

Biodiversity Management Plan Guidance

Cement Sustainability Initiative (CSI) within the WBCSD

Publication year: 2014

Version of tool: 1



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Overview

The objective of this document is to provide practical guidance by presenting the key issues, explaining the connection between operations and healthy ecosystems, outlining some management approaches, and then linking to reference documents, data, tools and guidance so that companies can progressively implement biodiversity into site-level management through the development of an appropriately focused management plan. The Guidance applies primarily to quarries, but the principles can be applied to any mining site. The primary audience for this document is therefore environmental officers and operations managers. Throughout the Guidance, questions are posed to help the reader apply the recommendations directly to the management scenario. Where relevant, decision trees, checklists, case studies and templates are provided. The guidance document was developed following a process of consultation with a range of experts, both among CSI membership and external stakeholders.

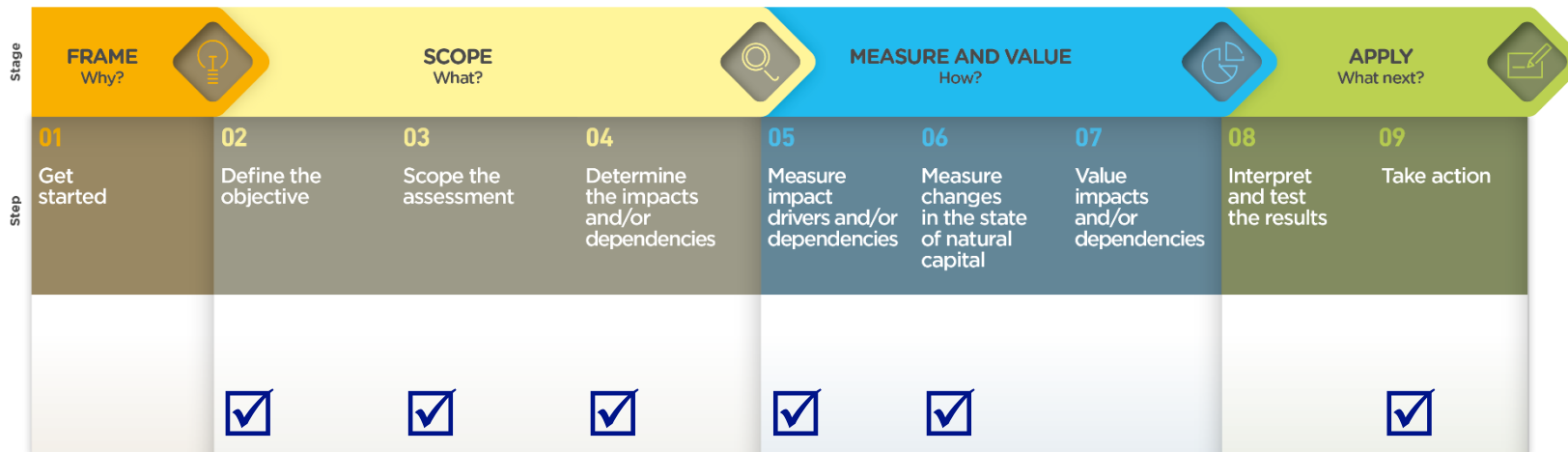
Section 1: Relationship to the Natural Capital Protocol

Impact drivers

Water use	Terrestrial ecosystem use <input checked="" type="checkbox"/>	GHG emissions
Water pollutants	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 <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

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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.

<input type="checkbox"/>	Corporate: Assessment of a corporation or group, including all subsidiaries, business units, divisions, different geographies or markets, etc.
<input checked="" type="checkbox"/>	Project: Assessment of a planned undertaking or initiative for a specific purpose. NOTE this includes assessments of sites, activities, processes, and incidents.
<input type="checkbox"/>	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.

<input checked="" type="checkbox"/>	Upstream (or cradle-to-gate): covers the activities of suppliers, including purchased energy
<input checked="" type="checkbox"/>	Direct operations (or gate-to-gate): covers activities over which the business has direct operational control Including majority-owned subsidiaries.
<input type="checkbox"/>	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 type="checkbox"/>	All sectors	<input 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 checked="" type="checkbox"/>	Construction and engineering services
<input checked="" type="checkbox"/>	Construction materials	<input 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 type="checkbox"/>	Fisheries
<input 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 type="checkbox"/>	Media	<input checked="" type="checkbox"/>	Metals and mining
<input 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)	<input type="checkbox"/>	

Type of tool and key features

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

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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 type="checkbox"/> Environmental economics	<input checked="" 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: baseline biodiversity data

Average time required:

Hours Days Weeks Months Years

Variables that may affect the time required:

Depends on the size of the site under investigation and how ecologically significant it is (e.g. threatened/endemic species etc)

Software requirements if applicable:

No

Cost to access:

<input checked="" type="checkbox"/> Free to access	Indefinitely (pay once, permanent access)
<input type="checkbox"/> \$1 – 1,000	Per use
<input type="checkbox"/> \$1,001 – 5,000	Per license
<input type="checkbox"/> \$5,001 – 10,000	Per year
<input type="checkbox"/> >\$10,000	
Other: This is a freely available tool	

Other information regarding the cost to access:

N/A

Other conditions of use:

N/A

Planned updates:

No updates currently planned

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

<http://www.wbcdcement.org/index.php/key-issues/biodiversity/biodiversity-management/bmp-case-studies>

N/A

N/A