

# BioScope

Developed by PRé Consultants, Arcadis & CODE. Commissioned by Platform BEE; a collaboration between IUCN NL and VNO-NCW, financed by the Dutch ministry of economic affairs.

Publication year: 2016

Version of tool: 1



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## Overview

Platform BEE's BioScope provides businesses with a simple and fast indication of the most important impacts on biodiversity arising from their supply chain. The results brought by BioScope are aimed at helping you to formulate meaningful actions to further assess and reduce the impact of your business on biodiversity. It not only indicates the potential impact of the commodity you purchase, but also of the upstream supply chain of these commodities. BioScope makes use of Exiobase v 2.2, enabling you to select commodities and resources purchased from 170 sectors in 43 countries, covering the largest part of global economic activities. The resulting impacts on biodiversity are calculated with the ReCiPe method, which includes the following impact drivers: Climate change, terrestrial acidification, freshwater eutrophication, terrestrial ecotoxicity, marine ecotoxicity, freshwater ecotoxicity, agricultural land occupation, water scarcity.

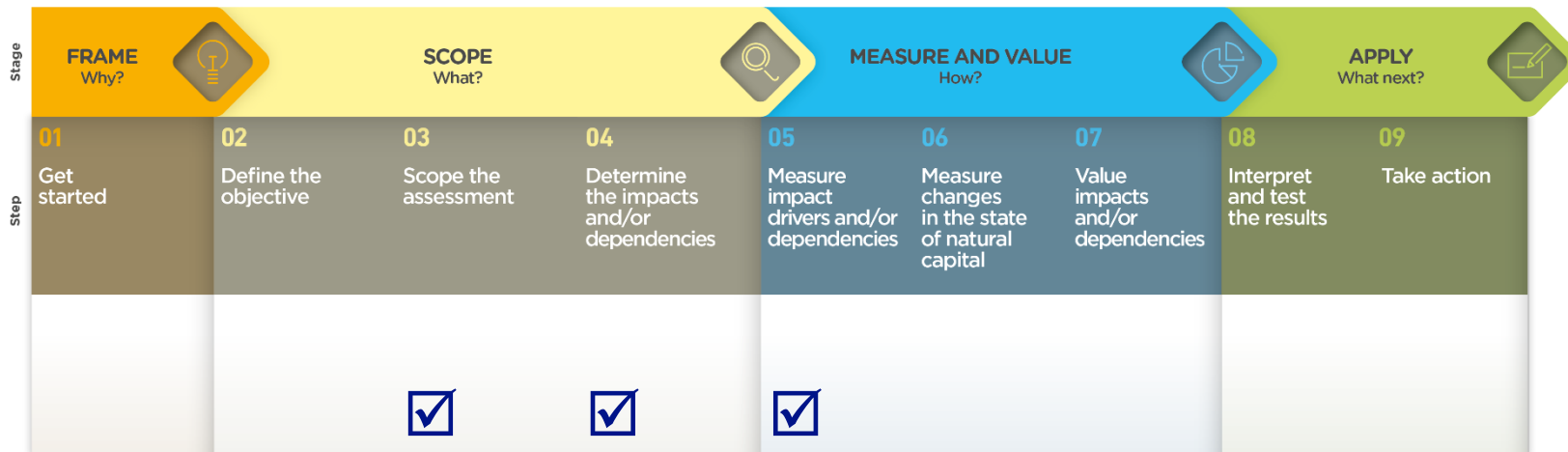
## Section 1: Relationship to the Natural Capital Protocol

### Impact drivers

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

### 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     | Experience                           |   |



### Details on valuation if applicable:

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



## 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 |
| 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                             | 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  |
| <input checked="" type="checkbox"/> 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 checked="" type="checkbox"/> No specific skills are required     | <input type="checkbox"/> Modelling expertise                   |
| <input type="checkbox"/> Some environmental background needed           | <input type="checkbox"/> LCA (Life Cycle Assessment) expertise |
| <input 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: Type of commodity purchased

Spend on the commodity

Country where the commodity is purchased"

### Average time required:

Hours  Days  Weeks  Months  Years

### Variables that may affect the time required:

The time for using BioScope is mostly needed for collecting the relevant data. This time depends highly on the amount of commodities analyzed and the availability of data on spend and country where the commodity is purchased

### Software requirements if applicable:

N/A

### 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:

The tool will at least be freely available until 31-12-2018.

### Other conditions of use:

The user needs to register for the tool. This can be done anonymously

### Planned updates:

Not at this moment

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

N/A

N/A

N/A