

Master carbon accounting: PCF, LCA, and EPD explained Webinar

23/10/2025

High-Level

Key topics:

Building your scope 3 footprint and transitioning to supplier-specific data

What questions to ask to get the right data

The differences between PCF, LCA, and EPD

When to use each and the essentials to answer customer questions

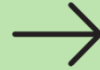


Why it matters



Why it matters:

- Investors expect it
- Legislation guides you
- Make choices with impact
- Create brand value
- Impact risk in your value chain



Which question is answered:

- Refine your Scope 3
- Optimize your product
- Differentiate yourself
- Make a product claim
- Compare Suppliers
- Procure Sustainably

What solution you need:

- Product Carbon Footprint (PCF)
- Life Cycle Assessment (LCA)
- Environmental Product Declaration (EPD)
- Environmental Cost Indicator (ECI)

Why it matters

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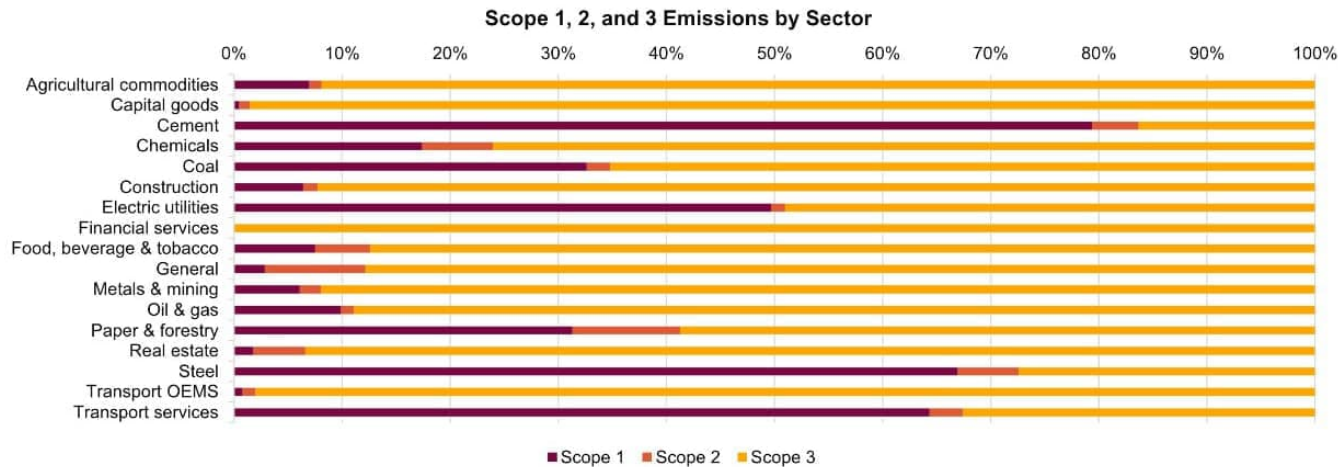
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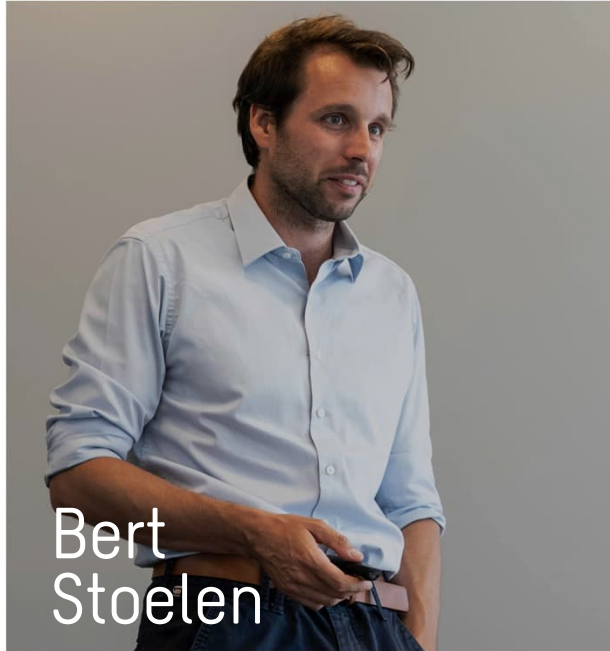
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Experts in sustainability management



Bert
Stoelen

Project manager

Carbon accounting, PCF & CSRD, Sweco

bert.stoelen@swecobelgium.be



Stijn
Verdoodt

Expert

LCA & Circular Economy, Sweco

stijn.verdoodt@swecobelgium.be

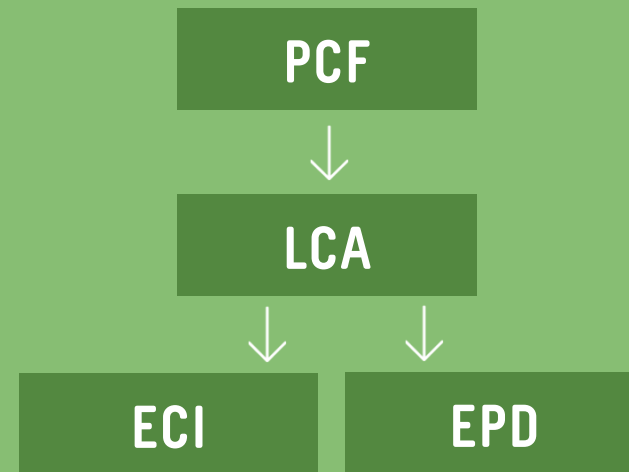
Concepts

Understanding PCF, LCA and EPD



OVERVIEW

Complexity /
Maturity ↓



Concepts

01

Product
Carbon
Footprint

02

Life
Cycle
Assessment

03

Environmental
Product
Declaration

04

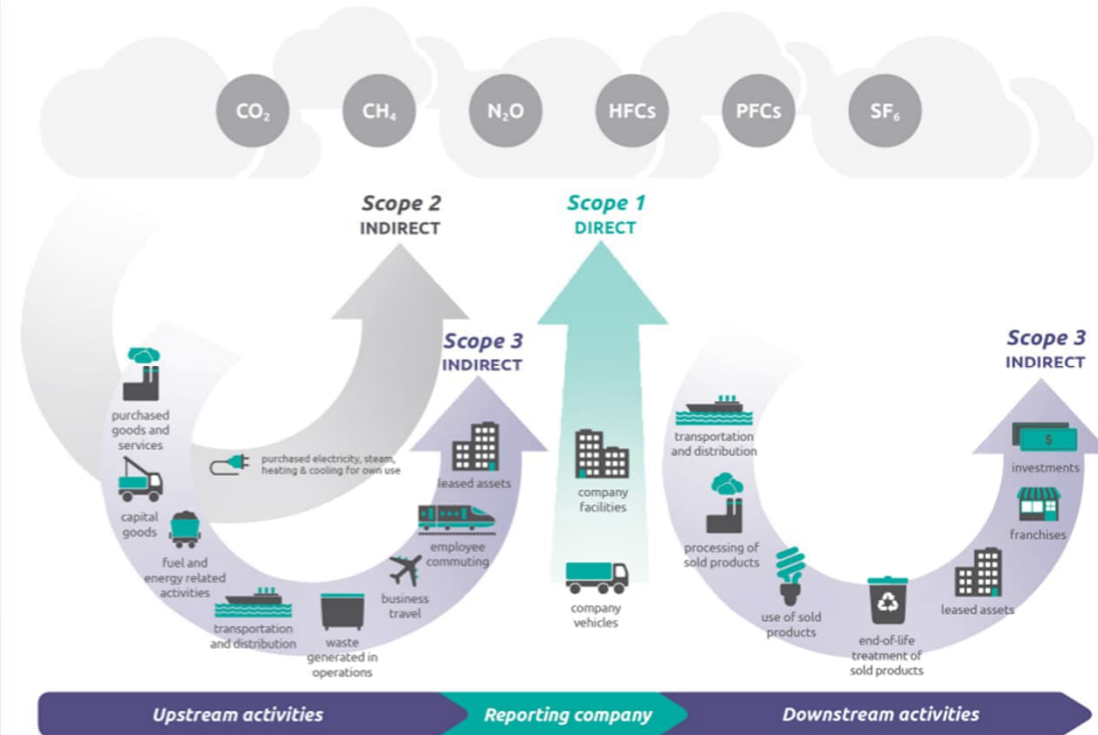
Environmental
Cost
Indicator



Corporate carbon footprint (CCF)



- Top down
- Carbon Accounting for total company's activities
- E.g. CCF Chemical Company = 1 000 000 ton CO₂eq / year



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Product carbon footprint (PCF)



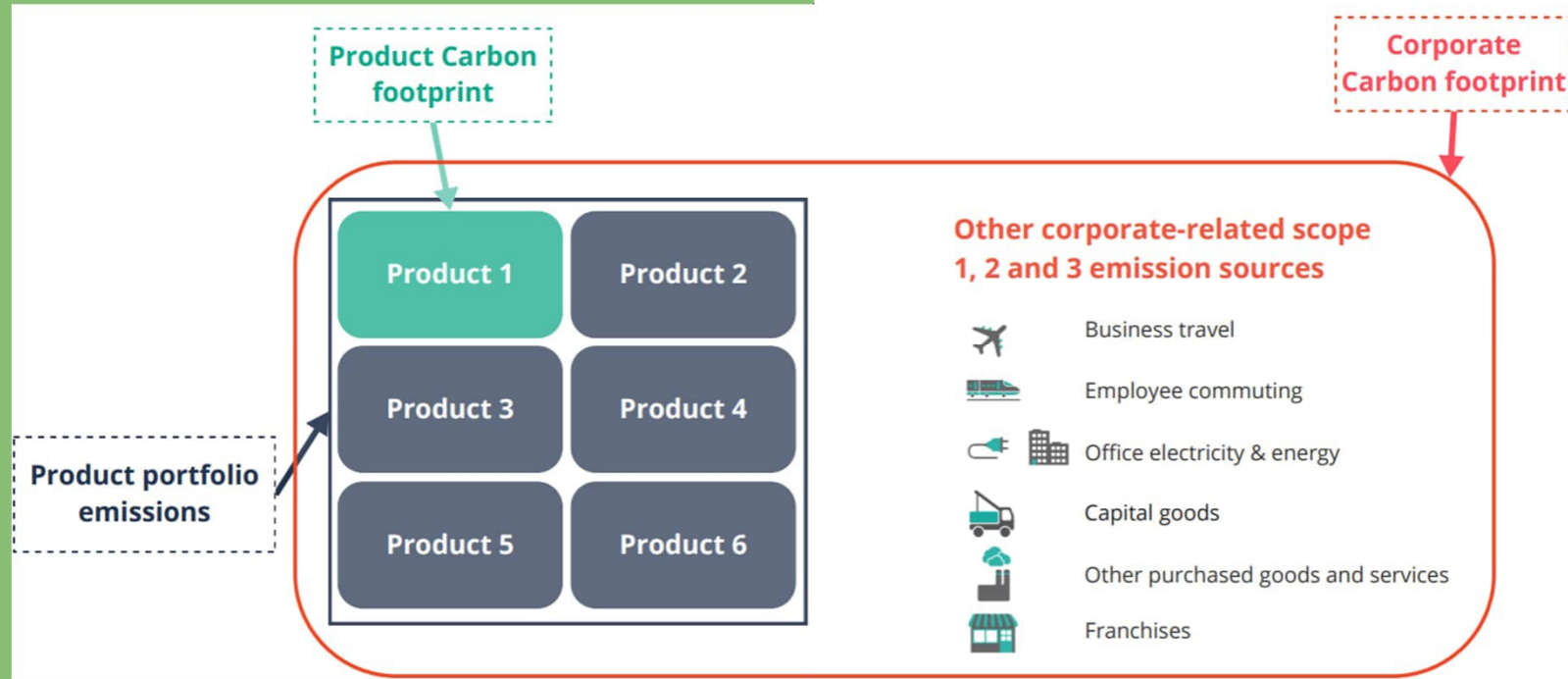
- Bottom up
- Product-specific over its total lifecycle
- E.g. PCF Polypropylene = 2 kg CO₂eq / kg PP

Emission Factor (EF)

Corporate carbon footprint (CCF)

Product carbon footprint (PCF)

Base case

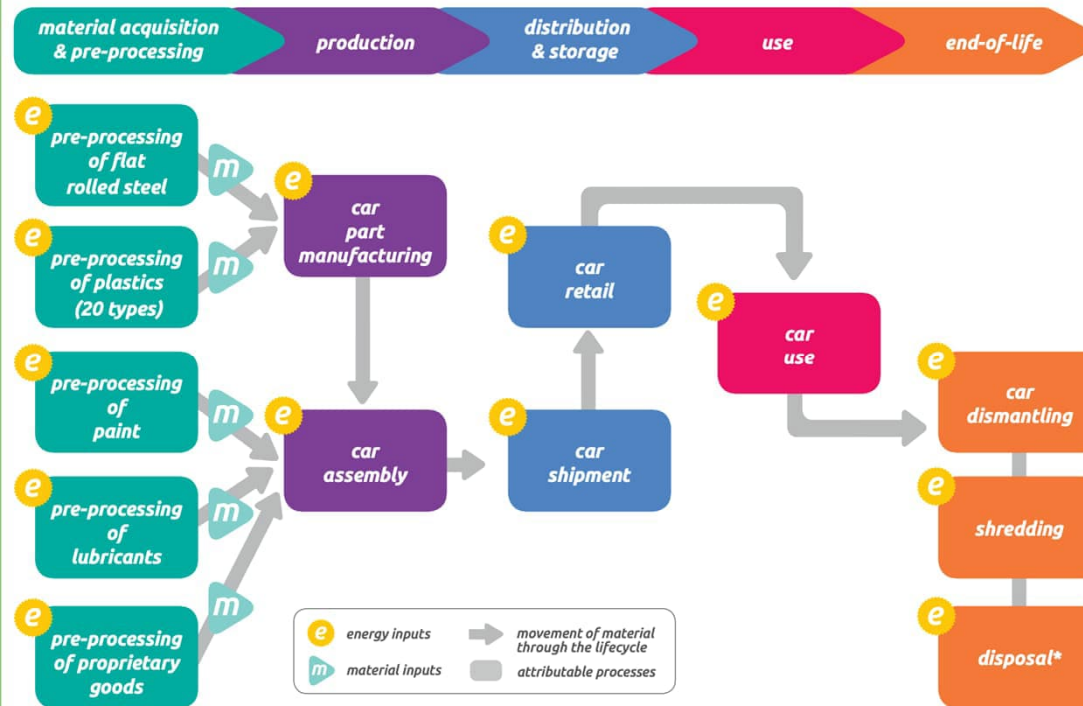


- Portfolio emissions = 800 000 ton CO₂eq / year
- Production of Polypropylene = 400 000 ton / year
- ➔ PCF = 2 kg CO₂eq / kg PP

Product carbon footprint (PCF)

Best case

Figure [7.2] Sample process map for a car (cradle-to-grave inventory)



* Recycling of parts is not included in this simplified example

Inputs:

- Energy
- Material inputs
- Transport
- Waste

Product carbon footprint (PCF)

Result:

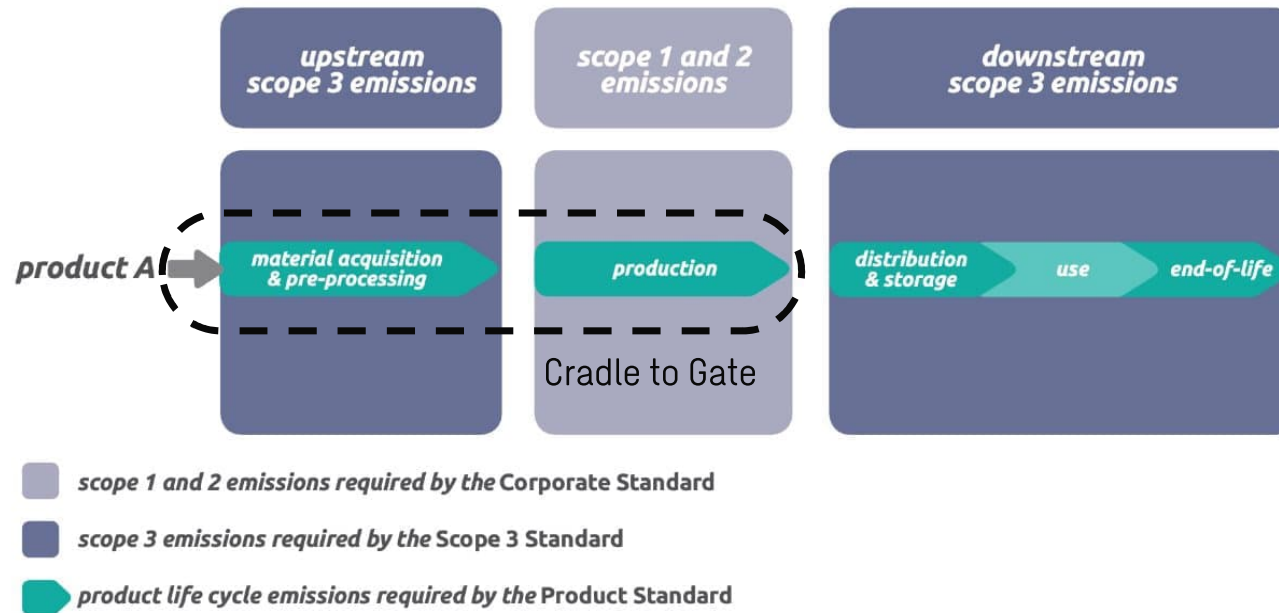
- Product emissions (intensity)
 - Per Lifecycle step
 - Per GHG-protocol category

Results			
0.580 kg CO2e / kg		Scope 1	1.76%
		Scope 2	0.41%
		Scope 3	97.82%
Inventory results per life cycle step		kg CO2e / kg	% of total
Material acquisition and preprocessing		0.562	96.99%
Production		0.017	3.01%
Inventory results per GHG-protocol category		kg CO2e / kg	% of total
Company facilities		0.010	1.76%
Purchased electricity		0.002	0.41%
Purchased goods & services		0.546	94.20%
Energy related activities		0.002	0.34%
Upstream transportation & distribution		0.016	2.79%
Waste		0.003	0.49%
Totaal		0.580	

Corporate carbon footprint (CCF)

Product carbon footprint (PCF)

Figure [1.1] The relationship between the *Corporate, Scope 3, and Product Standards* for a company manufacturing product A



Concepts

01

Product
Carbon
Footprint

02

Life
Cycle
Assessment

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LCA: a holistic and quantitative approach to environmental impact

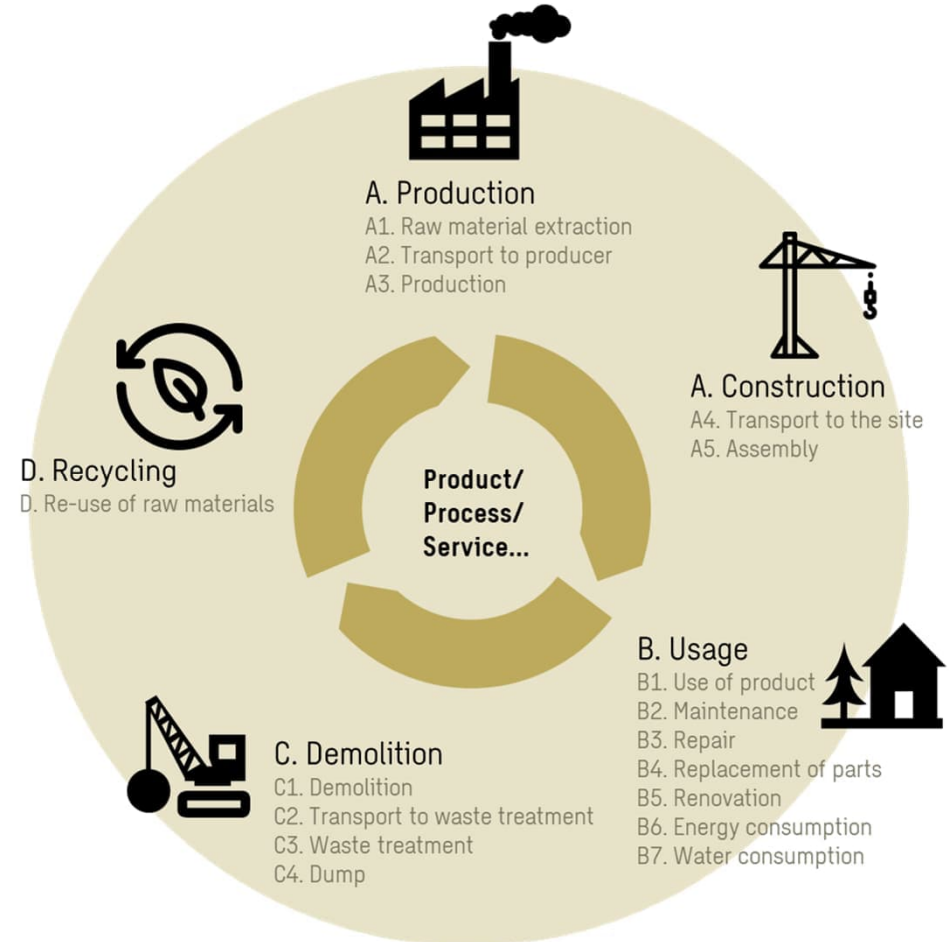
A life-cycle assessment (LCA) is an evaluation of the effects that a product/process/service... has on the environment over the entire period of its life.

QUANTITATIVE

- Based on numbers of inputs (raw materials, energy, water) and outputs (waste, products, emissions..)

HOLISTIC

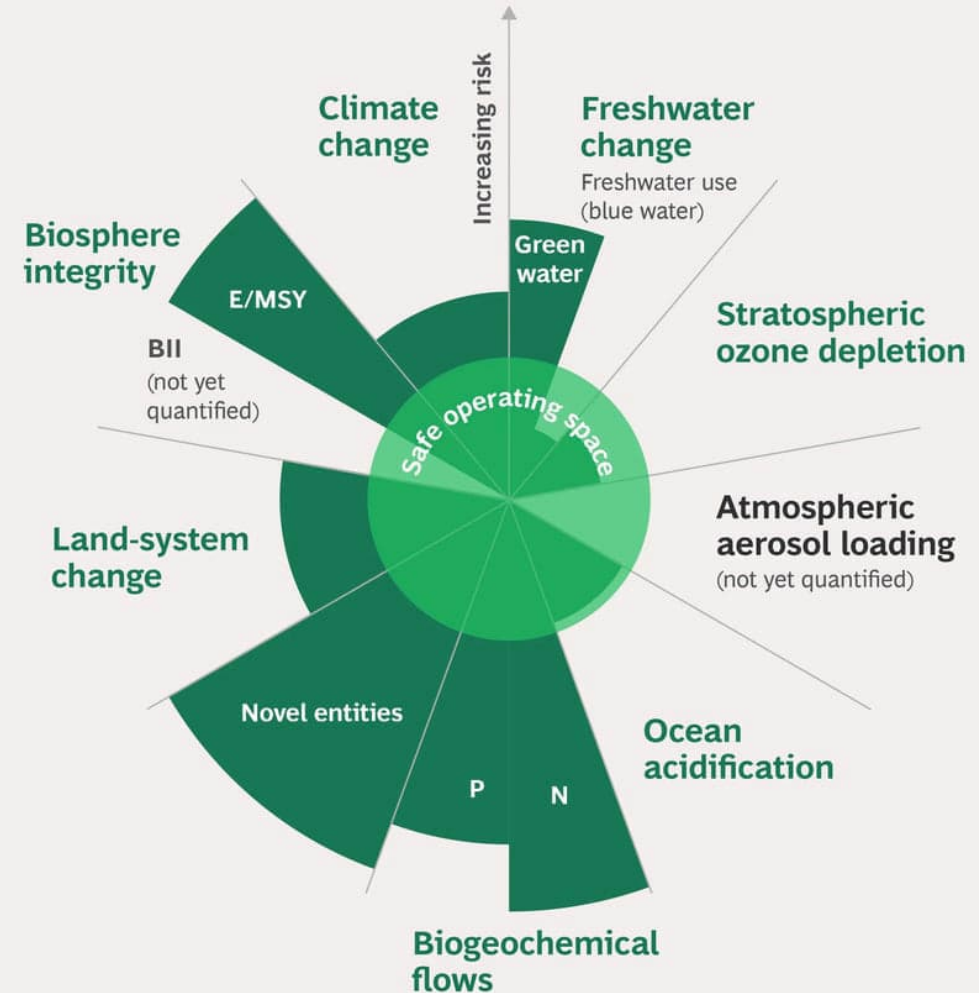
- Over the whole life span
- Multiple environmental impacts



Impacts assessed by LCA



The Nine Planetary Boundaries



Standard: ISO 14044 and ISO 14040

1

2

3

4

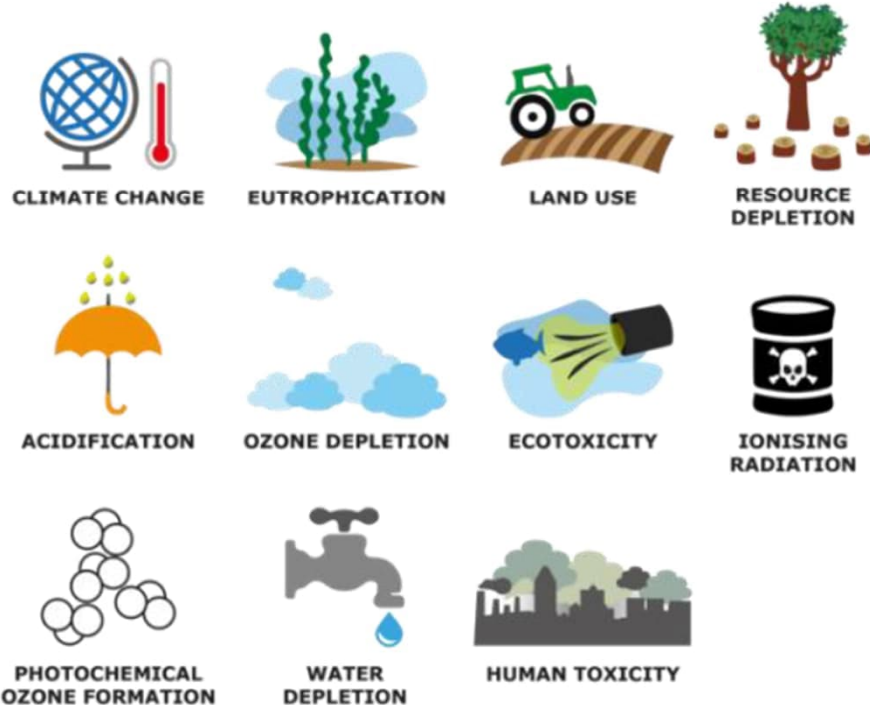
LCI - Life Cycle Inventory

For each stage of a product life cycle (e.g. resource extraction, manufacturing, use, etc.) data on **emissions into the environment** (e.g. CO₂, benzene, organic chemicals) and **resources used** (e.g. metals, crude oil) are collected in an inventory.



Each emission in the environment and resource used are then characterised in term of potential impact in the LCIA, covering a number of impact categories.

LCIA - Life Cycle Impact Assessment



Areas of protection

Human health
Ecosystem health
Natural resources

Interpretation

Goal and scope



e.g. LCA of a car of typology X, assuming a use for Y years, produced in country Z, ect.

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LCA for a specific product of a certain size or mass

- e.g. 1 ton of sand

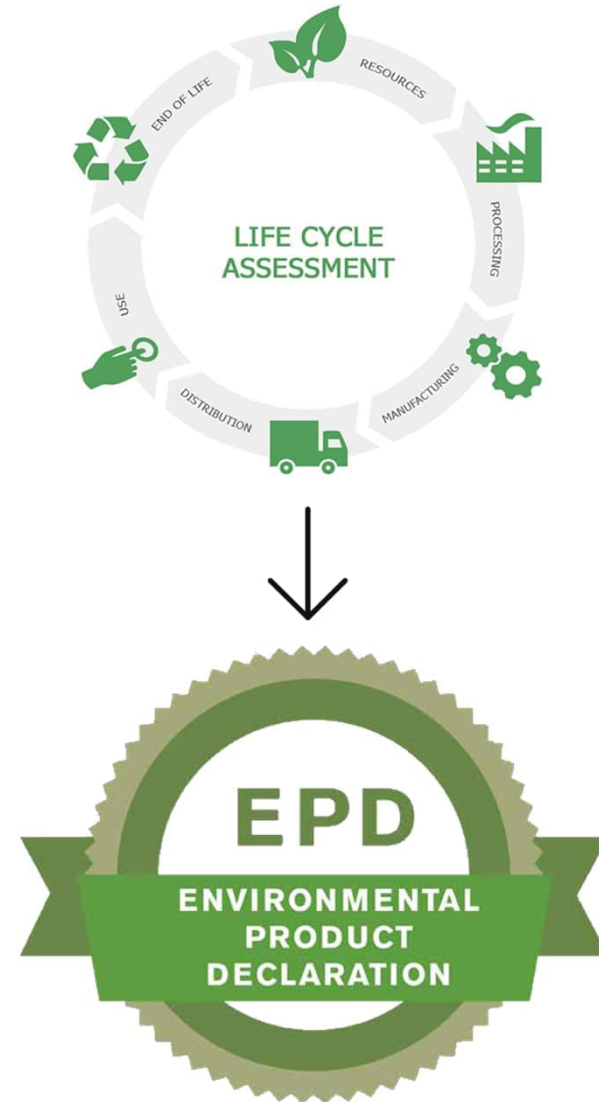
High level of standardisation

- Claim of environmental impact
- Comparability with other EPDs

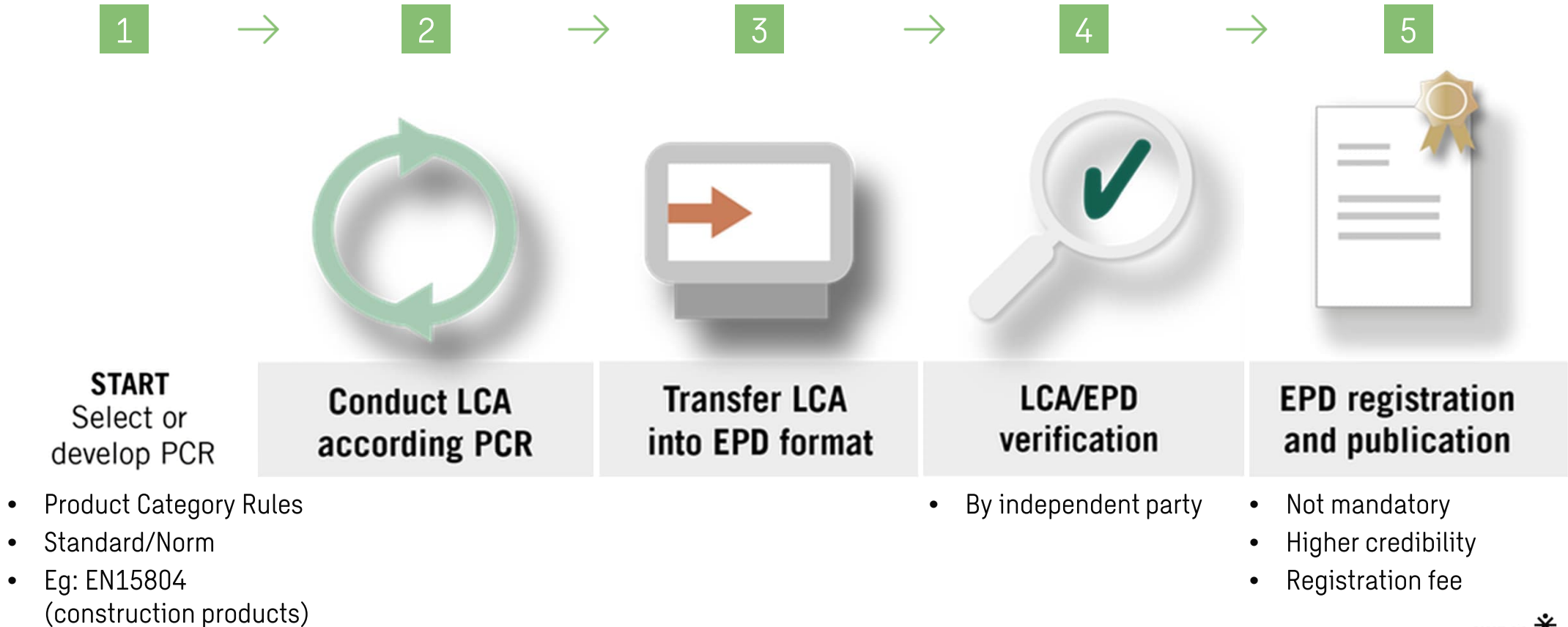
National and international databases

- Public accessibility on external platforms
- Environdec, B-EPD, NMD

3rd party verification process to ensure credibility



EPD process in a nutshell



Registered EPD benefits

- The data will be part of an open (inter)national **database**
- The product **can be found more easily**
- The product **can be compared more easily** based on ecological impact
- The producer proves **transparency** on sustainability to stakeholder

Databases

- EPD International
- B-EPD
- Nationale Milieudatabase



4337

Total active products

1141

New past 12 months

Environmental Impacts

		PRODUCT STAGE	CONSTRUCTION STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE LIFE CYCLE
Environmental indicators		A1 / A2 / A3	A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment	B6 Operational energy use	B7 Operational water use	C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling
	Climate Change [kg CO2 eq.]	1.41E+01	3.62E-01	1.40E+00	0	0	0	0	0	0	0	4.47E-03	5.06E-02	0.00E+00	2.06E-01	-3.44E-02
	Climate Change (fossil) [kg CO2 eq.]	1.51E+01	3.58E-01	3.31E-01	0	0	0	0	0	0	0	4.47E-03	5.00E-02	0.00E+00	2.06E-01	-3.47E-02
	Climate Change (biogenic) [kg CO2 eq.]	-1.06E+00	9.48E-04	1.07E+00	0	0	0	0	0	0	0	5.63E-07	1.34E-04	0.00E+00	0.00E+00	3.70E-04
	Climate Change (land use change) [kg CO2 eq.]	4.61E-03	3.36E-03	1.27E-04	0	0	0	0	0	0	0	5.03E-07	4.61E-04	0.00E+00	6.49E-04	-1.72E-05
	Ozone depletion [kg CFC-11 eq.]	1.09E-05	3.18E-14	2.18E-07	0	0	0	0	0	0	0	7.10E-11	6.47E-15	0.00E+00	5.31E-13	-2.78E-10
	Acidification terrestrial and freshwater [Mole of H+ eq.]	2.79E-02	4.12E-04	6.18E-04	0	0	0	0	0	0	0	4.14E-05	6.33E-05	0.00E+00	1.48E-03	-1.34E-04
	Eutrophication freshwater [kg P eq.]	3.91E-04	1.32E-06	8.87E-06	0	0	0	0	0	0	0	1.37E-07	1.82E-07	0.00E+00	4.20E-07	-6.39E-06
	Eutrophication marine [kg N eq.]	6.94E-03	1.41E-04	1.85E-04	0	0	0	0	0	0	0	1.92E-05	2.22E-05	0.00E+00	3.83E-04	-2.06E-05
	Eutrophication terrestrial [Mole of N eq.]	9.79E-02	1.66E-03	2.15E-03	0	0	0	0	0	0	0	2.09E-04	2.59E-04	0.00E+00	4.21E-03	-2.40E-04
	Photochemical ozone formation - human health [kg NMVOC eq.]	2.16E-02	3.58E-04	4.90E-04	0	0	0	0	0	0	0	6.18E-05	5.55E-05	0.00E+00	1.15E-03	-1.53E-04
	Resource use, mineral and metals [kg Sb eq.] ¹	1.09E-05	2.36E-08	2.44E-07	0	0	0	0	0	0	0	1.56E-09	3.30E-09	0.00E+00	9.65E-09	-8.94E-08
	Resource use, energy carriers [MJ] ¹	2.22E+02	4.94E+00	4.61E+00	0	0	0	0	0	0	0	5.83E-02	6.78E-01	0.00E+00	2.78E+00	-1.30E+00
	Water deprivation potential [m³ world equiv.] ¹	2.34E+00	4.19E-03	5.03E-02	0	0	0	0	0	0	0	1.97E-04	6.01E-04	0.00E+00	2.29E-02	-1.98E-02

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Environmental Cost Indicator (ECI)

Single score to indicate the environmental impact, based on **LCA outcome**

MKI (milieukostindicator)

- Expressed in **Euro**
- Shadow cost:** what would be the societal cost to restore the environmental impact of this product
- Implementation in Nationale Milieu Database (**NMD, database** with ECI of various products and materials) and **DuboCalc** (**calculation tool** to calculate an integrated ECI of a project based on materials and components in NMD database)
- Mainly used in the **Netherlands**

PEF (product environmental footprint) weighting

- Expressed in **mPt**
- Used in **TOTEM calculation tool** (~ Belgian DuboCalc, based on B-EPD)

Environmental impact indicator	Weight factors	Unit	Result
Abiotic depletion, non fuel (AD)	0,16	kg Sb eq	€ 0,00
Abiotic depletion, fuel (AD)	0,16	kg Sb eq	€ 0,16
Global warming (GWP)	0,05	kg CO2 eq	€ 7,43
Ozone layer depletion (ODP)	30	kg CFC-11 eq	€ 0,00
Photochemical oxidation (POCP)	2	kg C2H4	€ 0,15
Acidification (AP)	4	kg SO2 eq	€ 2,06
Eutrophication (EP)	9	kg PO4--- eq	€ 0,93
Human toxicity (HT)	0,09	kg 1,4-DB eq	€ 3,37
Ecotoxicity, fresh water (FAETP)	0,03	kg 1,4-DB eq	€ 0,04
Ecotoxicity, marine water (MAETP)	0,0001	kg 1,4-DB eq	€ 0,33
Ecotoxicity, terrestrial (TETP)	0,06	kg 1,4-DB eq	€ 0,10
Total ECI			€14,57

Concepts

When to use which methodology

Use cases for PCF, LCA, EPD & ECI



Sustainability & Compliance → Refine your Scope 3 emissions



Product development/ R&D → Make the product more sustainable



Supply chain management → Compare your suppliers



Marketing & Sales → Differentiate yourself, make a product claim

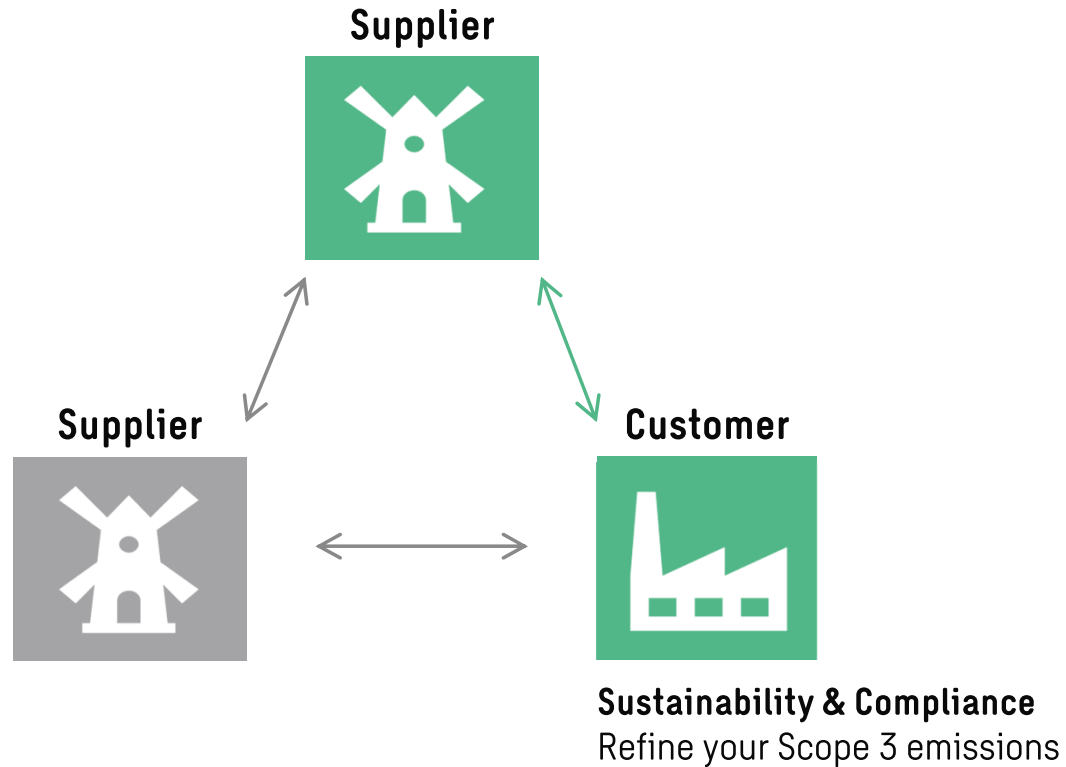


Executive / Strategic planning → *Incorporate sustainability in businesses*
Policy making → *Make substantiated decisions on environmental policy*

Companies

Governments

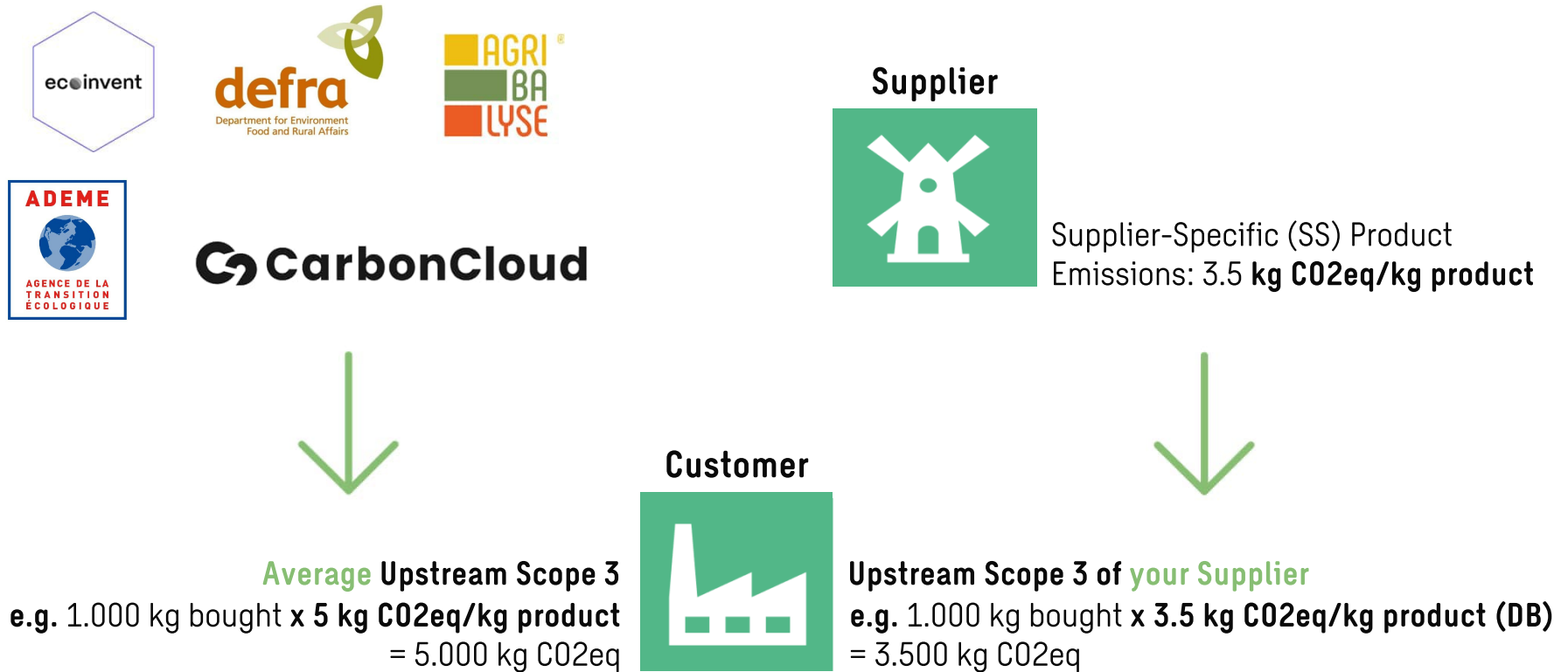
Example Situation for **Scope 3** Calculation



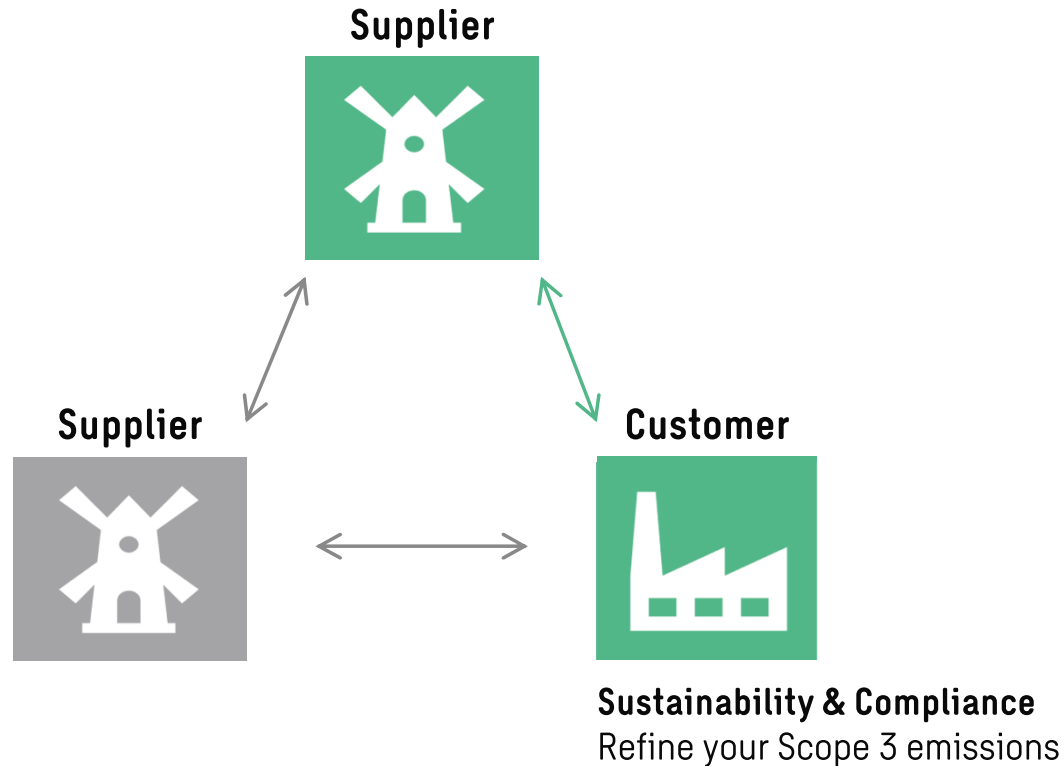
GOAL

- Get **more accurate** information on your indirect emissions
- Engage with suppliers on emission reduction

Example Situation for Scope 3 Calculation



Example Situation for Scope 3 Calculation



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METHODOLOGY



PCF

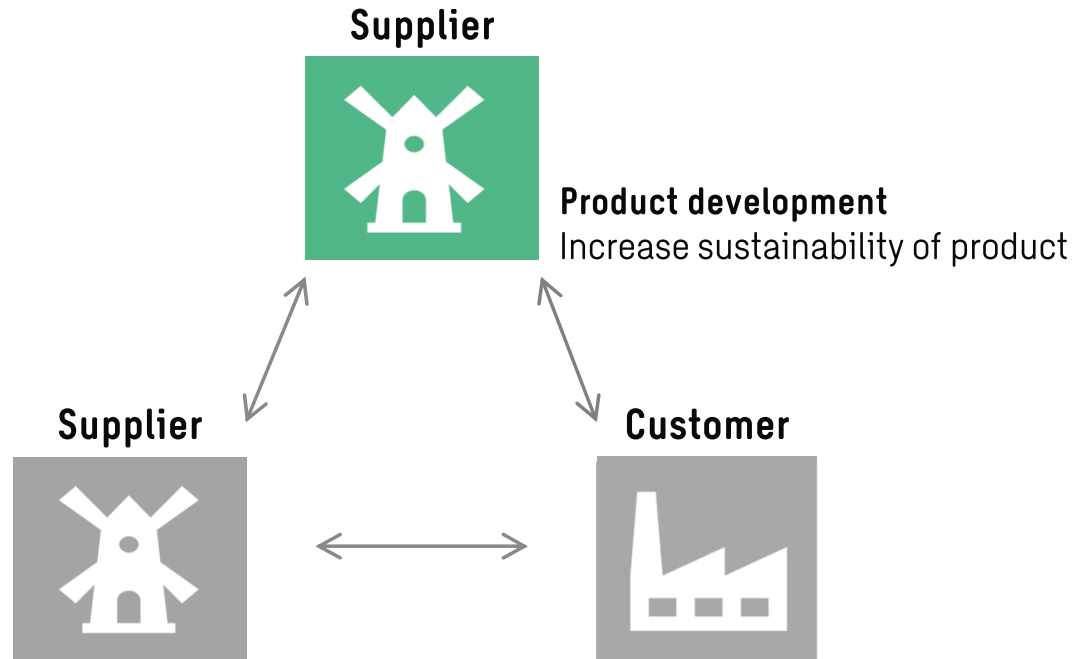


LCA



EPD

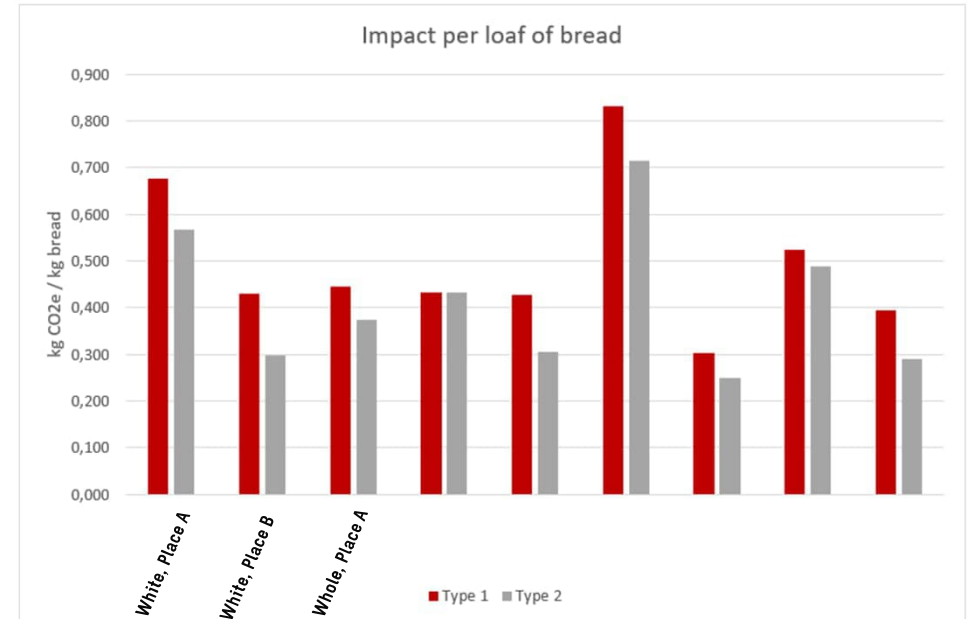
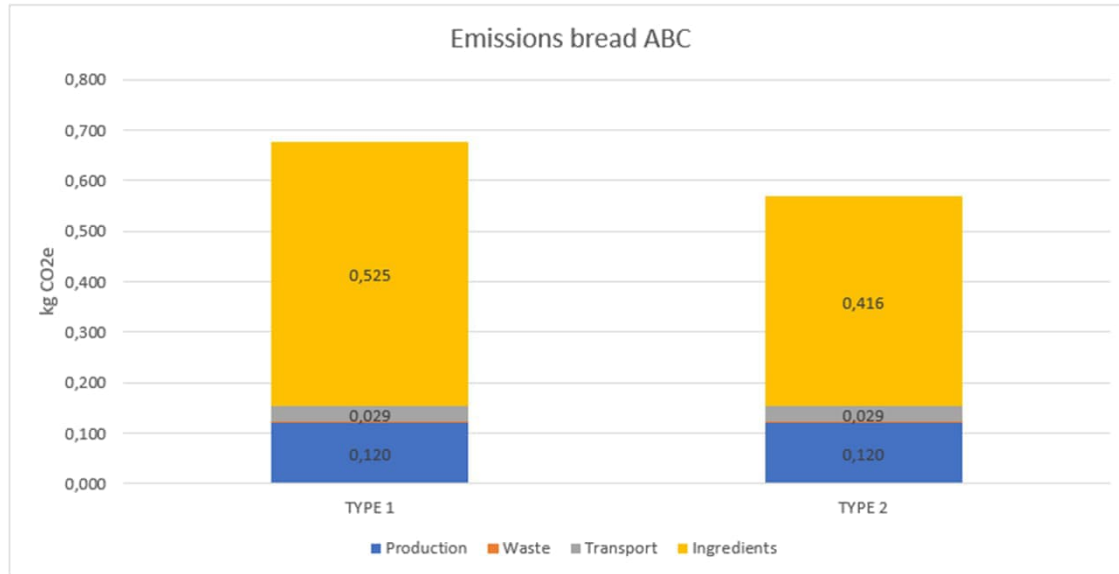
Example Situation for Optimization & Hotspot/Portfolio Analysis



GOAL

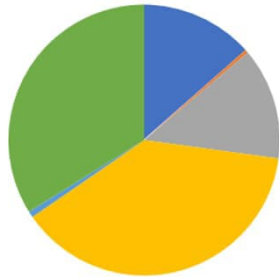
- **Internal improvement:**
which product/ life cycle stage /
input was most impactful?

Example Situation for Optimization & Hotspot/Portfolio Analysis

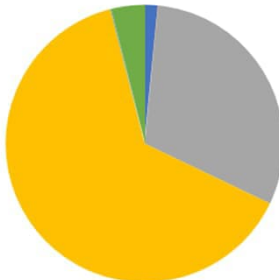


Example Situation for Optimization & Hotspot/Portfolio Analysis

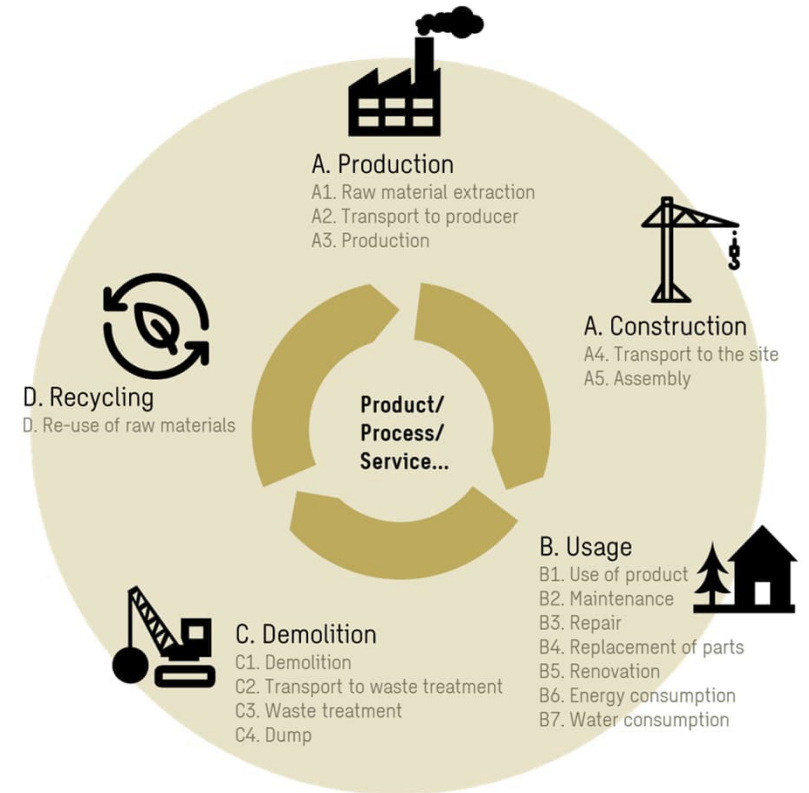
Climate change (kg CO₂-eq)



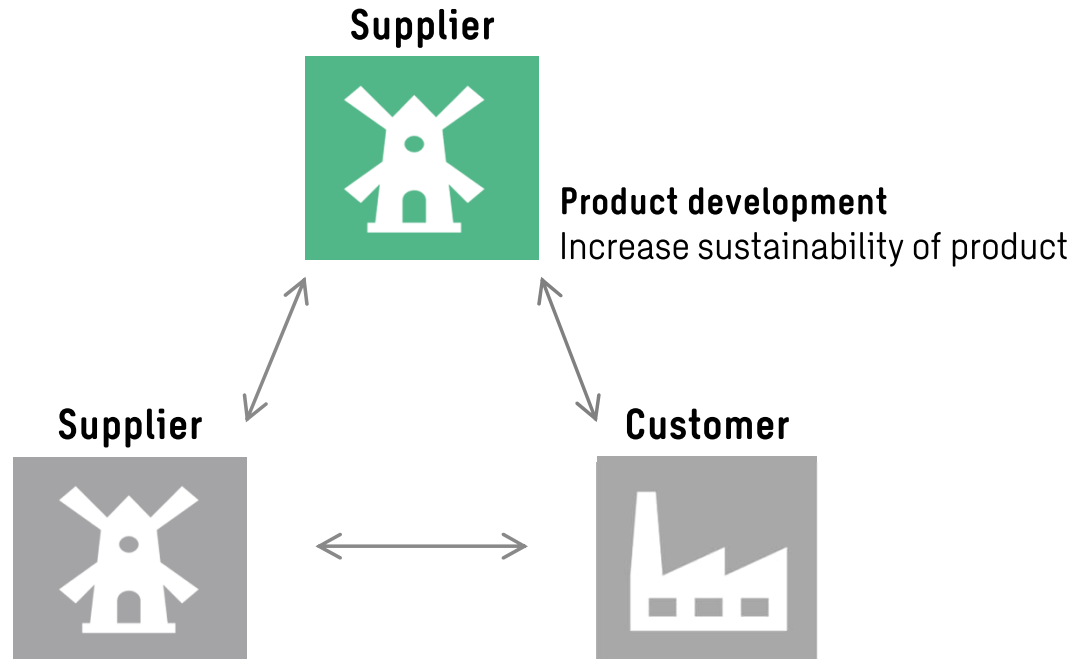
ECI (€)



- C1 – Demolition
- C2 – Transport to waste treatment
- C3 – Waste treatment
- A1 – Raw material acquisition
- A2 – Transport to producer
- A3 – Production



Example Situation for Optimization & Hotspot/Portfolio Analysis



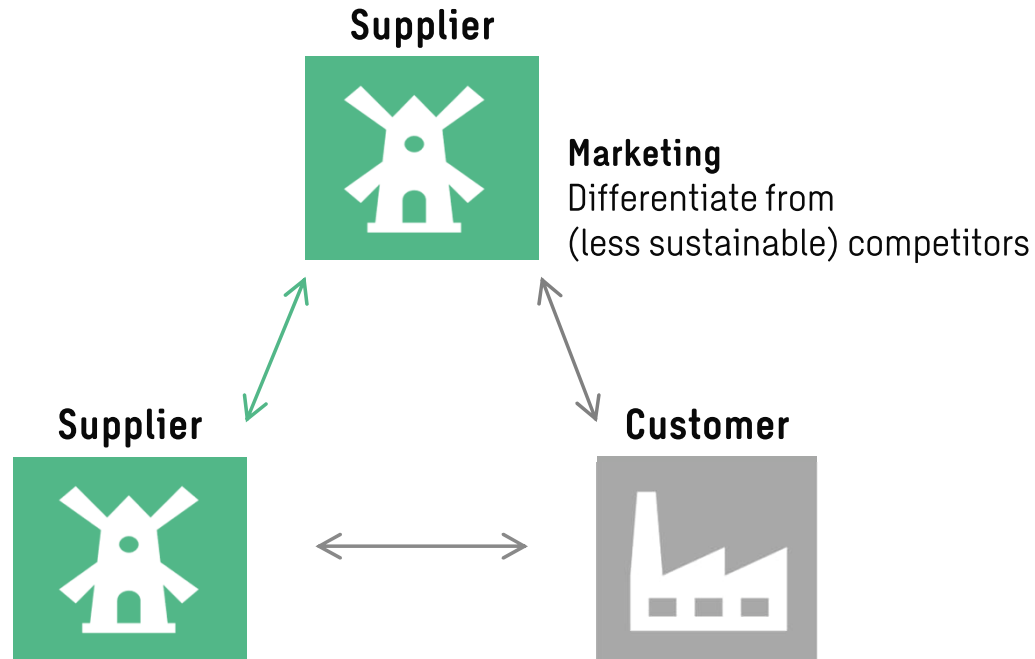
GOAL

- **Internal improvement:**
which product/ life cycle stage /
input was most impactful?

METHODOLOGY

-  LCA
-  PCF
-  EPD

Example Situation for **Market Differentiation**



GOAL

- **Claim;** can be compared with other PCFs or EPDs within it's database

Market Differentiation

Company Challenges:

- Explicit need for an EPD due to competition pressure

Actions:

- Modelling of impacts with specialized software (SimaPro, GaBi, Oneclick)

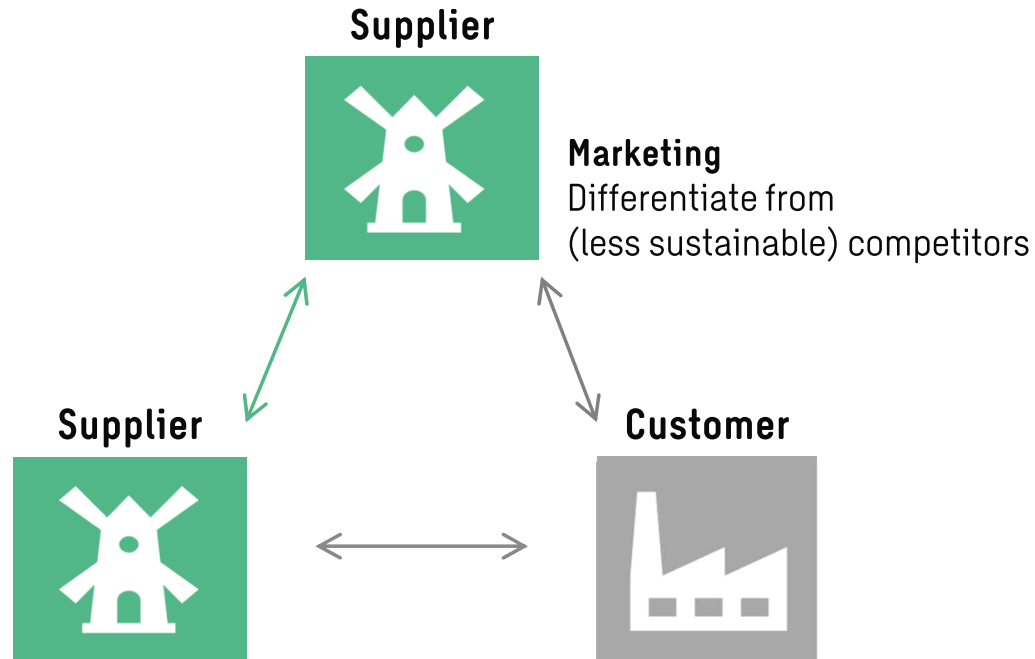
Results:

- Resulting impacts of the product are provided for each life cycle stage
- Comparison possible within same standards, ensuring comparability by external partner

Environmental Impacts

		PRODUCT STAGE	CONSTRUCTION STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE LIFE CYCLE
Environmental indicators		A1 / A2 / A3	A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment	B6 Operational energy use	B7 Operational water use	C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling
	Climate Change [kg CO2 eq.]	1.41E+01	3.62E-01	1.40E+00	0	0	0	0	0	0	0	4.47E-03	5.06E-02	0.00E+00	2.06E-01	-3.44E-02
	Climate Change (fossil) [kg CO2 eq.]	1.51E+01	3.58E-01	3.31E-01	0	0	0	0	0	0	0	4.47E-03	5.00E-02	0.00E+00	2.06E-01	-3.47E-02
	Climate Change (biogenic) [kg CO2 eq.]	-1.06E+00	9.48E-04	1.07E+00	0	0	0	0	0	0	0	5.63E-07	1.34E-04	0.00E+00	0.00E+00	3.70E-04
	Climate Change (land use change) [kg CO2 eq.]	4.61E-03	3.36E-03	1.27E-04	0	0	0	0	0	0	0	5.03E-07	4.61E-04	0.00E+00	6.49E-04	-1.72E-05
	Ozone depletion [kg CFC-11 eq.]	1.09E-05	3.18E-14	2.18E-07	0	0	0	0	0	0	0	7.10E-11	6.47E-15	0.00E+00	5.31E-13	-2.78E-10
	Acidification terrestrial and freshwater [Mole of H+ eq.]	2.79E-02	4.12E-04	6.18E-04	0	0	0	0	0	0	0	4.14E-05	6.33E-05	0.00E+00	1.48E-03	-1.34E-04
	Eutrophication freshwater [kg P eq.]	3.91E-04	1.32E-06	8.87E-06	0	0	0	0	0	0	0	1.37E-07	1.82E-07	0.00E+00	4.20E-07	-6.39E-06
	Eutrophication marine [kg N eq.]	6.94E-03	1.41E-04	1.85E-04	0	0	0	0	0	0	0	1.92E-05	2.22E-05	0.00E+00	3.83E-04	-2.06E-05
	Eutrophication terrestrial [Mole of N eq.]	9.79E-02	1.66E-03	2.15E-03	0	0	0	0	0	0	0	2.09E-04	2.59E-04	0.00E+00	4.21E-03	-2.40E-04
	Photochemical ozone formation - human health [kg NMVOC eq.]	2.16E-02	3.58E-04	4.90E-04	0	0	0	0	0	0	0	6.18E-05	5.55E-05	0.00E+00	1.15E-03	-1.53E-04
	Resource use, mineral and metals [kg Sb eq.] ¹	1.09E-05	2.36E-08	2.44E-07	0	0	0	0	0	0	0	1.56E-09	3.30E-09	0.00E+00	9.65E-09	-8.94E-08
	Resource use, energy carriers [MJ] ¹	2.22E+02	4.94E+00	4.61E+00	0	0	0	0	0	0	0	5.83E-02	6.78E-01	0.00E+00	2.78E+00	-1.30E+00
	Water deprivation potential [m³ world equiv.] ¹	2.34E+00	4.19E-03	5.03E-02	0	0	0	0	0	0	0	1.97E-04	6.01E-04	0.00E+00	2.29E-02	-1.98E-02

Example Situation for **Market Differentiation**



GOAL

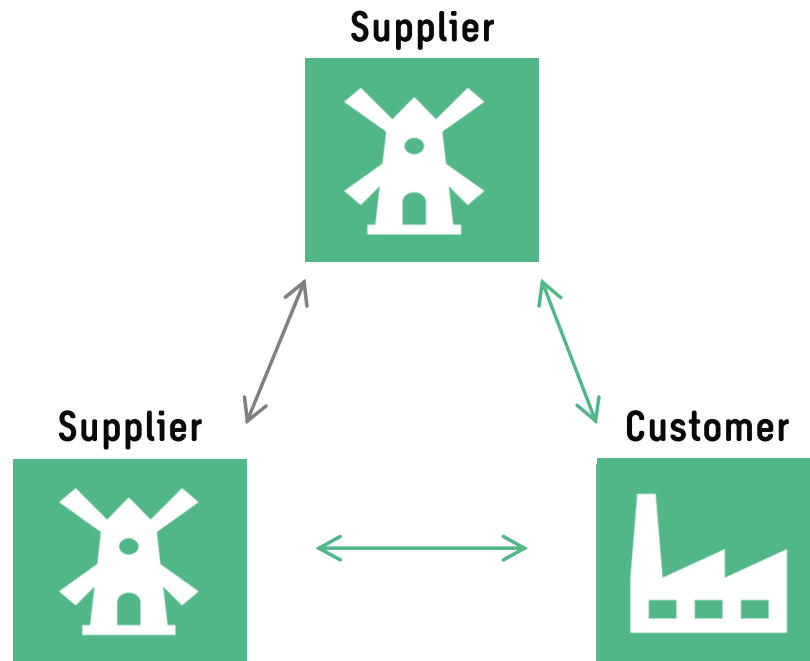
- **Claim;** can be compared with other PCFs or EPDs within it's database

METHODOLOGY

- EPD
- LCA*
- PCF*

* if same standard and third party verified.
This is by default the case for EPD

Example Situation for **Comparing Suppliers**



GOAL

- **Comparing two products:** which product has a lower impact?

Comparing suppliers

Scope

- Water sanitation (specifically, PFAS treatment)
- 1 m³ of water treated

Goal: compare different techniques

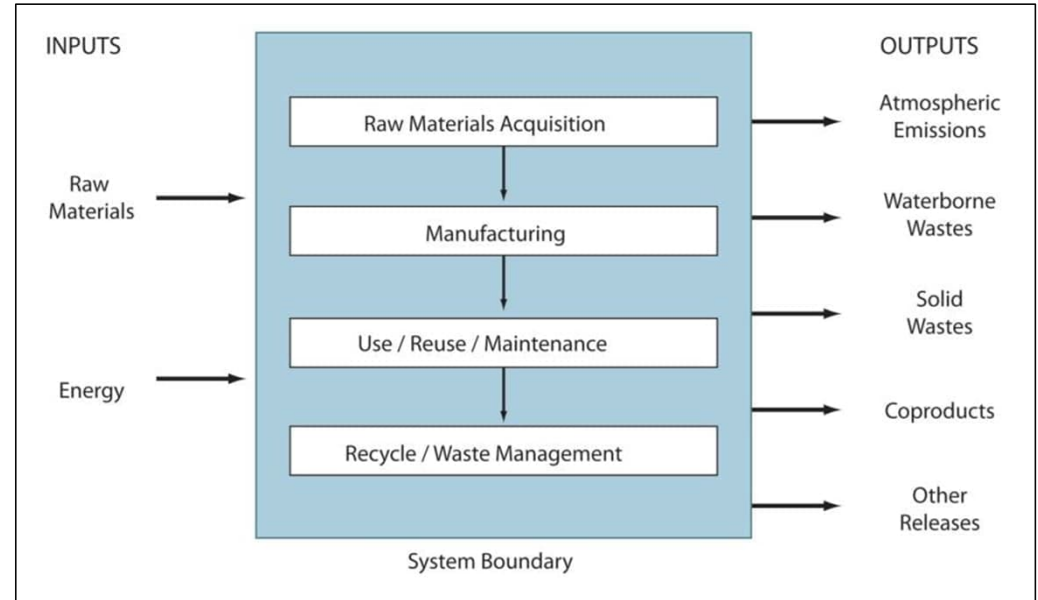
- Company A treats the water with activated carbon
- Company B uses membrane technology and a mix of chemicals
- Company C uses resins and chemicals
- Company D uses a photochemical technique (high energy use)

Method

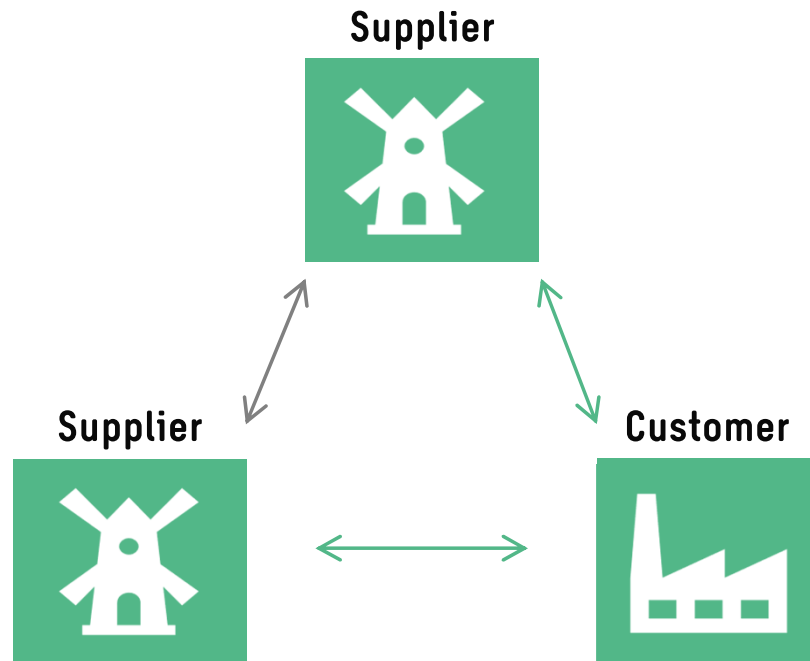
- Standard - PCR UNCPC94413 Site Remediation
- Inventory of all inputs and outputs requested for each company

Interpretation

- Resulting impacts of each technique
- Comparison on impacts to aid procurement



Example Situation for **Comparing Suppliers**



GOAL

- **Comparing two products:** which product has a lower impact?

METHODOLOGY

-  EPD
-  LCA*
-  PCF*

* if same standard and third party verified.
This is by default the case for EPD

Conclusion

Recap & pitfalls



Conclusion – Recap / Pitfalls (!)

- No Silver Bullet
- Be aware of the shortcomings of the multiple methods, compare apples with apples
 - When receiving a PCF/LCA: ask about boundary; categories included/excluded; standard ; (third party) verification
- Be pragmatic, consider your company and sector context
- Communicate with your external stakeholders on their exact needs



Refine your Scope 3



Improve your product



Differentiate yourself



Compare Suppliers

PCF



LCA



EPD



Bonus Use Case

Zeelandia

Zeelandia: Market Pressure with 5k+ products



Company Profile:

- Producer of baking goods (bread mixes, pastries and fillings)
- Operating world-wide in 23 countries with 3.200 employees and HQ in Zierikzee, NL
- 5000+ types of raw materials, 5000+ different products

Company Challenges:

- Scope 3 Corporate Carbon Footprint calculation
- Market pressure from customers → Product emissions are needed urgently



Zeelandia: Market Pressure with 5k+ products

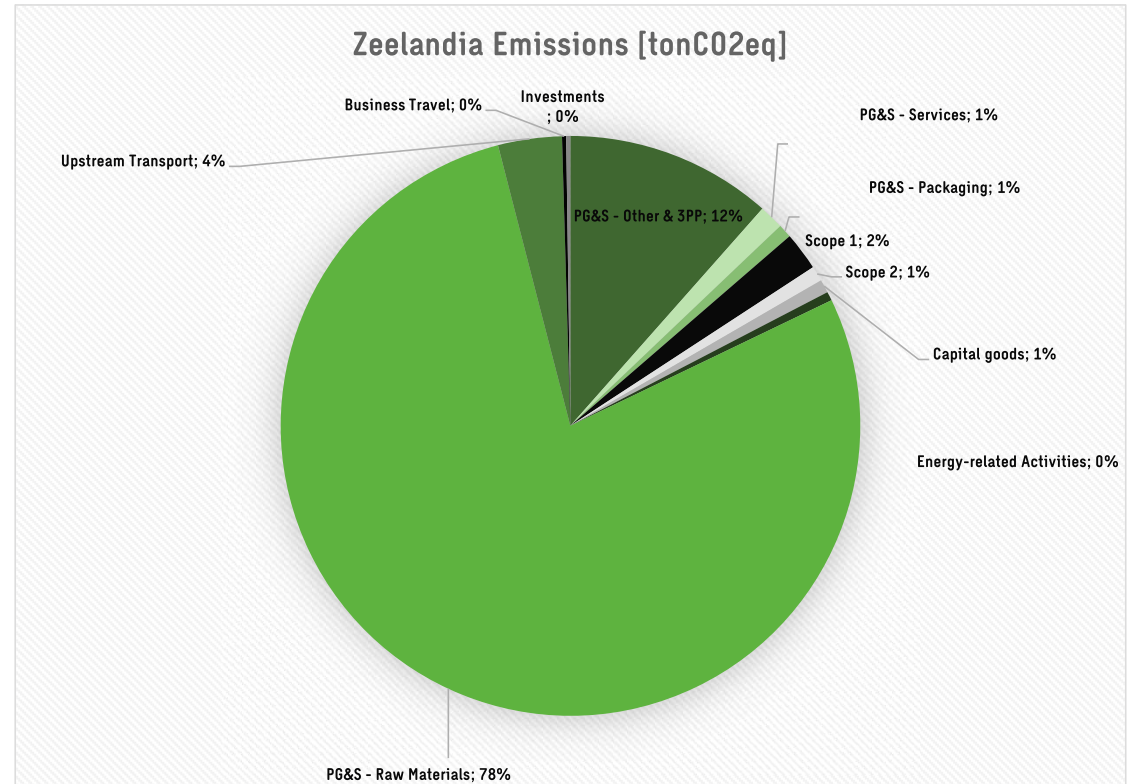


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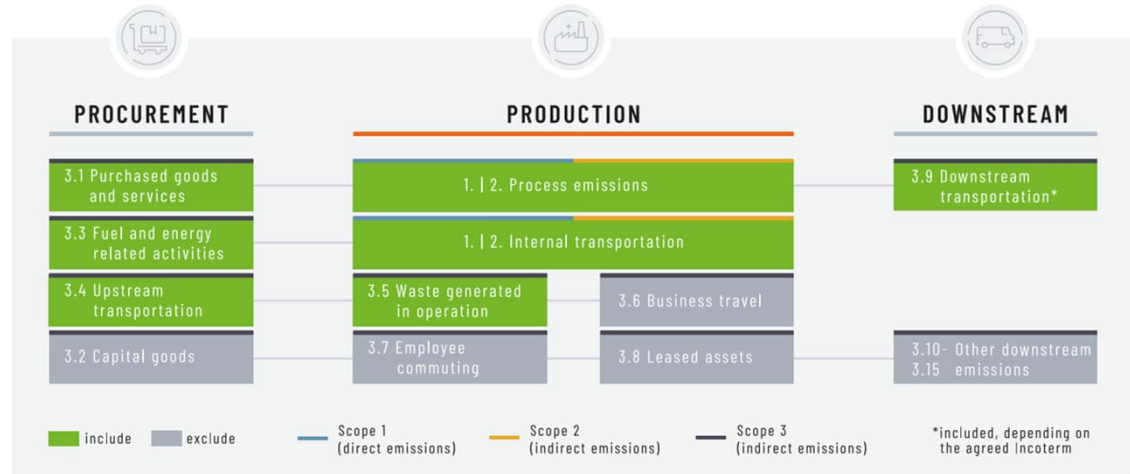
Company Challenges:

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“

I need to have your **CO2** calculation within a year, **otherwise we will go to another supplier. Your competitor already has this calculated”**

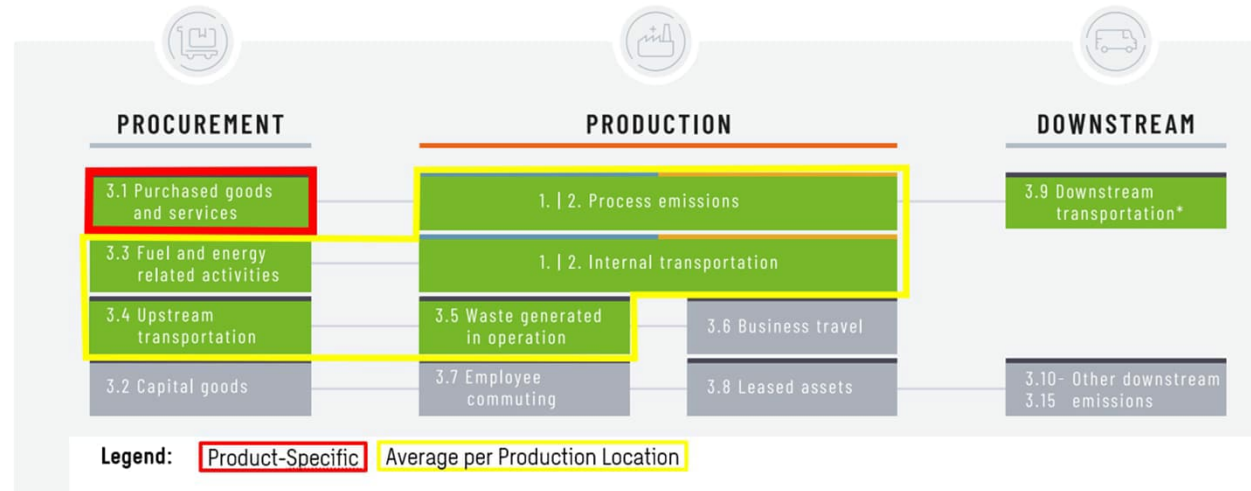


Zeelandia: Market Pressure with 5k+ products



Short-Term Solution

1. PCF XLS Calculator focussing on the raw materials / ingredients
 1. Scoping & Boundary
 2. Granularity level → Selection of 120 representative EF's
 3. Compliant GHGP Report, Dashboarding

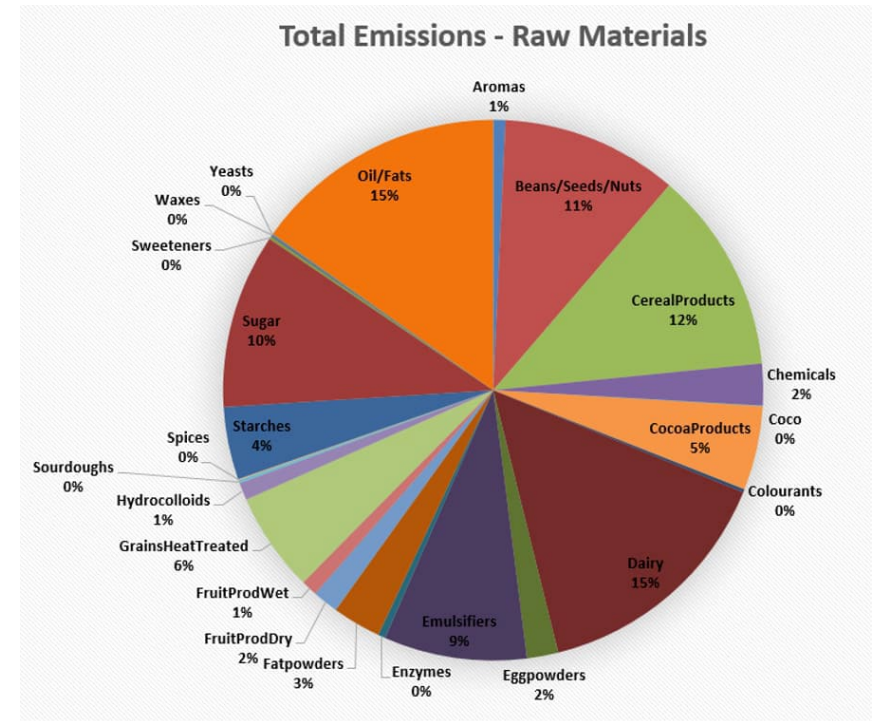
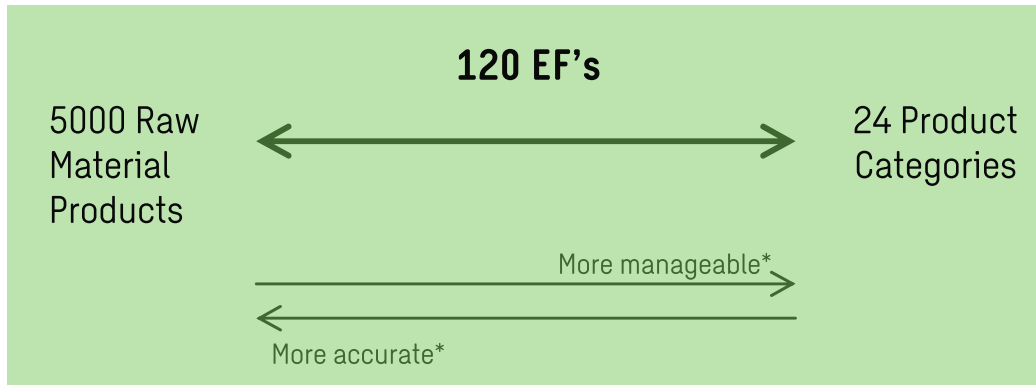


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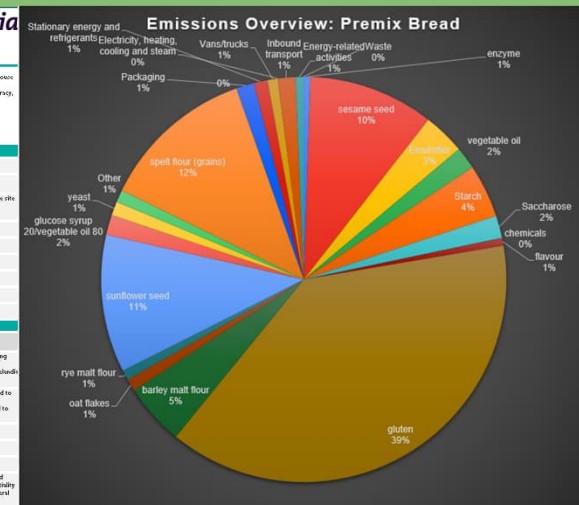
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A. Enter Ingredients & Match on EF			
Quantity of Raw Material Used [KG]	Total Volume Produced [KGs]	KGs	
SELECT Product_Group	SELECT Product_Type	SELECT EF_Code	
Enzymes	Enzymes	EF_Food	
Beans/Seeds/Nuts	Seeds - Sesame	EF_Seeds	
Emulsifiers	Nutrisoft van BASF	EF_Mono	
Oil, fats	Other - General Oils	EF_Comb	
Starches	Corn Starch	EF_Corn	
Sugar	Saccharose	EF_Beet	
Chemicals	Salt	EF_Salt	
Aromas	Aromas	EF_Food	
Cereal products	Gluten	EF_Glute	
Cereal products	Barley	EF_Barle	
Grains heat treated	Grain corn	EF_Grain	
Cereal products	Rye (rogge)	EF_Rye_r	
Beans/Seeds/Nuts	Seeds - Sunflower	EF_Seeds	
Oil, fats	Other - General Oils	EF_Comb	
Yeasts	Yeasts	EF_Nutrit	
Other	Other	EF_Zeela	
Cereal products	Spelt	EF_Spelt	
NA	Packaging	Bags	Bags_Piece_NL02

B. Results: official report documentation + Dashboard

Zeelandia	
Product carbon footprint Premix Bread	
This carbon footprint was calculated by Fiterproof following the reporting requirements of the Product Standard of Greenhouse Gas Protocol. The study was performed based on the key accounting principles of Greenhouse Gas Protocol, with attention for relevance, accuracy, completeness, consistency and transparency. Please contact us if any relevant information is missing or if more insights are required on how this assessment was completed.	
General Information and scope	Zeelandia, Jelle Dams - jelle.dams@zeelandia.com
Product name	Premix Bread
Product description	Premix Bread produced on the site of Netherlands ZHSD and sold from the site of Zeelandia Breda - Vlaanderen
Unit of analysis	1kg of Premix Bread
Reference flow	Equal to unit of analysis
Type of inventory	Cradle to gate inventory
Inventory date	Inventory finalized in 2025 using data for 2024
Version	Version 1
Blockchain	The results of this calculation are specific to Premix Bread produced at Netherlands ZHSD and sold from Zeelandia Breda - Vlaanderen
Boundary setting	Brief description of the boundary of such life cycle stage:
Life cycle stage	Material acquisition and preprocessing
Material acquisition and preprocessing	All upstream activities and materials related to raw materials and packaging materials purchased and used in the production process of Premix Bread, including the transportation of these materials from their suppliers to Zeelandia and between sites of Zeelandia.
Production	All activities generated on site from combination of local fuels and related to purchased electricity (scope 1 and 2). No other inputs or outputs. No emissions related to operational units processing from production in this production site.
Distribution and storage	Not included (cradle-to-gate calculation)
Use	Not included (cradle-to-gate calculation)
End-of-life	Not included (cradle-to-gate calculation)
Process map	A process map was created to assess all relevant attributional material and energy flows. This map is however not publicly disclosed due to confidentiality reasons. Given the wide variety of products created by Zeelandia, 2 general process maps were created based on the type of product.

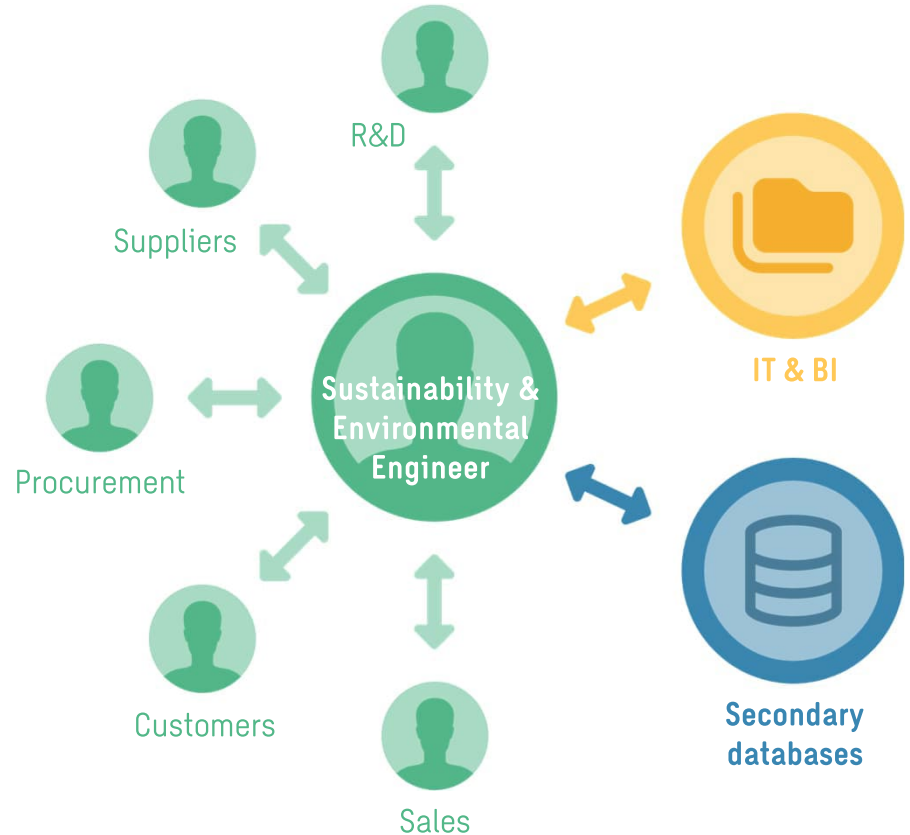
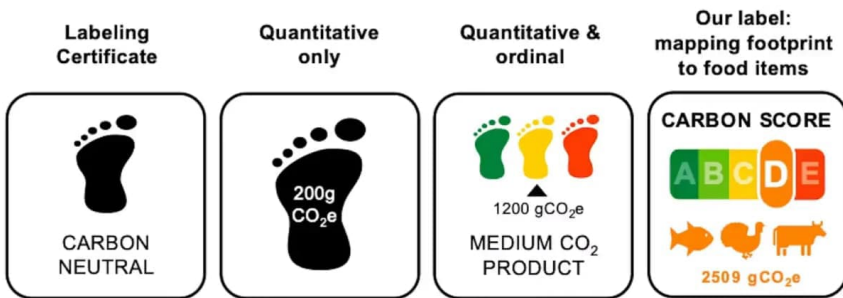


Zeelandia: Market Pressure with 5k+ products



Next Steps

1. Learning from PCF examples
2. Supplier-specific Emission Factors & more accurate information
3. Automation & Integration





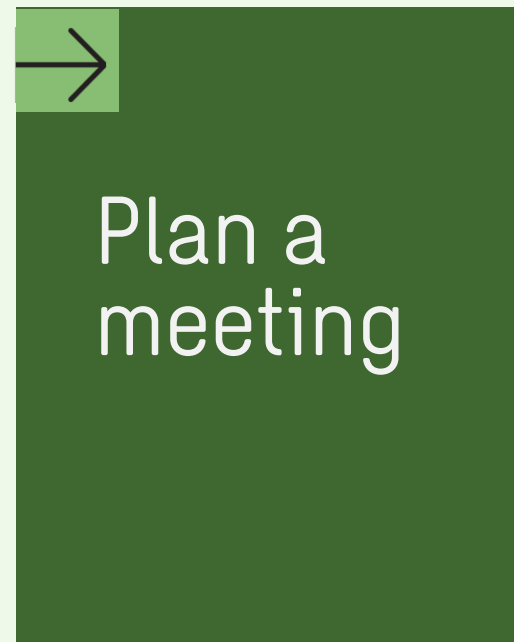
Bert Stoelen

Project manager
Carbon accounting, PCF & CSRD, Sweco
bert.stoelen@swecobelgium.be



Stijn Verdoodt

Expert
LCA & Circular Economy, Sweco
stijn.verdoodt@swecobelgium.be



Plan a
meeting

