



Moda e sostenibilità: il caso della pelle biodegradabile

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BEAMHOUSE

- soaking
- liming
- unhairing
- fleshing
- splitting
- delimiting
- bating
- pickling



TANNING



CRUSTING







- pressing
- shaving
- neutralization
- retanning
- dyeing
- fatliquoring
- drying
- softening



FINISHING



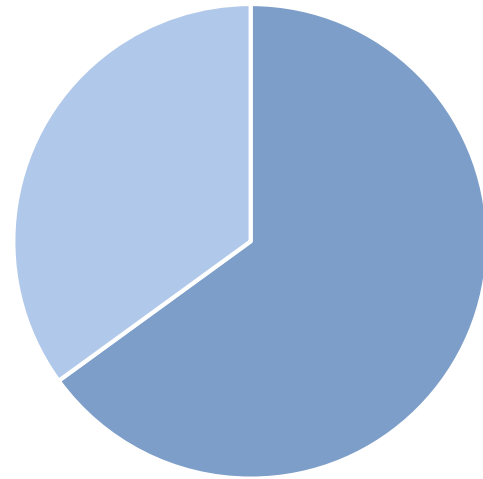
PRODUZIONE DI PELLE CONCIATA IN MILIONI DI M²

| COUNTRY |  | 2005 | 2010 | 2015 |
|---------|--|------|------|------|
| China |  | 500 | 540 | 554 |
| Brazil |  | 128 | 175 | 210 |
| Russia |  | 141 | 151 | 153 |
| India |  | 117 | 137 | 141 |
| Italy |  | 202 | 162 | 140 |

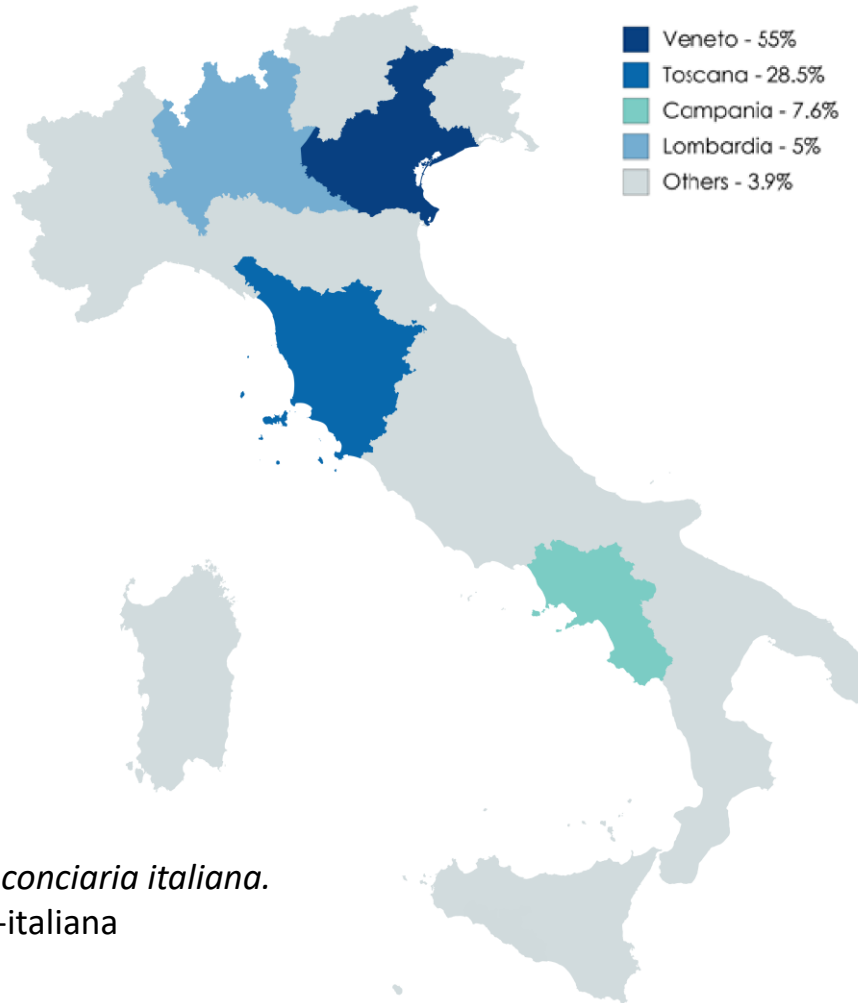
International Council of Tanners. *Statistics & sources of information*. <https://leathercouncil.org/information/statistics-sources-of-information/>

I DISTRETTI CONCIARI ITALIANI

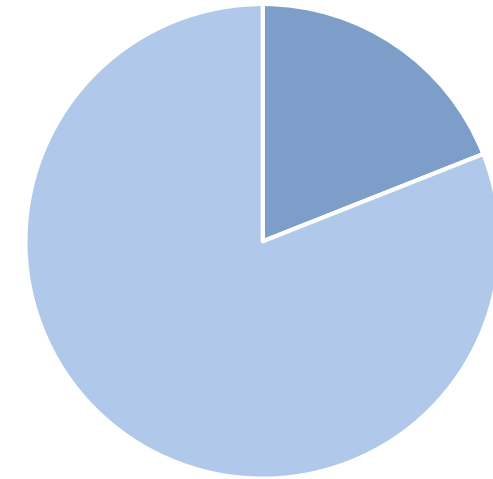
65% of the EU production



■ Italy ■ Other EU countries

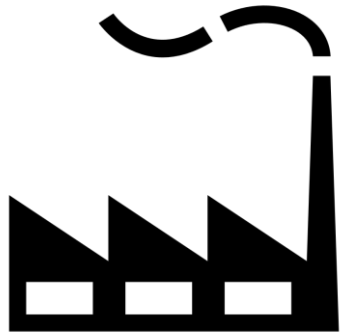


19% of the global production



■ Italy ■ Other world countries

UNIC - Unione Nazionale Industria Conciaria. *L'industria conciaria italiana.*
<http://www.unic.it/conceria-italiana/industria-conciaria-italiana>



- Utilizzo di sostanze chimiche nocive (coloranti azoici, cromo trivalente)
- Emissione di sostanze tossiche (idrogeno solforato, ammoniac, tetracloetilene)
- Produzione di acque reflue ad alto contenuto di cromo e di **COD** – Chemical Oxygen Demand

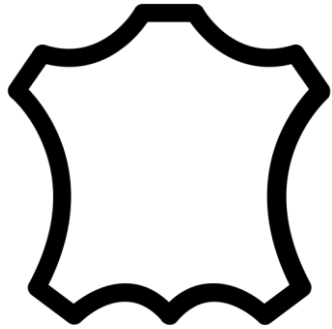
Naturella® is a **chromium-free biodegradable** animal leather treatment, compliant with the **Ecopelle** certification specifically designed by Santori Pellami S.p.A. for the luxury sector



The European Commission developed the PEF/OEF methodology to allow the reproducibility and the comparison of products and organizations in a common European **Single Market for Green Products**

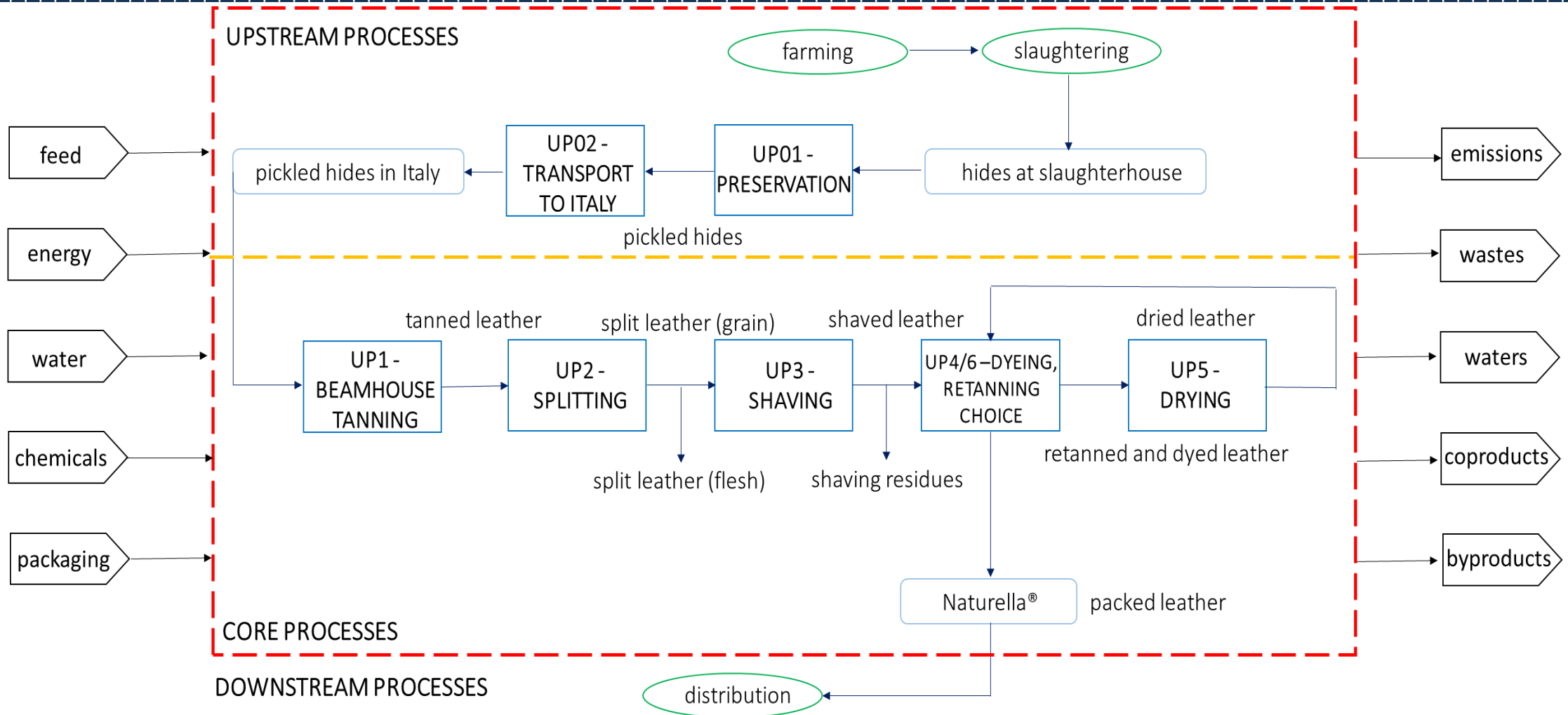


The PEFCR for leather was issued on April 25th, 2018

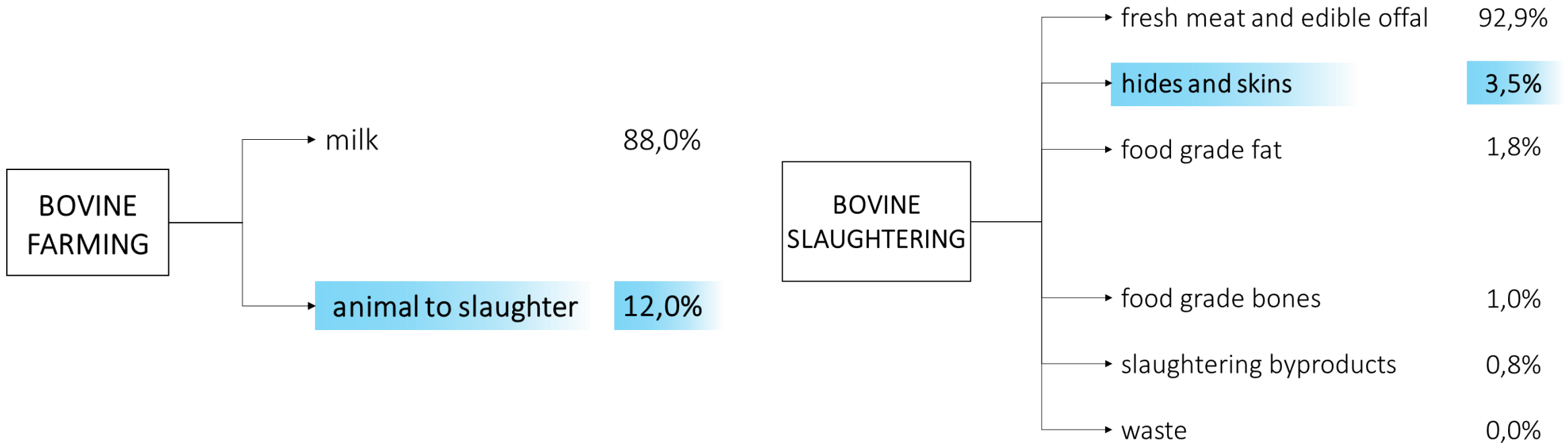


- Unità dichiarata: **1 m² di pelle bovina finita**
- Classe rappresentativa di prodotto: **RP2 – Footwear and leather goods**
- scenario: **cradle-to-gate**
- Fonti di dati: **Ecoinvent, Thinkstep, Quantis**
- software: **SimaPro 8.5.2**

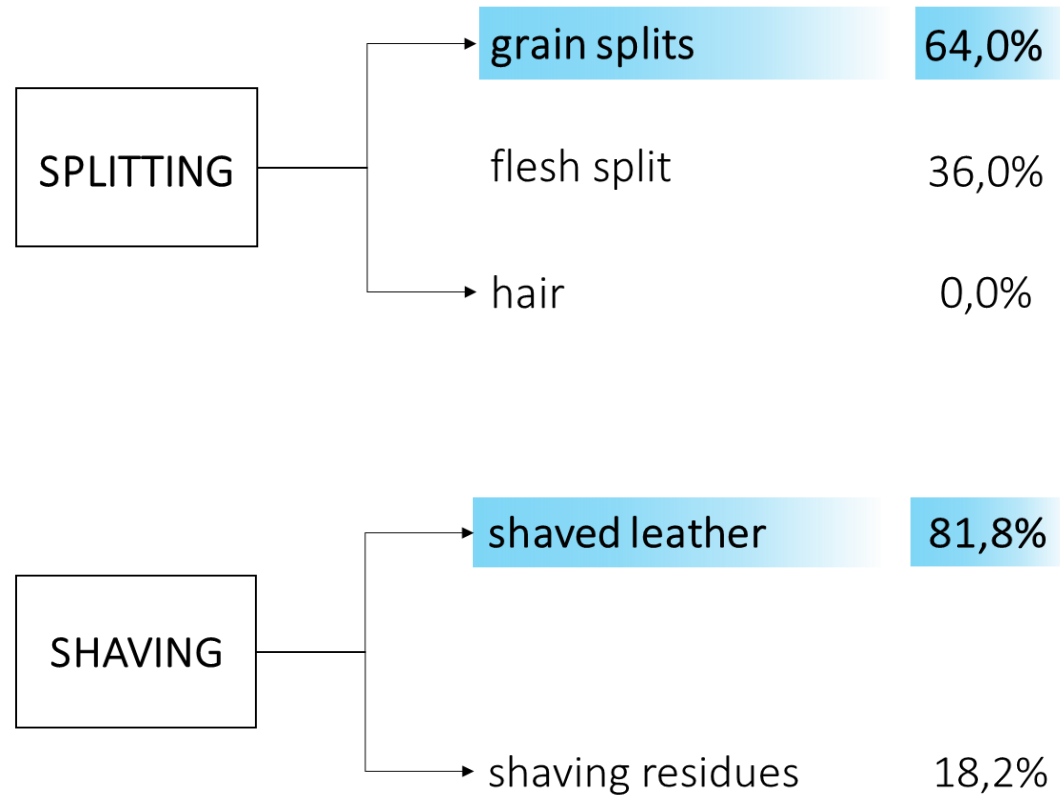
I CONFINE DEL SISTEMA

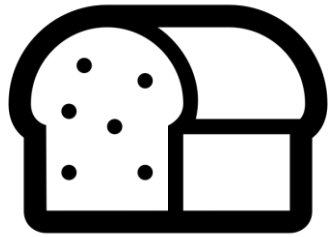


REGOLE DI ALLOCAZIONE PER I PROCESSI UPSTREAM



REGOLE DI ALLOCAZIONE PER I PROCESSI DI CORE

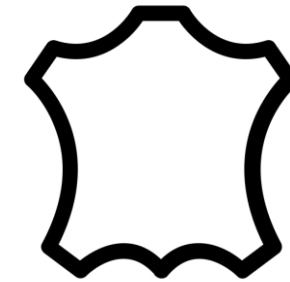




Wheat bread, 250 g
0,21 kgCO_{2eq}

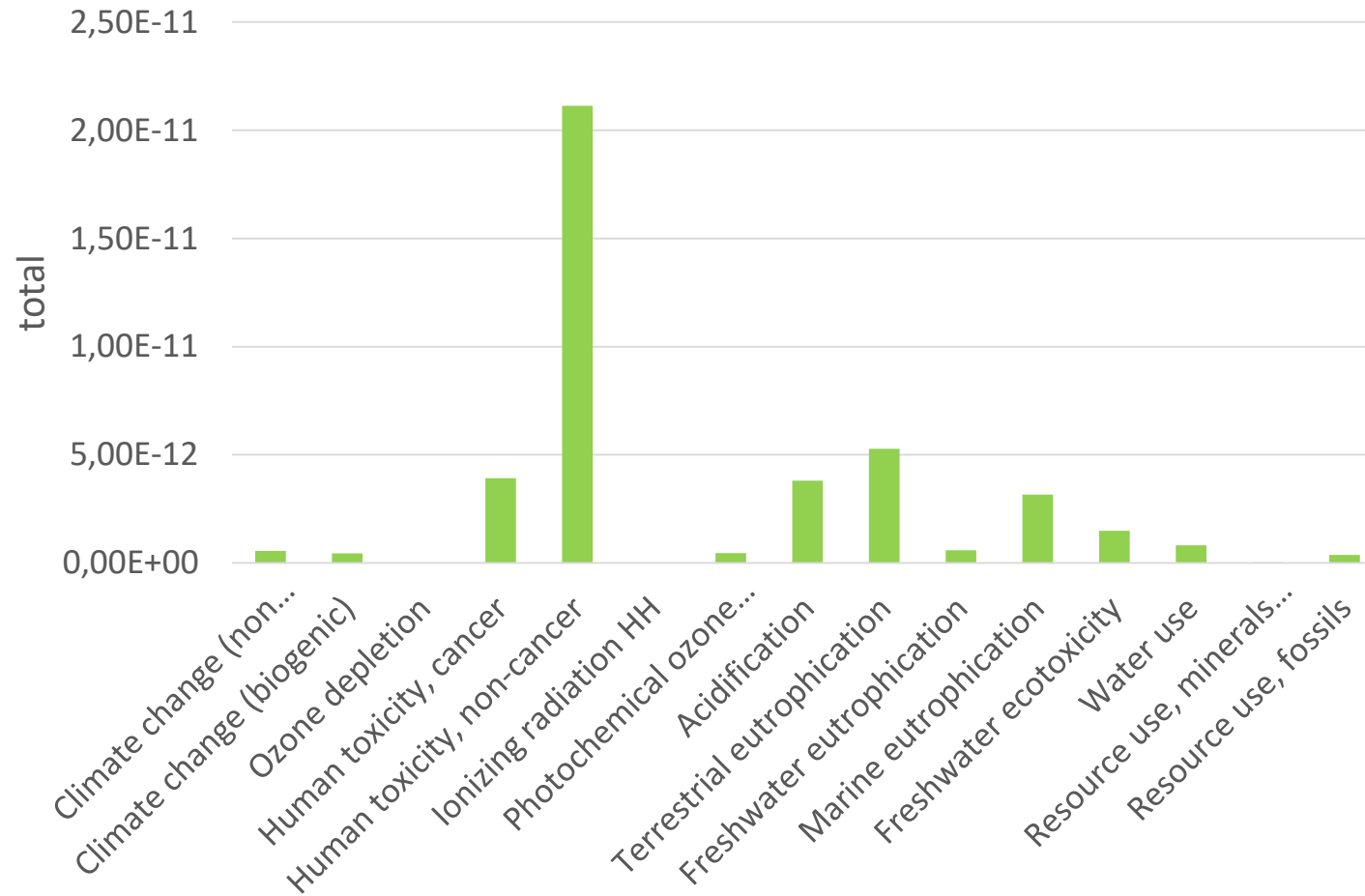


Beef fillet, 150 g
6,72 kgCO_{2eq}

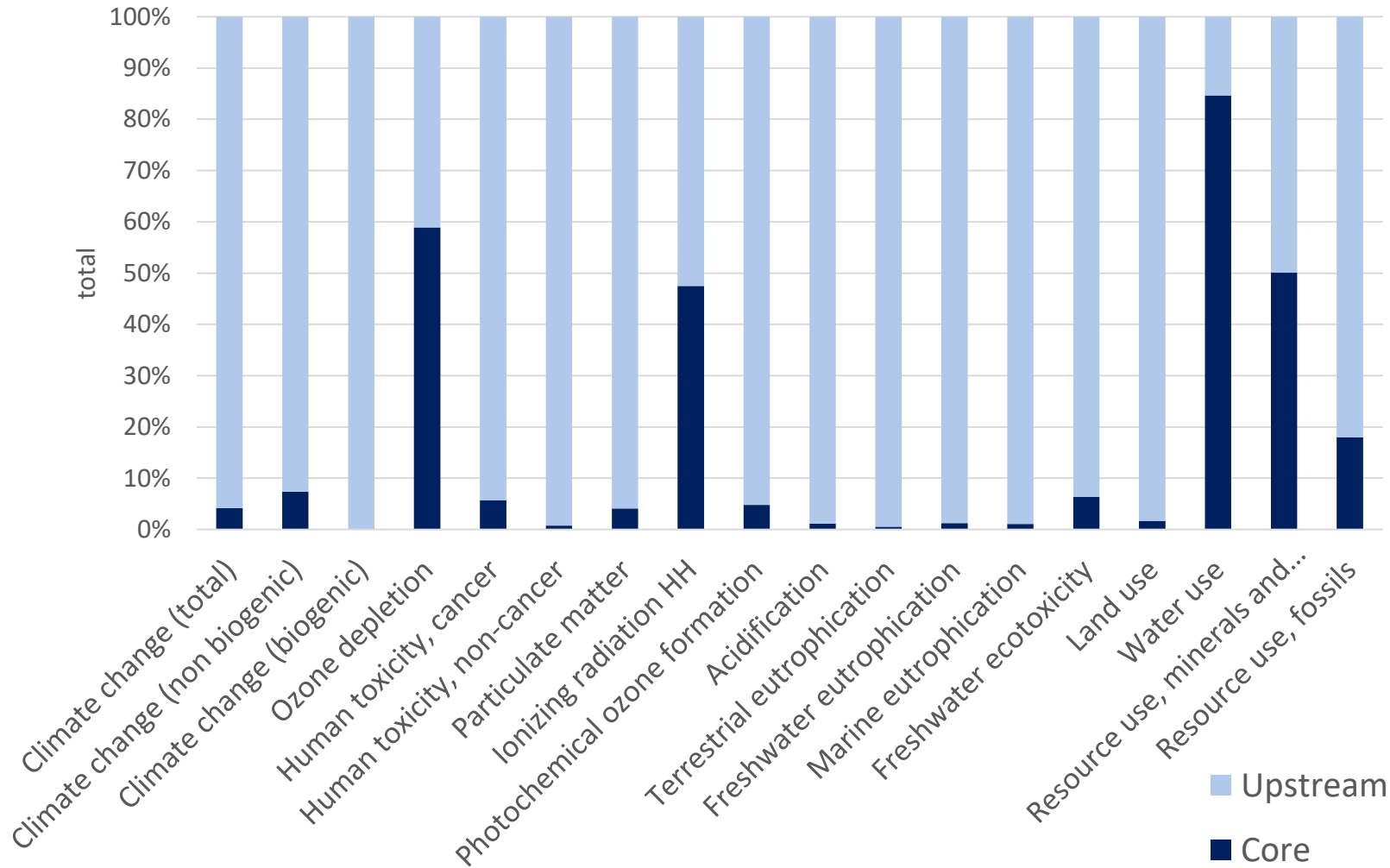


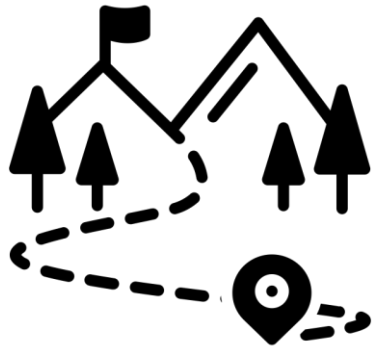
Naturella[®], 1 m²
29,7 kgCO_{2eq} (non biogenica)
23,4 kgCO_{2eq} (biogenica)

IMPATTI NORMALIZZATI



IMPATTI NORMALIZZATI: ANALISI DEI CONTRIBUTI





- Scegliere pelli da filiere sostenibili
- Ridurre i consumi energetici
- Migliorare il processo di concia
- Sostituire agenti concianti nocivi

- Santori Pellami (dott.ssa Sara Santori)
- LARIX Italia (Dott.ssa Giuditta Mauri, dott. Luigi Bonanomi)
- Ing. Tommaso Alessandro Negretti
- Dott. Primiano De Rosa