

Build your own LCA with a Bill of Materials

- Step 1: Create new project
- Step 2: Create input/outputs

Step 1: Create new project

Open project folder

Click new
Create a new project

The screenshot shows the LCA Explorer software interface. The top menu bar includes File, Edit, Calculate, and Tools. The left sidebar contains a tree view with categories like Goal and scope, Inventory, Processes, Product stages, System descriptions, Waste types, Parameters, Impact assessment, Methods, Calculation setups, Interpretation, Document Links, and General data. The main area displays a list of processes, including Leather Chrome tanning, Leather Vegetable tanning, Wool, and various agricultural products. A 'New project' dialog box is open in the foreground, with a red box highlighting the 'New' button. The dialog box has a 'Filter on' field, a 'Clear' button, and a 'Filtered 5 of 18' indicator. It also has a 'Hide library projects' checkbox. The 'Name' field is filled with 'my product'. The 'OK' and 'Cancel' buttons are also visible. A red arrow points from the 'New' button in the dialog box to the 'New' button in the main interface.

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			

Name	Type	Protection
calculations		
Idemat Food 2023		
my prOject		
Tutorial with wood exampl		

Litt. Wiedemann et al. Application of life cycle assessment to sheep production systems: investigating co-production of wool and producers. Int J Life Cycle Assess (2015) 20:463–476. Table 1 and 3, Case 4. Merino, high quality wool. yield 50% from greasy wool.

Step 1: Create new project

Select IDEMAT dynamic and Methods checkboxes

Selected	Name
☐	Agri-footprint - economic - system
☐	Agri-footprint - economic - unit
☐	Ecoinvent 3.9 - ECOCOSTS - allocation, cut-off, unit
☐	ELCD
☐	EU & DK Input Output Database
☒	IDEMAT Dynamic
☐	Industry data 2.0
☐	LCA Food DK
☒	Methods
☐	USEEIO
☐	USLCI
☐	USLCI+
☐	World Food LCA Database

Step 1: Create new project

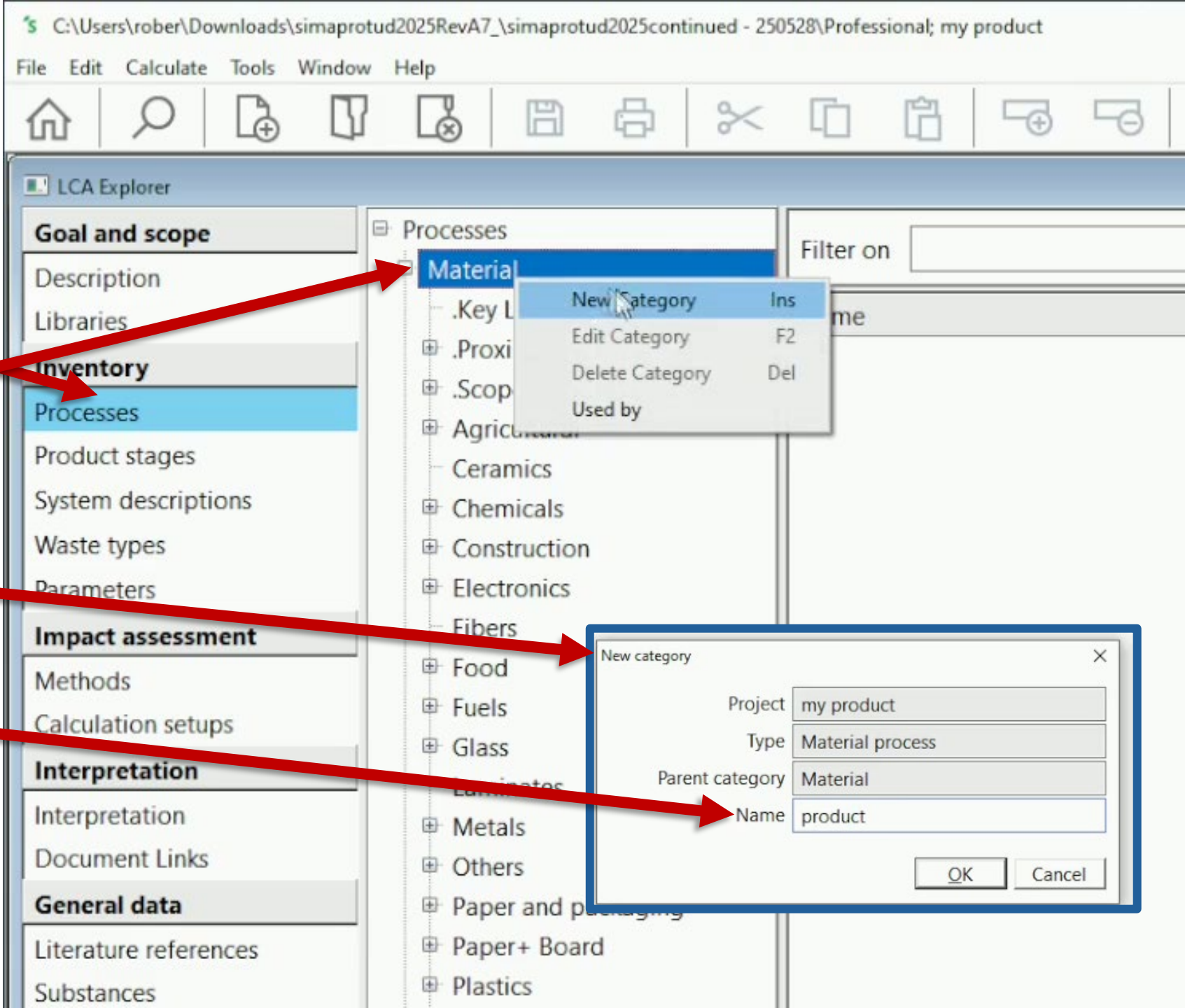
Select processes

Right-click material

New category

Give the product a name

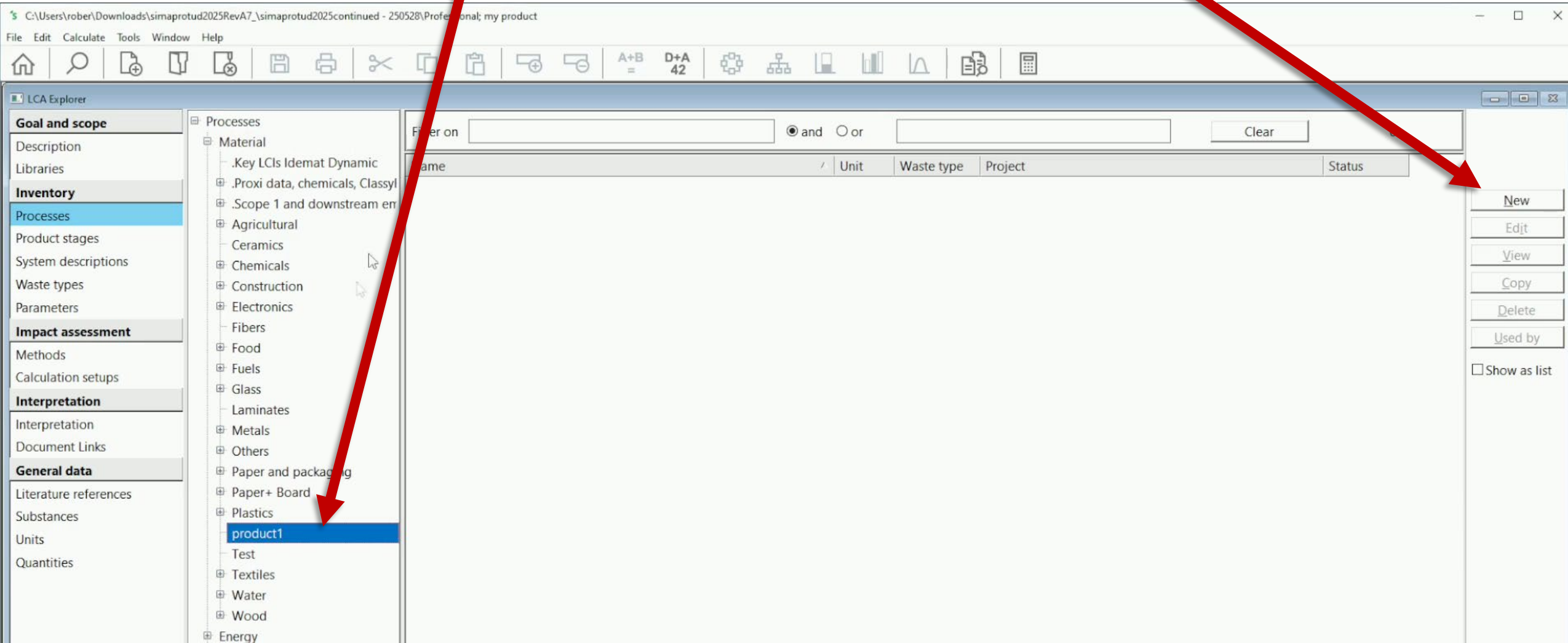
And press OK



Step 2: Create input/outputs

The location of the project is now in the process browser.

Click on new



Step 2: Create input/outputs

In the new dialog, go to input/output

New material process

Documentation **Input/output** Parameters System description

Products

Outputs to technosphere: Products and co-products	Amount	Unit	Quantity	Waste type	Allocation	Category	Comment
	0	kg	Mass	not defined	100 %	product1	
Add line							

Outputs to technosphere: Avoided products	Amount	Unit	Distribution	SD2 or 2SD	Min	Max	Comment
Add line							

Inputs

Inputs from nature	Subcompartment	Amount	Unit	Distribution	SD2 or 2SD	Min	Max	Comment
Add line								
Inputs from technosphere: materials/fuels		Amount	Unit	Distribution	SD2 or 2SD	Min	Max	Comment
Add line								
Inputs from technosphere: electricity/heat		Amount	Unit	Distribution	SD2 or 2SD	Min	Max	Comment
Add line								

Outputs

Emissions to air	Subcompartment	Amount	Unit	Distribution	SD2 or 2SD	Min	Max	Comment
Add line								
Emissions to water	Subcompartment	Amount	Unit	Distribution	SD2 or 2SD	Min	Max	Comment

Step 2: Create input/outputs

Insert inputs from technosphere (materials/energy) and outputs (product, emissions to water, soil etc.)

New material process

Documentation

Input/output

Parameters

System description

Products

Outputs to technosphere: Products and co-products	Amount	Unit	Quantity	Waste type	Allocation	Category	Comment
car	1	kg	Mass	not defined	100 %	product1	
Add line							

Outputs to technosphere: Avoided products	Amount	Unit	Distribution	SD2 or 2SD	Min	Max	Comment
Add line							

Inputs

Inputs from nature	Subcompartment	Amount	Unit	Distribution	SD2 or 2SD	Min	Max	Comment
		0		Undefined				
Add line								

Inputs from technosphere: materials/fuels	Amount	Unit	Distribution	SD2 or 2SD	Min	Max	Comment
A.100.24.100.241123 Aluminium trade mix Global (64% prim 36% sec)	0,3	kg	Undefined				
A.100.02.101.250105 Steel market mix USA 69.2% EAF for beams & sheet	0,7	kg	Undefined				
Add line							

Inputs from technosphere: electricity/heat	Amount	Unit	Distribution	SD2 or 2SD	Min	Max	Comment
B.040.01.101.250101 Electricity General Industry	3	MJ	Undefined				
B.050.01.101.230701 Heat - General Industry	2	MJ	Undefined				
Add line							

Step 2: Create input/outputs

The product is now in the process library under the specified category.

C:\Users\rober\Downloads\simaprotud2025RevA7_\simaprotud2025continued - 250528\Professional; my product

File Edit Calculate Tools Window Help

Home

Search

Save

Print

Cut

Copy

Paste

Undo

Redo

A+B =

D+A 42

Insert

Format

Tools

Help

LCA Explorer

Goal and scope

Description

Libraries

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Processes

Product stages

System descriptions

Waste types

Parameters

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Interpretation

Interpretation

Document Links

General data

Literature references

Substances

Units

Quantities

Processes

Material

.Key LCIs Idemat Dynamic

.Proxi data, chemicals, Classyl

.Scope 1 and downstream en

Agricultural

Ceramics

Chemicals

Construction

Electronics

Fibers

Food

Fuels

Glass

Laminates

Metals

Others

Paper and packaging

Paper+ Board

Plastics

product1

Test

Filter on

and or

Clear

1

Name	Unit	Waste type	Project	Status
car	kg	not defined	my product	None

Network

Tree

Analyze

Compare

Uncertainty Analysis

Select Tree

New

Edit

View

Copy

Delete

Used by

New

Edit

View

Copy

Delete

Used by

Show as list