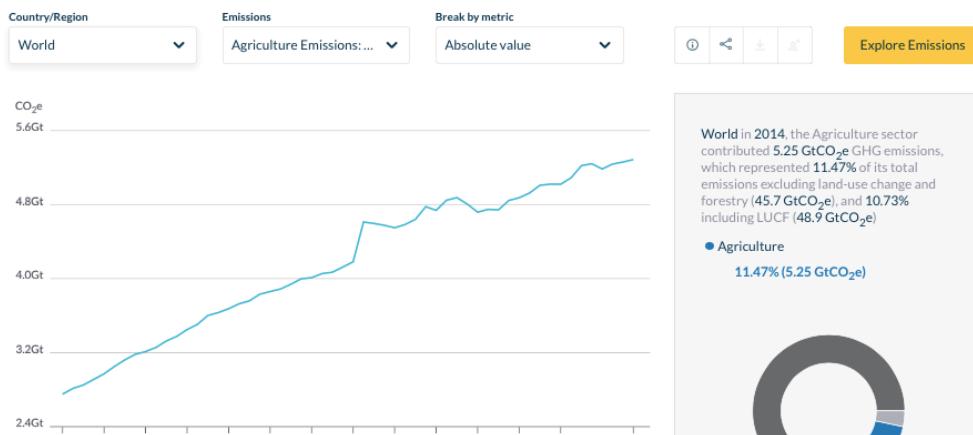
Description: Helps in exploring what activities are driving agricultural emissions (by country) and see future pathways of those drivers.

Website: <https://www.climatewatchdata.org/contained/sectors/agriculture#drivers-of-emissions>

Drivers of Emissions

Agriculture activities are responsible for more land-clearing than any other sector, contributing a significant amount of emissions in developing countries. GHG emissions from agriculture consist mainly of non-CO₂ gases produced by crop and livestock production and management activities.

Explore what activities are driving agricultural emissions in the chart below and see future pathways of those drivers.



25. Drought Stress Testing Tool

Type of tool: Technical Software, Finance

Organization: Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, United Nations Environment Finance Initiative (UNEP FI), Global Canopy Programme (GCP), Emerging Markets Dialogue on Finance (EMDF)

Description: The 'Drought Stress Testing Tool' allows financial institutions to see how incorporating drought scenarios changes the perception of risk in their own loan portfolios. Based on the catastrophe modelling framework that the insurance industry has used for 25 years, it looks at five drought scenarios in four countries – Brazil, China, Mexico and the US – to model the impact on 19 different industry sectors, the companies in those sectors and the likelihood that they will default on their loans.

Website:<https://naturalcapital.finance/wp-content/uploads/2018/11/Drought-Stress-Testing-Tool-FULL-REPORT.pdf>



26. e-Learning Platform of the United Nations Statistics Division

Type of tool: Platform, E-learning, Datasets

Organization: UNSD

Description: The e-Learning platform of the UN Statistics Division hosts a range of learning resources designed to familiarise individuals with the concepts and methods behind the System of Environmental-Economic Accounting. This platform provides users with courses, virtual classrooms and other learning resources on key topics such as water accounting, energy accounting and experimental ecosystem accounting.

Website: <https://elearning-cms.unstats.un.org>



27. ENCORE (Exploring Natural Capital Opportunities, Risks and Exposure)

Type of tool: Platform, Datasets, Finance

Organization: Natural Capital Finance Alliance (NCFA), UN Environment World Conservation Monitoring Centre (UNEP-WCMC), MAVA Foundation, Swiss State Secretariat for Economic Affairs (SECO)

Description: ENCORE is an online tool that enables users to visualize how the economy depends on nature and how environmental change creates risks for businesses. Starting from a business sector, ecosystem service, or natural capital asset, ENCORE can be used to start exploring natural capital risks.

Website: <https://encore.naturalcapital.finance/en>

The screenshot shows the ENCORE homepage. On the left, there's a large green header with the word 'ENCORE' in white. Below it is a dark green sidebar containing the text: 'ENCORE (Exploring Natural Capital Opportunities, Risks and Exposure) enables users to visualise how the economy depends on nature and how environmental change creates risks for businesses. Starting from a business sector, ecosystem service, or natural capital asset, ENCORE can be used to start exploring natural capital risks. These risks can be explored further to understand location-specific risks with maps of natural capital assets and drivers of environmental change.' At the bottom of this sidebar are two buttons: 'Read more >' and 'Watch video <'. On the right, there's a dark sidebar titled 'Explore Natural Capital Risks' which says: 'Explore Natural Capital Risks - Select from a Sector, Sub-Industry or Production Process below (based on the Global Industry Classification Standard) to explore natural capital risks.' It has three dropdown menus: '1. Sector' (Select option), '2. Sub-industry' (Select option), and '3. Production process' (Select options). At the bottom of this sidebar is a yellow button labeled 'Explore >'.

28. Enhancing National Determined Contributions Through Protected Areas

Type of tool: Guideline document

Organization: WWF

Description: This paper is a review of the currently available Nationally Determined Contributions to assess the extent of Parties' use of protected and other conserved areas for adaptation and mitigation benefits, to identify promising approaches and gaps. Findings were used to develop recommendations for Parties to enhance the role of protected areas in their revised NDCs for submission to the UNFCCC in 2020 and beyond.

Website: <https://www.worldwildlife.org/publications/enhancing-nationally-determined-contributions-through-protected-areas>

Enhancing Nationally Determined Contributions through Protected Areas

DATE:
May 23, 2019

THIS PUBLICATION RELATES TO:
Climate

 Share 28 

Nationally Determined Commitments (NDCs) to the United Nations Framework Convention on Climate Change (UNFCCC) 2015 Paris Agreement underscore the role protected areas and other conserved areas play in reaching global mitigation and adaptation targets. With financial support from the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU), WWF US reviewed 151 currently available NDCs to determine how Parties intend to utilize protected areas to contribute to their adaptation and mitigation commitments.



29. Evidence Map

Type of tool: Knowledge Platform

Organization: University of Oxford

Description: An interactive evidence map linking nature-based solutions to adaptation outcomes based on a systematic review of the peer-reviewed literature.

Website: <https://www.naturebasedsolutionsinitiative.org/evidence-map/>

The screenshot shows the Evidence Map website. At the top, there is a navigation bar with links: Home, About, Knowledge, Policy Platform, Team, News & Events, and Join Us. Below the navigation bar, there is a decorative graphic of green trees on the left and a section titled "Features" with five numbered items:

- explore evidence on how effective different nature-based interventions are for addressing climate change impacts
- compare social, economic, and environmental effects of different nature-based interventions
- filter by region, country, biome, or type of outcome
- generate maps, graphs and download data
- directly link from science to national climate policy

Below the features, there is a paragraph of text:

This free tool will help decision makers working at the nexus of climate change, conservation and development planning rapidly find evidence most relevant to them, including evidence that should underpin target setting in climate policy. It will also enhance our understanding of the effectiveness of nature-based solutions, including greater clarity on what research is urgently needed.

To the right of the features, there is a detailed screenshot of a filter interface for "Habitat type (16)". The interface includes a "Filter values" dropdown with "Select All" and "Select None" options, and a list of checked checkboxes corresponding to various habitat types:

- Aquatic production/artificial landscapes (3)
- Boreal forests and taiga (3)
- Coastal (17)
- Coral reefs (4)
- Deserts and xeric shrublands (6)
- Habitat type not specified (8)
- Mangroves (6)
- Mediterranean shrublands (3)
- Montane/Alpine (20)
- Streams and rivers (27)

At the bottom of the filter interface are "Apply" and "Cancel" buttons.

30. Ex-Ante Carbon-balance Tool (EX-ACT)

Type of tool: Assessment

Organization: FAO

Description: This system provides ex ante estimates of the impact of land use and land-use changes, and natural resource management on GHG emissions and carbon balance. EX-ACT is a powerful tool that can ensure agricultural investments are climate-proofed.

Website: <http://www.fao.org/tc/exact/carbon-balance-tool-ex-act/en/>

The screenshot displays the EX-ACT tool website. On the left, there's a sidebar with the FAO logo and links to various FAO services. The main content area is titled 'EX-ACT tool' and features a central diagram illustrating the tool's characteristics. At the top of this section is a navigation bar with tabs: Start, Description, Land Use Change, Crop production, Grassland Livestock, Land degradation, and Inputs Investments. Below this is a large circular graphic with the text 'The EX-Ante Carbon-balance Tool (EX-ACT)'. Around the circle are several blue boxes containing text and icons: 'Upgradable over time' with a right-pointing arrow; 'User friendly in six easy steps'; 'Adapted to various scales (project, landscape, region, farm...)'; 'Familiar Excel environment'; 'Cost efficient'; and 'Moderate data requirements'. To the right of the central diagram is a 'Download' section with a link to 'Version 7 (.xlsx)' and a note that 'EX-ACT: Multilingual!'. Below this is a screenshot of the software interface, which shows a green-themed spreadsheet with various data inputs and calculations.

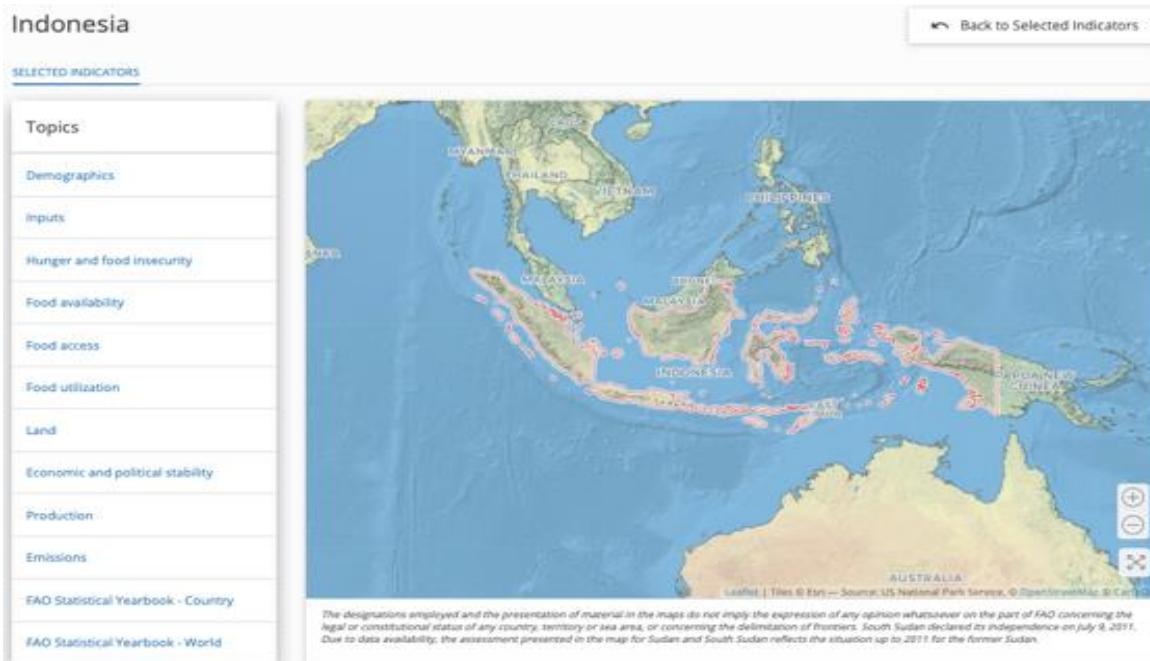
31. FAOSTAT

Type of tool: Dataset

Organization: FAO

Description: FAOSTAT provides free access to food and agriculture data for over 245 countries and territories and covers all FAO regional groupings from 1961 to the most recent year available. It offers data regarding agri-environmental indicators, production, emissions, land use, forestry, population, etc.

Website: <http://www.fao.org/faostat/en/#home>



32. Financing Solutions for Sustainable Development: Payment for Ecosystem Services

Type of tool: Knowledge Platform, Finance

Organization: UNDP

Description: The website is a compass to navigate across financing solutions: an intelligent database that describes their potential, advantages, disadvantages, risks and characteristics. It profiles case studies and refers to multiple external sources, including e-learning and advanced guidance material, where available. The development of the domestic financial sector and the integration of local, national, regional and international markets have increased the number of options the public and private sector can choose from to advance investments in SDG sectors. The toolkit helps to search among those financing solutions.

Website:

<https://www.sdfinance.undp.org/content/sdfinance/en/home/solutions/payments-for-ecosystem-services.html>

The screenshot shows the UNDP Financing Solutions for Sustainable Development website. At the top, there's a navigation bar with links for GLOBAL, ABOUT US, HOW TO USE THE PLATFORM, GLOSSARY, and SOLUTIONS. Below the navigation is a header with the title "Payments for ecosystem services". A sidebar on the left lists "Overview", "How does it work?", and "When is it feasible?". The main content area features an "Overview" section with text about Payments for ecosystem services (PES) and a list of key words: PES; payments for conservation; water PES; wetland PES. There are also small icons numbered 1 through 16 representing various ecosystem services.

33. GEF Country Profiles

Type of tool: Dataset

Organization: Global Environment Facility (GEF)

Description: Browse for GEF Projects via the map or search by keyword. Each country profile outlines number of GEF Projects, funding amount, funding allocation use, and contact information.

Website: <https://www.thegef.org/country>

The screenshot shows the homepage of the GEF Country Profiles website. At the top, there is a navigation bar with links for IEO, STAP, and various social media icons (Twitter, YouTube, Facebook). Below the navigation is a search bar with the placeholder "Enter your keywords". The main header features the GEF logo and the text "GLOBAL ENVIRONMENT FACILITY INVESTING IN OUR PLANET". Below the header, there is a horizontal menu with links for Home, About Us, Our Work, Projects, Documents, Partners, and News. To the right of the menu are download and share icons. The main content area features a world map where countries are shaded in different tones of blue, indicating the number of GEF projects. A callout box titled "GEF Overview" provides key statistics: Number of Projects (4646), GEF Grant Volume (US\$ 16,414.46 million), and Cofinancing (US\$ 101,550.98 million). A search bar at the bottom right asks "What do you want to know?" with a magnifying glass icon.

34. GEF Knowledge and Learning Projects (List of knowledge platforms)

Type of tool: Platform, Finance

Organization: Global Environment Facility (GEF)

Description: The GEF finances projects that underpin the generation and exchange of knowledge around global environmental issues. Knowledge generation and sharing are critical for GEF investments to achieve a lasting impact in safeguarding the global environment.

Website: <https://www.thegef.org/topics/knowledge-learning>

The screenshot shows the homepage of the GEF Knowledge & Learning website. At the top, there is a banner with the text "Knowledge & Learning" over a background image of people. Below the banner, there is a navigation bar with links: "WHAT WE DO", "PROJECTS", "GEF ACADEMY", "EVENTS", and "RESOURCES". The main content area has a heading "What We Do" followed by two paragraphs of text. To the right, there is a sidebar titled "Knowledge & Learning" with links to various resources: "The Art of Knowledge Exchange", "GEF Knowledge Days", "Knowledge Exchange Stories", "Kaleo", and "GEF Academy". At the bottom, there are four cards with titles: "The Art of Knowledge Exchange", "GEF Knowledge Days", "Knowledge Exchange Stories", and "GEF Online Ask the Expert tool".

35. GGGI Library of Publication & Graphics

Type of tool: Knowledge Platform

Organization: Global Green Growth Institute (GGGI)

Description: A library of materials published by GGGI in partnership with governments, international organizations, academic institutions, and the private sectors. Highlighted thematic areas include: green cities, water and sanitation, sustainable landscapes, and sustainable energy. Reports include situational analysis for green municipal development, green development and green energy guidelines, case studies of GGGI's in-country work on topics such as green economies, resilience strategy, investment in ecosystem services, and more.

Website: <https://ggi.org/reports/>

The screenshot shows the GGGI website's publication library section. At the top, there is a navigation bar with links for "How We Work", "Country Programs", "Global Programs", "Thematic Strategies", "Projects", "News", and "SELECT LANGUAGE". Below the navigation bar, there are four cards, each representing a different publication:

- The Livestock Sector in Colombia: Toward a Program to Facilitate Large-Scale Adoption of Mitigation and Adaptation Practices** (Colombia). It features a photo of a cow and a person working in a field. Buttons for "EXPLORE" and "DOWNLOAD" are at the bottom.
- Localising SDGs: Early Lessons from India**. It features a collage of puzzle pieces with various icons like a map, a person, a plant, and a graph. Buttons for "EXPLORE" and "DOWNLOAD" are at the bottom.
- Investing Green – A Case For Waste To BioCNG in Bengaluru, India**. It features a photo of a trash bin and a CNG sign. Buttons for "EXPLORE" and "DOWNLOAD" are at the bottom.
- Identifying Income Generating Opportunities in Root Crops in Kiribati**. It features a photo of a tropical landscape. Buttons for "EXPLORE" and "DOWNLOAD" are at the bottom.

36. Global Alliance For Climate-Smart Agriculture

Type of tool: Platform

Organization: FAO

Description: GACSA's functions as a clearing house mechanism on knowledge and inspires the development and dissemination of innovative, evidence-based options for climate-smart agriculture. The alliance also catalyzes and helps create transformational partnerships and create the mechanisms for the voluntary sharing of information and experience.

Website: <http://www.fao.org/gacsa/en/>



The screenshot shows the GACSA website homepage. At the top, the GACSA logo and the text "GLOBAL ALLIANCE FOR CLIMATE-SMART AGRICULTURE" are displayed. A green navigation bar includes links for Home, About, Members, Action Groups, Webinars, Annual Forum, News, Events, Resources, and Join GACSA. To the right of the navigation bar, there is a link to "English". Below the header, a video player displays a video of three people seated at a conference table during a forum. The video has a caption: "GACSA welcomes new Coordinator Simon Leiva". Below the video, a text box states: "The Global Alliance for Climate Smart Agriculture Facilitation Unit welcomes a new Coordinator and he tells us about his first impressions, GACSA's greatest value and what's next in a recent interview." At the bottom of the page, there is a footer note: "GACSA is an inclusive, voluntary and action-oriented multi-stakeholder platform on Climate-Smart Agriculture (CSA)." and a "GACSA Newsletter Sign-Up" link.

37. Global Database on Sustainable Land Management

Type of tool: Database, Platform

Organization: World Overview of Conservation Approaches and Technologies (WOCAT)

Description: The Global Database on Sustainable Land Management is the primary recommended database by UNCCD. It is open access and contains more than 800 SLM practices.

Website: <https://www.wocat.net/library/media/18/>



38. Global Forest Resources Assessments

Type of tool: Platform, Assessment, Guideline documents

Organization: FAO

Description: FRA 2015 is the most comprehensive assessment of forests to date. It examines the status and recent trends for about 100 variables covering the extent, condition, use, and value of forests and other wooded land. Additionally, FAO assists countries to strengthen their national forest monitoring systems. Such data provide a basis for identifying vulnerability to climate change and assessing progress in adaptation and mitigation.

Website: www.fao.org/forest-resources-assessment

The screenshot shows the homepage of the FAO Global Forest Resources Assessments. At the top, the FAO logo and name are displayed, along with a search bar and links for various sections like About FAO, In Action, Countries, Themes, Media, Publications, Statistics, and Partnerships. Below the header, there's a navigation menu with icons for Home, Background, Past assessments, Documents, and Remote Sensing. A large graphic of circular icons representing various forest-related topics (trees, charts, people, etc.) is centered. To the right, a box highlights the "GLOBAL FOREST RESOURCES ASSESSMENT (FRA) 2020", detailing its start at a global technical meeting in Toluca, Mexico, and the development of a new online platform. Below this, a section titled "Why do we need FRA?" explains the purpose of the assessment, and another section titled "Highlights" features a green FAO banner.

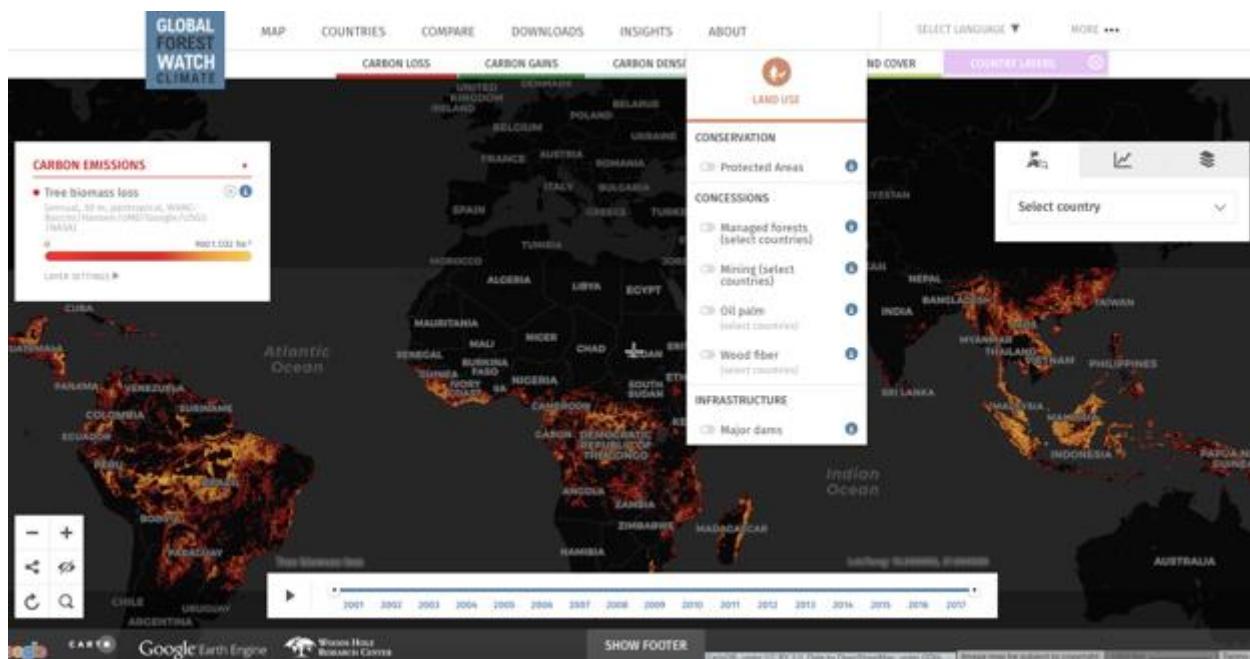
39. Global Forest Watch Climate Map

Type of tool: Spatial datasets

Organization: Global Forest Watch (partnership of organizations)

Description: GFW Climate provides interactive and high resolution (30 meter) maps of both the carbon stored in forests and the carbon dioxide emitted to the atmosphere when forests are cleared. It also offers a customized user experience through the creation of on-the-fly maps and analysis, interactive country dashboards, customized reports and data downloads. At this time, GFW Climate focuses only on estimating emissions from tropical deforestation.

Website: http://climate.globalforestwatch.org/map/3/15.00/27.00/ALL/dark/biomass_los?begin=2001-11-10&end=2018-01-01&threshold=30



40. Global Forest Watch Map

Type of tool: Platform, Spatial datasets

Organization: Global Forest Watch (partnership of organizations)

Description: Global Forest Watch (GFW) is an online platform that provides data and tools for monitoring forests. By harnessing cutting-edge technology, GFW allows anyone to access near real-time information about where and how forests are changing around the world.

Website: <https://www.globalforestwatch.org/map?map=eyJZW50ZXIiOnsibGF0IjoyNywi bG5nIjoxMn0sImJIYXJpbmciOjAsInBpdGNoljowLCJ6b29tIjoyfQ%3D%3D>



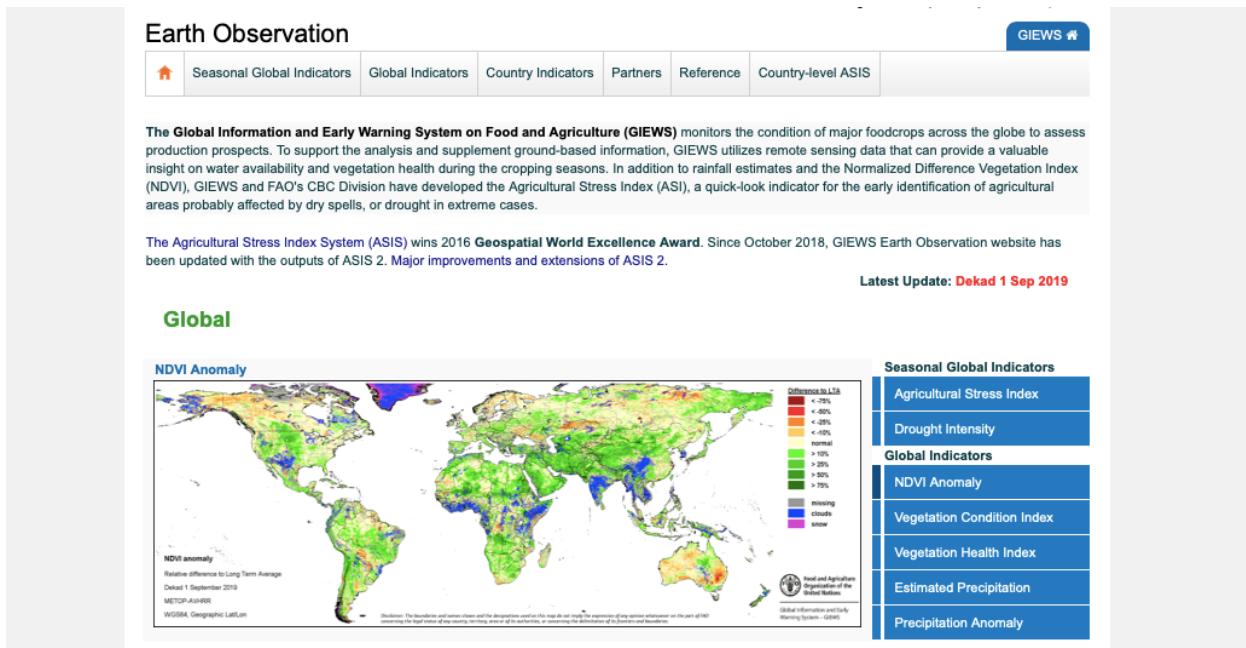
41. Global Information and Early Warning System on Food and Agriculture (GIEWS)

Type of tool: Spatial datasets

Organization: FAO

Description: The GIEWS monitors the condition of major foodcrops across the globe to assess production prospects. To support the analysis and supplement ground-based information, GIEWS utilizes remote sensing data that can provide a valuable insight on water availability and vegetation health during the cropping seasons.

Website: <http://www.fao.org/giews/earthobservation/index.jsp>



42. Global Livestock Environmental Assessment Model

Type of tool: Assessment, Guidelines

Organization: FAO

Description: GLEAM is a modelling framework that simulates the interaction of activities and processes involved in livestock production and the environment. The model can operate at (sub) national, regional and global scale.

Website: <http://www.fao.org/gleam/en/>



The screenshot shows the official website for the Global Livestock Environmental Assessment Model (GLEAM). At the top, the FAO logo and name are displayed, along with a search bar and links for various sections like About FAO and In Action. Below the header, a main title 'Global Livestock Environmental Assessment Model (GLEAM)' is centered. To its left is a sidebar with navigation links: Home, Model description, Results, In practice, Resources, Team, and FAQs. The 'Model description' link is currently active, indicated by a darker background. The main content area features a large photograph of a herd of cattle grazing near a body of water. To the left of the photo, there's a section titled 'What is GLEAM?' which provides a brief overview of the model's purpose and approach. Another section below it, 'GLEAM model in brief', offers a more detailed explanation of the model's scope and stages. On the right side of the main content area, there's a 'Featured' section with a thumbnail image and a link to 'Climate change and the global dairy cattle sector'.

43. Global Support Programme

Type of tool: Platform, Toolkit

Organization: UNEP, UNDP, GEF

Description: GSP provides support to non-Annex I Parties in order to prepare National Communications (NCs) and Biennial Update Reports (BURs) that are submitted to the UNFCCC. Parties will be provided technical backstopping, tools and targeted guidance, as well as training, to carry out the preparation of these reports. Site includes tools & guides, and guidance documents, as well country and regional profiles.

Website: <http://www.un-gsp.org>

The screenshot shows the homepage of the Global Support Programme. At the top, there is a dark navigation bar with a house icon, links for 'About GSP', 'Country Data', 'Experts', 'News and articles', 'Events', 'Topics', 'Best practices', 'Resources', and a search icon. Below the navigation bar, the 'GLOBAL SUPPORT PROGRAMME' logo is displayed next to the UNDP logo ('Empowered lives. Resilient nations.') and the UN Environment logo ('UN environment'). To the right, the GEF logo is shown. The main content area features a large photograph of a woman carrying a large pot on her head, smiling. A yellow sidebar on the left contains the text 'Supporting national plans of adaptation' and 'Identifying vulnerabilities from each country is key to mitigate the effects of climate change', with a 'Read more >' button. On the right, a dark box displays the text 'UPCOMING EV...' and 'No events available', with a 'View all >' button.

44. Good Practice Database

Type of tool: Knowledge Platform,

Organization: NDC Partnership

Description: This database provides a searchable repository of good practices and lessons learned from countries that have overcome obstacles and where climate action is being effectively designed and implemented.

Website: <http://ndcpartnership.org/good-practice-database>

The screenshot shows the homepage of the NDC Partnership Good Practice Database. At the top left is the NDC Partnership logo. To its right are navigation links: ABOUT US, HOW WE WORK, COUNTRY PAGES, KNOWLEDGE PORTAL, NEWS, and EVI. Social media icons for Twitter, Facebook, LinkedIn, and YouTube are also present. Below the header, a breadcrumb trail shows HOME > GOOD PRACTICE DATABASE. The main title "GOOD PRACTICE DATABASE" is prominently displayed. A paragraph describes the database as a searchable repository of good practices and lessons learned from countries that have overcome obstacles and where climate action is being effectively designed and implemented. It encourages users to click "here" for more information. A green button at the bottom left invites users to "EXPLORE GOOD PRACTICES". To the right of the main content area is a large green square featuring a white icon of a folder with a plant growing out of it, symbolizing environmental best practices.

45. Good Practice Guidance for Land Use, Land-Use Change and Forestry

Type of tool: Guideline documents

Organization: IPCC

Description: GPG-LULUCF provides supplementary methods and good practice guidance for estimating, measuring, monitoring and reporting on carbon stock changes and greenhouse gas emissions from LULUCF activities

Website: <https://www.ipcc-nngip.iges.or.jp/public/gpglulucf/gpglulucf.html>

The screenshot shows the official website of the Intergovernmental Panel on Climate Change (IPCC) Task Force on National Greenhouse Gas Inventories. The top navigation bar includes links for Home IPCC, IPCC-TFI Home, Organization, Publications, 2019 Refinement, Wetlands Supplement, KP Supplement, 2006 IPCC Guidelines, GPG-LULUCF, Degradation of Forest, GPG2000, Revised 1996 IPCC Guidelines, Technical Bulletins, Presentations, Support to Inventory Compilers, Emission Factor Database (EFDB), Inventory Software, and Meetings. The main content area is titled 'Publications' and features a yellow banner for the 'Good Practice Guidance for Land Use, Land-Use Change and Forestry'. Below this, there is a section for 'Language versions:' with links to Arabic, Chinese, English, French, Russian, and Spanish. A 'Get Adobe Reader' button is also present. To the right, there is a thumbnail image of the report cover and a detailed description of the document's purpose and scope.

Task Force on National Greenhouse Gas Inventories

IPCC INTERGOVERNMENTAL PANEL ON climate change WHO UNEP IPCC web sites

Publications

Good Practice Guidance for Land Use, Land-Use Change and Forestry

To download English PDF files and software (IPCC tool), click [here](#). Other language versions are [here](#).

Language versions:

English	Arabic, Chinese, French, Russian, Spanish
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Get Adobe Reader

This report on Good Practice Guidance for Land Use, Land-Use Change and Forestry (GPG-LULUCF) is the response to the invitation by the United Nations Framework Convention on Climate Change (UNFCCC) to the Intergovernmental Panel on Climate Change (IPCC) to develop good practice guidance for land use, land-use change and forestry (LULUCF). GPG-LULUCF provides supplementary methods and good practice guidance for estimating, measuring, monitoring and reporting on carbon stock changes and greenhouse gas emissions from LULUCF activities under Article 3, paragraphs 3 and 4, and Articles 6 and 12 of the Kyoto Protocol. The GPG-LULUCF assists countries in producing inventories for the land use, land-use change and forestry sector that are neither over- nor underestimates so far as can be judged, and in which uncertainties are reduced as far as

46. Green Finance for Latin America and the Caribbean Platform (GFL)

Type of tool: Platform

Organization: GFL

Description: The Green Finance for Latin America and the Caribbean Platform (GFL) is a knowledge exchange Platform that has been developed to support National Development Banks (NDBs) and other institutional players in the financial market to share knowledge and information on green finance. The GFL Platform showcases the latest trends and practices in developing and promoting green finance strategies and innovative risk-sharing mechanisms to scale up private investments in environmentally friendly businesses in different sectors, including energy, manufacturing, housing, transport, agriculture, forestry and services.

Website: <https://www.greenfinancelac.org/projects-map/>

The screenshot shows the GFL website's homepage. At the top right is a search bar with placeholder text "Enter your seo". Below the search bar is a navigation menu with links: Home, About us, Our Initiatives, Resources, Projects Map (which is highlighted in green), Events, News, Related Initiatives, LAB, Contact us, and Log In. To the left of the main content area is a sidebar with three dropdown menus: COUNTRY (Select), BENEFICIARY NAME (Select), and PROGRAM (with options ESI and ESRM). The main content area features a map of the region from California to Venezuela, with numerous green and orange triangles representing projects across various countries including Mexico, Cuba, Dominican Republic, Costa Rica, Panama, and Venezuela. The word "Mexico" is written vertically on the map.

47. Green Growth Knowledge Platform

Type of tool: Knowledge Platform

Organization: OECD, World Bank, UNEP

Description: The Green Growth Knowledge Platform (GGKP) is a global network of international organizations and experts that identifies and addresses major knowledge gaps in green growth theory and practice. By encouraging widespread collaboration and world-class research, the GGKP offers practitioners and policymakers the policy guidance, good practices, tools, and data necessary to support the transition to a green economy.

Website: <https://www.greengrowthknowledge.org>

The screenshot shows the homepage of the Green Growth Knowledge Platform. At the top, there is a navigation bar with links for About GGKP, Working Groups, Insights, Webinars, Events, News & Jobs, and a search bar. Below the navigation bar is a blue header bar with links for EXPLORE GREEN GROWTH, SECTORS, THEMES, COUNTRIES, PARTNERS, SOLUTIONS, DATABASES, and a SEARCH button. The main content area features a large banner for the "GO for SDGs" initiative, which includes a circular graphic with icons for various SDGs and text about the launch at the SDG Summit. To the right of the banner are three smaller news cards: one about the launch of the Green Industry Platform at HLPF in New York, one for the GGKP Annual Conference 2019, and one for a GGKP Webinar on measuring fossil fuel subsidies.

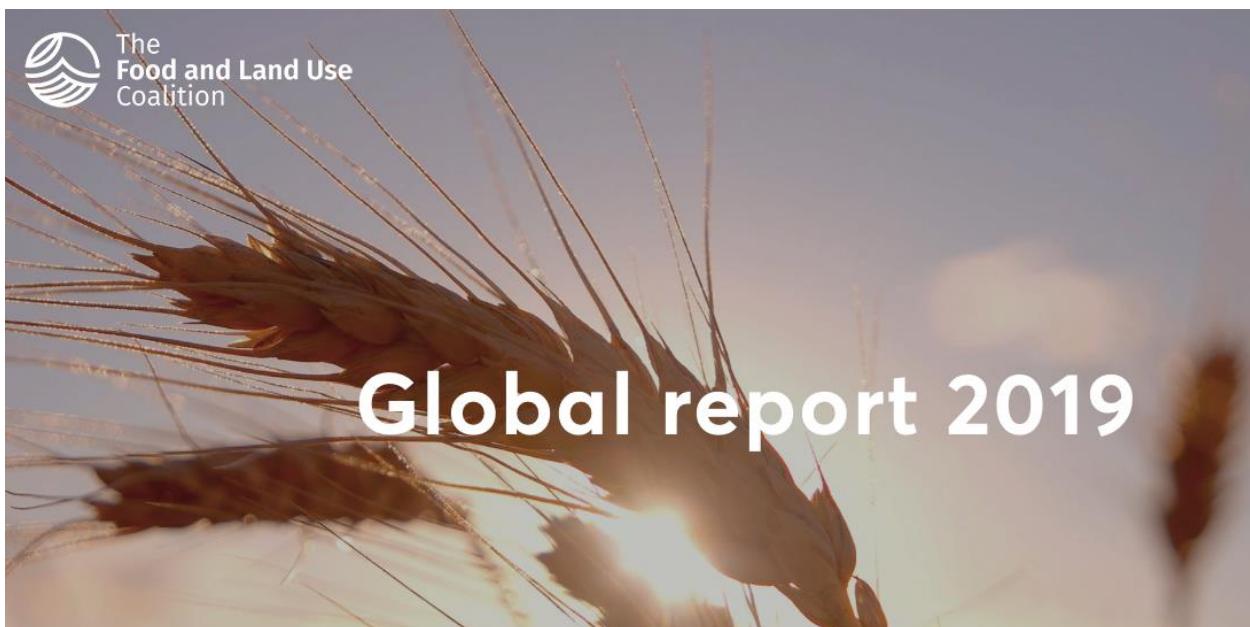
48. Growing Better: Ten Critical Transitions to Transform Food and Land Use

Type of tool: Guideline document

Organization: Food and Land Use Coalition (FOLU)

Description: The global report from the Food and Land Use Coalition (FOLU) proposes a reform agenda – centred around ten critical transitions – of real actionable solutions. These could deliver the needed change to boost progress towards the Sustainable Development Goals (SDGs) and the Paris Agreement, help mitigate the negative effects of climate change, safeguard biodiversity, ensure more healthy diets for all, drastically improve food security and create more inclusive rural economies.

Website: <https://www.foodandlandusecoalition.org/global-report/>



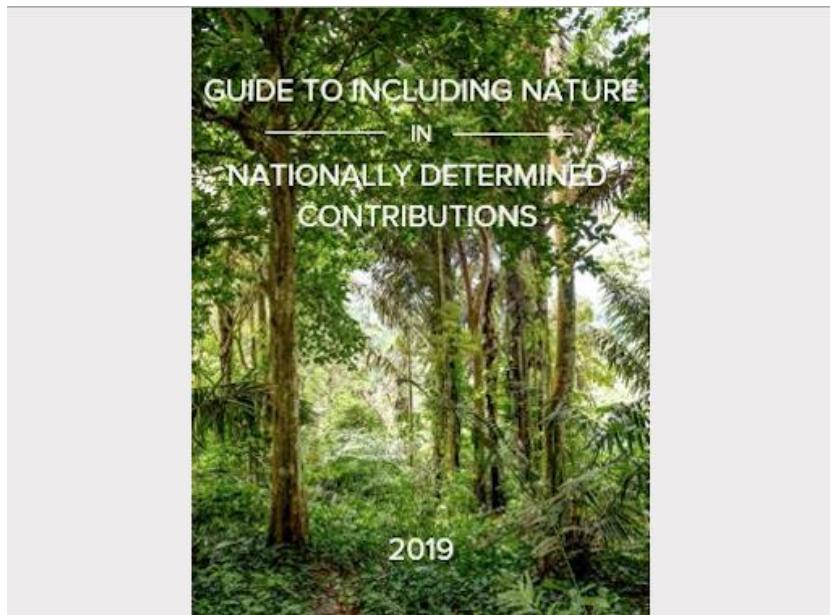
49. Guide to Including Nature in Nationally Determined Contributions

Type of tool: Guideline document

Organizations: Nature for Climate, Conservation International, The Nature Conservancy, Environmental Defense Fund, National Wildlife Federation, Land Use Knowledge Initiative, Climate Advisers

Description: Several environmental NGOs developed this checklist for including natural climate solutions in NDCs. The document is intended to support countries as they revise or update their NDCs to prioritize, integrate and implement climate action from nature as a pathway to increased ambition under the Paris Agreement.

Website: www.conservation.org/nature-in-ndcs



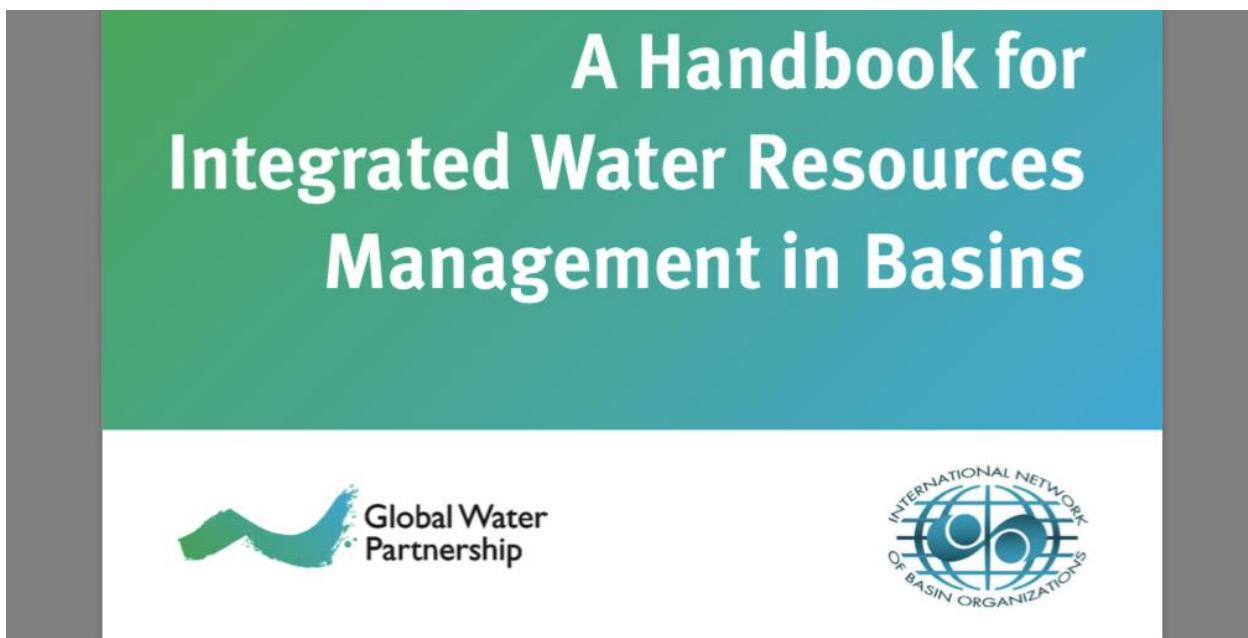
50. A Handbook for Integrated Water Resources Management in Basins

Type of tool: Guidance document

Organization: Global Water Partnership (GWP)

Description: The Handbook provides practical guidance for improving the governance of freshwater resources, in particular through effective application of the integrated water resources management (IWRM) approach in lake and river basins, and aquifers.

Website: <https://www.gwp.org/globalassets/global/toolbox/references/a-handbook-for-integrated-water-resources-management-in-basins-inbo-gwp-2009-english.pdf>



51. Increasing ambition & action on NDCs through FLR

Type of tool: Guideline document, Database

Organization: IUCN

Description: This in-depth analysis serves as a source of analytical information based on countries' political instruments, namely NDCs, for reflecting on current and potential climate ambition to contribute to achieving the Paris Agreement. The analysis is intended to trigger discussions on the opportunities to scale up climate action through forest landscape restoration.

Website: <https://infoflr.org/what-flr/increasing-ambition-and-action-ndcs-through-flr>

The screenshot shows the INFOFLR website. At the top, there is a navigation bar with links for Home, What is FLR? (which is highlighted in green), Bonn Challenge, and The Barometer. Below the navigation bar, there is a breadcrumb trail: Home / What is FLR? / . The main content area features a large title: "INCREASING AMBITION AND ACTION ON NDCS THROUGH FLR". To the left of the title is a sidebar with a green header "What is FLR?" containing links to "Types of FLR", "Benefits of FLR", "FLR tools", and "ROAM". The main text discusses the gap between recognized forest role and actual NDC targets and how FLR can bridge it.

While countries have broadly recognised the role of forests in climate change mitigation and adaptation in their Nationally Determined Contributions (NDCs), this ambition is not fully reflected in the targets they have set. As governments embark on the process of reviewing their NDCs, IUCN and Climate Focus conducted an in-depth analysis of the NDCs submitted by countries under the Paris

52. InforMEA

Type of tool: Knowledge Platform, e-Courses

Organization: UNEP

Description: This platform allows easy access to Multilateral Environmental Agreements and international environmental law. Users are able to search Treaty Texts and over 10,000 governing body decisions, internationally agreed goals and targets, and over 100,000 pieces of national legislation and jurisprudence. Users are also able to access a learning section with 25 free online courses (including topics such as international environmental law and chemicals and waste), party profiles (including national focal points), treaty profiles, and more.

Website: <https://www.informeа.org>

The screenshot shows the InforMEA website homepage. At the top is a navigation bar with the InforMEA logo, followed by links for TREATIES, PARTIES, LAW & CASES, EVENTS, GLOSSARY, GOALS, MORE+, and FREE ONLINE COURSES. Below the navigation is a blue header bar with the text "Access information on Multilateral Environmental Agreements". Underneath is a search bar with "Search" and "in:" dropdown menus. The main content area features a "Browse Information by Environmental Topic:" section with six circular icons, each representing a different environmental topic: Biological diversity (green), Chemicals and Waste (red), Climate and Atmosphere (blue), Environmental Governance (green), Land and Agriculture (orange), and Marine and Freshwater (blue).



Biological diversity



Chemicals and Waste



Climate and Atmosphere



Environmental Governance



Land and Agriculture



Marine and Freshwater

53. Initiative for Climate Action Transparency (ICAT) Guidance on Agriculture

Type of tool: Guideline document

Organization: ICAT

Description: The Agriculture Guidance supports the assessment of the GHG impacts of agricultural policies and actions. This guidance fills a gap in currently available guidance, which includes project-level agricultural GHG accounting, but does not include GHG accounting at the agricultural policy level.

Website: <https://climateactiontransparency.org/icat-guidance/agriculture-sector/>



54. Initiative for Climate Action Transparency (ICAT) Guidance on Forests

Type of tool: Guideline documents

Organization: ICAT

Description: The Forest Guidance supports the assessment of GHG impacts for policies in the sector. Drawing from available guidance for GHG quantification at the national and project levels, this guidance aims to streamline and simplify GHG assessment for policy-level accounting.

Website: <https://climateactiontransparency.org/icat-guidance/forest-sector/>



55. InVEST - Integrated Valuation of Ecosystem, Services and Tradeoffs

Type of tool: Technical Software, Spatial Datasets, Finance

Organization: Natural Capital Project

Description: InVEST is a suite of free, open-source software models used to map and value the goods and services from nature that sustain and fulfill human life. InVEST enables decision makers to assess quantified tradeoffs associated with alternative management choices and to identify areas where investment in natural capital can enhance human development and conservation. The toolset currently includes eighteen distinct ecosystem service models designed for terrestrial, freshwater, marine, and coastal ecosystems, as well as a number of "helper tools" to assist with locating and processing input data and with understanding and visualizing outputs.

Website: <https://naturalcapitalproject.stanford.edu/invest/#what-is-invest>

The screenshot shows the Natural Capital Project website. At the top, there's a dark red header bar with the text "Stanford University". Below it is a white navigation bar with the "natural capital PROJECT" logo on the left. To the right are links for "Stanford Hub", "About Us", "Our Work", "InVEST", "All Software", "Learn", and "Get Involved". A horizontal line separates this from the main content area. The main content area has a green background. In the center, the word "InVEST" is written in large, white, sans-serif letters. Below it, in smaller white text, is the tagline "integrated valuation of ecosystem services and tradeoffs".

Our flagship tool with models for mapping and valuing ecosystem services provided by land- and seascapes.

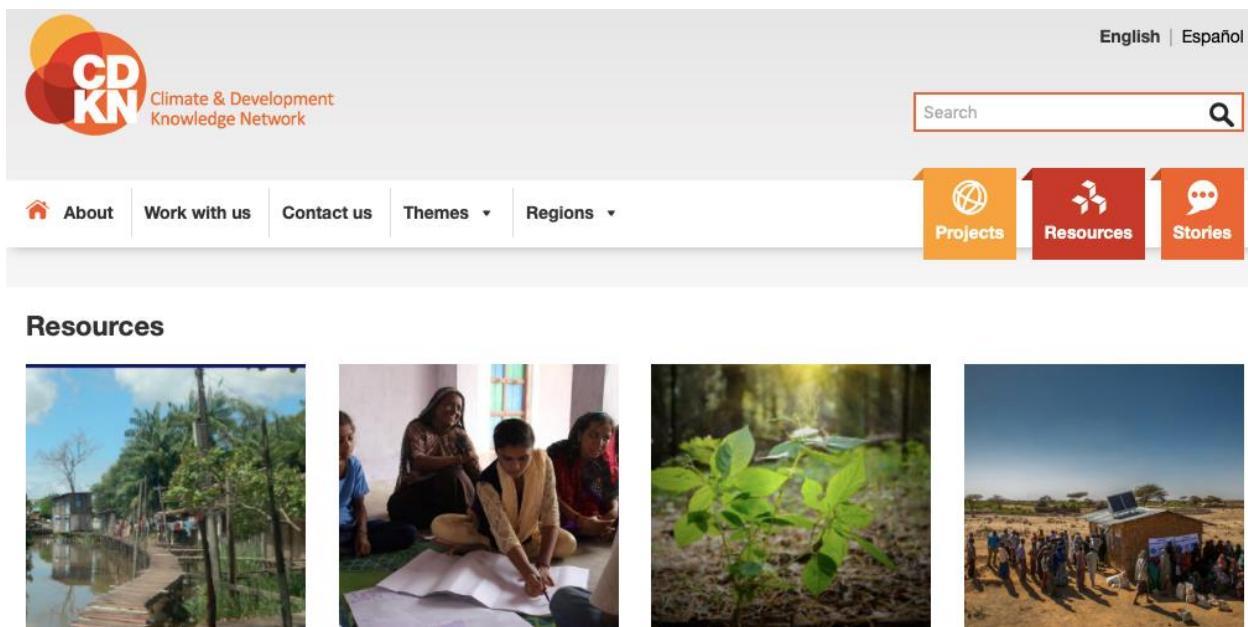
56. Knowledge Navigator

Type of tool: Knowledge Platform, Guidance

Organization: IDS Knowledge Services, CDKN

Description: The Knowledge Navigator widget is an online application that helps you to find and easily access selected climate change platforms. These platforms, or initiatives, host and link to material from more than one institution or source, and are distinct from an institutional website.

Website: https://cdkn.org/resources/?loclang=en_gb



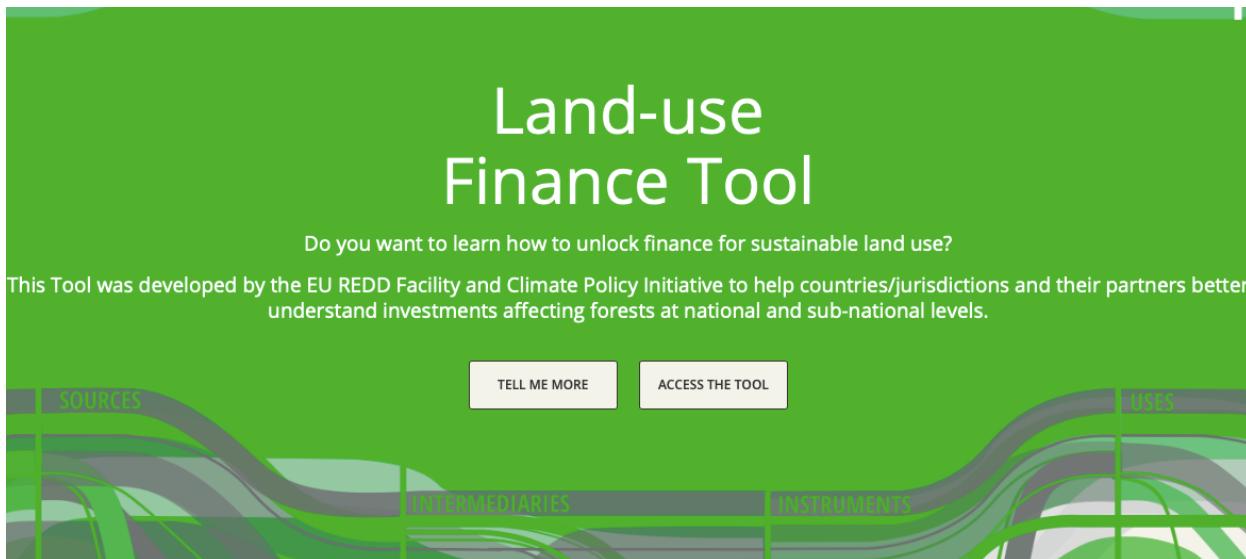
57. Land-use Finance Toolbox

Type of tool: Toolbox, Finance

Organization: EU REDD Facility, Climate Policy Initiative (CPI)

Description: The Land-Use Finance Toolbox is a set of guidelines, templates and training materials to analyze the life cycle of financial flows related to land-use. The toolbox builds the capacity of national stakeholders to analyze land-use finance and develop investment strategies, funding proposals and public-private partnerships.

Website: <https://landusefinance.org>



58. Learning tool on Nationally Appropriate Mitigation Actions (NAMAs) in the agriculture, forestry, and other land-use sectors.

Type of tool: Guideline

Organization: FAO

Description: Through this tool, FAO supports developing countries to identify, develop and implement NAMAs in the context of national sustainable development, thus contributing to national and global climate change mitigation goals.

Website: <http://www.fao.org/3/a-i4642e.pdf>



Food and Agriculture Organization
of the United Nations



**Learning tool on Nationally Appropriate
Mitigation Actions (NAMAs) in the agriculture,
forestry and other land use (AFOLU) sector**

59. Livestock Environmental Assessment and Performance (LEAP) Partnership.

Type of tool: Platform, Assessment

Organization: FAO

Description: This multi-stakeholder partnership develops harmonized metrics and methodologies to measure environmental performance and GHG emissions in livestock supply chains.

Website: www.fao.org/partnerships/leap

The screenshot shows the homepage of the LEAP Partnership website. At the top, there is a blue header bar with the FAO logo, the text "Food and Agriculture Organization of the United Nations", a search bar, and links for "About FAO", "In Action", "Countries", "Themes", "Media", "Publications", "Statistics", and "Partnerships". Below the header, there is a navigation bar with links for "Overview", "Partners", "Activities", "Publications", "Database", and "News and Events". The main content area features a large image of a document titled "Environmental performance of feed additives in livestock supply chains" with several tables and graphs. The LEAP logo, which includes a stylized animal head icon and the word "leap", is positioned next to the document image.

60. Mapping land management, degradation and conservation including driver, state and impacts

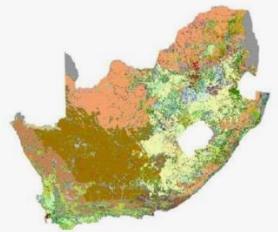
Type of tool: Assessment

Organization: World Overview of Conservation Approaches and Technologies (WOCAT)

Description: Tool for mapping land management, land degradation, and SLM, and assessing drivers, state of the land, and on- and off-site impacts (within a landscape, watershed, or region).

Website: <https://www.wocat.net/library/media/18/>

PDF	Word	
 Questionnaire for Mapping Land Degradation and Sustainable Land Management (English) 1.7 MB Download	 Questionnaire for Mapping Land Degradation and Sustainable Land Management (English) 2.7 MB Download	 
 Questionnaire for Mapping Land Degradation and Sustainable Land Management (French) 593.0 KB Download	 Questionnaire for Mapping Land Degradation and Sustainable Land Management (French) 14.6 MB Download	
 Questionnaire for Mapping Land Degradation and Sustainable Land Management (Spanish) 652.0 KB Download	 Questionnaire for Mapping Land Degradation and Sustainable Land Management (Spanish) 17.0 MB Download	
 Questionnaire for Mapping Land Degradation and Sustainable Land Management (Arabic) Download	 Questionnaire for Mapping Land Degradation and Sustainable Land Management (Arabic) Download	Questionnaire for Mapping Land Degradation and Sustainable Land Management. (QM) VERSION 1.0



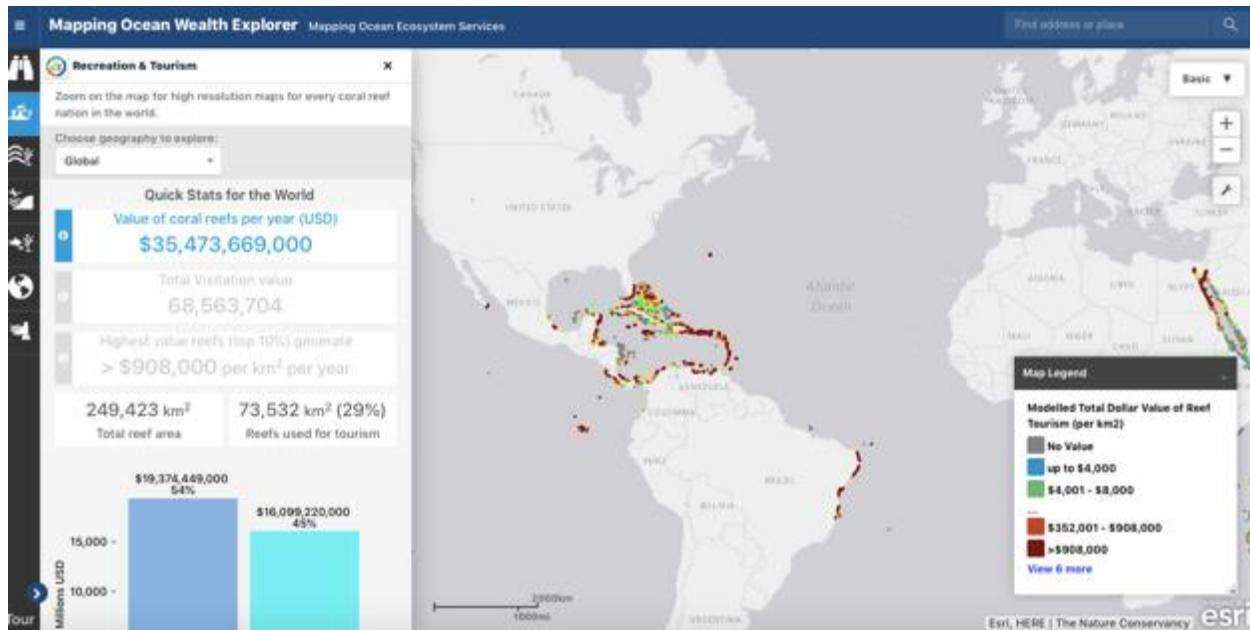
61. Mapping Ocean Health Explorer

Type of tool: Spatial datasets

Organization: The Nature Conservancy

Description: The Explorer offers sets of spatial data on ocean ecosystem services: economic value, carbon storage, climate adaptation, etc.

Website: <http://maps.oceanwealth.org>



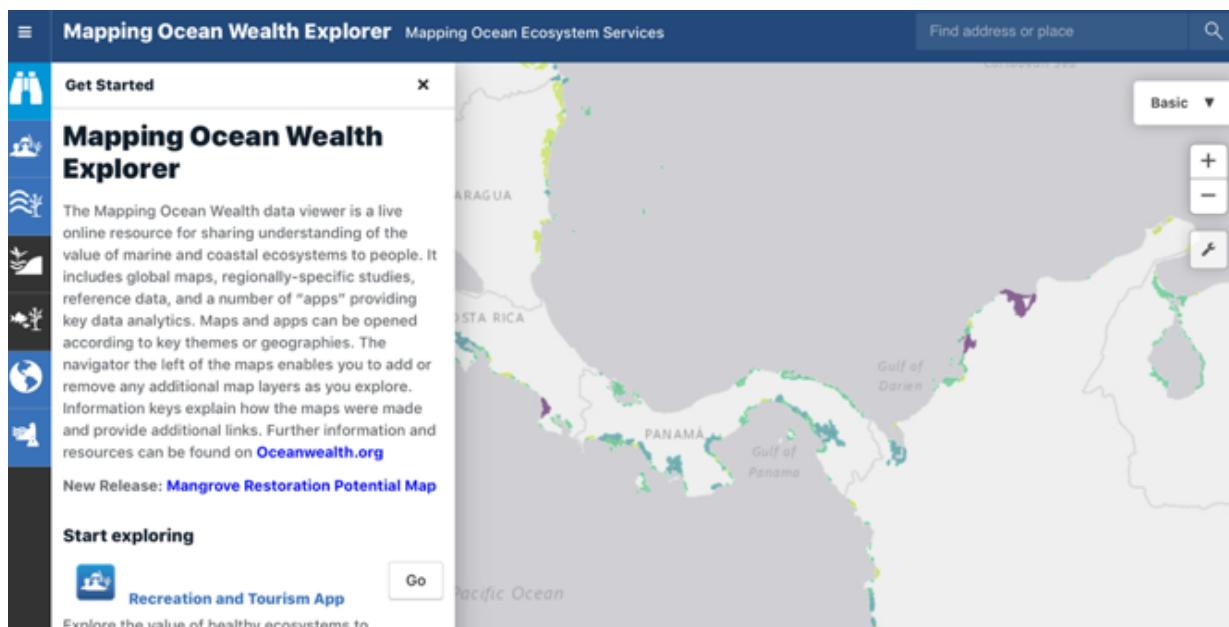
62. Mapping Ocean Wealth Explorer

Type of tool: Platform, Spatial Dataset

Organization: The Nature Conservancy

Description: The Mapping Ocean Wealth data viewer is a live online resource for sharing understanding of the value of marine and coastal ecosystems to people. It includes global maps, regionally-specific studies, reference data, and a number of "apps" providing key data analytics. Maps and apps can be opened according to key themes or geographies.

Website: <http://maps.oceanwealth.org>



63. Mapping to support REDD+ planning and secure multiple benefits: toolbox and tutorials for QGIS and ArcGIS

Type of tool: Toolkit, Guideline document

Organization: UNEP

Description: GIS training materials and tools have been developed for use in planning REDD+ activities that deliver multiple benefits. These resources are designed to assist technical staff to undertake spatial analysis to identify areas suitable for specific REDD+ policies and measures, and which are likely to yield multiple benefits.

Website: <https://www.unep-wcmc.org/resources-and-data/mapping-to-support-redd-planning-and-secure-multiple-benefits--toolbox-and-tutorials-for-qgis-and-arcgis>

The screenshot shows a webpage from the UN Environment World Conservation Monitoring Centre (WCMC). The main title is "Mapping to support REDD+ planning and secure multiple benefits: toolbox and tutorials for QGIS and ArcGIS". Below the title, it says "Online Tool 2017". A detailed description follows: "GIS training materials and tools have been developed for use in planning REDD+ activities that deliver multiple benefits. These resources are designed to assist technical staff to undertake spatial analysis to identify areas suitable for specific REDD+ policies and measures, and which are likely to yield multiple benefits. Materials have been developed for both QGIS (open-source) and ArcGIS software, according to the needs of individual partner countries. The materials continue to be developed and tested with country partners, with tutorial versions in other languages on the way." At the bottom, there's a section titled "STEP-BY-STEP TUTORIALS: USING SPATIAL INFORMATION TO SUPPORT DECISIONS ON SAFEGUARDS AND MULTIPLE BENEFITS FOR REDD+" with a link "(1) Open-source: QGIS 1.8 and 2.8". To the left, there are two boxes: "Policies" and "Biodiversity Heritage Library".

Policies
UN Environment World Conservation Monitoring Centre does not assert any intellectual property rights in the data made available to it by data providers.
access to UN Environment World Conservation Monitoring Centre datasets is provided on the understanding that you read and consent to be bound by the terms and conditions set out in our policies.
[View our policies](#)

Biodiversity Heritage Library
Search WCMC's historical publications
[View](#)

STEP-BY-STEP TUTORIALS: USING SPATIAL INFORMATION TO SUPPORT DECISIONS ON SAFEGUARDS AND MULTIPLE BENEFITS FOR REDD+

(1) [Open-source: QGIS 1.8 and 2.8](#)

Open-source software is released under a license that allows software to be freely used, modified, and shared (<http://opensource.org/licenses>). Therefore, using open source software has great potential in building sustainable capacity and a critical mass of experts

64. NAP Central

Type of tool: Knowledge platform, Assessments

Organization: UNFCCC

Description: NAP Central facilitates access to data, information and knowledge on adaptation assessment, planning and implementation to all relevant stakeholders in LDCs and other countries that are developing national adaptation plans.

Website: <http://www4.unfccc.int/nap/Pages/Home.aspx>

The screenshot shows the homepage of the NAP Central website. At the top left is the UNFCCC logo with 'NAP Central' next to it. A horizontal navigation bar follows, with 'HOME' underlined. Below the navigation is a large photograph of a group of people standing in shallow water at sunset. Underneath this image is a section titled 'HIGHLIGHTS' with three smaller images and their respective links: 'National Adaptation Plans >', '2015 LEG Publications >', and 'NAP Support Tracker >'.

65. NAP Global Network

Type of tool: Knowledge platform, Toolbox

Organization: International Institute for Sustainable Development (IISD)

Description: The National Adaptation Plan (NAP) Global Network harnesses the collective knowledge and resources of governments, practitioners, donors and civil society to accelerate and scale up efforts in national adaptation planning and implementation. The platform provides access to reports and webinars related to financing, gender, bilateral support, M&E, NDC-NAP linkages, and adaptation.

Website: <https://www.transparency-partnership.net>

The screenshot shows the homepage of the NAP Global Network website. At the top, there is a navigation bar with links for 'ABOUT', 'ACTIVITIES', 'KEY THEMES', 'SUPPORT FOR COUNTRIES', 'BLOG', 'RESOURCES', and 'NEWS & EVENTS'. On the right side of the header, there are language links ('Français | Español | Português') and a search bar. Below the header, there is a large image of a smiling young girl holding water. To the left of the image, there is a section titled 'NATIONAL-LEVEL ACTION' with a sub-section about short-term and long-term technical assistance for national adaptation plan development and implementation. A 'LEARN MORE' button is located below this text. The overall design is clean and professional, with a focus on the image of the child and the text about national-level action.

66. National Biodiversity Strategies and Action Plans

Type of tool: Website with key information

Organization: United Nations Convention on Biological Diversity

Description: In this website you can find all the National Biodiversity Strategies and Action Plans (NBSAPs)

Website: <https://www.cbd.int/nbsap/>

The screenshot shows the homepage of the Convention on Biological Diversity website. At the top, there is a navigation bar with links to 'The Convention', 'Cartagena Protocol', 'Nagoya Protocol', 'Programmes', 'Information', and 'Secretariat'. Below the navigation bar is a banner featuring various images related to biodiversity, such as a face, a bee, a flower, and spices. On the left side, there is a sidebar with links to 'Home', 'What is an NBSAP?', 'Latest NBSAPs submitted', 'Find an NBSAP or National Report', 'Find National Targets', and 'COP Guidance on NBSAPs'. The main content area features a large heading 'National Biodiversity Strategies and Action Plans (NBSAPs)'. Below the heading, a text box states: 'To date, in accordance with Article 6 of the Convention, 190 of 196 (97%) Parties have developed at least one NBSAP. [More >](#)' To the right of this text is a bar chart titled 'NBSAP Status' with three bars representing different categories: 168, 185, and 196.

67. National Communication submissions from Non-Annex I Parties

Type of tool: Guideline documents

Organization: IPCC

Description: The in-depth review reports aim to facilitate the work of the COP in assessing the implementation of commitments by Annex I Parties. The reports also allow easier comparison of information between NCs of Parties, although no common indicators are employed.

Website: <https://unfccc.int/process/transparency-and-reporting/reporting-and-review-under-the-convention/national-communications-and-biennial-reports--annex-i-parties/international-assessment-and-review/review-reports>



National Communication submissions from Non-Annex I Parties

Non-Annex I Parties are required to submit their first NC within three years of entering the Convention, and every four years thereafter. The NCs shall be prepared in accordance with the guidelines contained in decision [D.17/CP.18](#).

From 2017, the NCs shall be submitted using the [National Reports Submission Portal \(NRSP\)](#). Questions relating to the use of the submission portal should be addressed to reporting_nai@unfccc.int

HOW TO SUBMIT

[NAI NC submission procedures](#)

USEFUL LINKS

[Submitted Biennial Update Reports \(BURs\)](#)

68. National REDD+ Strategies and Actions

Type of tool: Website with key information

Organization: United Nations Framework Convention on Climate Change

Description: In this website you can find all the National REDD+ Strategies and Actions

Website: <https://redd.unfccc.int/fact-sheets/national-strategy.html>

The screenshot shows the REDD+ Web Platform interface. At the top, there's a navigation bar with links for HOME, FACT SHEETS (which is underlined in blue), SUBMISSIONS, INFO HUB, FORUM, MEETINGS, and CONTACT. Below the navigation is a main content area titled "National strategy or action plan". This section contains text about the importance of national strategies and actions, followed by a paragraph about the Lima REDD+ Information Hub. It also lists "Most relevant COP decisions: 1/CP.16, 9/CP.19". A green horizontal bar below this section is labeled "Countries that provided a submission on this topic". Under this bar, there are four country names: Argentina, Brazil, Cambodia (in the first column); Chile, Colombia, Ecuador (in the second column); India, Malaysia, Mexico (in the third column); and Paraguay (in the fourth column).

REDD+ WEB PLATFORM

HOME FACT SHEETS SUBMISSIONS INFO HUB FORUM MEETINGS CONTACT

National strategy or action plan

A national strategy or action plan is one of the elements to be developed by developing country Parties implementing REDD+ activities (according to paragraph 71 of decision 1/CP.16). This national strategy or action plan is highly dependent upon national circumstances.

During the development and implementation of national strategies or action plans, developing countries should address, inter alia: the drivers of deforestation and forest degradation, land tenure issues, forest governance issues, gender considerations and the **REDD+ safeguards** including the full and effective participation of relevant stakeholders, inter alia indigenous peoples and local communities. At the same time, the COP recognized the importance and necessity of adequate and predictable financial and technology support for developing the national strategy or action plan.

In seeking to obtain and receive results-based payments for their REDD+ results-based actions, developing countries should have a national strategy or action plan in place, in accordance with decision 9/CP.19, and a link to the national strategy or action plan should also be provided in the Lima REDD+ Information Hub.

Most relevant COP decisions: [1/CP.16](#), [9/CP.19](#)

Countries that provided a submission on this topic

Argentina Brazil Cambodia	Chile Colombia Ecuador	India Malaysia Mexico	Paraguay
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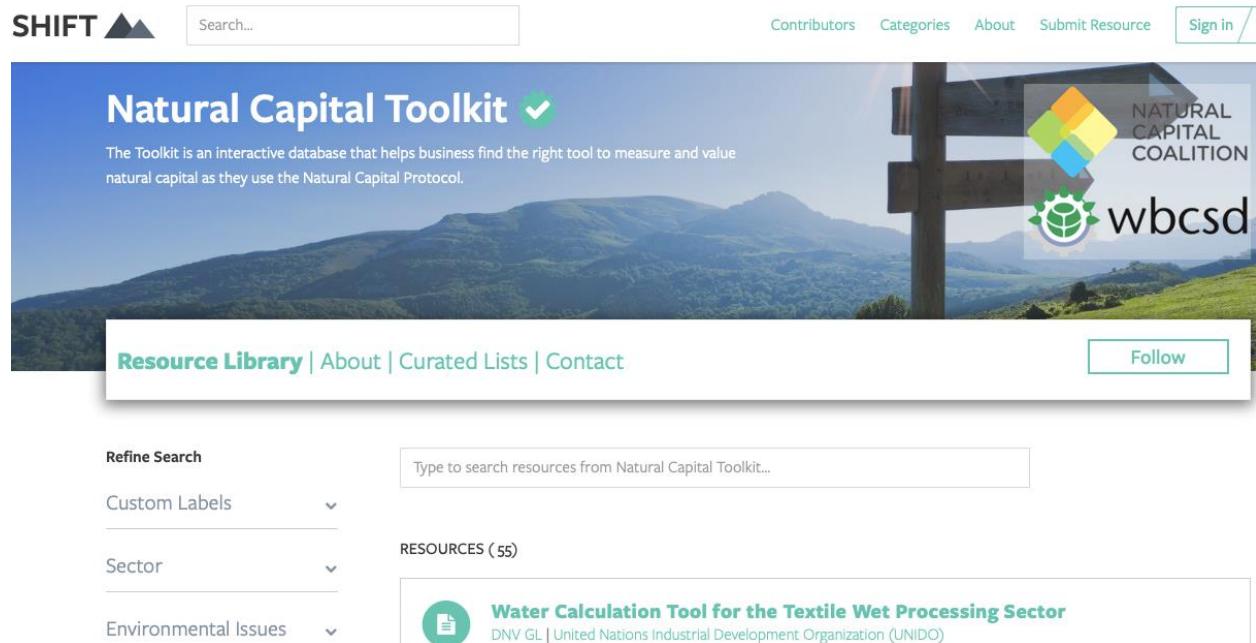
69. Natural Capital Toolkit

Type of tool: Toolbox

Organization: Shift

Description: The toolkit is an interactive database that helps users find the right tool to measure and value natural capital.

Website: <https://shift.tools/contributors/551>



The screenshot shows the homepage of the Natural Capital Toolkit. At the top, there is a navigation bar with links for 'Contributors', 'Categories', 'About', 'Submit Resource', and 'Sign in'. Below the navigation is a banner featuring a landscape image of mountains and hills. On the right side of the banner are logos for 'NATURAL CAPITAL COALITION' and 'wbcisd'. The main content area has a blue header with the text 'Natural Capital Toolkit' and a checkmark icon. Below the header, a subtext reads: 'The Toolkit is an interactive database that helps business find the right tool to measure and value natural capital as they use the Natural Capital Protocol.' At the bottom of the main content area, there are links for 'Resource Library', 'About', 'Curated Lists', and 'Contact'. To the right of these links is a 'Follow' button. On the left side of the page, there is a sidebar titled 'Refine Search' with dropdown menus for 'Custom Labels', 'Sector', and 'Environmental Issues'. A search bar is also present in the sidebar. The main content area below the sidebar shows a list of resources under the heading 'RESOURCES (55)'. One resource is highlighted: 'Water Calculation Tool for the Textile Wet Processing Sector' by DNV GL and United Nations Industrial Development Organization (UNIDO), accompanied by a document icon.

70. Natural Climate Solutions - Research paper

Type of tool: Guideline document

Organization: PNAS (Griscom et. al. 2017)

Description: Open access research paper that identifies and quantifies "natural climate solutions" (NCS): 20 conservation, restoration, and improved land management actions that increase carbon storage and/or avoid greenhouse gas emissions across global forests, wetlands, grasslands, and agricultural lands. It offers country CO₂ equivalent mitigation potential, and NCS cost-effectiveness and co-benefits analysis.

Website: <https://www.pnas.org/content/114/44/11645>

The screenshot shows the homepage of the Proceedings of the National Academy of Sciences of the United States of America (PNAS). The header features the PNAS logo and the journal's name. A search bar is located in the top right corner. Below the header, there is a navigation menu with links for Home, Articles, Front Matter, News, Podcasts, and Authors. The 'Articles' link is highlighted. A dropdown menu under 'NEW RESEARCH IN' allows users to filter by Physical Sciences or Social Sciences. The main content area displays the title 'Natural climate solutions' in large, bold, black font. Below the title is a list of authors: Bronson W. Griscom, Justin Adams, Peter W. Ellis, Richard A. Houghton, Guy Lomax, Daniela A. Miteva, William H. Schlesinger, David Shoch, Juha V. Siikamäki, Pete Smith, Peter Woodbury, Chris Zganjar, Allen Blackman, João Campari, Richard T. Conant, Christopher Delgado, Patricia Elias, Trisha Gopalakrishna, Marisa R. Hamsik, Mario Herrero, Joseph Kiesecker, Emily Landis, Lars Laestadius, Sara M. Leavitt, Susan Minnemeyer, Stephen Polasky, Peter Potapov, Francis E. Putz, Jonathan Sanderman, Marcel Silvius, Eva Wollenberg, and Joseph Fargione. To the right of the author list is a small 'Check for updates' button.

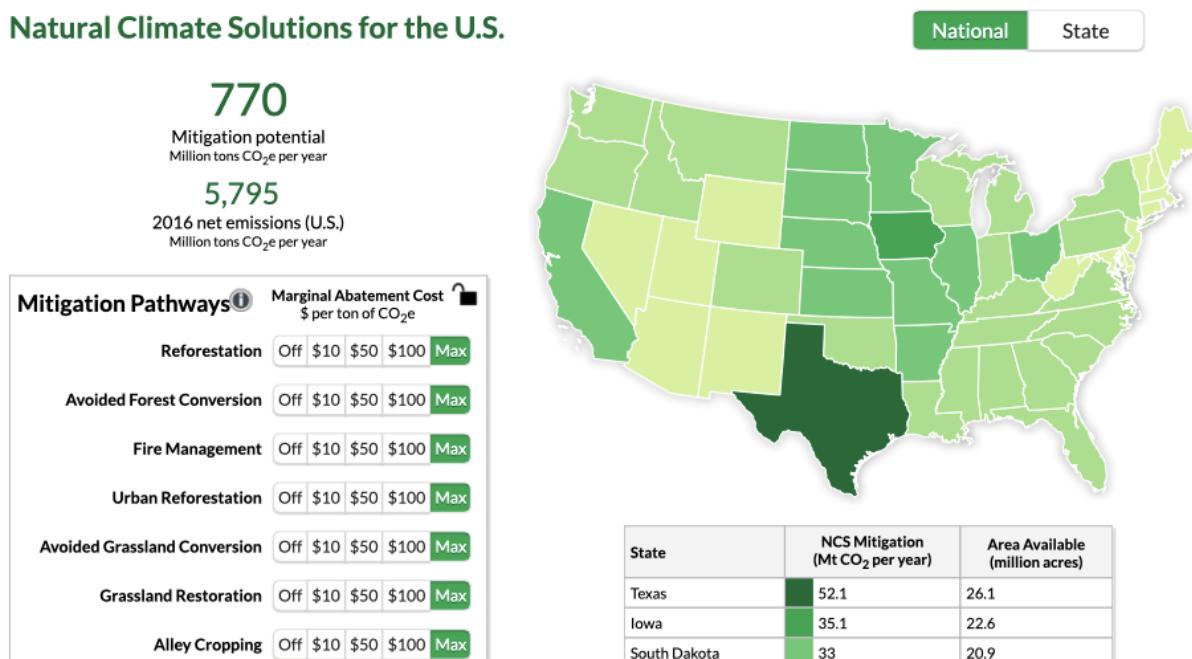
71. Natural Climate Solutions US State Mapper

Type of tool: Spatial dataset

Organization: Nature4Climate and The Nature Conservancy

Description: The NCS US State Mapper is an online tool developed by Nature4Climate with support from The Nature Conservancy that shows the climate mitigation potential of natural climate solution (NCS) in the United States. The mapper is built around 11 approaches at the US national and state level that demonstrate the mitigation potential NCS activities could achieve by reducing overall greenhouse gas emissions. Discover the many ways that nature and working lands can reduce emissions depending on the cost and our level of ambition.

Website: <https://nature4climate.org/u-s-carbon-mapper/>



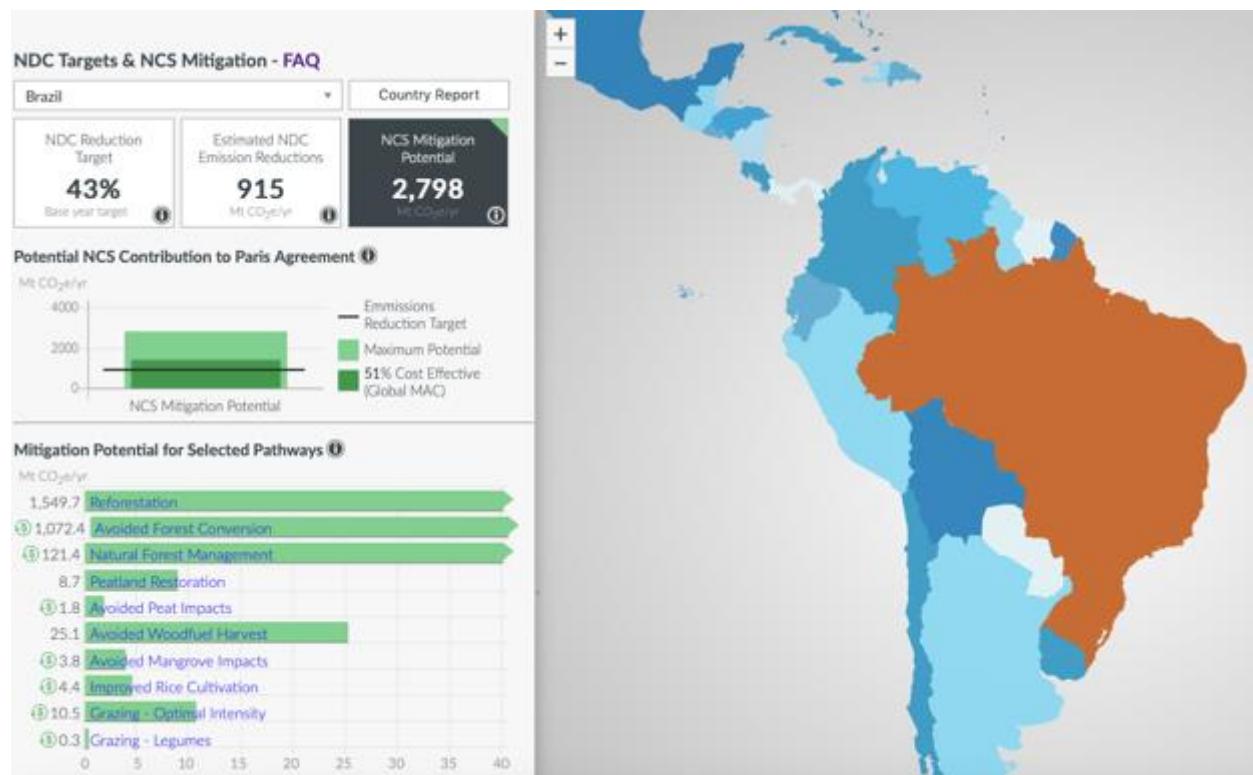
72. Natural Climate Solutions World Atlas

Type of tool: Spatial dataset

Organization: Nature4Climate

Description: The NCS World Atlas offers estimations, based on global datasets, of the activities that involve specific conservation, restoration, and/or improved land management actions (Nature-Based Solutions) that practitioners may take to avoid emissions and/or enhance sequestration.

Website: <https://nature4climate.org/n4c-mapper/>



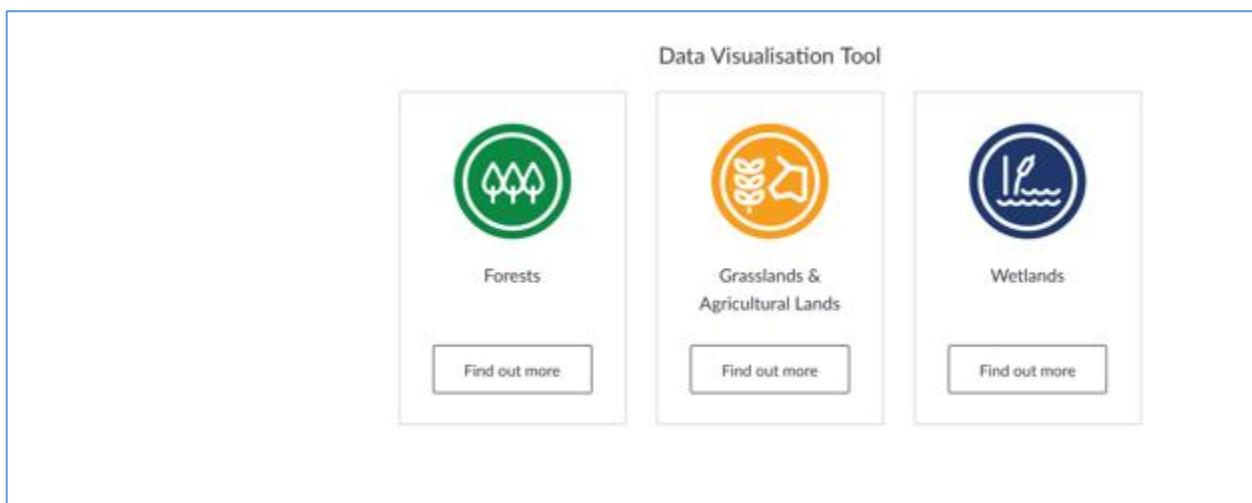
73. Natural Pathways to Climate Mitigation

Type of tool: Knowledge Platform, Guidelines

Organization: Nature4Climate

Description: Knowledge platform with data visualization tools and scientific analysis on natural pathways to climate mitigation, including forests, wetlands, and grasslands and agricultural lands.

Website: <https://nature4climate.org/science/n4c-pathways/>



74. Natural Solutions Toolkit

Type of tool: Platform, Toolkit

Organization: The Nature Conservancy

Description: Mapping tool platform and a suite of web apps across coastal, floodplain, freshwater, land and ocean environments.

Website: https://www.conservationgateway.org/ConservationPractices/Marine/crr/library/Documents/TNC_CoastalResilience_NST2017.pdf



NATURAL SOLUTIONS TOOLKIT

GEOSPATIAL DECISION SUPPORT TOOLS AND
WEB APPS TO CATALYZE CONSERVATION

Technology accelerates everything it is applied to. It holds the promise to propel conservation solutions so that they scale to global environmental challenges. The Nature Conservancy (TNC), along with global, regional and local partners, have developed the **Natural Solutions Toolkit**—a mapping tool platform and a suite of web apps across coastal, floodplain, freshwater, land and ocean environments. The first program to be established within the Toolkit was Coastal Resilience, which began in 2007; it now represents the largest geospatial decision support system for conservation and climate adaptation at TNC.

With a common goal of highlighting the value of nature in reducing risk and enhancing resilience locally and globally, the Toolkit provides powerful science and technology resources for planning.

SOLUTIONS & ACTIONS

75. Naturally Resilient Communities

Type of tool: Platform, Dataset

Organization: The Nature Conservancy

Description: Naturally Resilient Communities is a partnership of county governments, professional engineers, community planners, floodplain managers, and conservationists. The partnership is focused on helping communities use nature-based solutions that address multiple needs, with a focus on reducing impacts from floods and storms, improved water quality, enhanced recreational opportunities, and better habitat for fish and wildlife. We promote the best examples of communities that use nature-based solutions to solve multiple problems and produce multiple benefits.

Website: <http://nrcsolutions.org/strategies/#solutions>

The screenshot shows the 'Explore Solutions & Case Studies' section of the website. At the top, there are tabs for 'SOLUTIONS' (30 Results) and 'CASE STUDIES' (23 Results). Below this, a large yellow panel asks 'WHAT KIND OF HAZARDS DOES YOUR CITY FACE?' and lists three options: 'COASTAL EROSION', 'TIDAL FLOODING', and 'COASTAL FLOODING'. Each option includes a small diagram and a 'Select' button. To the left of this panel is a sidebar with 'HELP ME CHOOSE' sections for 'Hazard Types' (Coastal Erosion, Tidal Flooding, Coastal Flooding, Riverine Erosion, Riverine Flooding, Stormwater Flooding) and 'Region' (Coastal West, Great Lakes, Gulf of Mexico, Mid-Atlantic, Midwest, Northeast, Pacific Northwest, Rocky Mountain West).

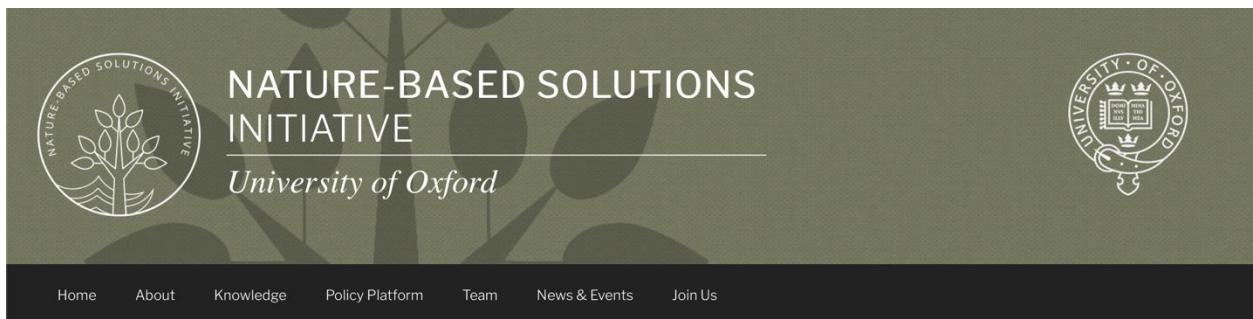
76. Nature Based Solutions in Action

Type of tool: Knowledge Platform, Assessment

Organization: UNEP

Description: Examples of how working with nature can provide multiple benefits, especially in terms of helping local communities deal with the impacts of climate change. The projects showcased here focus on NBS for climate change adaptation

Website: <https://www.naturebasedsolutionsinitiative.org/nbs-in-action/>



Nature-based Solutions in Action



Here are some real-life examples of how working with nature can provide multiple benefits, especially in terms of helping local communities deal with the impacts of climate change. The projects showcased here focus on Nbs for climate change adaptation and are being supported by the [United Nations Environment Programme](#).

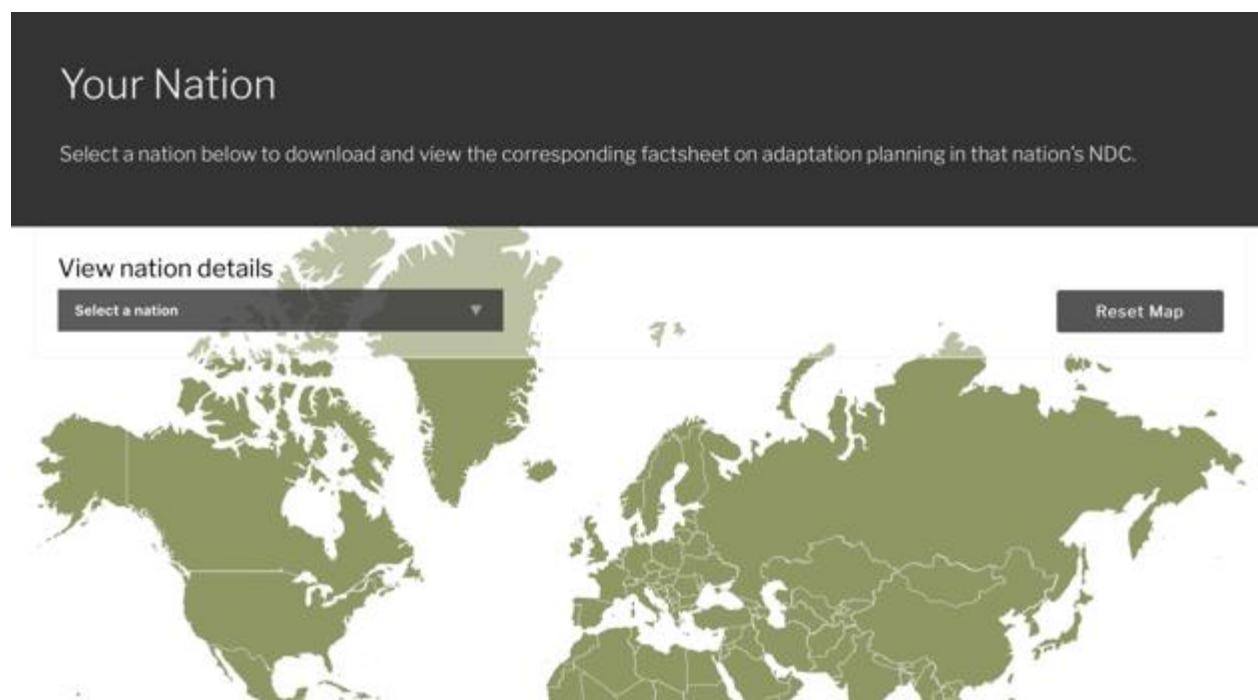
77. Nature Based Solutions Policy Platform

Type of tool: Knowledge Platform

Organization: University of Oxford, IIED

Description: Interactive map with a selection of reports, evidence summaries, talks and policy briefs. This material includes synopses of the scientific evidence for the effectiveness of nature-based solutions, overviews of the prominence of nature-based solutions in policy, and reflections, for example, on the value of natural capital. All include policy pointers for decision makers in government and business and/or suggestions for further research.

Website: <http://www.nbspolicyplatform.org/your-nation/#filter-nations>



78. Nature-Based Solutions Policy Data Platform

Type of tool: Knowledge Platform, Dataset

Organization: University of Oxford, IIED

Description: The Nature-Based Solutions Policy Data Platform is a portal providing emissions data and vulnerability rankings for countries. This platform is aimed at highlighting and scaling up the role of nature-based approaches to climate change adaptation and linking policy to the science evidence for the effectiveness of these approaches. The datasets can be exported as a whole or filtered by geographical region, income group, and a country's vulnerability ranking.

Website: <http://www.nbspolicyplatform.org/data-export/>

The screenshot shows the homepage of the Nature-Based Solutions Policy Platform. At the top, there is a banner featuring the logos of the Nature-Based Solutions Initiative (a stylized tree and water icon), the University of Oxford, and IIED. Below the banner, the platform's name "NATURE-BASED SOLUTIONS POLICY PLATFORM" is displayed, along with the text "University of Oxford". A navigation bar below the banner includes links for "About", "Global Overview", "Your Nation", "Nature-based Solutions", "Data Export" (which is highlighted in blue), "Data View", and "Feedback". The main content area is titled "Data Export" and contains a paragraph explaining the functionality of the platform, stating that users can export the full NDC dataset or filter it by geographic region, income group, or vulnerability ranking. It also encourages users to get in touch for more information or feedback.

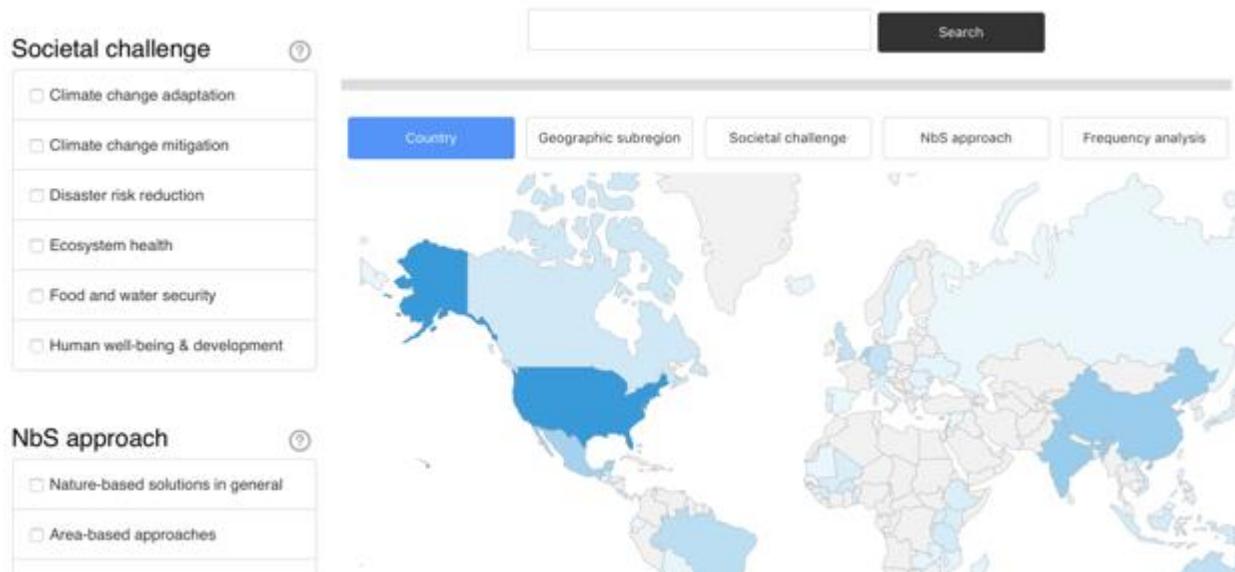
79. NBS Bibliography

Type of tool: Knowledge Platform, Dataset

Organization: University of Oxford

Description: Interactive bibliography on Nature-based Solutions. Explore publications on the role or use of biodiversity and ecosystems to 1) address impacts from climate change, 2) help store carbon or reduce carbon emissions, and 3) promote ecosystem-health in the context of climate change. Maps show numbers of publications focusing on different habitats, regions, the societal challenge that a nature-based solution is applicable to, and the broad type of NBS under study (NBS approach)

Website: <https://www.naturebasedsolutionsinitiative.org/bibliography/>



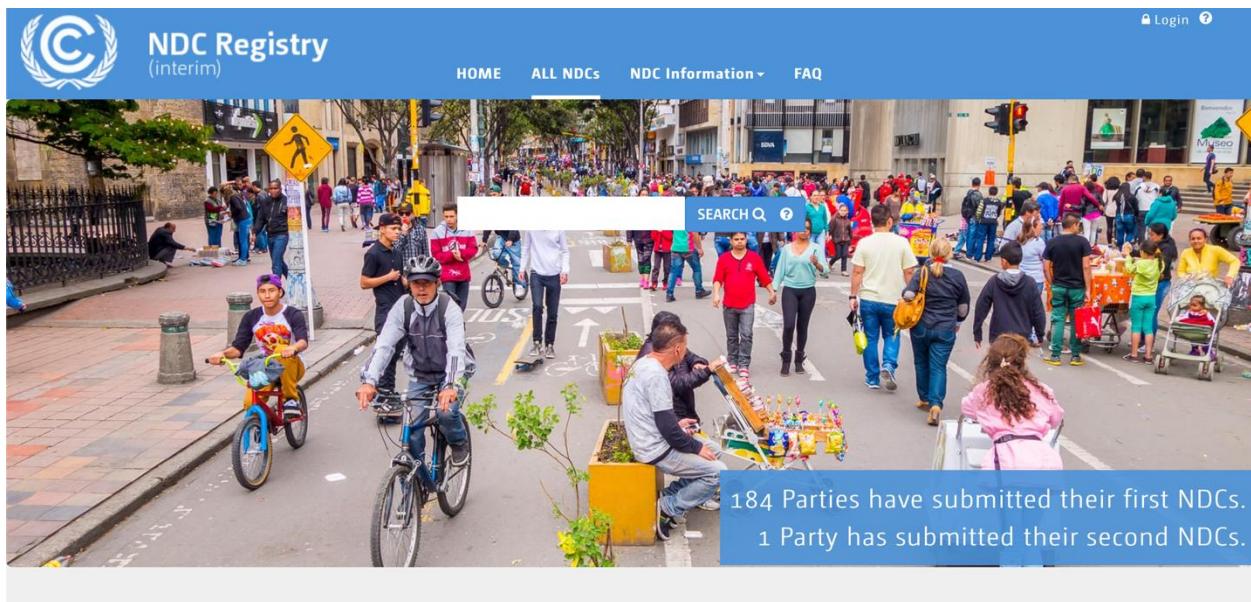
80. NDC official documents

Type of tool: Website with key information

Organization: United Nations Framework Convention on Climate Change

Description: In this website you can find all the official NDCs

Website: <https://www4.unfccc.int/sites/NDCStaging/Pages/All.aspx>



81. NDC Support Cluster Toolbox

Type of tool: Toolkit

Organization: Germany Ministry of Environment

Description: The Toolbox provides easy access to a selection of tools in the four Cluster support areas offered by the Cluster implementing partners. These provide support when implementing, coordinating, tracking and revising NDCs.

Website: <https://www.ndc-cluster.net/toolbox>

The screenshot shows the homepage of the NDC Support Cluster Toolbox. At the top, there is a search bar with the placeholder text "What kind of tool are you looking for?". Below the search bar are three categories: "Search key words" (with a magnifying glass icon), "Steps" (with the subtext "Tools for certain steps in the process"), and "Barriers" (with the subtext "Tools to overcome certain barriers"). Under the "Support Areas" heading, there are four cards: "Governance" (represented by a pie chart icon), "Sectors" (represented by a network of nodes icon), "Financing" (represented by a stack of coins icon), and "Transparency" (represented by a network of nodes icon). At the bottom left, there is a "Steps" section. The overall design is clean and modern, using a light gray background and white cards for each category.

82. NDC-SDG Connections database

Type of tool: Datasets

Organization: German Development Institute (DIE), Stockholm Environment Institute (SEI)

Description: The NDC-SDG Connections database and online visualisation have been developed. It aims at illuminating synergies between the 2030 Agenda for Sustainable Development and the Paris Agreement, and at identifying entry points for coherent policies that promote just, sustainable and climate-smart development.

Website: <https://klimalog.die-gdi.de/ndc-sdg/>

The screenshot shows the homepage of the NDC-SDG Connections database. At the top, there is a dark blue header bar with navigation links: Overview, SDGs, Countries, Synergies, Publications, Help, About, and social media icons for Facebook and Twitter. The main title "NDC-SDG Connections" is centered above a sub-header "ACTION AWARDS". Below this, there is descriptive text about connecting climate action to SDGs and a call to explore connections for "Global (average)". A "COMPARE WITH" button is also visible. The bottom of the page features a green footer bar with the text "Toolkit for mainstreaming nature-based solutions into nationally determined contributions".

83. NDC-SDG Linkages

Type of tool: Dataset

Organization: NDC Partnership

Description: Identify potential alignment between the targets, actions, policy measures and needs in countries' Nationally Determined Contributions (NDCs) and the targets of the Sustainable Development Goals (SDGs).

Website: <http://ndcpartnership.org/climate-watch/ndcs-sdg>



84. NDCs – A Source for Nature?

Type of tool: Guideline document

Organization: WWF

Description: The paper lays out a set of recommendations at the international and national level as well as for the longer term that can strengthen the biodiversity and nature agenda, and align climate, biodiversity and sustainable development targets for the next phase of updated, enhanced and improved NDCs.

Website: http://4fqbk2blqkb1nrebde8yxqj-wpengine.netdna-ssl.com/wp-content/uploads/2018/12/WWF_NDCs-a-force-for-nature-2nd-edition.pdf



85. OECD Green Growth Indicators Database 2017

Type of tool: Database, Finance

Organization: OECD

Description: Green Growth Indicators 2017 updates and extends the green growth indicators presented in the 2014 and 2011 editions. It charts the progress that OECD countries and G20 economies have made since 1990. The 2017 edition places greater emphasis on productivity gains and on the role of policy action, with enriched analysis on environmentally related taxes and subsidies, technology and innovation, and international financial flows.

Website: <http://www.oecd.org/greengrowth/green-growth-indicators/>

The screenshot shows the homepage of the 'Green Growth Indicators' section of the OECD website. At the top, there is a navigation bar with links for 'OECD Home', 'About', 'Countries', 'Topics', and 'Français'. Below the navigation bar, a breadcrumb trail indicates the page's location: 'OECD Home > Green growth and sustainable development > Green Growth Indicators'. The main content area features two large sections: 'Highlights' on the left and 'The report' on the right. The 'Highlights' section contains a large image of green bamboo pipes and the text 'Green Growth Indicators 2017 HIGHLIGHTS'. The 'The report' section features the cover of the 'OECD Green Growth Studies: Green Growth Indicators 2017' report, which has a teal and white design with a circular graphic. To the right of the report cover are social media sharing icons for Twitter, Facebook, LinkedIn, Print, and Email.

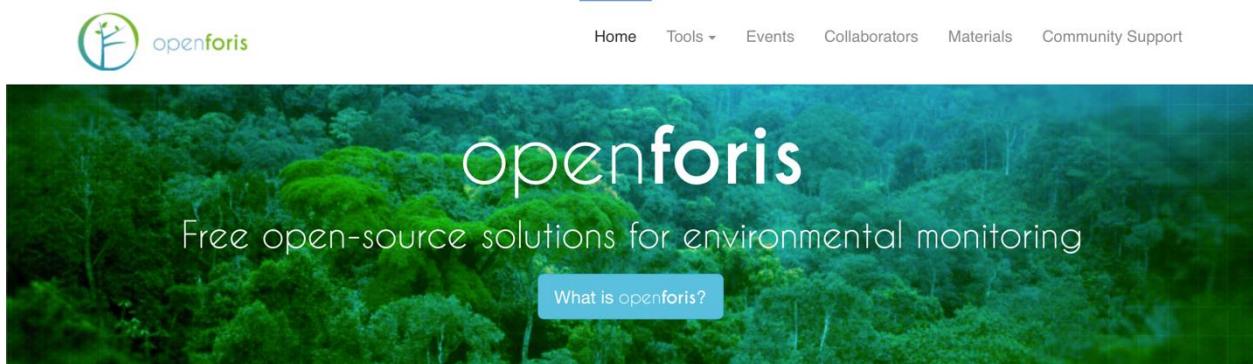
86. Open Foris

Type of tool: Toolkit, Technical software

Organization: FAO

Description: Open Foris is a set of open-source software tools to facilitate flexible and efficient data collection, analysis, and reporting. Its modules can be used for forest inventories, land use and land-use change assessment, and climate change reporting.

Website: <http://www.openforis.org>



87. Outreach into sectors: Integrating ecosystem-based approaches to climate change adaptation and disaster risk reduction

Type of tool: Guideline document

Organization: Secretariat of the Convention on Biological Diversity

Description: The report, prepared by the CBD, in collaboration with GIZ, WWF, IUCN, ILO and FAO, contains briefs to support the integration of ecosystem-based approaches to climate change adaptation and disaster risk reduction into sectoral policies and plans.

Website: <https://www.cbd.int/doc/publications/cbd-ts-93-outreach-en.pdf>

Outreach into Sectors

**Integrating ecosystem-based
approaches to climate change
adaptation and disaster risk
reduction**

88. PANORAMA: Solutions for a Healthy Planet

Type of tool: Knowledge Platform

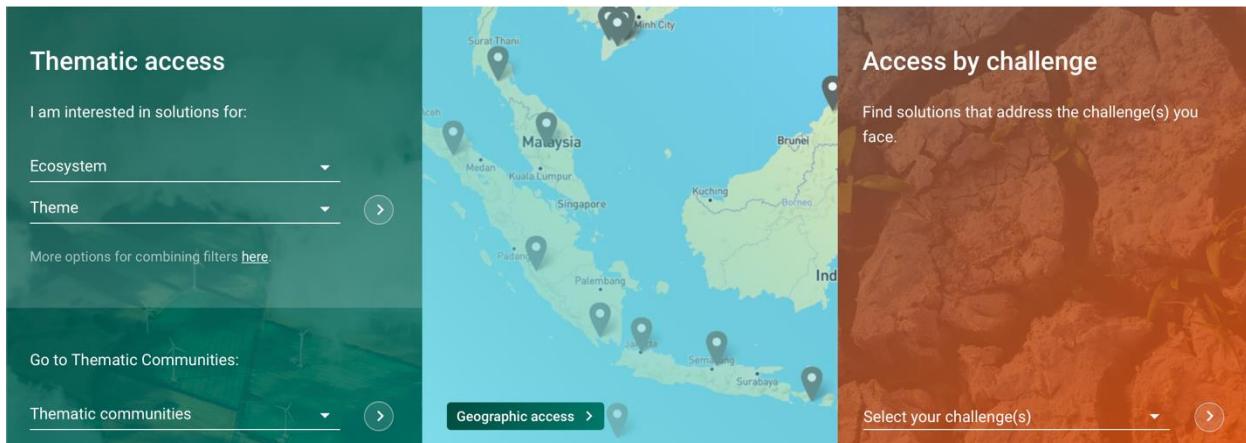
Organization: GIZ GmbH, IUCN, UNEP, GRID-Arendal, Rare, International Federation of Organic Agriculture Movements

Description: PANORAMA – Solutions for a Healthy Planet is a partnership initiative to document and promote examples of inspiring, replicable solutions across a range of conservation and sustainable development topics, enabling cross-sectoral learning and inspiration. PANORAMA allows practitioners to share and reflect on their experiences, increase recognition for successful work, and to learn with their peers how similar challenges have been addressed around the globe.

Website: <https://panorama.solutions/en>

Explore Solutions

Use different paths to explore our solutions



89. Partnership on Transparency in the Paris Agreement

Type of tool: Knowledge platform, Toolbox

Organization: Partnership on Transparency

Description: The Partnership provides a forum for practical exchange and political dialogue between countries on enhanced climate transparency. It actively supports further developing the MPGs, reflecting on the interlinkages between transparency and raising ambition, and strengthening national capacities for implementing MRV and M&E systems.

Website: <https://www.transparency-partnership.net>

The screenshot shows the homepage of the Partnership on Transparency in the Paris Agreement website. At the top, there is a navigation bar with links for Twitter, Log in, Contact, and Search. Below the navigation bar, the main menu includes About, Partnership activities, News, Good practice, Documents & Tools (which is highlighted in blue), and Network. A large banner features a photograph of a group of people at a conference and the text: "Climate transparency builds trust, promotes ambitious climate action and so helps achieve the long term temperature goal of the Paris Agreement." Below the banner, there are three blue buttons labeled Case studies, Publications, and Newsletter. The main content area is divided into three columns: News, Documents & Tools, and Upcoming Events. The News column lists "Webinar #3 on Engaging the private sector for reaching the NDC targets" and "Enhanced Transparency Framework after". The Documents & Tools column lists "Webinar: Multi-sectoral approach for achieving countries' NDC targets" and "Webinar: *Institutional framework for national". The Upcoming Events column lists "18.10. 8th Annual Partnership Retreat 2019" and a "More Events" link.

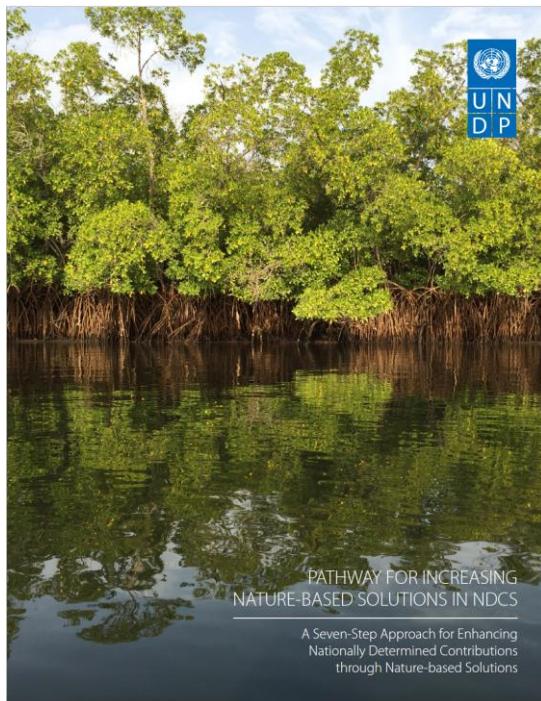
90. Pathway for Increasing Nature-Based Solutions in the NDCS: A Seven-Step Approach for Enhancing Nationally Determine Contributions through Nature-Based Solutions

Type of tool: Guideline document

Organization: UNDP

Description: The objective of the Pathway is to assist governments to identify potential Nature-Based Solutions with the aim of enhancing their climate mitigation and adaptation action in a cost-effective manner and with multiple co-benefits. This Pathway may also be particularly helpful to assist countries in their efforts to strengthen the robustness of their existing NDC in cases where they may have limited data and resources to prepare for the implementation of their NDC strategies or action plans. This Pathway provides governments with a concise summary of specific actions ant tools to consider, organized in seven steps or stages.

Website: <https://www.undp.org/content/ndc-support-programme/en/home/impact-and-learning/library/nature-based-solutions-for-ndcs-pathway-framework.html>



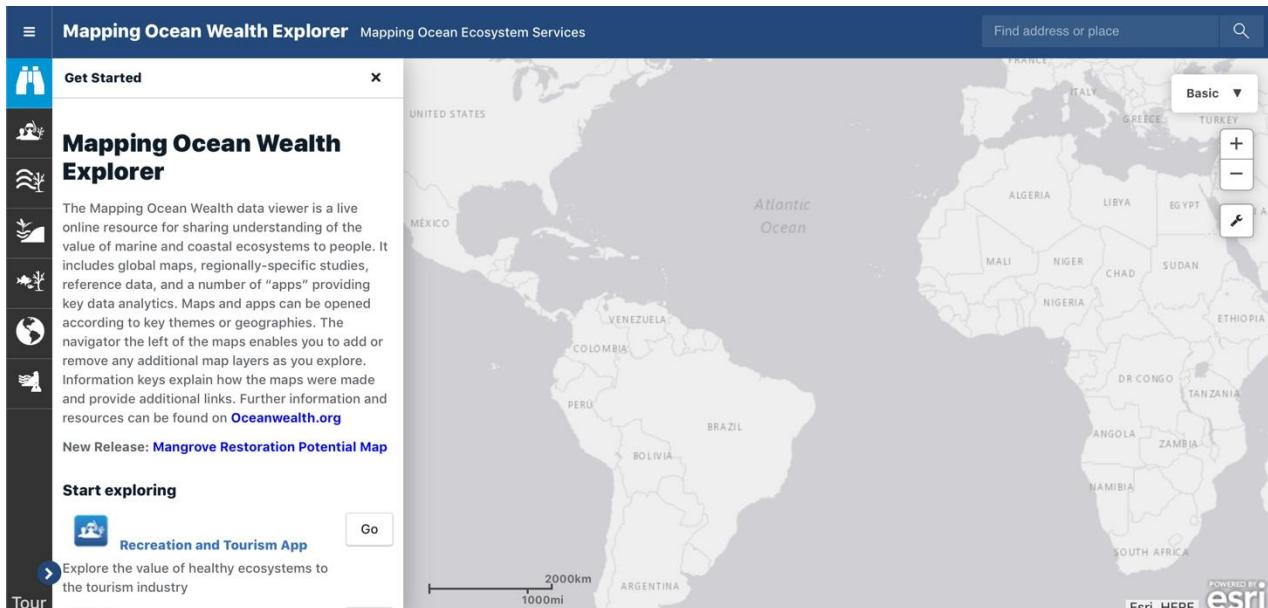
91. Planting Healthy Air

Type of tool: Spatial Dataset

Organization: Nature Conservancy

Description: Interactive report / map quantifying how nature can help clean and cool the air.

Website: <http://maps.oceanwealth.org>



92. Policy and Action Standard

Type of tool: Guideline documents

Organization: World Resource Institute (WRI)

Description: The GHG Protocol Policy and Action Standard provides a standardized approach for estimating and reporting the change in GHG emissions and removals resulting from policies and actions.

Website: <https://www.wri.org/publication/policy-and-action-standard>



Policy and Action Standard

An Accounting and Reporting Standard for
Estimating the Greenhouse Gas Effects of
Policies and Actions

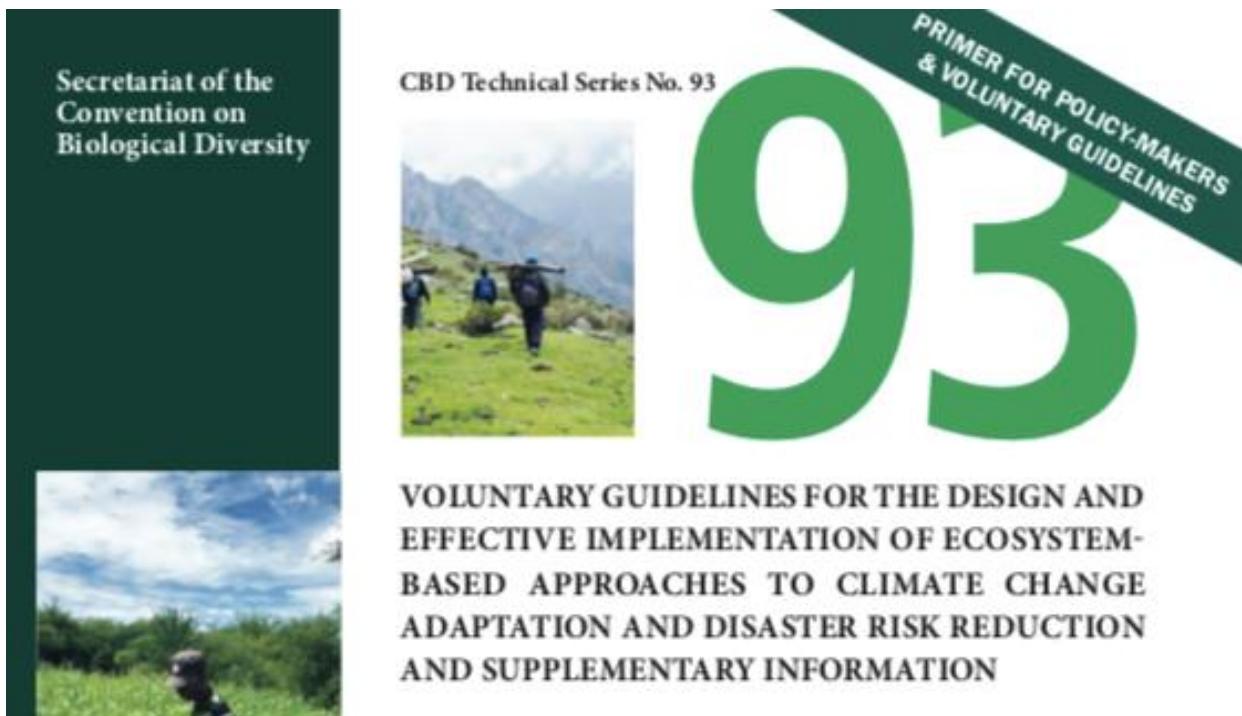
93. Primer for policymakers and voluntary guidelines for the design and effective implementation of ecosystem-based approaches to climate change adaptation and disaster risk reduction

Type of tool: Guideline document

Organization: Secretariat of the Convention on Biological Diversity

Description: This report can be used to encourage decision-makers to implement ecosystem-based approaches to climate change adaptation and disaster risk reduction (EbA and Eco-DRR) across different sectors and in policies and strategies addressing climate change, disaster risk reduction and sustainable development.

Website: <https://www.cbd.int/doc/publications/cbd-ts-93-primer-en.pdf>



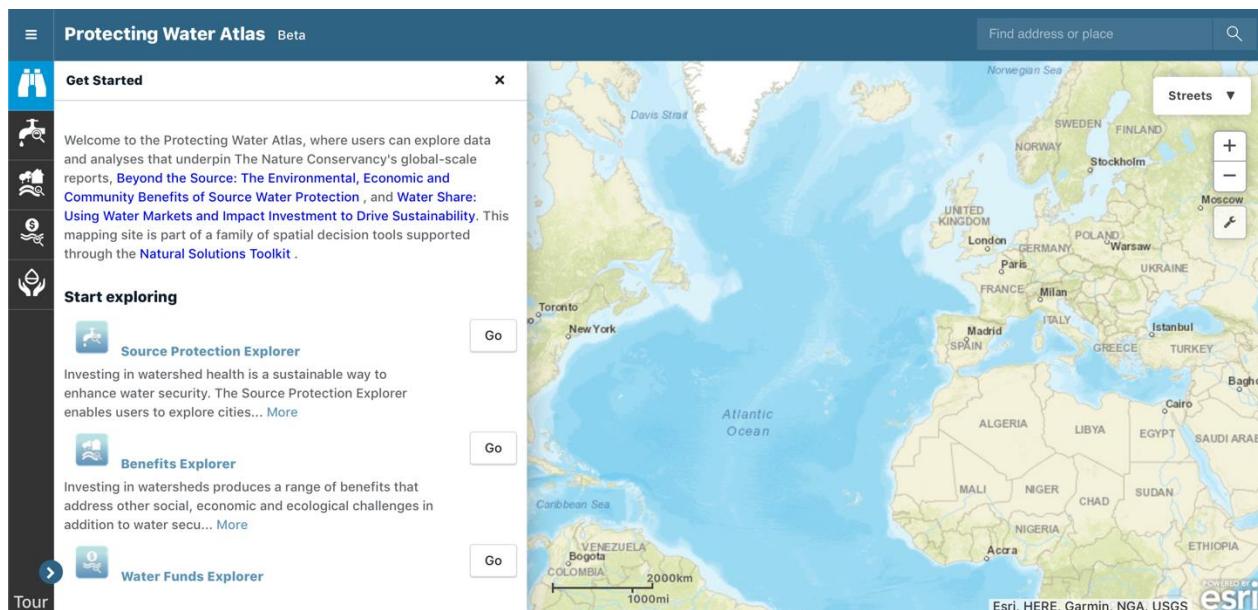
94. Protecting Water Atlas

Type of tool: Spatial Dataset

Organization: The Nature Conservancy

Description: Spatial mapping tool for data and analyses on global water protection.

Website: <https://maps.protectingwater.org>



95. Readiness for Climate Finance: A framework for understanding what it means to be ready to use climate finance

Type of tool: Toolkit, Finance

Organization: UNDP

Description: The paper attempts to organise the many targeted support programmes, guidebooks, publications, and toolkits on climate finance—offered by a range of international, regional, and national partners on what it means to be “ready” to use climate finance in a transformative way.

Website: https://www.undp.org/content/dam/turkey/docs/Publications/EnvSust/UNDP-Readiness_for_Climate_Finance.pdf



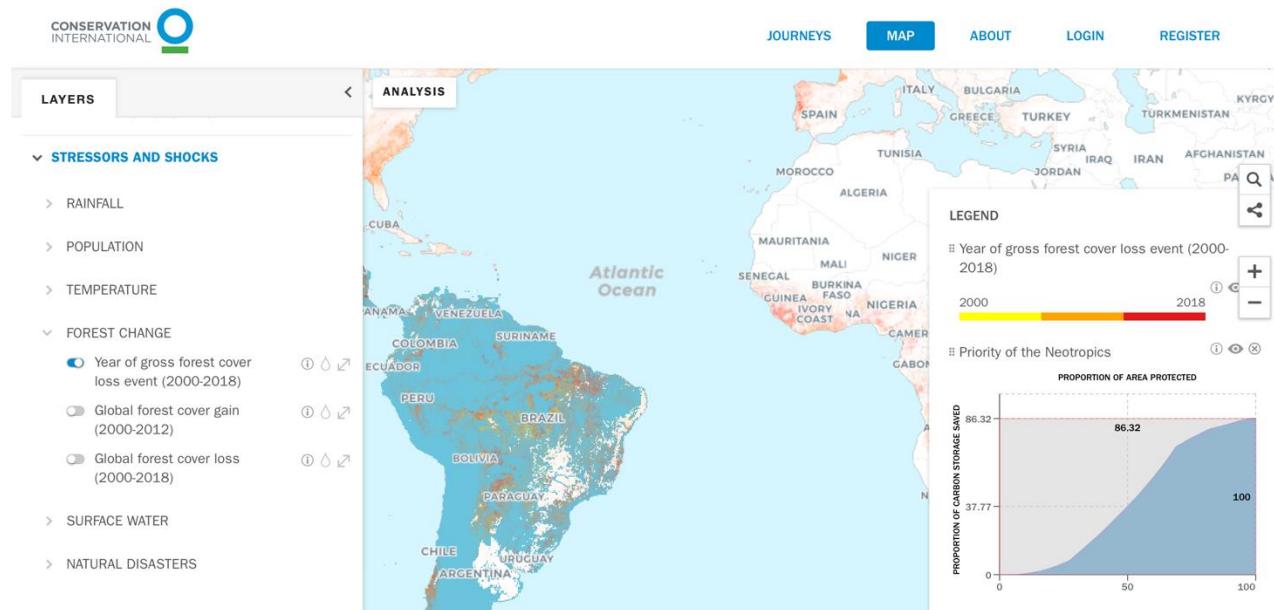
96. Resilience Atlas

Type of tool: Spatial Dataset

Organization: Conservation International

Description: Resilience data using a variety of layers to find synergy and overlap.

Website: <https://www.resilienceatlas.org>



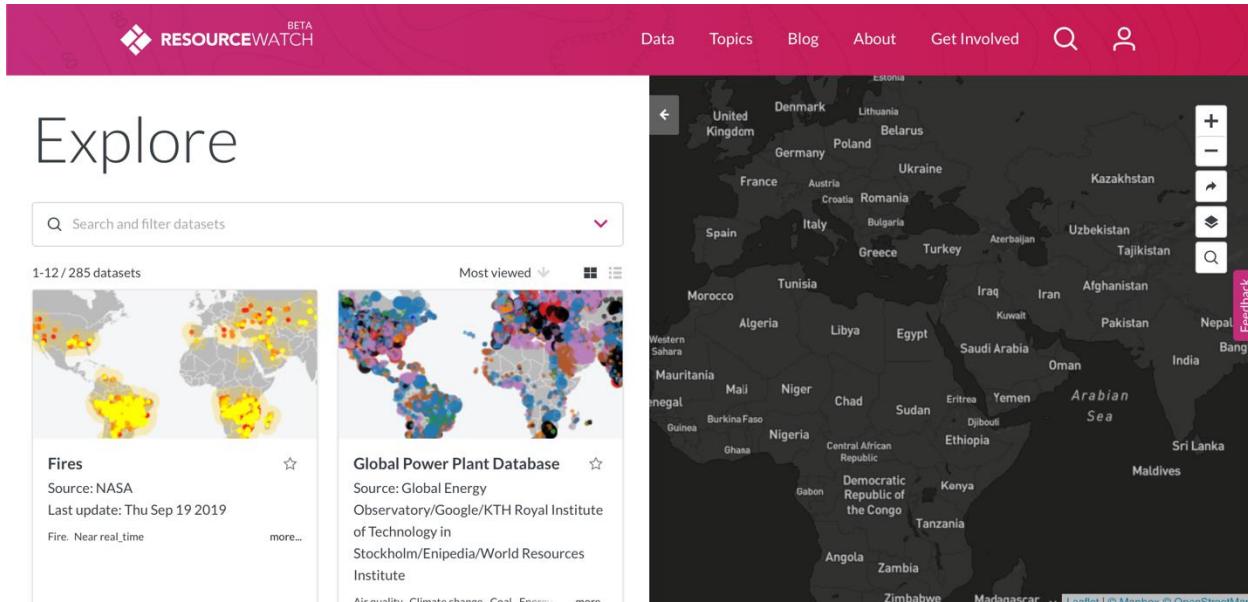
97. Resource Watch

Type of tool: Spatial dataset

Organization: World Resource Institute

Description: This is an impressive collection of 279 spatial datasets that feature the status of the countries in topics such as: water stress, tree cover, tree cover loss, climate change impacts in crop production, vulnerability to climate change index, reservoirs and dams, biodiversity intactness, etc.

Website: <https://resourcewatch.org/data/explore>



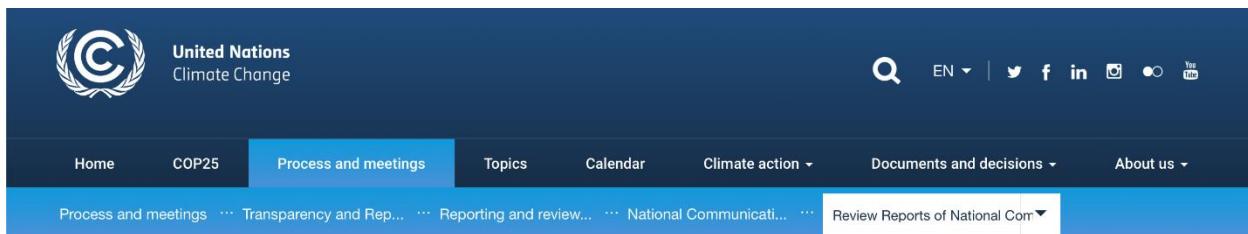
98. Review Reports of National Communications and Biennial Reports

Type of tool: Guideline documents

Organization: IPCC

Description: The in-depth review reports aim to facilitate the work of the COP in assessing the implementation of commitments by Annex I Parties. The reports also allow easier comparison of information between NCs of Parties, although no common indicators are employed.

Website: <https://unfccc.int/process/transparency-and-reporting/reporting-and-review-under-the-convention/national-communications-and-biennial-reports--annex-i-parties/international-assessment-and-review/review-reports>



The screenshot shows the official website of the United Nations Climate Change. The header features the UN Climate Change logo and the text "United Nations Climate Change". A search icon and language selection (EN) are on the right. The navigation menu includes "Home", "COP25", "Process and meetings" (which is highlighted in blue), "Topics", "Calendar", "Climate action", "Documents and decisions", and "About us". Below the menu, a secondary navigation bar lists "Process and meetings", "Transparency and Rep...", "Reporting and review...", "National Communicati...", and "Review Reports of National Com...".

Review Reports of National Communications and Biennial Reports

The in-depth reviews of national communications (NCs) are conducted by an international team of experts, coordinated by the UNFCCC secretariat. The review of each NC typically involves a desk-based study and an in-country visit, and aims to provide a comprehensive, technical assessment of a Party's implementation of its commitments. The in-depth review results in an in-depth review report, which typically expands on and updates the NC. The in-depth review reports aim to facilitate the work of the COP in assessing the

RELATED INFORMATION

[TRR.3 and IDR.7 \(see table below\)](#)

[TRR.2](#)

[TRR.1 and IDR.6](#)

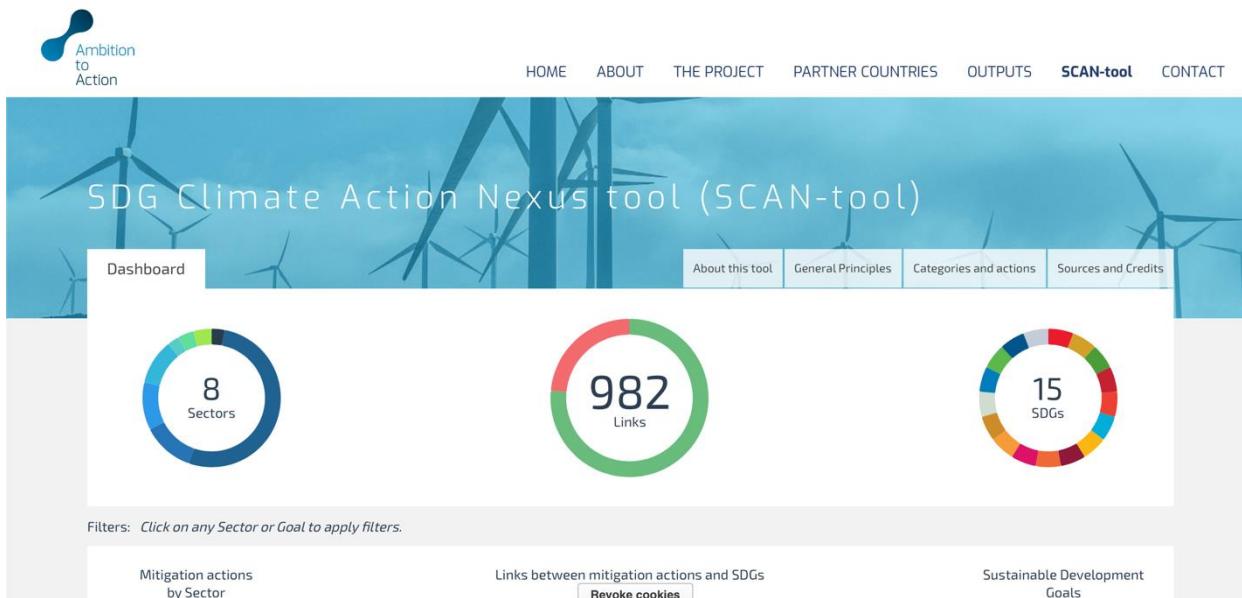
99. SDG Climate Action Nexus tool (SCAN-tool)

Type of tool: Technical support, Dataset

Organization: Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, NewClimate Institute

Description: The SDG Climate Action Nexus tool (SCAN-tool) is designed to provide high-level guidance on how climate actions can impact achievement of the Sustainable Development Goals (SDGs). It is meant to support policy makers across different departments and state levels, to achieve greater policy coherence and to improve the efficiency of implementation by providing them with an initial indication of which climate actions may impact -positively or negatively- specific SDG targets.

Website: http://ambitiontoaction.net/scan_tool/



100. SERVIR Global

Type of tool: Spatial datasets, Knowledge platform

Organization: NASA and USAID

Description: SERVIR works in partnership with leading regional organizations world-wide to help developing countries use information provided by Earth observing satellites and geospatial technologies for managing climate risks and land use. SERVIR empower decision-makers with tools, products, and services to act locally on climate-sensitive issues such as disasters, agriculture, water, ecosystems and land use.

Website: <https://www.transparency-partnership.net>



101. Specialized Datasets

Type of tool: Datasets

Organization: IDB

Description: A repository of datasets covering areas like agriculture and rural development, education, natural disasters, fiscal policy and management, gender, health, and regional integration.

Website: <https://data.iadb.org/DataCatalog/Dataset>

The screenshot shows the IDB Data Catalog homepage. At the top, there is a navigation bar with the IDB logo, the tagline "Improving lives", and links for WHO WE ARE, PROJECTS, COUNTRIES, SECTORS, KNOWLEDGE, and SUBSCRIBE. To the right are links for NEWS and ENGLISH. Below the navigation is a search bar with dropdown menus for "SELECT COUNTRY" and "FIND INDICATOR", and a "SEARCH FOR SPECIFIC INDICATOR" input field. A large search button with a magnifying glass icon is on the right. The main content area has a grey header with "SPECIALIZED DATASETS" and a search bar. Below it, a message says "Results 1-10 Of 187". There are two dataset cards: 1) "QUALITY OF PARENTING PROGRAMS AND CHILD DEVELOPMENT OUTCOMES" (Dataset, Cross sectional, Last updated: Jul 15, 2019) which describes a program in Peru; 2) "IDB CLIMATE FINANCE 2016" (Dataset, Cross sectional, Last updated: Jun 15, 2019) which discusses climate finance approvals. On the left, there is a sidebar with filter options: BY TOPIC, BY COUNTRY, API AVAILABILITY, DOWNLOAD FORMAT, TIME, LAST UPDATED, and a "CLEAR ALL FILTERS" button. Below the filters is a link to "Stata Converter Tool".

102. Synthesis Report on Experiences with Ecosystem-Based Approaches to Climate Change Adaptation and Disaster Risk Reduction

Type of tool: Guideline document

Organization: Secretariat of the Convention on Biological Diversity

Description: The report provides a synthesis of experiences with ecosystem-based approaches to climate change adaptation and disaster risk reduction, and an analysis of challenges, lessons learned and opportunities related to their design and implementation.

Website: <https://www.cbd.int/doc/publications/cbd-ts-85-en.pdf>



**SYNTHESIS REPORT ON
EXPERIENCES WITH
ECOSYSTEM-BASED
APPROACHES TO CLIMATE
CHANGE ADAPTATION AND
DISASTER RISK REDUCTION**

103. e-Learning Platform of the United Nations Statistics Division

Type of tool: Platform, E-learning, Datasets

Organization: UNSD

Description: The e-Learning platform of the UN Statistics Division hosts a range of learning resources designed to familiarise individuals with the concepts and methods behind the System of Environmental-Economic Accounting. This platform provides users with courses, virtual classrooms and other learning resources on key topics such as water accounting, energy accounting and experimental ecosystem accounting.

Website: <https://elearning-cms.unstats.un.org>



104. Targets in Laws and Policies

Type of tool: Dataset

Organization: NDC Partnership

Description: Helps in exploring alignment between quantified NDC targets and targets in sectoral laws and policies.

Website: <https://www.climatewatchdata.org/contained/sectors/agriculture#drivers-of-emissions>

Targets in Laws and Policies

Are countries implementing laws and policies consistent with the targets in their Nationally Determined Contributions (NDCs)? Use the table below to explore alignment between quantified NDC targets and targets in sectoral laws and policies.

Filter by sector: LULUCF (2 national laws and policies with targets available for Brazil for the selected sector)

LSE Grantham Research Institute on Climate Change and the Environment

See all 26 national laws and policies in Brazil on Climate Change Laws of the World.

Targets in Submitted NDC	Targets found in National Plan on Climate Change (from Decree no 6.263)	Targets found in Law 11.284/2006, establishing the management of Public Forests, Brazilian Forest Service and National Fund for Forest Development
Targets type: Target type not defined	Targets Type: Trajectory Target	Targets Type: Fixed Level Target
Targets: LULUCF Zero illegal deforestation by 2030	Targets: Preservation Reduction of 40% in the average deforestation rate by 2006-2009 period in relation to the average rate of the ten years reference period used in the Amazon Fund (1996-2005). For each of the next two periods of four years, reach 30% of extra reduction, in relation to the previous period. In the case of the Amazon bioma,	Targets: Preservation By 2026, the total area with forest concessions of the Union shall not exceed twenty percent (20%) of the total area of its public forests available for concession, except for located in national forests created pursuant to art. 17 of Law 9.985 of July 18, 2000.

105. The Green Lending Forum

Type of tool: Knowledge Platform, Finance

Organization: Global Climate Partnership Fund (GCPF)

Description: The Green Lending Forum offers banks across four continents a unique opportunity to build the green lending network, deepen the knowledge, share information with peer practitioners and receive guidance from experts in the field.

Website: <https://green-lending-forum.gcpf.lu>

GREEN LENDING FORUM

The graphic features a blue background with white text and icons. In the top left corner, a yellow box contains the text "UPCOMING EVENT". In the top right corner, another yellow box contains the text "GREEN LENDING CONVERSATIONS". The center left contains the event details: "16 – 20TH SEPTEMBER 2019 | LIMA, PERU" and the title "GCPF GREEN LENDING WORKSHOP". Below the title is a description: "The untapped market opportunity for financing energy efficiency and renewable energy technologies". The center right contains a call to action: "Build your network, deepen your knowledge, share information with practitioners and receive guidance experts in the field." The bottom half of the graphic is filled with white line-art icons representing various green lending sectors, including wind turbines, solar panels, a tractor, a washing machine, and industrial pipes.

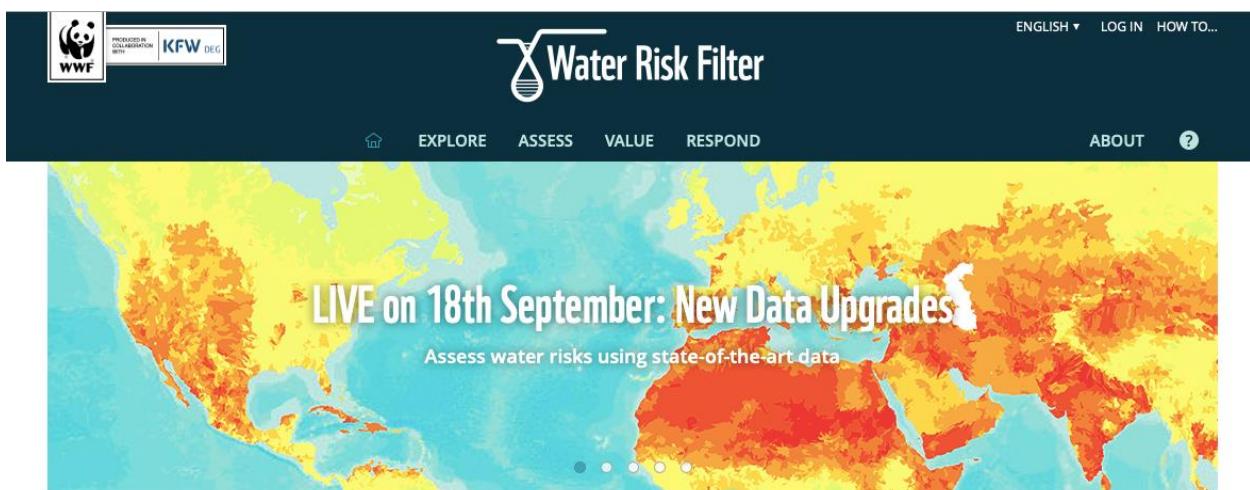
106. The Water Risk Filter

Type of tool: Datasets, Knowledge Platform

Organization: WWF

Description: The Water Risk Filter aims to cover all relevant aspects of water risks, and uses the best available global data source for each of the indicators. The number of indicators has been rationalised during the development process, balancing the fact that the tool should be practical for non-water experts while still capturing all risk aspects.

Website: <https://waterriskfilter.panda.org>



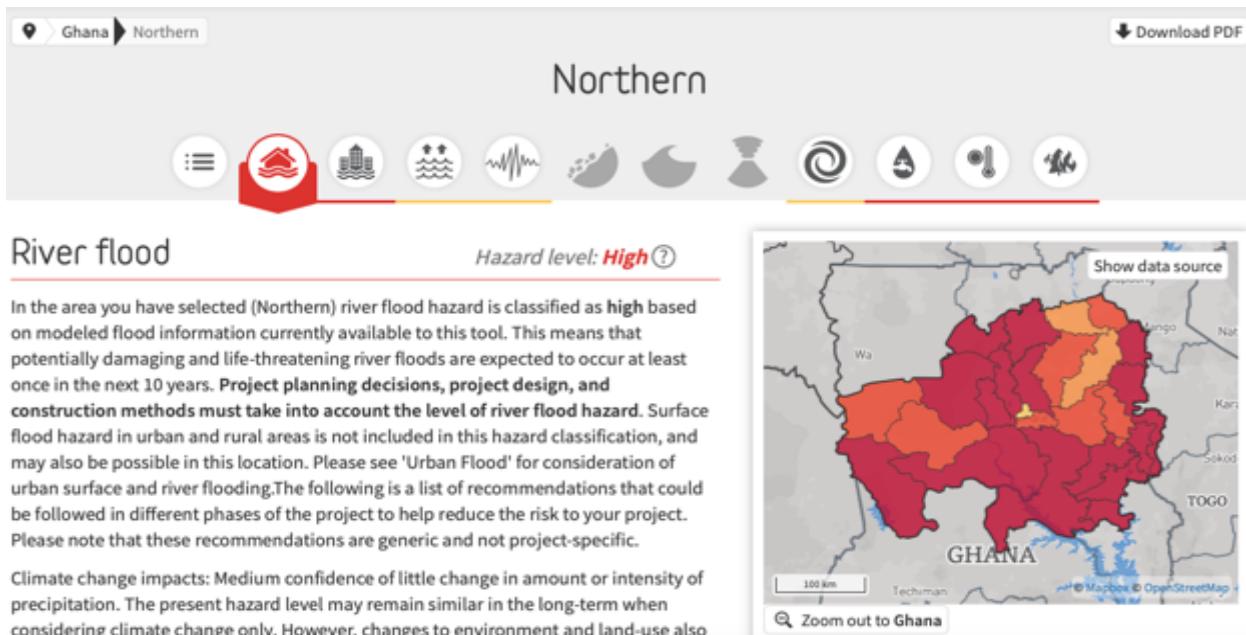
107. Think Hazard

Type of tool: Spatial Dataset, Dataset

Organization: Global Facility for Disaster Reduction and Recovery

Description: ThinkHazard! provides a general view of the hazards, for a given location, that should be considered in project design and implementation to promote disaster and climate resilience.

Website: <http://thinkhazard.org/en/>



108. Toolkit to Enhance Access to Adaptation Finance

Type of tool: Toolkit, Finance

Organization: OECD

Description: This toolkit outlines a spectrum of "tools" that could help the countries navigate the evolving architecture of climate finance and seize opportunities for accessing finance for adaptation.

Website: <http://www.oecd.org/environment/cc/Toolkit%20to%20Enhance%20Access%20to%20Adaptation%20Finance.pdf>

TOOLKIT TO ENHANCE ACCESS TO ADAPTATION FINANCE

For developing countries that are vulnerable to adverse effects of
climate change, including LIDCs, SIDS and African states

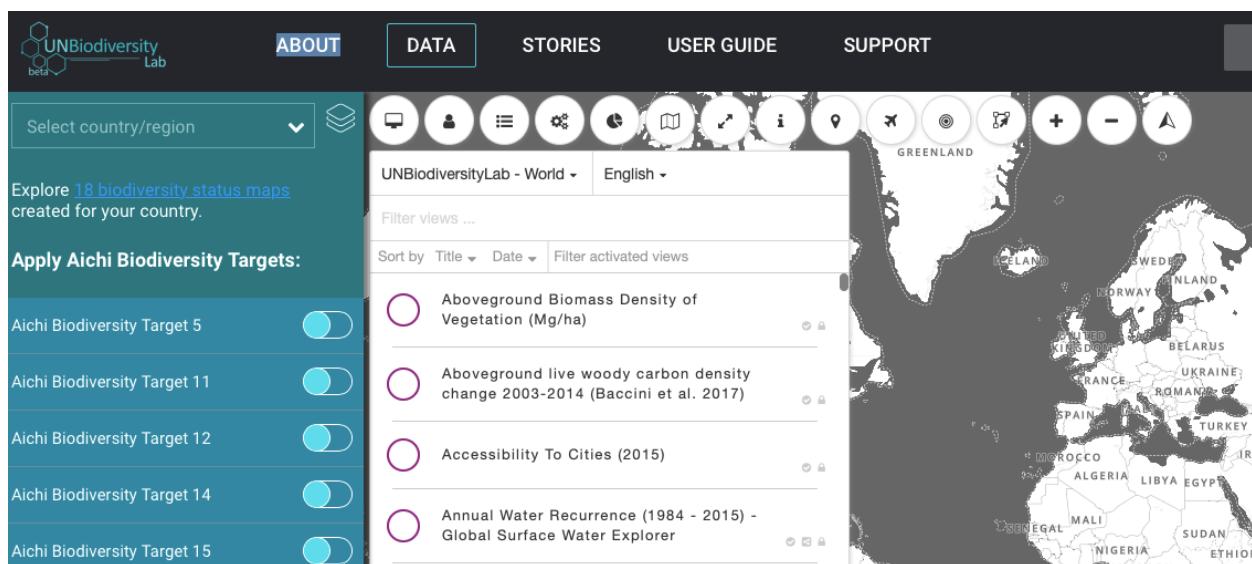
109. United Nations Biodiversity Lab

Type of tool: Platform, Spatial dataset

Organization: UNDP and UNEP

Description: The UN Biodiversity Lab is an online platform that allows policymakers and other partners to access global data layers, upload and manipulate their own datasets, and query multiple datasets to provide key information on the Aichi Biodiversity Targets and nature-based Sustainable Development Goals.

Website: <https://www.unbiodiversitylab.org>



110. Urban Water Blueprint

Type of tool: Spatial Datasets

Organization: The Nature Conservancy

Description: The Urban Water Blueprint examines the state of water in more than 500 cities around the world.

Website: <http://water.nature.org/waterblueprint/#/intro=true>



111. Voluntary LDN targets

Type of tool: Website with key information

Organization: United Nations Convention to Combat Desertification

Description: In this website you can find all the official voluntary Land Degradation Neutrality targets

Website: <https://knowledge.unccd.int/home/country-information/countries-with-voluntary-ldn-targets>

The screenshot shows the UNCCD Knowledge Hub website. The header includes the UNCCD logo, the text "United Nations Convention to Combat Desertification", the title "Knowledge Hub", a search bar, and a "Select Language" button. The navigation menu at the top has links for "Home", "Knowledge Products and Pillars", "The Science-Policy Interface", and "Topics". Below the menu, a breadcrumb trail shows "Home / Country information / Countries with voluntary LDN targets". On the left, a sidebar menu is open, showing categories like "About the Knowledge Hub", "Knowledge Sharing Systems", "Roster of Experts", and "Country information". Under "Country information", sub-options include "National Focal Points (NFPs)", "Science and Technology", "Correspondents", "Accredited CSOs", and "Roster of Experts". The main content area features a section titled "Countries with voluntary LDN targets" with a brief description of the LDN TSP. Below this, there's a thumbnail for the "Russian Federation" with a "See LDN TSP Country Report" link.

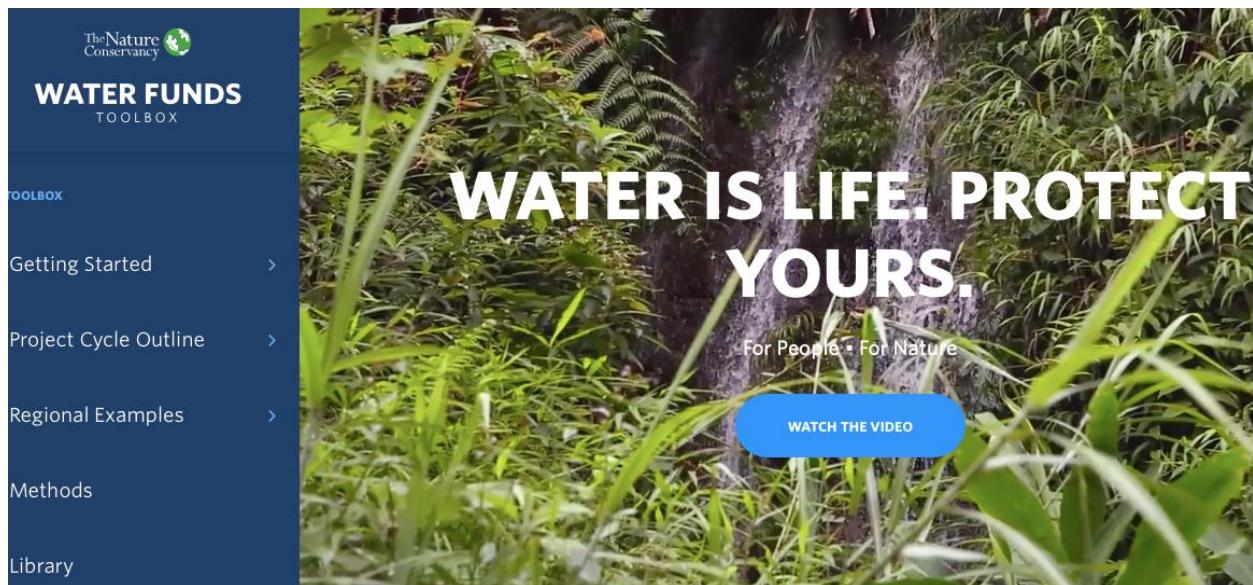
112. Water Funds Toolbox

Type of tool: Toolbox, Finance, Platform

Organization: The Nature Conservancy

Description: Water Funds are organizations that design and enhance financial and governance mechanisms which unite public, private and civil society stakeholders around a common goal to contribute to water security through nature-based solutions and sustainable watershed management. The toolbox has been developed by Water Funds experts to help leaders like you succeed in developing Water Funds.

Toolkits: <https://waterfundstoolbox.org>



113. weADAPT

Type of tool: Knowledge platform, Assessments

Organization: Stockholm Environment Institute (SEI)

Description: weADAPT is designed to facilitate learning, exchange, collaboration and knowledge integration to build a professional community of research and practice on adaptation issues while developing policy-relevant tools and guidance for adaptation planning and decision-making.

Website: <https://www.weadapt.org/knowledge-base/themes>

The screenshot shows the weADAPT website's 'Themes' page. At the top, there is a navigation bar with links for Learn, Share, Connect, Discussion, About, a search bar, a language selector, and a 'My account' button. On the left, there is a vertical sidebar with social media sharing icons for LinkedIn, Twitter, Facebook, and Print, along with a '+' icon. The main content area has a title 'Themes' with a 'Search' input field and a 'Filter' button. Below this, there are two main theme cards. The first card, 'Community Based Adaptation', features an image of people at a table, a 'View Theme' button, and a 'Theme' link. The second card, 'Gender and Social Equality', features an image of people, a 'View Theme' button, and a 'Theme' link. At the bottom, there are two more small cards with similar layouts.

114. World bank Open Data

Type of tool: Datasets, Spatial datasets

Organization: The World Bank Group

Description: Hundreds of datasets on global development (economic, social, environmental, etc).

Website: <https://data.worldbank.org>

The screenshot shows the World Bank Open Data homepage. At the top, there's a navigation bar with the World Bank logo, a 'Data' link, and language options (English, Español, Français, 中文). Below the navigation is a search bar and a 'Start Here' button. The main content area features a 'World Bank Open Data' header and a sub-header 'Free and open access to global development data'. On the left, there's a 'MOST RECENT' column with three news items: 'Despite remarkable progress, 15,000 children and 800 women still die every day mostly of preventable or treatable causes', 'Water subsidies mostly benefit the wealthy', and 'Time after time: How men and women spend their time and what it means for individual and household poverty and wellbeing'. In the center, there's a 'WHAT YOU CAN LEARN WITH OPEN DATA' section with a chart titled 'Poverty headcount ratio at \$1.90 a day (2011 PPP) (% of population)' showing data from the World Bank. To the right, a large 'THE NEW World Development Indicators' section is displayed, featuring three images with dates: 'JULY 16, 2019 Do children who work attend school?', 'OCT 23, 2019 In Sub-Saharan Africa, HIV is more common than ever', and 'OCT 23, 2019 Globally, more than 1 in 10 jobs is in agriculture'. Below this section is a 'World Development Indicators' summary table with columns for Indicator, Code, Time coverage, Region coverage, and Get data.