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## Overview

The Aqueduct project provides open access, web-based global water risk mapping tools to help companies, investors, governments, and other users understand where and how water risks are emerging worldwide. The Aqueduct Water Risk Atlas is widely used by companies and investors to assess exposure to water-related business risks, now and in the future. Aqueduct is used by over 250 global companies reporting water risk to CDP, and Aqueduct data has been incorporated into industry initiatives such as Ceres' Investor Guide to Hydraulic Fracturing and Water Stress and the WBCSD Global Water Tool.

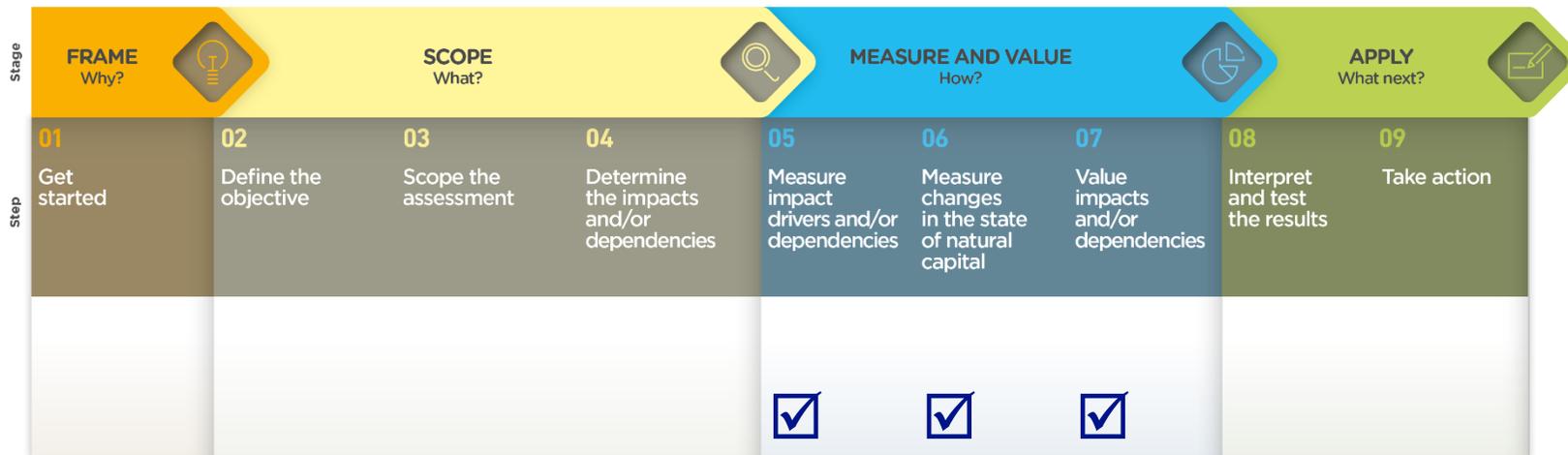
## Section 1: Relationship to the Natural Capital Protocol

### Impact drivers

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

### Dependencies

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



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

- |  |  |
|--|--|
| <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    |
| 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                        | Spreadsheet that does not include any background measurements/values                                       |
| Mechanism to collect ecological data   | Survey or questionnaire  |
| <input checked="" type="checkbox"/> On-line calculator or model                        |  |
| Other: N/A   |  |



### 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: Location coordinates or addresses

#### Average time required:

Hours  Days  Weeks  Months  Years

#### Variables that may affect the time required:

The tool could take longer to use if the user needs to collect location data first.

#### Software requirements if applicable:

No

#### 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:

Yes. The Water Risk Atlas will be updated within the few months.

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

Corporate water risk and opportunity assessments. For example, AB-InBev's operational and supply chain water risk assessment: <http://www.ab-inbev.com/better-world/a-cleaner-world/water.html>

Financial and economic valuation of water risk. For example, Bloomberg's Water Risk Valuation Tool: <https://www.bloomberg.com/bcause/new-tool-integrates-water-risk-considerations-in-equity-valuation-process>

Water risks to energy production. For example, Ceres' Investor Guide to Hydraulic Fracturing and Water Stress: <https://www.ceres.org/issues/water/shale-energy/investor-guide-to-fracking-water-risk/investor-guide-to-hydraulic-fracturing-water-stress>