

Coastal Capital Valuation Guidebook & Tools

World Resources Institute in partnership with many organizations in the Caribbean and the United States

Publication year: 2014

Version of tool: 1



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Overview

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. Although designed using examples from coastal ecosystems in the Caribbean, it is also relevant to other ecosystems (e.g., terrestrial) and other world regions.

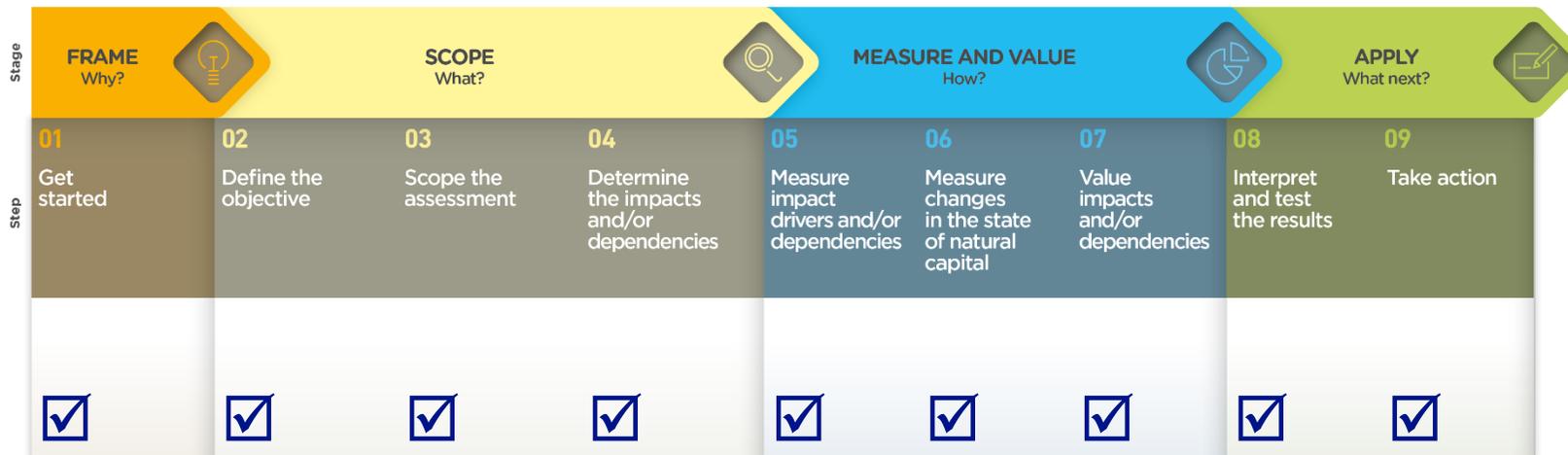
Section 1: Relationship to the Natural Capital Protocol

Impact drivers

Water use <input checked="" type="checkbox"/>	Terrestrial ecosystem use <input checked="" type="checkbox"/>	GHG emissions
Water pollutants <input checked="" type="checkbox"/>	Fresh water ecosystem use <input checked="" type="checkbox"/>	Non-GHG air pollutants
Soil pollutants	Marine ecosystem use <input checked="" type="checkbox"/>	Disturbances
Solid waste	Other resource use <input checked="" type="checkbox"/>	Impact on Biodiversity <input checked="" type="checkbox"/>

Dependencies

Energy	Regulation of physical environment <input checked="" type="checkbox"/>	Knowledge <input checked="" type="checkbox"/>
Materials <input checked="" type="checkbox"/>	Regulation of biological environment <input checked="" type="checkbox"/>	Well-being and spiritual/ethical values <input checked="" type="checkbox"/>
Nutrition <input checked="" type="checkbox"/>	Regulation of waste and emissions <input checked="" type="checkbox"/>	Dependency on biodiversity <input checked="" type="checkbox"/>
Water <input checked="" type="checkbox"/>	Experience <input checked="" type="checkbox"/>	



Details on valuation if applicable:

- Qualitative
- Quantitative
- Monetary
- Value to business
- Value to society


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Section 2: Details for business users

Organizational Focus:

The part or parts of the business to be included in a natural capital assessment.

- Corporate:** Assessment of a corporation or group, including all subsidiaries, business units, divisions, different geographies or markets, etc.
- Project:** Assessment of a planned undertaking or initiative for a specific purpose. NOTE this includes assessments of sites, activities, processes, and incidents.
- Product:** Assessment of particular goods and/or services, including the materials and services used to produce these products

Value Chain Boundary

The part or parts of the business value chain to be included in a natural capital assessment.

- Upstream** (or cradle-to-gate): covers the activities of suppliers, including purchased energy
- Direct operations** (or gate-to-gate): covers activities over which the business has direct operational control Including majority-owned subsidiaries.
- Downstream** (or gate-to-grave): covers activities linked to the purchase, use, reuse, recovery, recycling, and final disposal of the business' products and services.

Geographical scope

- | | | | |
|---|--|-------------------------------------|--|
| <input checked="" type="checkbox"/> All | <input type="checkbox"/> Africa | <input type="checkbox"/> Antarctica | <input type="checkbox"/> Asia |
| <input type="checkbox"/> Europe | <input type="checkbox"/> North America | <input type="checkbox"/> Oceania | <input type="checkbox"/> South America |

Sectoral Scope

- | | |
|--|---|
| <input type="checkbox"/> All sectors | <input checked="" type="checkbox"/> Agriculture |
| <input type="checkbox"/> Apparel | <input type="checkbox"/> Banks, finance and insurance |
| <input type="checkbox"/> Capital goods (including electrical equipment and machinery) | <input type="checkbox"/> Chemicals |
| <input type="checkbox"/> Commercial and professional services | <input type="checkbox"/> Construction and engineering services |
| <input type="checkbox"/> Construction materials | <input checked="" type="checkbox"/> Consumer services (including hotels, restaurants and leisure) |
| <input type="checkbox"/> Energy: non-renewables (including oil, gas and consumable fuel) | <input type="checkbox"/> Energy: renewables |
| <input checked="" type="checkbox"/> Environmental and ecological management services | <input checked="" type="checkbox"/> Fisheries |
| <input checked="" type="checkbox"/> Food and beverage (including tobacco) | <input type="checkbox"/> Healthcare and pharmaceutical |
| <input type="checkbox"/> Household and personal | <input type="checkbox"/> Information and communication technology |
| <input checked="" type="checkbox"/> Media | <input type="checkbox"/> Metals and mining |
| <input checked="" type="checkbox"/> Paper and forest products | <input type="checkbox"/> Real estate |
| <input type="checkbox"/> Retailing | <input type="checkbox"/> Transportation |
| <input type="checkbox"/> Utilities (including electricity, gas and water) | |

Type of tool and key features

- | | |
|--|--|
| <input checked="" type="checkbox"/> Equations, formulae, methods used for computations | <input checked="" type="checkbox"/> Spatial mapping or modelling, GIS data or files of measurements/values |
| <input checked="" type="checkbox"/> General framework or guidelines | <input checked="" type="checkbox"/> Specially designed to compare multiple options/scenarios/strategies |
| <input checked="" type="checkbox"/> List of references and sources to find measurements/values | <input checked="" type="checkbox"/> Spreadsheet that already includes background measurements/values |
| <input checked="" type="checkbox"/> List of measurements/values | <input checked="" type="checkbox"/> Spreadsheet that does not include any background measurements/values |
| <input checked="" type="checkbox"/> Mechanism to collect ecological data | <input checked="" type="checkbox"/> Survey or questionnaire |
| <input checked="" type="checkbox"/> On-line calculator or model | |
| Other: N/A | |

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Section 3: Requirements of use

Intended User:

Business General public Conservation organization

Policy / government Science / academia

Other: N/A

Skills required:

No specific skills are required

Modelling expertise

Some environmental background needed

LCA (Life Cycle Assessment) expertise

Environmental economics

Ecology expertise

GIS (Geographic Information Systems) expertise

Computing expertise

Other: N/A

Data required:

No Yes

If yes, details: Data related to fishing and tourism

Average time required:

Hours Days Weeks Months Years

Variables that may affect the time required:

Our guidebook is useful for all geographical scales and data situations. Our coral reef fisheries and tourism valuation tools are useful both at the national level and marine protected area level. Users can decide whether to do "quick and dirty" analysis or more in-depth analysis depending on data and resource availability.

Software requirements if applicable:

The guidebook is available in PDF format or hard copy; the valuation tools are Excel-based spreadsheets.

Cost to access:

Free to access Indefinitely (pay once, permanent access)

\$1 – 1,000

Per use

\$1,001 – 5,000

Per license

\$5,001 – 10,000

Per year

>\$10,000

Other: N/A

Other information regarding the cost to access:

N/A

Other conditions of use:

N/A

Planned updates:

N/A

Links to pilots, case studies or reviews (max 3)

Nearly 20 case studies of successful decision-relevant valuations in guidebook: <http://www.wri.org/publication/coastal-capital-guidebook>

St. Maarten case study: <http://www.wri.org/our-work/top-outcome/help-wri-tool-caribbean-country-establishes-first-national-park>

Belize case study: <http://www.wri.org/our-work/top-outcome/belize-takes-action-protect-value-its-coral-reefs>