

Business Guide to Water Valuation

WBCSD + working group of companies

Publication year: 2013

Version of tool: 1



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Overview

This Business Guide to Water Valuation provides business-specific guidance on the main concepts and techniques associated with water valuation. The intention is to arm business managers with the knowledge and critical eye needed to work with valuation specialists. This will help managers commission, manage and review water valuation studies, as well as make the best use of the findings.

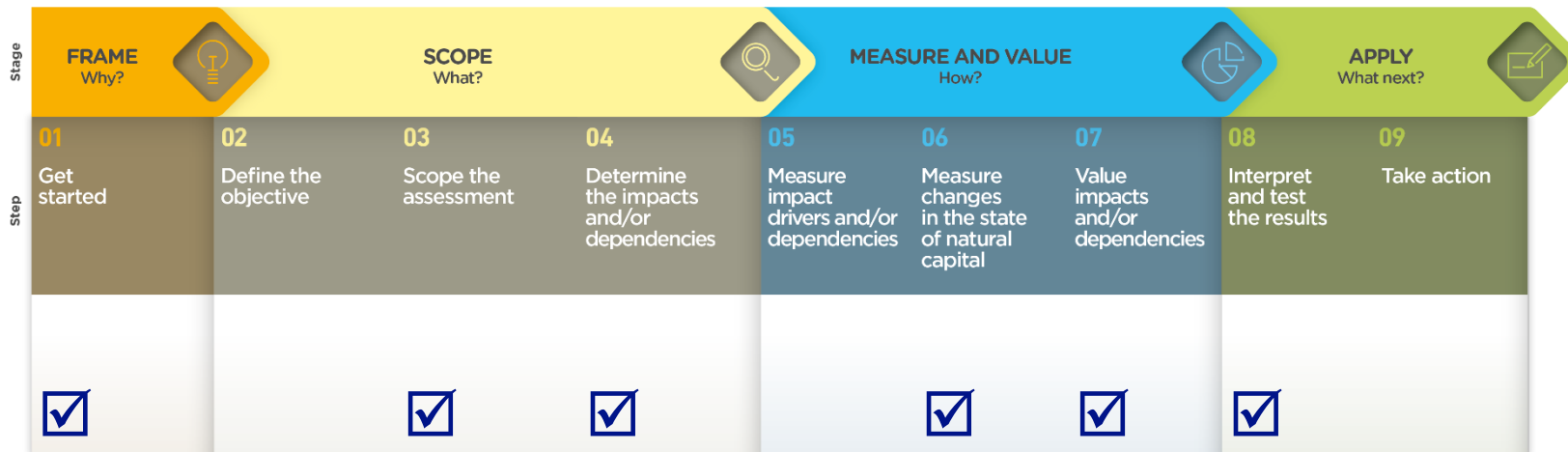
Section 1: Relationship to the Natural Capital Protocol

Impact drivers

Water use <input checked="" type="checkbox"/>	Terrestrial ecosystem use	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	Disturbances
Solid waste	Other resource use	Impact on Biodiversity

Dependencies

Energy	Regulation of physical environment <input checked="" type="checkbox"/>	Knowledge
Materials	Regulation of biological environment	Well-being and spiritual/ethical values <input checked="" type="checkbox"/>
Nutrition	Regulation of waste and emissions	Dependency on biodiversity
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 | Africa | Antarctica | Asia |
| Europe | North America | Oceania | South America |

Sectoral Scope

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

Type of tool and key features

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

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Section 3: Requirements of use

Intended User:

<input checked="" type="checkbox"/> Business	<input type="checkbox"/> General public	<input type="checkbox"/> Conservation organization
<input type="checkbox"/> Policy / government	<input type="checkbox"/> Science / academia	
Other: N/A		

Skills required:

<input type="checkbox"/> No specific skills are required	<input type="checkbox"/> Modelling expertise
<input checked="" type="checkbox"/> Some environmental background needed	<input type="checkbox"/> LCA (Life Cycle Assessment) expertise
<input checked="" type="checkbox"/> Environmental economics	<input type="checkbox"/> Ecology expertise
<input type="checkbox"/> GIS (Geographic Information Systems) expertise	<input type="checkbox"/> Computing expertise
Other: N/A	

Data required:

No Yes

If yes, details: Requires user to provide & process own measurements of water-related impacts, drivers & dependencies.

Average time required:

Hours Days Weeks Months Years

Variables that may affect the time required:

Depends on scope of analysis, and valuation method used (eg conducting own valuation or value transfer).

Software requirements if applicable:

No

Cost to access:

<input checked="" type="checkbox"/> Free to access	<input checked="" type="checkbox"/> Indefinitely (pay once, permanent access)
<input type="checkbox"/> \$1 – 1,000	<input type="checkbox"/> Per use
<input type="checkbox"/> \$1,001 – 5,000	<input type="checkbox"/> Per license
<input type="checkbox"/> \$5,001 – 10,000	<input type="checkbox"/> Per year
<input type="checkbox"/> >\$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)

N/A

N/A

N/A