



ICEBUG

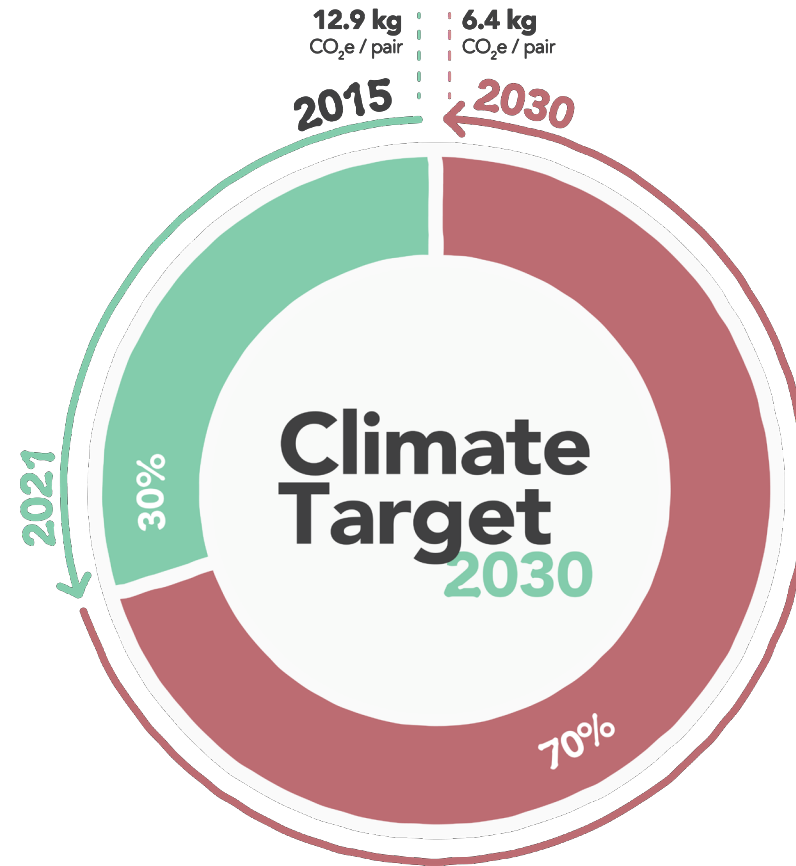
FOLLOW THE
FOOTPRINTS

Follow the footprints!

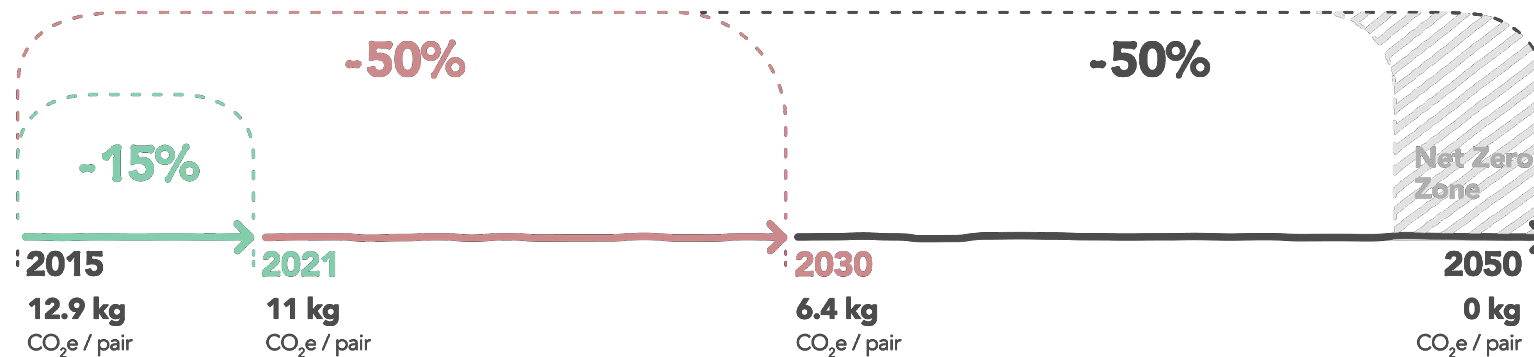
Maria Munther, Sustainability manager, Icebug



Climate target



Reaching net zero





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SWEDISH TRACTION FOOTWEAR

2015



2021



Only standard materials
as most shoes in the market today....

12,9 kg CO2e average per pair



A more sustainable shoe

15 % reduction →



25 %



18 %

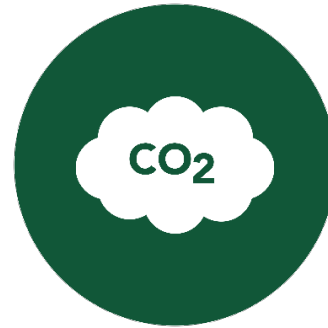
**Low
impact**

23 %



**11,0 kg CO2e
average**

Footprints per style



MATERIALS inc. packaging	+2,8 kg CO ₂ e
ENERGY, MANUFACTURING	+3,9 kg CO ₂ e
TRANSPORTS	+1,0 kg CO ₂ e
USE	
END OF LIFE	+0,1 kg CO ₂ e
TOTAL	+7,8 kg CO ₂ e



7,8 kg CO₂e per pair



28 weight-% recycled materials



37 weight-% bio based materials

Follow the footprints!



All Icebug products are made with

- 200% carbon footprint offset
- Social responsibility
- Transparent production and sourcing

We strive to

- Only make products that people need and use for a long time
- Completely get rid of new oil as a raw material
- Minimize the use of chemicals

You find the footprint of product through the QR-code on the label inside the shoe, on the box end sticker or at icebug.com



Why we made this shoe

- Walking & lifestyle shoe
- Comfortable, soft sneaker
- Biobased & recycled wool

Eide Wool Biosole

Made by



Product footprint

Product journey

Key features

Sustainability Indicators



7.8kg CO2 eqv. per pair



28 % recycled materials



37 % bio based materials

Material Specification

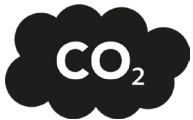
- Upper made of 50 % recycled wool.





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Icebug - sustainability key indicators

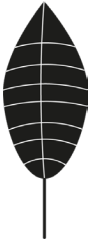


- Carbon footprint



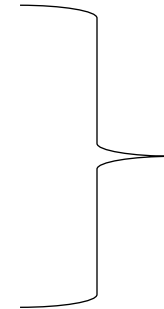
- Recycled material

- Bio based material

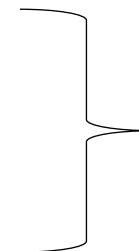


- Sustainable sourcing raw material

- Low impact processing of materials

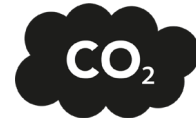


Footprint
communication



Backend
to measure
Improvement

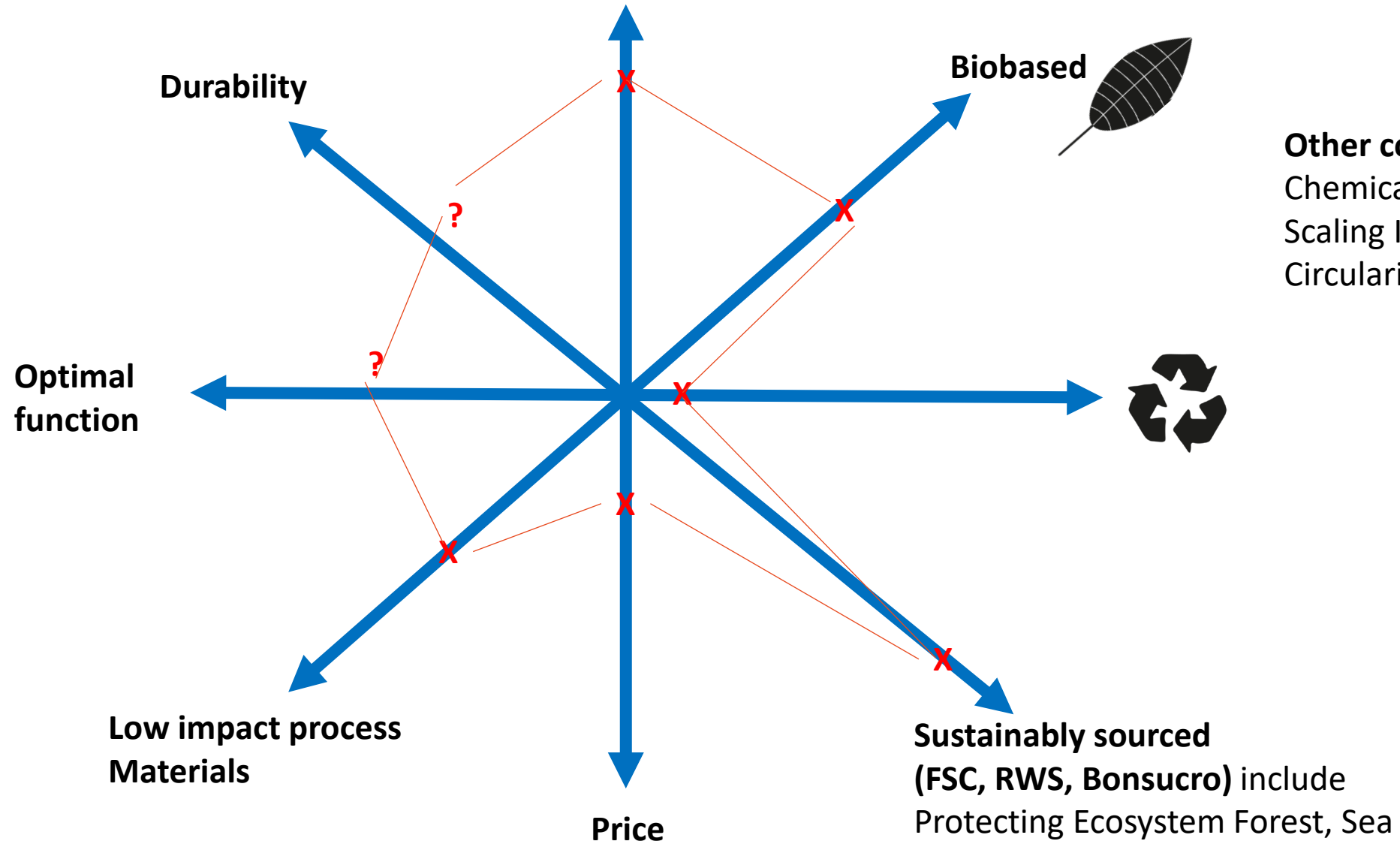
Braskem Bio-EVA



Low climate impact



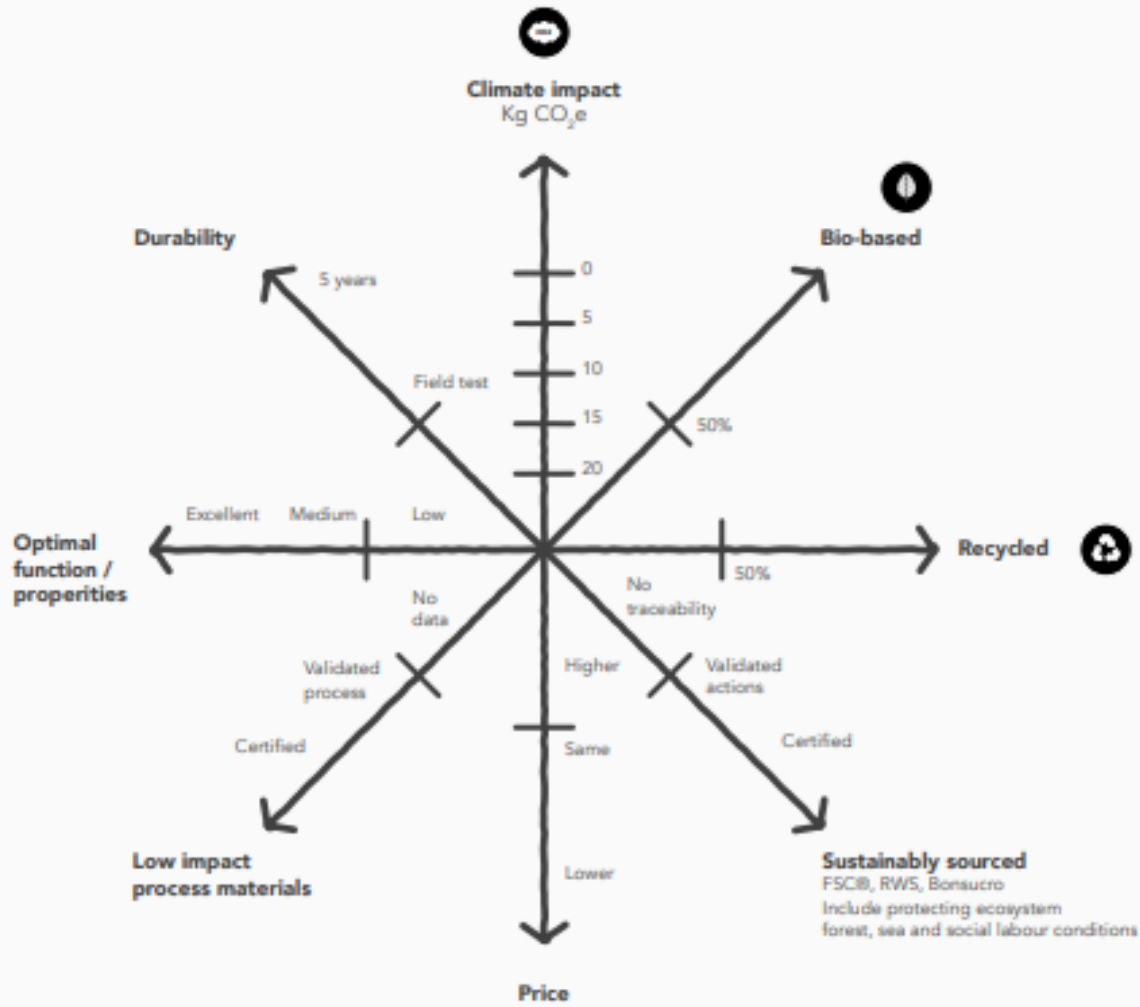
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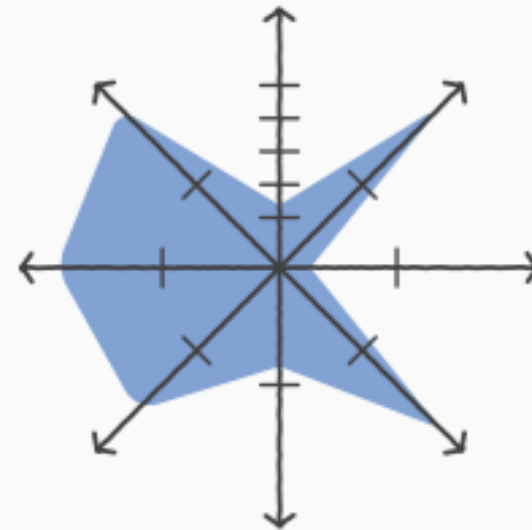
Other concerns:
Chemicals – basic level
Scaling Impact?
Circularity (style level)



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Material web - SPOOR leather



Product management in Trustrace



trustrace

Visualization

Product

Styles

Raw Materials

T-Trace

T-EMS

Supplier

Styles

View, Edit and Manage the styles

Specifications

Supply Chain

Evidences

Additional Information

Style

Year & Season

Style Number

Recurring Type

Manufacturer

Eide Wool Biosole

2022 SS

F88027-0A

Not Available

Chiefrays, Great Process (Viet Nam)

Back

Edit

Clone

Product Group

Shoes

Material Composition

0% Rubber, 0% Ethylene Vinyl Acetate, 0% Recycled Wool

Sustainability Labels

Not Available

Certifications Required:

No Standards and Certifications found

Click here for Chat Support

Bill Of Materials:

ARTICLE NAME / NO.	ARTICLE TYPE	SUPPLIER	AREA OF USAGE	CONSUMPTION QTY	MATERIAL COMPOSITION	COLOR	TRACEABLE
Bloom master batch 45/55 -Bloom Rise MB	Foams	BLOOM	Midsole	35 Grams	Ethylene Vinyl Acetate 55% + Algae 45%	Not Available	✓
BUGFORCE EVA-BUGFORCE	Foams	YI CHANG CO.,LTD	Midsole	140 Grams	Ethylene Vinyl Acetate 100%	Not Available	✓
Bloom master batch 45/55 -Bloom Rise MB	Foams	BLOOM	Insole	1 Grams	Ethylene Vinyl Acetate 55% + Algae 45%	Not Available	✓
Light weight EVA-Light Weight	Foams	YI CHANG CO.,LTD	Insole	4 Grams	Ethylene Vinyl Acetate 100%	Not Available	✓
2mm woolpower-2mm woolpower	Wool Waste	Woolpower AB	Lining	5 Grams	Recycled Wool 50% + Recycled Polyamide 15% + Recycled	Not Available	✓

SS21 Eide woolpower



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From BOM list, Bill of Material						Sum up weight per material type and match with sustainability data				Calculation		Recycled	Biobased	Sourcing	Low impact
Part	Component name, and specific article number	Material supplier	Weight per part, g	Material	Additional features, Material	Weight per material type	Life cycle phase: Material manufacturing "cradle to gate"	Chosen climate data base	Climate impact per kg material	kg CO2/ shoe pair	Cutting waste %			CERT.	LOW IMPACT
Upper, toe cap etc.				TPU, EVA, PET		per pair of shoe, g	Material def. as specified in sustainability data base	cust.= Icebug customized	CO2/kg mtrl		per material	g recycled mtrl	g Biobased mtrl	g Source Certified mtrl	g low impact mtrl
Upper/lining mtrl	Lacing, eylet, webbing	YongXin, Ji Lian/yung hsin/ Hsin	9	PET fabric	100 % recycled	9	100 % recycled	Higg MSI, cust.	8,13	0,08	5	9	0	0	0
	Woolpower felted wool	Woolpower	111	Woolpower	50% recycled wool+15 % Polyamide+35 %PET	111	Woolpower customized 50 % recycled wool	Higg MSI, cust.	8,86	1,03	5	55,5	55,5	0	55,5
				Wool fabric	standard		Wool fabric	Higg MSI, gen	47,9		5	0	0	0	0
	Milguard Ocean T3	Milspeed	2	Nylon, polyethylene, polyester	T3 ver 2: 15 % rec. nylon, 39 % rec polyethylene, 39 % ethylene, 7 %non woven polyester	2	54 % recycled	supplier LCA(Jacobs)	3,22	0,01	0	1,08	0	0	0
eyelet	Milforce 3301	Milspeed	3	Nylon, polypropylene, polyester, EVA	Milforce 3301: 4 % rec. Nylon, 16 % rec. Polypropylene, 36 % polypropylene, 32% EVA, 12 % polyester	3	20 % recycled	supplier LCA(Jacobs)	3,77	0,01	0	0,6	0	0	0
Midsole	Leight weight EVA with 20% Bloom MB	Yi Chang/BLOOM	180	EVA with Bloom	90 % EVA+10 % algae biomass	180	80 % 5,07 (typical shoe EVA)+20 % 1,17 från Bloom masterbatch LCA	Higg MSI cust.	4,29	0,81	5	18	18	0	0
	Outsole RB9X (15%recycled)	Yi Chang	163	Outsole mix	31 % natural rubber, rest of mix CONFIDENTIAL. 15 % recycled - synthetic or other?	163	customized: 31 % natural rubber, rest CONFIDENTIAL! Chose 35% styrenbutadien, 34%	Higg MSI cust.	4,07	0,70	5	24,45	50,53	0	0
				Total weight	pair of shoes	468	Materials "cradle to factory gate" including cutting waste 5-15 %			2,63		Recycled material weight g	Biobased material weight g	Sourcing cert. material weight g	Low impact material weight g
							Life cycle phases from factory gate:			kg CO2/ shoe pair		108,63	124,03	0,00	55,50
							Packaging: shoe box + 1/5 of transport carton			0,31		23,21	26,50	0,00	11,86
							Production, from Factory: GTP + soles			3,93				CERT.	LOW IMPACT
							Transports, to stock			0,61					
							Transports, to customers			0,35					
							User phase								
							End of life			0,22					
							Climate impact factory to end of life:			5,42					
							TOTAL Climate impact per pair,			8,05					
							kg CO2 eqv.								

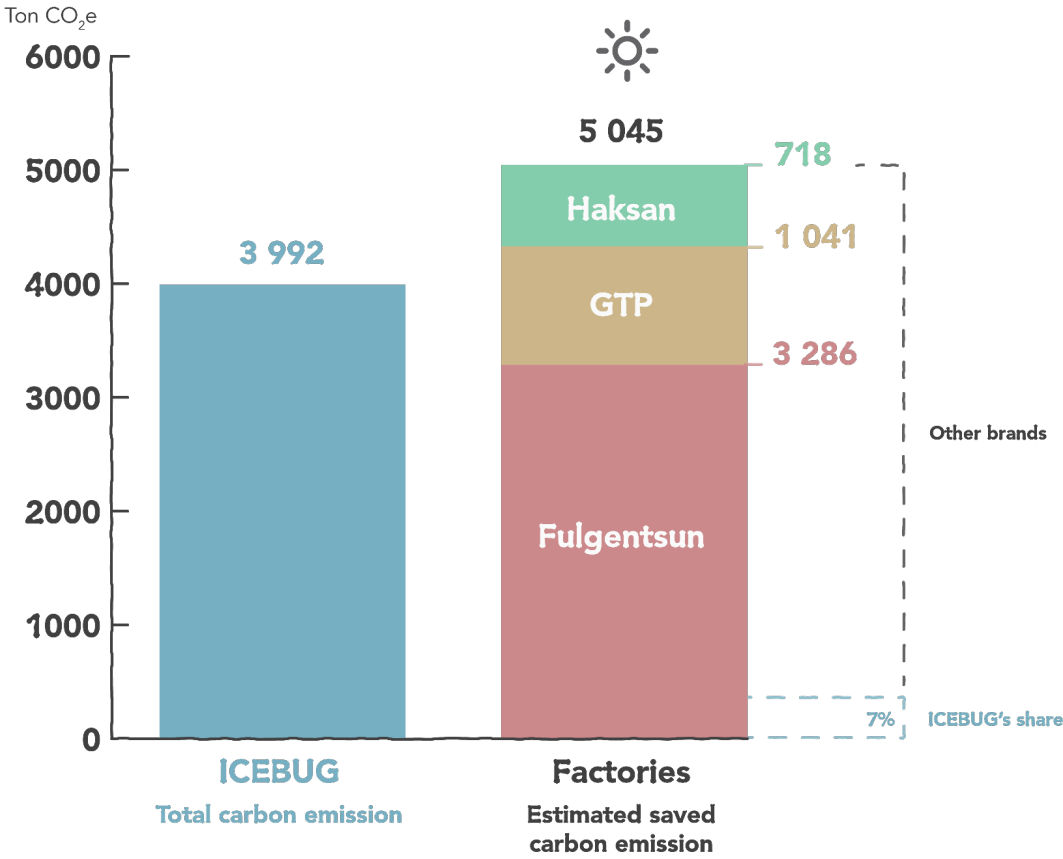
Calculate materials climate impact:

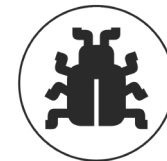
1. BOM list, recipy of shoe weight per material
2. Sum up mateiral types
3. Match with climate data, cradle to gate:
 - general
 - customized from data base
 - supplier specific
4. Real energy data from sole and assembly factory "black box"
5. Real transport data from factory-stock and stock-customer.
6. End of life – burning with energy recovery, formula biobased content.

Solar on factory rooftop



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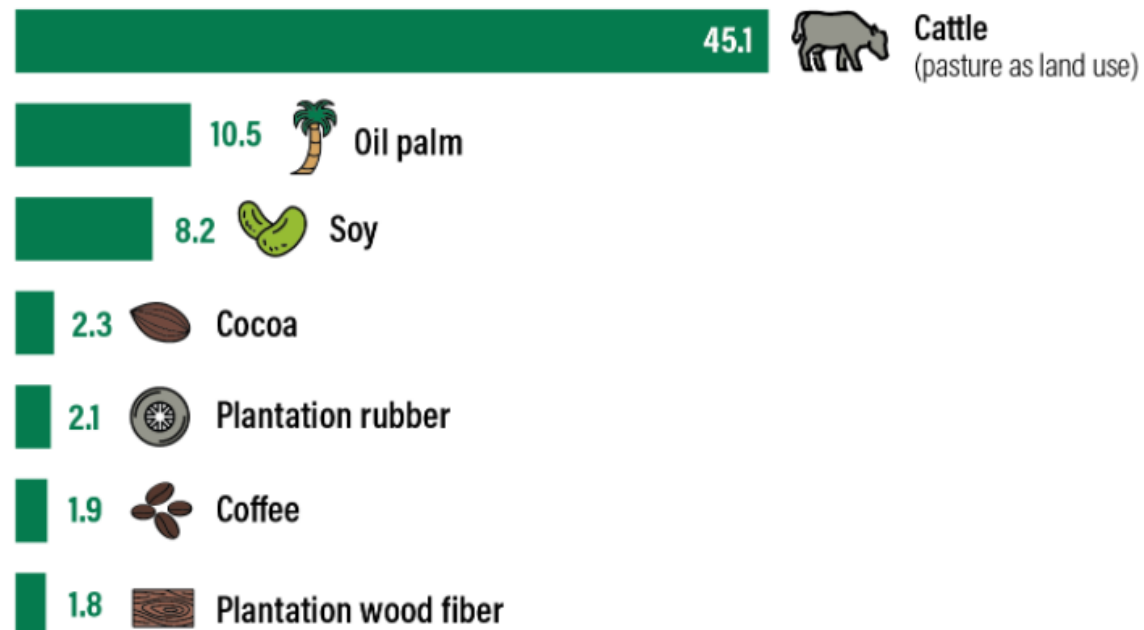


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Materials causing deforestation

Total forest replacement by analyzed commodities (2001-15)

Deforestation (2001-15, million hectares)



Source: Global Forest Review, World Resources Institute.

SPOOR & ECCO dritan



**SPO
OR.**





Thanks!



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Join the Climate Action Movement

13 BEKÄMPA KLIMAT-
FÖRÄNDRINGARNA



17 GENOMFÖRANDE
OCH GLOBALT
PARTNERSKAP

