

About

BioScope provides businesses with a fast and effective insight into the most important impacts on biodiversity in their value chain. The results of the tool help you to formulate meaningful actions to further assess and reduce the impact of your business on biodiversity. Examples of questions which can be answered are:

- Which of the commodities purchased by my business causes the largest impact on biodiversity?
- What does the new purchasing strategy of my business mean for our impact on biodiversity?
- What commodity purchased by my business do we need to focus on if we want to make a meaningful contribution to conservation of biodiversity?
- In which regions are these impacts localized?

BioScope makes use of Exiobase v2.2 enabling you to select commodities and resources purchased from 170 sectors in 43 countries (27 EU countries and all large economies outside the EU), covering the largest part of global economic activities. The resulting impacts on biodiversity are calculated with the ReCiPe method, which was specially adapted for BioScope.

This tool has been developed by [PRé Consultants](#), [Arcadis](#) and [CODE](#) commissioned by Platform BEE (Biodiversity, Ecosystems and Economy); a collaboration between [IUCN NL](#) and [VNO-NCW](#) financed by the Dutch ministry of Economic Affairs.

Disclaimer

This tool gives an approximation of the biodiversity impact resulting from the commodities purchased by businesses. The use of country level data on economic activities and their impacts means that the confidence of the outcome is limited. As a quick scan tool, the results provide a quick overview of the potential biodiversity impacts. For a complete impact assessment, subsequent steps will always remain necessary. The results of this tool are meant for internal purposes only and cannot be used for public communication.

Once logged in, the list of assessments can be accessed here

Welcome to BioScope (Beta version)

Biodiversity Input-Output for Supply Chain & Operations Evaluation

NB: You are currently accessing the Beta version of BioScope. The final version will be released on the 16th of December 2016.

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. Examples of questions which can be answered with BioScope are:

- Which of the commodities purchased by my business could be the largest cause of impact on biodiversity?
- What could the new purchasing strategy of my business mean for our impact on biodiversity?
- What commodity purchased by my business do we need to focus on if we want to make a meaningful contribution to conservation of biodiversity?

BioScope makes use of [Exiobase v 2.2](#), enabling you to select commodities and resources purchased from 170 sectors in 43 countries (27 EU countries and all large economies outside the EU), covering the largest part of global economic activities. The resulting impacts on biodiversity are calculated with the [ReCiPe method](#), which was specially adapted for BioScope and includes the following impact drivers:

- Climate change
- Terrestrial acidification
- Freshwater eutrophication
- Terrestrial ecotoxicity
- Marine ecotoxicity
- Freshwater ecotoxicity
- Agricultural land occupation
- Water scarcity

The assessments are stored in a private account. You will need to register prior to creating an assessment

LOGIN >

REGISTER >

Login page
(Account required)

Request a
new account

BioScope (Beta version)

Create a new assessment

Create a new assessment

My assessments

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The unit species.year is a measure for how many vascular plants and lower organisms, on land and in water, are expected to disappear because of the assessed activities. These lower organisms are typically at the beginning of the food chain, and if something goes wrong there, it will have impact on the higher organisms, on which impacts are much more difficult to model.

Total Approximate Impact per commodity

Select Type of visual display

Create a copy an assessment

Delete an assessment

Name	Last edited	Approximate impact	impact contributions per impact driver
Raw Milk	1 month ago	≈3.6e ⁻² species·yr	
Test 1 - Double commodities	1 month ago	≈2.5 species·yr	

Name of assessment

Type of visual display: A visual impression of the assessments can be displayed, in 2 different ways:

- **Impact:** The assessment with the higher 'species.yr' score is displayed as 100%. Other assessments in the page are displayed as a % of this top one.



- **Contribution per impact driver:** For each assessment, the contribution of each impact driver is displayed as a percentage of the total score.



BioScope (Beta version)

New Assessment

On this input page you can provide the data needed to perform the assessment.

The data template below will help you if you need to gather the data off-line. Once you have all the data, you can input it manually into the tool.



Download the offline collection template



Download the Commodities matrix

Excel template for offline data gathering

Commodities matrix – listing the availability of commodities per country

General Information

Please add a name to the assessment. If you want to add additional information for your own use, you can make use of the notes field.

Name

Raw Milk

Name of the product to which the project refers

Notes

Assessment of raw milk including process

Additional notes or general information for your own reference

BioScope (Beta version)

Name

Notes

Commodities Selection

Add the commodities you purchase by clicking the button below. First select the right commodity, then select the country where you purchase it and finally add the amount. [All quantities are in million Euros (Millions of euro's (€) 2007)].

List of Commodities used in Supply Chain
Select:

- Commodity
- Country
- Amount

Maximum limit of commodities is 15

Commodity ▾	Country of origin ▾	Amount ▾	Unit
No commodities have yet been added to this assessment. You can add up to 15 commodities.			
<input type="button" value="ADD ANOTHER COMMODITY +"/> You can add up to 15 commodities per quick scan			
<input type="button" value="SAVE AND CALCULATE >"/>			

Select commodity to be added from list

Save and start calculation

BioScope

Search commodities or key words

Search commodities



Commodity

Processing of dairy products

SELECT

Processing of meat cattle

SELECT

Processing of meat pigs

SELECT

Processing of meat poultry

SELECT

Commodity Name

Commodity Description

Short text describing
included/excluded processes

Add commodity to assessment

Includes:

- + Slaughtering of poultry
- + Preparation of poultrymeat
- + Production of fresh or frozen poultrymeat in individual portions
- + Slaughtering of rabbits and the like
- + Preparation of rabbit meat and the like
- + Production of feathers and down

Excludes:

- Packaging of poultrymeat for own account by the wholesale trade
- Packaging of poultrymeat on a fee or contract basis

Processing of nuclear fuel

SELECT

< Previous 1 2 3 4 Next >

Number of assessments per page 50

SAVE AND CALCULATE

Number of commodities shown

Navigate through commodities list

Total Approximate Impact

BioScope (Beta version)

Approximate impact
Contribution per impact driver
≈ 3.6e² species·yr

Input

Results table

Results on map

Print results

Show Results Table, Results on Map or Print results

Overall Results

The total approximate impact is the aggregated impact for all impact drivers. See the table below for the results for each impact driver separately.

Approximate impact = 3.6e² species·yr

Total Approximate Impact

Disclaimer: This tool gives an approximation of the biodiversity impact resulting from the commodities purchased of country level data on economic activities and their impacts mean that the confidence of the outcome is limited. For a complete impact assessment, subsequent steps will always remain necessary. The results of this tool are meant for internal purposes only and cannot be used for public communication.

See the Methodology document for more information.

Overall results per impact driver

The approximate impact per impact driver is shown in the table below. For each impact driver, the contribution of upstream processes can be explored by clicking on the corresponding line. Only upstream processes that contribute more than 2% to the impact driver are shown.

The shading is according to the contribution to the impact driver:

- 0 - 5 % no shading
- 5-10 % yellow
- 10 - 20 % orange
- > 20 % red

Please refer to the Methodology document for more information regarding each impact driver.

Results per Impact Driver
Table with results from calculation, the colors highlight the highest contributors to the Total Approximate Impact

Contribution by commodity		Approximate impact	Relative contribution
	Climate change	≈ 1.0e ² species·yr	29.6%
	Terrestrial ecotoxicity	≈ 2.8e ² species·yr	< 0.1%
	Marine ecotoxicity	≈ 2.8e ² species·yr	< 0.1%
	Freshwater ecotoxicity	≈ 2.4e ² species·yr	< 0.1%
	Agricultural land occupation	≈ 2.5e ² species·yr	70.1%
	Water scarcity	≈ 4.7e ² species·yr	0.1%

Relative Contribution.
This shows the contribution in percentage to the overall impact of each impact driver.

Clicking on an impact driver will display the contribution of each commodity entered to the impact driver selected

Results on Map

BioScope (Beta version)

Approximate impact
Contribution per impact driver
= 3.6e4 species-yr

Input

Results table

Results on map

Print results

Contribution per impact driver

The contribution of upstream processes to the impact driver can be explored by clicking on the corresponding tab. Only upstream processes contributing more than 2% to the impact driver are shown.

The shading is according to the contribution to the impact driver:

- 0 - 5 % no shading
- 5 - 10 % yellow
- 10 - 20 % orange
- > 20 % red

Please refer to the Methodology document for more information regarding each impact driver.



Climate change
Large-scale, long-term shift in the planet's weather patterns or average temperatures. These changes affect species composition through complex interactions among species and between species and their habitats.

Total impact on biodiversity = $-1.0 \text{ e}^4 \text{ species-yr}$ 30%

Contribution by commodity	Country of origin	Approximate impact	Relative contribution
Processing of dairy products	Denmark	$= 9.9 \text{ e}^4 \text{ species-yr}$	0%
Manufacture of basic iron and steel and of ferro-alloys and first products thereof	Sweden	$= 8.7 \text{ e}^4 \text{ species-yr}$	83%
Manufacture of rubber and plastic products	Denmark	$= 3.9 \text{ e}^4 \text{ species-yr}$	0%
Transmission of electricity	Denmark	$= 7.3 \text{ e}^4 \text{ species-yr}$	7%

Result Map

The map below displays the impact of the upstream supply chain of the selected commodities per country or region. By hovering your mouse over a country or region, you can see which of these upstream processes are contributing to the national or regional impact of your supply chain.



Contribution by process

The table below displays the data at a disaggregated level, jointly giving the result displayed in the map above.

Contribution by process	Country of origin	Approximate impact	Relative contribution
Manufacture of basic iron and steel and of ferro-alloys and first products thereof	Sweden	$= 5.1 \text{ e}^4 \text{ species-yr}$	48%
Mining of coal and lignite, extraction of peat	Australia	$= 4.0 \text{ e}^4 \text{ species-yr}$	4%
Manufacture of basic iron and steel and of ferro-alloys and first products thereof	Germany	$= 3.6 \text{ e}^4 \text{ species-yr}$	3%
Production of electricity by coal	China	$= 2.6 \text{ e}^4 \text{ species-yr}$	2%
Production of electricity by coal	Germany	$= 2.2 \text{ e}^4 \text{ species-yr}$	2%
Remaining processes		$= 4.2 \text{ e}^4 \text{ species-yr}$	40%

Print Results
Creates a ready-to-print report of the assessment

Impact Drivers Tabs
Including the contribution percentage to the overall impact

Impact on Biodiversity and relative contribution of the commodities entered, for selected impact driver

Map
Showing in which country the impact on biodiversity is caused for the selected impact driver.
For each highlighted country, the contribution of the supply chain is shown (by hovering or clicking over)

Save map in *.png format

Contribution per process table
Shows the commodities, from the entire supply chain, which