

Calculate -> 

Analyze a single process

- Step 1: Select the right libraries
- Step 2: Select process
- Step 3: Analyze single process

Step 1: Select the right libraries

Select the Libraries tab

Make sure IDEMAT and Methods is checked

C:\Users\rober\Downloads\simaprotud2025RevA7_simaprotud2025continued - 250528\Professional; calculations

File Edit Calculate Tools Window Help

LCA Explorer

Goal and scope	Selected	Name
Description	☒	Agri-footprint - economic - system
Libraries	☐	Agri-footprint - economic - unit
Inventory	☐	Ecoinvent 3.9 - ECOCOSTS - allocation, cut-off, unit
Processes	☐	ELCD
Product stages	☐	EU & DK Input Output Database
System descriptions	☒	IDEMAT Dynamic
Waste types	☐	Industry data 2.0
Parameters	☐	LCA Food DK
Impact assessment	☒	Methods
Methods	☐	USEEIO
Calculation setups	☐	USLCI
Interpretation	☐	USLCI+
Interpretation	☐	World Food LCA Database
Document Links		
General data		
Literature references		
Substances		
Units		
Quantities		

Agri-footprint version 6.3 (September 2022) as system processes (results). Uncertainty data are not included.

SIM Foundation 003

Step 2: Browse the process to analyze

Select the process
To analyze
In the process browser

(it is easier to browse
when unchecking “show
as list”)

File Edit Calculate Tools Window Help

LCA Explorer

Goal and scope
Description
Libraries
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Product stages
System descriptions
Waste types
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Calculation setups
Interpretation
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Units
Quantities

Processes

- Material
 - .Key LCIs Idemat Dynamic
 - .Proxi data, chemicals, Clas
 - .Scope 1 and downstream
 - .tests
- Agricultural
 - Animal feed
 - Animal production
 - others
 - Plant oils
 - Plant production
- Ceramics
- Chemicals
- Construction
 - Binders
 - Bitumen and asphalt
 - Bricks
 - Concrete
 - Insulation
 - others
 - Paints
- Electronics
- Fibers
- Food
 - Food new
- Fuels
- Glass
- Laminates
- Metals
 - Alloys
 - Ferro
 - Cast irons
 - Market
 - Stainless steels

2527 items

Filter on ☒ and ☐ or

Name	Unit	Waste type	Project
A.010.02.101.240318 Leather Chrome tanning - hides from Argentina	kg	.O textiles, o...	IDEMAT Dynamic
A.010.02.102.240318 Leather Vegetable tanning - hides from Europe	kg	.O textiles, o...	IDEMAT Dynamic
A.010.02.103.230701 Wool (from Australia transported to Rotterdam)	kg	.O textiles, o...	IDEMAT Dynamic
A.010.02.104.230701 Wool at farm Australia	kg	.O textiles, o...	IDEMAT Dynamic
A.010.02.105.230701 wool, greasy, at farm Australia	kg	not defined	IDEMAT Dynamic
Z.010.02.105.230701 sheep carcass Australia	kg	not defined	IDEMAT Dynamic

1 item selected (of 6 items)

LCA for leather (chromium process), Italy. Hides assumed to be a byproduct of milk and meat production without significant v
Unfortunately there is not one reliable LCA of a tannery. A lot of papers are far to vague about the chemicals that are used. We
energy.

SIM Foundation 003 10.2.0.2 An

Step 3: Analyze single process

Click on  button

FileEditCalculateToolsWindowHelp

LCA Explorer

Goal and scope

Description

Libraries

Inventories

Processes

Product stages

System descriptions

Waste types

Parameters

Impact assessment

Methods

Calculation setups

Interpretation

Interpretation

Document Links

General data

Literature references

Substances

Units

Quantities

Processes

Material

Key: I: IMA Dynamic

.Proxi data, chemicals, Clas

.Scope 1 and downstream

.tests

Agricultural

Animal feed

Animal production

others

Plant oils

Plant production

Ceramics

Chemicals

Construction

Binders

Bitumen and asphalt

Bricks

Concrete

Insulation

others

Paints

Electronics

Fibers

Food

Food new

Fuels

Glass

Laminates

Metals

Alloys

Ferro

Cast irons

Market

Stainless steels

Cast steels

Filter

and or

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2527 items

1 item selected (of 6 items)

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10.2.0.2 An

Step 3: Analyze single process

Make sure the Method is ecocosts (or whichever you desire)

Click calculate

New calculation setup

General | Parameter sets | Analyze groups | Chart options

Name

Comment

Calculation function

☐ Network Switches ☐ Inventory per sub-compartment

☐ Tree ☐ Exclude infrastructure processes

☒ Analyze ☐ Exclude long-term-emissions

☐ Compare

☐ Uncertainty analysis

Method

Product	Amount	Unit	Project	Comment
A.010.02.102.240318 Leather Vegetable tanning - hides from Europe	1	kg	IDEMAT Dynamic	
Add line				

Current library Suffix

Replacing library Suffix

Help Calculate Close

Step 3: Analyze single process

There are two tabs that are interesting:

“characterization”
(midpoints)

and

“single score”
(eco-costs)

The screenshot shows the Simapro software interface. The top menu bar includes 'Edit', 'Calculate', 'Tools', 'Window', and 'Help'. Below it is a toolbar with various icons for file operations and calculations. The main window displays the 'LCA Explorer' pane with a tree view showing the project structure. The 'Impact assessment' tab is selected, and the 'Characterization' sub-tab is active. The 'Single score' option is highlighted in the 'Weighting' section. The table below lists the impact categories and their corresponding values for different product flows.

Select	Impact category	Unit	Total	A.010.02.102.240318	A.030.04.101.230701	P.030.18.300.230709	M.020.20.110.240319	Z.030.18.141.230701	A.030.10.128.230701	A.030.10.110.250311	A.030.10.116.230701	A.030.10.116.230701	A.030.10.118.230803	A.030.10.123.230803	A.030.02.104.230701	B.030.02.104.250311
☒	Carbon footprint	kg CO2 eq	17,8	12	0,0227	0,00918	0,12	0,352	2,71	0,134	0,0622	0,066	0,115	0,452	0,00515	0,7
☒	Ecotoxicity, freshwater	CTUe	1,32	x	0,00399	0,00037	1,62E-6	0,405	0,478	0,0429	0,0484	0,0514	1,81E-8	3,98E-8	x	x
☒	Use fuels (uranium + tra. fuels)	euro	0,0402	x	3,96E-5	6,88E-5	x	0,00175	0,00346	0,000146	2,53E-5	2,68E-5	x	x	x	0,0
☒	Eutrophication terrest. plus fresh water	Mol N eq	0,0235	x	7,54E-5	1,83E-5	0,0023	0,0038	0,00895	0,000411	0,000465	0,000494	0,000121	0,000529	x	0,0
☒	Acidification	mol H+ eq	0,00999	x	1,05E-5	3,62E-5	0,00164	0,000555	0,00122	0,000321	0,000357	0,000379	0,00241	0,00186	2,32E-7	0,0
☒	Photochemical ozone formation	kg NMVOS	0,00674	x	2,16E-5	4,27E-6	0,000445	0,00119	0,00278	0,000105	0,000119	0,000126	3,24E-5	7,1E-5	4,81E-5	0,0
☒	Plastic soup	kg oil equ	0,00366	x	2,52E-7	x	x	3,13E-5	x	8,28E-8	x	x	x	x	x	x
☒	Particulate matter	kg PM2.5	0,00319	0,00274	4,32E-7	2E-6	x	1,61E-5	5,04E-5	5,32E-6	5,95E-6	6,31E-6	5,24E-5	0,000212	x	1,5
☒	Metals scarcity	euro	0,00243	x	4,33E-6	1,4E-6	x	6,79E-5	0,00136	5,2E-6	4,65E-6	4,93E-6	x	x	0,000189	0,0
☒	Biodiversity & Land use change	biofactor	1,34E-5	x	1,35E-8	9,16E-9	x	3,68E-7	1,53E-6	4,38E-8	1,81E-8	1,93E-8	x	x	x	x
☒	Baseline Water Stress	m3 equiv	1,15E-5	x	3,17E-10	x	x	3,94E-8	x	6,85E-6	x	x	x	x	x	x
☒	Human toxicity, non-cancer	CTUh	3,62E-9	x	8,2E-12	3,47E-11	2,23E-13	1,52E-10	9,7E-10	7,03E-11	7,45E-11	7,91E-11	1,26E-14	2,76E-14	x	x
☒	Human toxicity, cancer	CTUh	3,99E-10	x	2,18E-12	1,93E-13	x	1,8E-11	2,62E-10	4,45E-12	5,4E-12	5,73E-12	x	x	x	x
☒	Landfill	euro	4,86E-11	x	3,35E-15	x	x	4,17E-13	x	1,1E-15	x	x	x	x	x	x

Characterization tab

Total per impact category

Check all these boxes (when possible)

The screenshot shows the Simapro software interface with the 'Impact assessment' tab selected. The 'Skip categories' dropdown is set to 'Never'. The 'Exclude long-term emissions' checkbox is checked. The table displays various impact categories with their units and total values. Red arrows point to the 'Skip categories' dropdown and the 'Exclude long-term emissions' checkbox.

Select	Impact category	Unit	Total
☒	Carbon footprint	kg CO2 eq	17,8
☒	Ecotoxicity, freshwater	CTUe	1,32
☒	Use fuels (uranium + tra. fuels)	euro	0,0402
☒	Eutrophication terrest. plus fresh water	Mol N eq	0,0235
☒	Acidification	mol H+ eq	0,00999
☒	Photochemical ozone formation	kg NMVOS	0,00674
☒	Plastic soup	kg oil equ	0,00366
☒	Particulate matter	kg PM2.5	0,00319
☒	Metals scarcity	euro	0,00243
☒	Biodiversity & Land use change	biofactor	1,34E-5
☒	Baseline Water Stress	m3 equiv	1,15E-5
☒	Human toxicity, non-cancer	CTUh	3,62E-9
☒	Human toxicity, cancer	CTUh	3,99E-10
☒	Landfill	euro	4,86E-11

Single score (eco-costs) tab

Total per impact category

Check these boxes

The screenshot shows the LCA Explorer software interface. The 'Impact assessment' tab is selected, and the 'Single score' sub-tab is active. A table displays impact categories and their values. A red box highlights the 'Total' row, and a red arrow points to the 'Default units' checkbox.

Select	Impact category	Unit	Total
☒	Total	Euro	3,01
☒	Carbon footprint	Euro	2,67
☒	Particulate matter	Euro	0,128
☒	Acidification	Euro	0,0764
☒	Photochemical ozone formation	Euro	0,0412
☒	Use fuels (uranium + tra. fuels)	Euro	0,0402
☒	Eutrophication terrest. plus fresh water	Euro	0,0402
☒	Ecotoxicity, freshwater	Euro	0,00382
☒	Plastic soup	Euro	0,00285
☒	Metals scarcity	Euro	0,00243
☒	Human toxicity, non-cancer	Euro	0,000783
☒	Human toxicity, cancer	Euro	0,000367
☒	Biodiversity & Land use change	Euro	9,22E-5
☒	Baseline Water Stress	Euro	1,31E-5
☒	Landfill	Euro	4,86E-11