

H U G O B O S S

HUGO BOSS
2013
2014

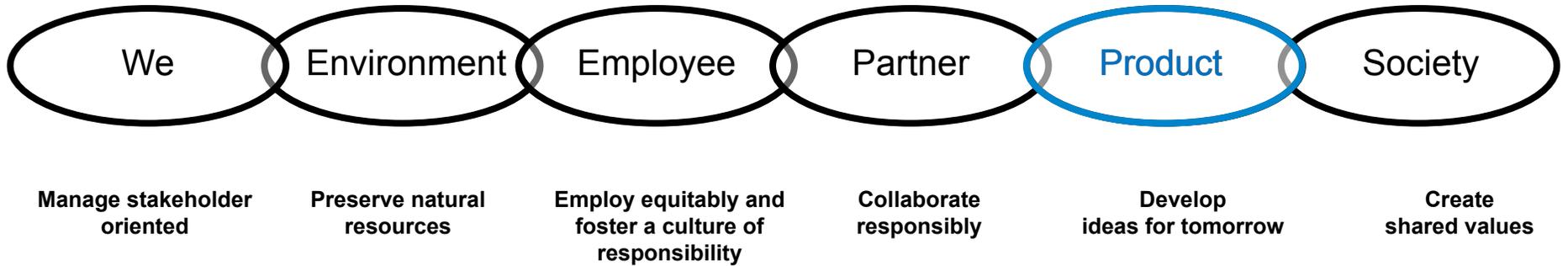
Group sales	2,432 Mio. EUR	2,572 Mio. EUR
Net profit	333 Mio. EUR	335 Mio. EUR
Employees worldwide	around 12,500	around 12,990
Active on the market in	127 countries	130 countries
Own retail stores	1,010	1,041
Points of Sale	around 7,100	around 7,600
Sales subsidiaries	34	35

Sustainability @ HUGO BOSS

Sustainability @ HUGO BOSS

The strategic dimensions

“We act responsibly“



LCA projects: ecogttx / ecoshoes

For textile and leather products

Life Cycle Assessment @ HUGO BOSS

Mass LCA analyses – collecting data from the complete supply chain

ECOLOGTEX

SHEEP_Farming - Farming Activities

186 Specify land functions/activities

Land function / activity	Nr of months/year	Process Nr
Stables		
Grazing pastures	12	
Fields for crop cultivation	12	
Fenced-off areas		
Total	110000	

Online Questionnaires (primary data)

secondary data

Material data (secondary data)

Product and Process data

LCI – datasets

Product Environmental Footprint

Analyses of all main environmental impacts:

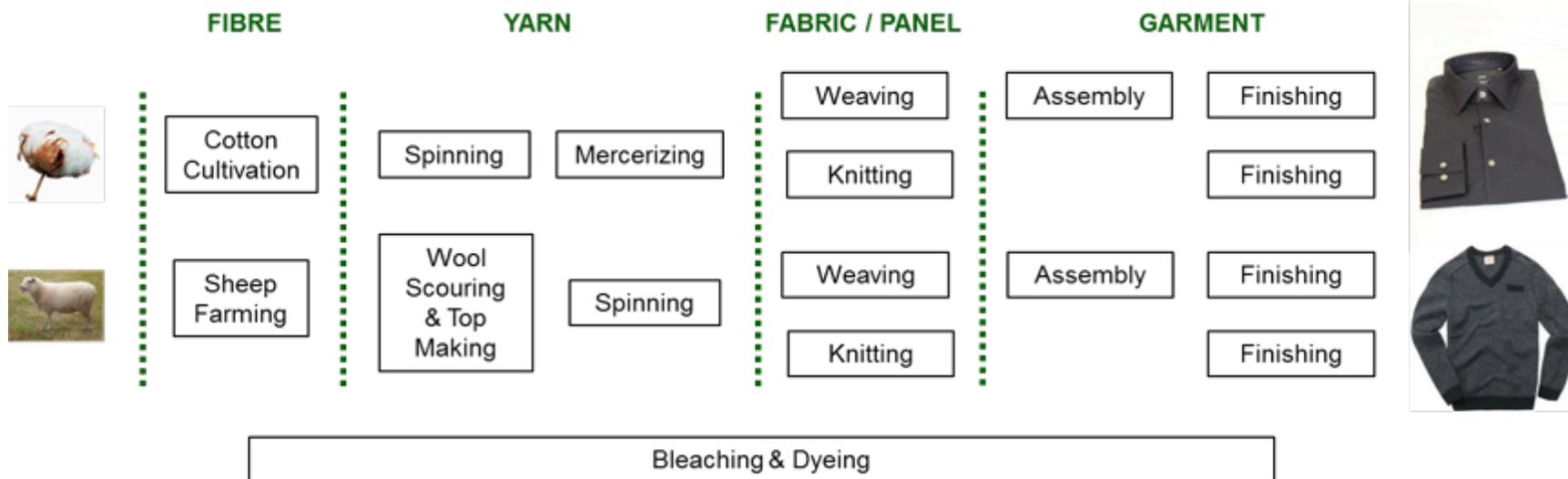
- for each single process step
- for the whole product life cycle
- for the supply chain

Benchmarking of production steps

Supply Chain and Product optimization

Life Cycle Assessment @ HUGO BOSS

Mass LCA analyses with 100% primary data from the supply chain



ANIMAL

Farming



LEATHER

Slaughterhouse

Tannery



SEMIFINISHED GOODS

Cut & Link

Sole factory

Insole factory

Last factory

SHOES

Assembly & Finishing



Life Cycle Assessment @ HUGO BOSS

Mass LCA analyses with 100% primary data from the supply chain through online questionnaires

FIBRE

YARN

FABRIC / PANEL

CLOTHING

Input	Input Animal	Input Quantity	Unit	Place of last productive step	Main mean of transport from last productive step
<input checked="" type="checkbox"/> Finished leather grain	Bovine_calf	7164.00000	unit	Italy - Pisa	Road, lorry (small)
<input checked="" type="checkbox"/> Finished leather grain	Bovine_calf	149.00000	unit	Italy - Fermo	Road, lorry (small)
<input checked="" type="checkbox"/> Finished leather grain	Bovine_calf	12632.00000	unit	Italy - Firenze	Road, lorry (small)
<input checked="" type="checkbox"/> Finished leather grain	Bovine_calf	367.00000	unit	Italy - Viterbo	Road, lorry (small)
<input checked="" type="checkbox"/> Finished leather grain	Bovine_calf	222.00000	unit	Italy - Vicenza	Road, lorry (small)

5- Considering your heat consumption, what fuel

Type of heat source	Total Quantity Consumed	Unit of measurement
Pellets u=10%		Kg
Wood chips, from forest, u=80%		Kg
Wood chips, industrial, u=40%		Kg
Light fuel oil / LPG/ Gasoline/ Diesel		litres

9- Considering your water consumption, what sources do

Type of water (origin)	Total quantity consumed (m3)	UM
Tap water (drinking water)	1312.00000	m3
Completely softened water (specially prepared industrial water)		m3
Decarbonised water (specially prepared industrial water)		m3
Deionised water (specially prepared industrial water)		m3
Ultrapure water (specially prepared industrial water)		m3
Rain water		m3
Groundwater (well)		m3
River		m3
Lake		m3
Total	1312.00000	

31- What packaging material do you use? Wha

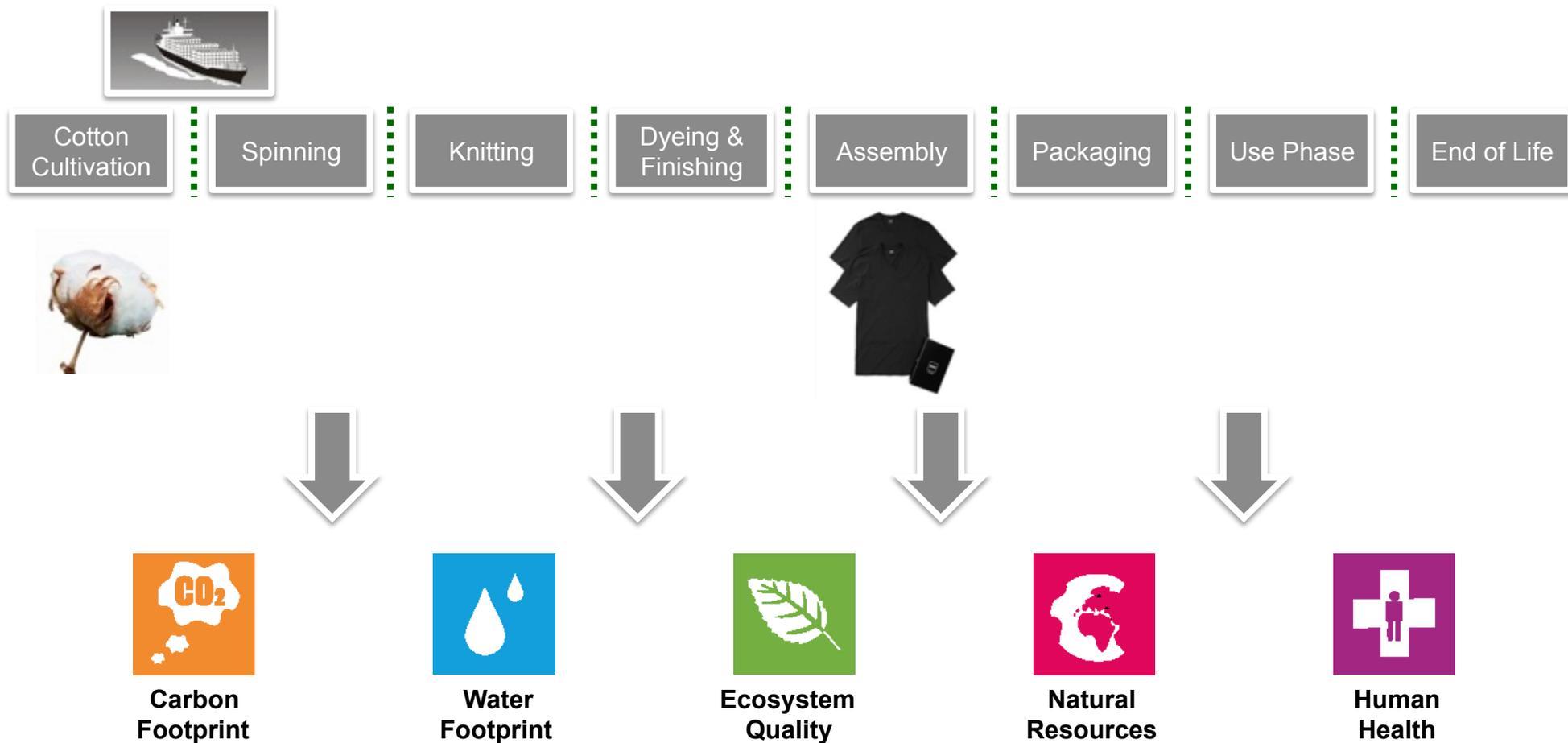
Type of material	Quantity [kg]	Supplier Location
Wood		
Kraft paper, bleached		
Kraft paper, unbleached	600.00000	Italy_Centre/South
Corrugated board, fresh fibre, single wall	2320.00000	East Europe
Synthetic rubber		
Packaging film (LDPE)		
Polyester		
Polyethylene terephthalate (PET)		
Polyethylene HDPE		
Polyethylene LDPE	2450.00000	Italy_Centre/South
Polyethylene LLDPE		
Polycarbonate		
Poly laminaten (plastics)		
Polypropylene		
Polystyrene		
Polyvinylchloride (PVC)		
Polyurethane		
Glass		
Aluminium		
Steel		
Textile		

15- What type of waste do you produce? How are they disposed of?

Description of the waste	Quantity in Kg of this Waste Disposal	
Paper and cardboard	Municipal incineration	
	Municipal landfilling	11415.00000
	Recycling	

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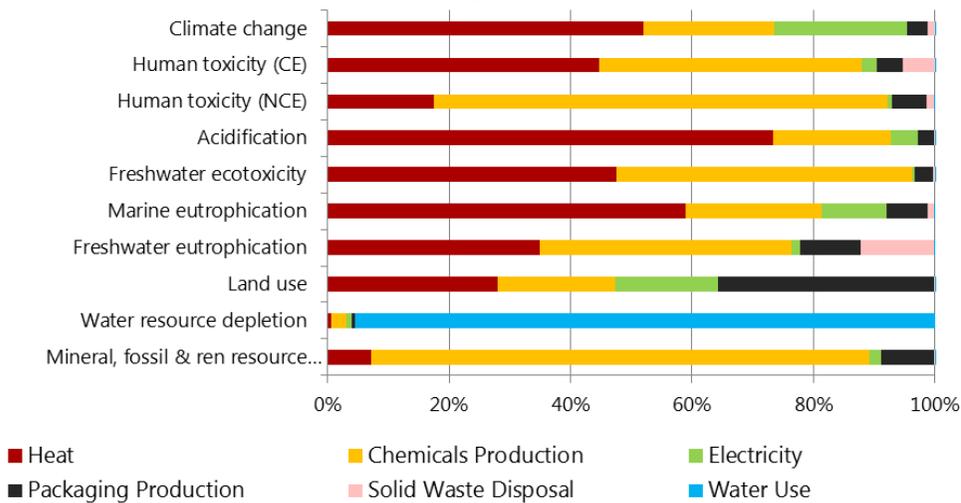
Mass LCA analyses with 100% primary data from the supply chain to calculate scope 3 impacts



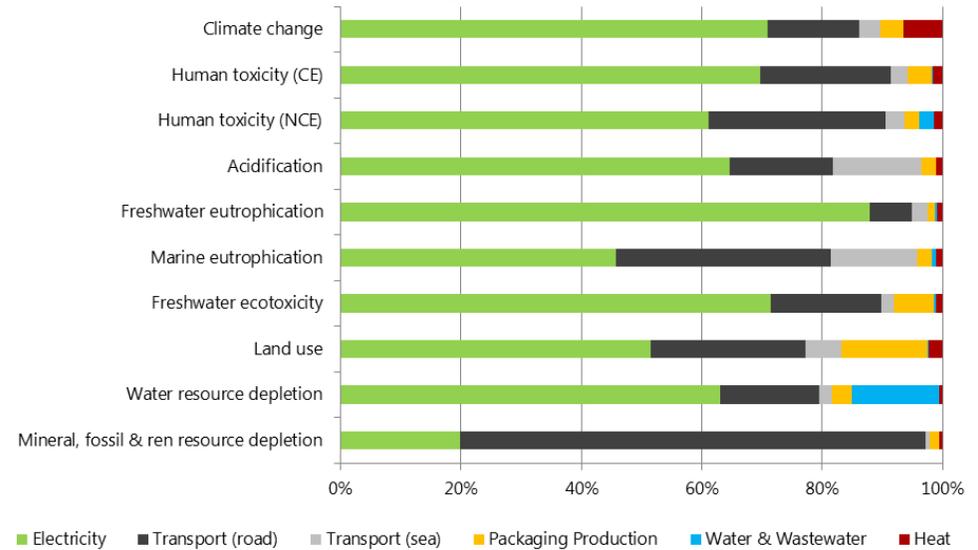
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Mass LCA analyses – full impact analyses per supplier / process step

Mercerising



Spinning



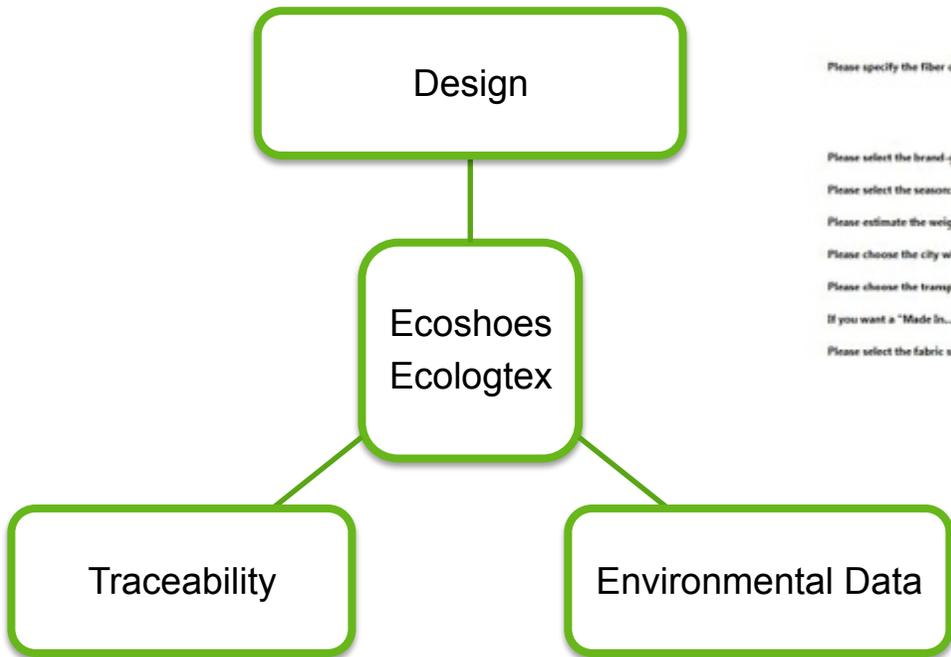
The LCA platform

To calculate product and supply chain impacts

Life Cycle Assessment @ HUGO BOSS

Mass LCA analyses – platform

- Registries**
 - Input
 - Output
- Warehouse**
 - Declaration
 - Consultation
- Production**
 - Declaration
 - Consultation
- Synchronization**
 - Registries
 - Lots



Define product characteristics

Washing: 30° C Washing

Others:

- Machine Drying
- Ironing
- Dry Cleaning

 18%

Please specify the fiber composition of the garment:

- linen
- 82 % | cotton
- 18 % | linen

 Add material

Please select the brand-gender-line: Hugo Man

Please select the season: SS15P

Please estimate the weight of the garment (gram): 300

Please choose the city where the finished good will be shipped (Warehouse): Germany

Please choose the transport mode to ship the finished good to Hugo Boss' warehouse:

- city: Metzingen
- Truck
- Italy

If you want a "Made in..." status for the garment, please select the related country:

Please select the fabric surface design: Stripes - Standard shape

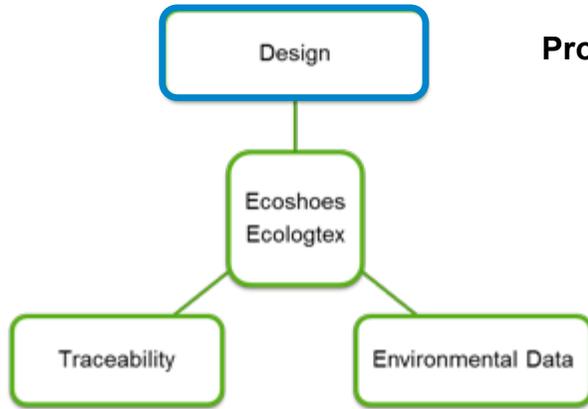
ELECTRICITY

1What is your electricity consumption?

	UM	Processnr	Flownr	ConversionFactor	Question ID
Electricity from the standard grid mix of your provider:	1251000	KWh	737	1.000000000000	206
Electricity from a specific grid mix agreed with your provider		KWh		1.000000000000	207
Own production from your company and used by your company (i.e. NOT sold):	<input type="checkbox"/>	-		1.000000000000	208
Total	1251000.00000				

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Mass LCA analyses – platform to calculate the corporate impact



Product development with over 30'000 styles – colors per year



BOSS



BOSS ORANGE



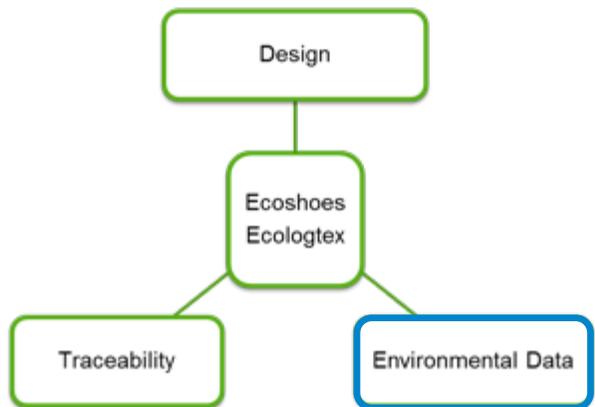
BOSS GREEN



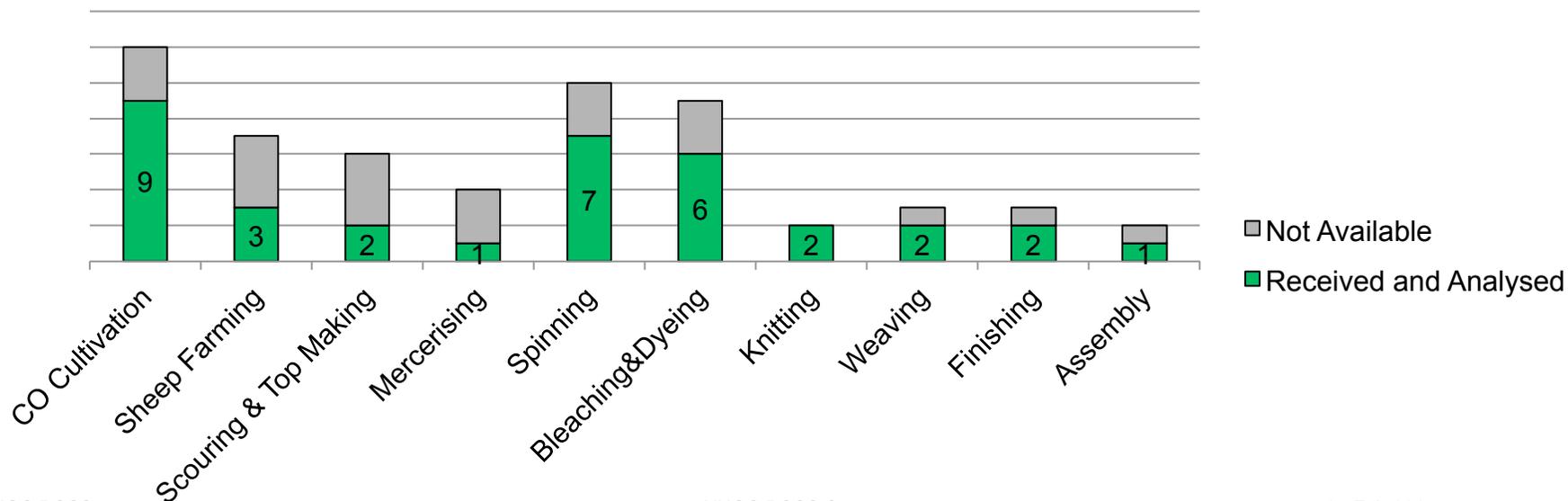
HUGO

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Mass LCA analyses – platform to calculate the corporate impact

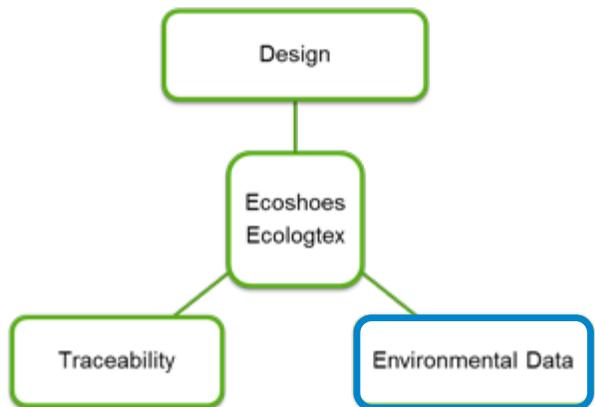


35 out of 58 questionnaires available from

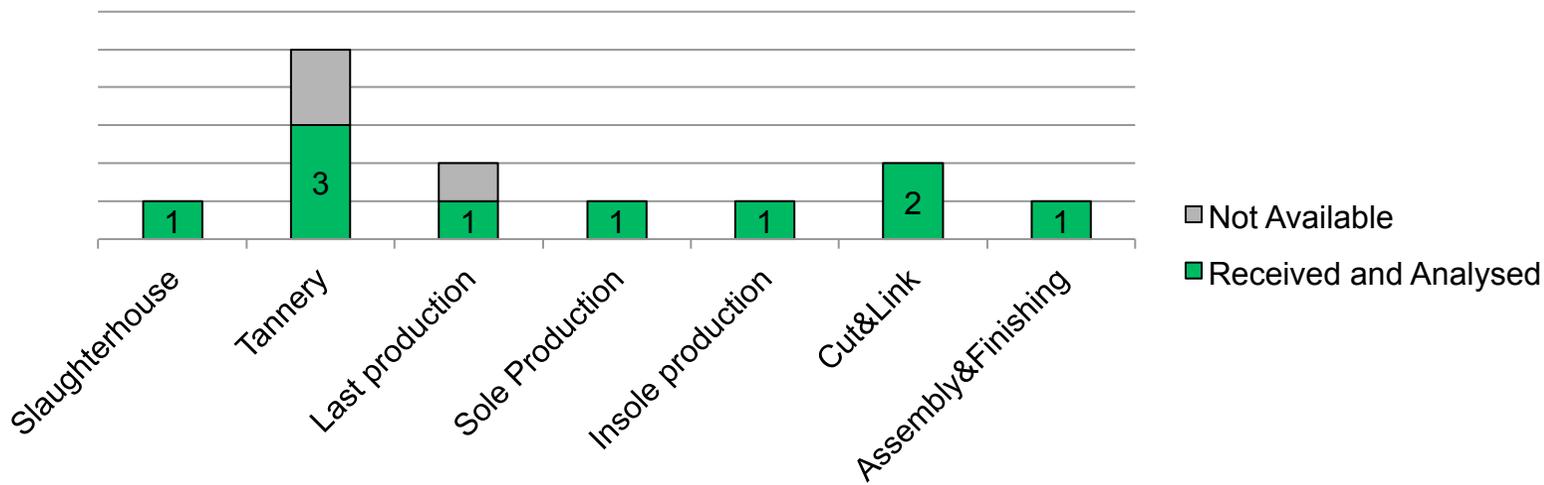


Life Cycle Assessment @ HUGO BOSS

Mass LCA analyses – platform to calculate the corporate impact

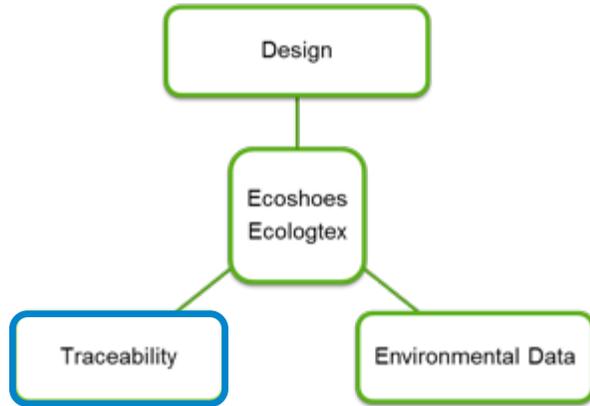


10 out of 13 questionnaires available from 



Life Cycle Assessment @ HUGO BOSS

Mass LCA analyses – platform to calculate the corporate impact



Simulation and traceability to plan and control supply chain impacts

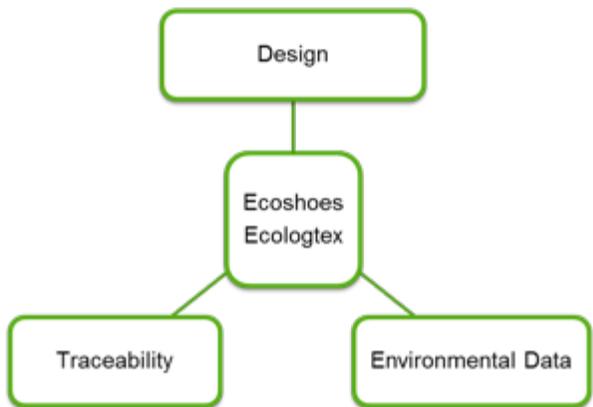
The screenshot displays the 'Chain Warehouse Declaration' interface. On the left is a navigation menu with sections: Registries (Input, Output), Warehouse (Declaration, Consultation), Production (Declaration, Consultation), and Synchronization (Regimes, Info). The main area shows a search bar for 'Registry: 1195 Sole leather 119' and 'Vendor: Elefante'. Below this is a hierarchical flowchart of supply chain stages, each with a '+' icon and 'Num. of lots: --':

- Farming** (3 boxes)
- Slaughterhouse** (3 boxes)
- Tannery** (3 boxes)
- Mold production** (1 box)
- Sole production** (1 box, highlighted in green)
- Insole production** (1 box)
- Cut&Link** (1 box)
- Warehouse** (1 box)
- Assembly + Finishing** (1 box, highlighted in green)

Arrows indicate the flow from Farming to Slaughterhouse to Tannery, and from Mold/Sole/Insole production to Assembly + Finishing. Warehouse and Cut&Link also feed into Assembly + Finishing. A vertical image of ants on the right side of the interface serves as a visual metaphor for supply chain complexity.

Life Cycle Assessment @ HUGO BOSS

Mass LCA analyses – platform to calculate the corporate impact



Calculate the impact of your product and its supply chain

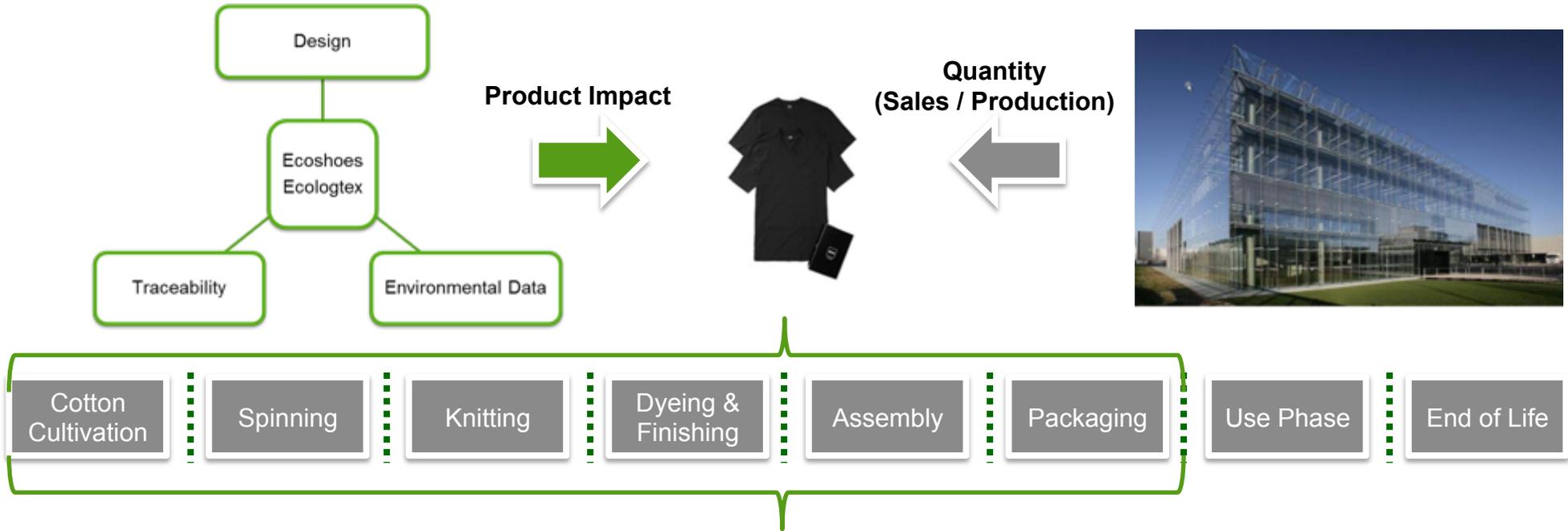
The screenshot displays a detailed supply chain flow for a shoe, organized into columns representing different stages. Each stage includes a product icon, a 'Disable' checkbox, and input fields for Country, City, and Vendor. The flow is as follows:

- Farming:** Three parallel entries for raw hides/skins, each with a quantity of 0.000 and a unit of L176, L177, and L178 respectively.
- Slaughterhouse:** Three entries for raw hides, each with a quantity of 2.4000000000000000 and a unit of L132, L143, and L147.
- Tannery:** Three entries for finished leather, each with a suggested input quantity of 2.4000000000000000 and a unit of L131, L142, and L135.
- Sole production:** One entry for sole leather with a suggested input quantity of 100.00000000 and a unit of L134.
- Insole production:** One entry for insole with a suggested input quantity of 100.00000000 and a unit of L144.
- Cut&Link:** One entry for upper/lining with a suggested input quantity of 130.5079629855 and a unit of L148.
- Assembly + Finishing:** One final entry for the shoe with a suggested input quantity of 100.000 and a unit of L150.

Each stage also includes a 'Last production' section with a small icon and a 'Suggested Input' field.

Life Cycle Assessment @ HUGO BOSS

Mass LCA analyses – platform to calculate the corporate impact



Corporate Supply Chain Environmental Impact (Scope 3)



Carbon Footprint



Water Footprint



Ecosystem Quality



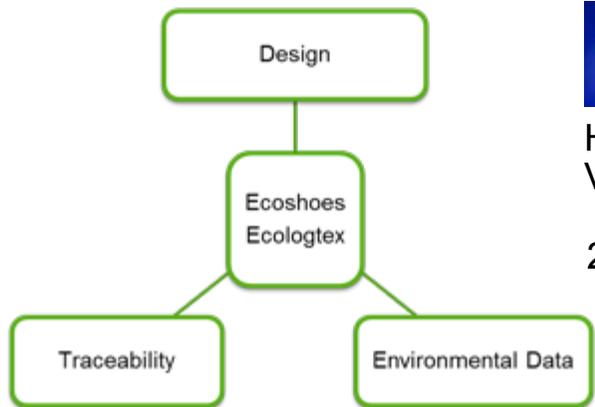
Natural Resources



Human Health

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Mass LCA analyses – the platform: what’s next?

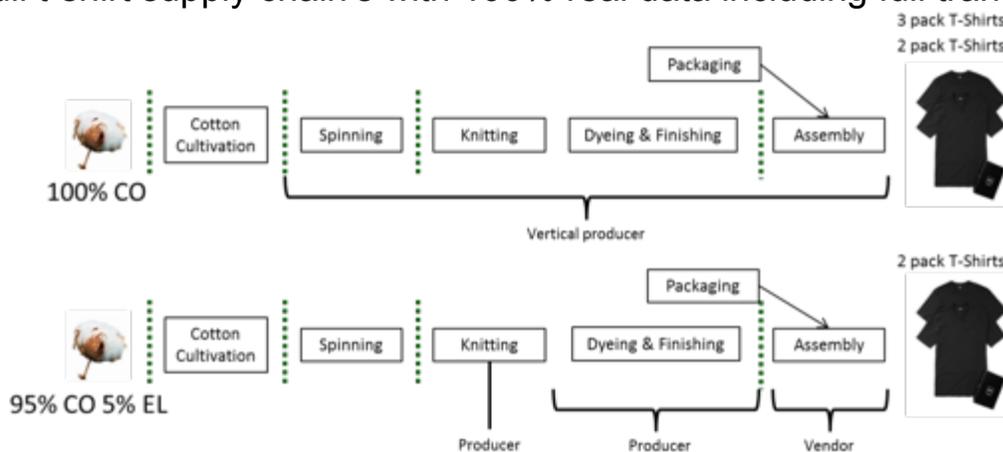


EU PEF t-shirt



HUGO BOSS represents Ticinomoda (association with members like Zegna, VF Corp, Armani, Gucci, Guess) in the reference group.

2 full t-shirt supply chain’s with 100% real data including full transport set up



Connecting to Quantis Suite



Open for further collaborations – Thank you!