

# Product Environmental & Social Impact Labelling Methodologies

23/03/2023 - VERSION 4

L'ORÉAL

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## 01.

## INTRODUCTION

In compliance with the commitment L'Oréal made in 2013 when launching its "Sharing Beauty With All" sustainability programme, Environmental and Social Impact Labelling was designed **to inform consumers on the environmental and social impact of their products**, and consequently, empower them to make conscious consumption choices. This information is now available to consumers on our brands' websites of 6 of our international brands for hair care, face care and body care products in 23 countries in Europe, the United States, Canada, Mexico, and Indonesia. The roll-out of this labelling system is in progress in other countries, brands and categories of the L'Oréal Group. This labelling is based on the key impact assessments of the Sustainable Product Optimisation Tool (SPOT), the methodology L'Oréal has developed together with independent scientists and experts<sup>(1)</sup>, and aligned with the European Product Environmental Footprint (PEF) guidelines, to scientifically evaluate a product's environmental and social impact.

Since 2017, all new or renovated L'Oréal products<sup>(2)</sup> are evaluated with SPOT. By 2022, 97% of them had an improved profile.

Calculating the product environmental footprint of a L'Oréal product is a way of accurately determining its impact on **14 environmental** factors such as

greenhouse gas emissions, water scarcity, water acidification and biodiversity.

These impacts are measured at every stage of a **product's life cycle**. The impact is calculated by looking not only at **sourcing, production and transportation, but also usage and packaging recyclability**. For example, the water used in the production cycle, the percentage of recycled plastic used in the packaging and the CO<sub>2</sub> emissions generated by heating water in the shower all enter into the calculation.

In the case of cosmetics, the carbon and water footprints are the most important impact factors.

Thus, L'Oréal communicates the **overall environmental score**, as well as the detailed **carbon and water footprints** of its marketed products. The present document sets out:

- The methodologies that have been developed to calculate and communicate as a score three key indicators of product environmental performance, so as to allow consumers to compare products offering the same type of cosmetic benefit and be able to select the product with the lowest environmental footprint.
- The labelling rules that require complementary information to be provided on product manufacturing conditions, packaging profile and product social impact.

<sup>(1)</sup> Ganaël Bascoul, Koen Boone, Anne-Marie Boulay, Andreas Ciroth, Ian Fenn, Dominique Gangneux, Virginie Raison, Sarah Russo Garrido, Tomas Rydberg, Greg Thoma, Alessandra Zamagni.

<sup>(2)</sup> Except recent acquisitions and products produced outside of L'Oréal facilities references.

## 02.

CALCULATION OF  
ENVIRONMENTAL  
INDICATORS

Three environmental indicators were retained to communicate the level of environmental performance of our products:

- Overall Environmental Impact
- Carbon Footprint
- Water Footprint

These three indicators are based on the **environmental impact assessment methodology** which was defined between 2014 and 2016, and updated in 2021 to evaluate the reduction of product impact, before being deployed in all brands as of 2017, so as to be compliant with our commitment to improve our product impact and offer the possibility for product developers to monitor progress.

L'Oréal's vision to develop and to offer consumers products with an improved environmental or social profile was made public in 2013 by L'Oréal CEO Jean-Paul Agon through the following two "Sharing Beauty With All" (SBWA) objectives:

- By 2020, we will innovate to ensure that 100% of new or renovated products have an improved environmental or social footprint<sup>(3)</sup>.
- By 2020, we will empower L'Oréal consumers to make sustainable consumption choices<sup>(4)</sup>.

Both the Environmental and Social Product Impact Labelling, designed to help consumers make more sustainable consumption choices, and SPOT (Sustainable Product Optimisation Tool), an internal tool used by L'Oréal product managers to measure progress, are based on the same environmental impact assessment methodology.

<sup>(3)</sup> "Every time we invent or renovate a product we will improve its environmental or social profile against at least one of the following criteria: the new formula reduces the environmental footprint; the new formula uses raw materials that are sustainably sourced or that or derived from Green Chemistry; the new packaging has an improved environmental profile; the new product a positive social impact." 2013 SBWA Program Booklet.

<sup>(4)</sup> "We will use a product assessment tool to evaluate the environmental and social impact of 100% of new products and all brands will make this information available to allow consumers to make sustainable lifestyle choices" 2013 SBWA Booklet.

# Environmental impact assessment methodology

This methodology is in line with the European PEF (Product Environmental Footprint) principles<sup>(5)</sup>, and was used as a basis for the development of SPOT that was launched in 2016 and deployed in 2017 worldwide for all brands.

## A METHODOLOGICAL FRAMEWORK BASED ON LIFE CYCLE ASSESSMENT

The methodology is applicable to all L'Oréal cosmetic products<sup>(6)</sup>. In general, a cosmetic product is made up of a formula and its packaging. In some cases, accessories may be sold together with cosmetic products, such as gloves, combs, etc. Most of the accessories are included in the scope of the assessment with the exception of electronic devices.

L'Oréal's methodology is based on the **Life Cycle Assessment (LCA)** approach in order to ensure the full impact of a product from raw materials to end of life is taken into account and give product developers tangible levers to improve a product's environmental and social footprint.

The framework is the current work being carried out through the European Commission initiative on PEF. Under this initiative, specific guidelines are developed aiming at harmonising indicators used for product environmental assessment as well as rules on how to calculate them. While no cosmetic product categories were selected to be part of the official PEF experiment, a "shadow" group for shampoos following the same approach was initiated, led by the professional association Cosmetics Europe. Guidelines developed through this "shadow" group<sup>(7)</sup> and a scientific publication<sup>(8)</sup> have also been used as a basis for the SPOT environmental assessment methodology.

Reference methodologies and databases are not always applicable to cosmetic products. Consequently, they had to be adapted to our products.

<sup>(5)</sup> The PEF describes the Life Cycle Analysis (LCA) principles and how to use them to measure a product's environmental footprint. European Commission – Joint Research Centre (2012): Methodology for environmental assessment: "PEF methodology – final draft: "Product Environmental Footprint (PEF): Guide of 17 July 2012 (guide for SPOT development between 2014 and 2016). <https://ec.europa.eu/environment/eussd/pdf/footprint/PEF%20methodology%20final%20draft.pdf>

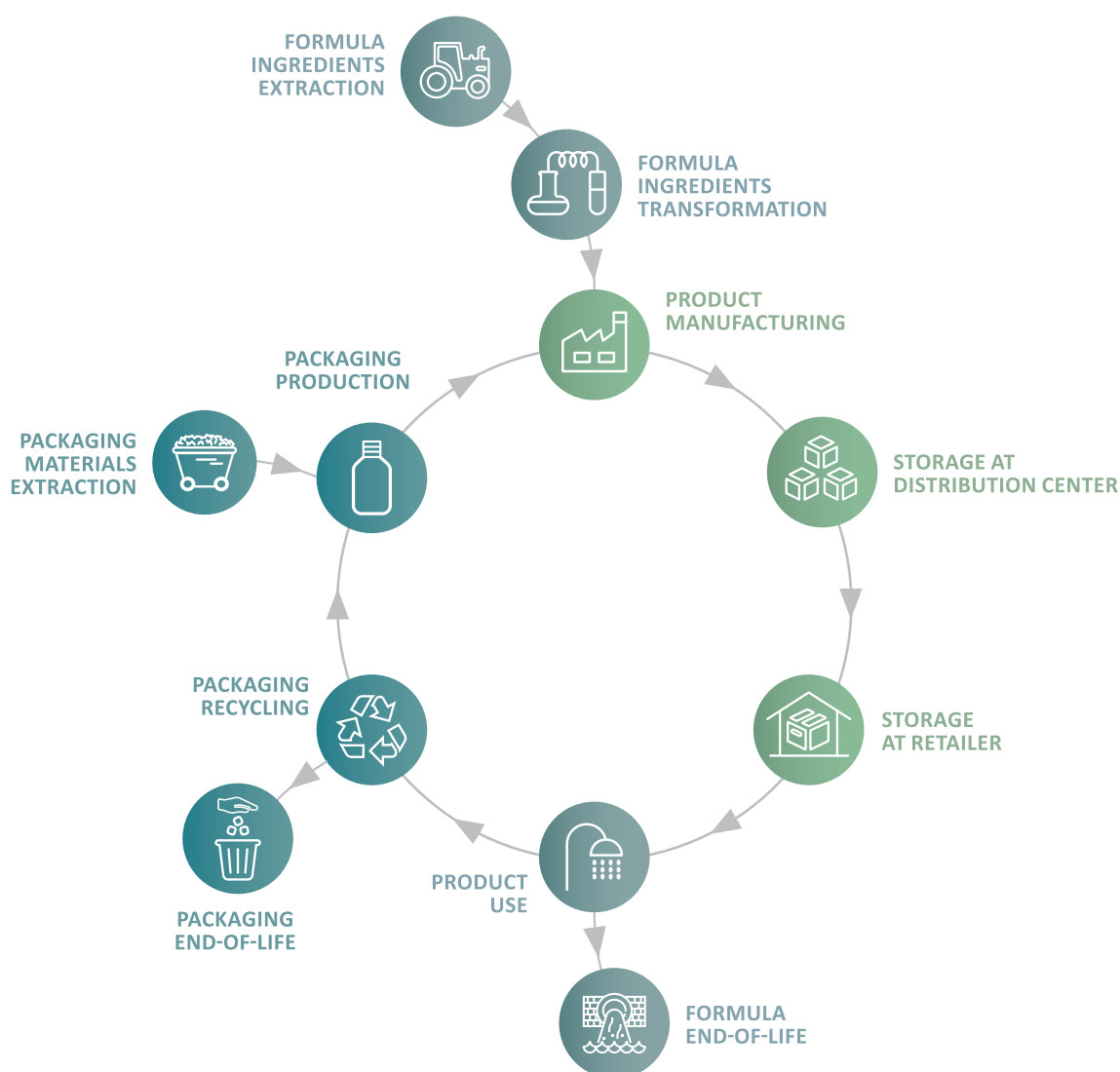
<sup>(6)</sup> Cosmetic products manufactured by the Group's factories or purchases of finished products made by subcontractors. The scope of L'Oréal factories covers only those factories operating under the SAP WISE system, which allows information to be reported via the IDG computer system. To date, only 4 Group factories are outside the scope (India: Pune and Badi factories; Israel: Magdal factory; Kenya: Nairobi factory). Excluded from the scope are unsold products (i.e. samples, testers and "one shot"), promotional products and any brand acquisitions made after 2013 that have not yet entered the product design ecosystem (e.g. LOGOCOS, THAYERS, TAKAMI, etc...) or new creations.

<sup>(7)</sup> Cosmetics Europe (2017): Study into the development of Product Environmental Footprint Category Rules (PEFCR) for Shampoo: Explanatory Document and five reports listed in Annex II of the Explanatory Document.

<sup>(8)</sup> Golsteijn L., Lessard L., Campion J.F., Capelli A., D'Enfert V., King H., Kremer J., Orliac H., Roulet Furnemont S., Schuh W., Stalmans M., Williams O'Hanlon N., Coroama M. (2018): Developing Product Environmental Footprint Category Rules (PEFCR) for shampoos – The basis for comparable Life Cycle Assessments, Integrated Environmental Assessment and Management - Volume 14, Number 5 - pp. 649–659. <https://setac.onlinelibrary.wiley.com/journal/15513793>

The environmental assessment calculates the impact of a product over its entire life cycle. It takes into consideration the value chain of a cosmetic product, together with environmental methodological references, and uses the life cycle diagram in Figure 1.

**FIGURE 1: LIFE CYCLE STAGES OF A COSMETIC PRODUCT\***



\* Environmental impacts at the different stages of the product life cycle can be linked to the formula (grey circles), the packaging (blue circles) or the finished product manufacturing and distribution (light green circles).

## ENVIRONMENTAL IMPACT FACTORS

The environmental impact factors selected as part of the SPOT tool are in line with:

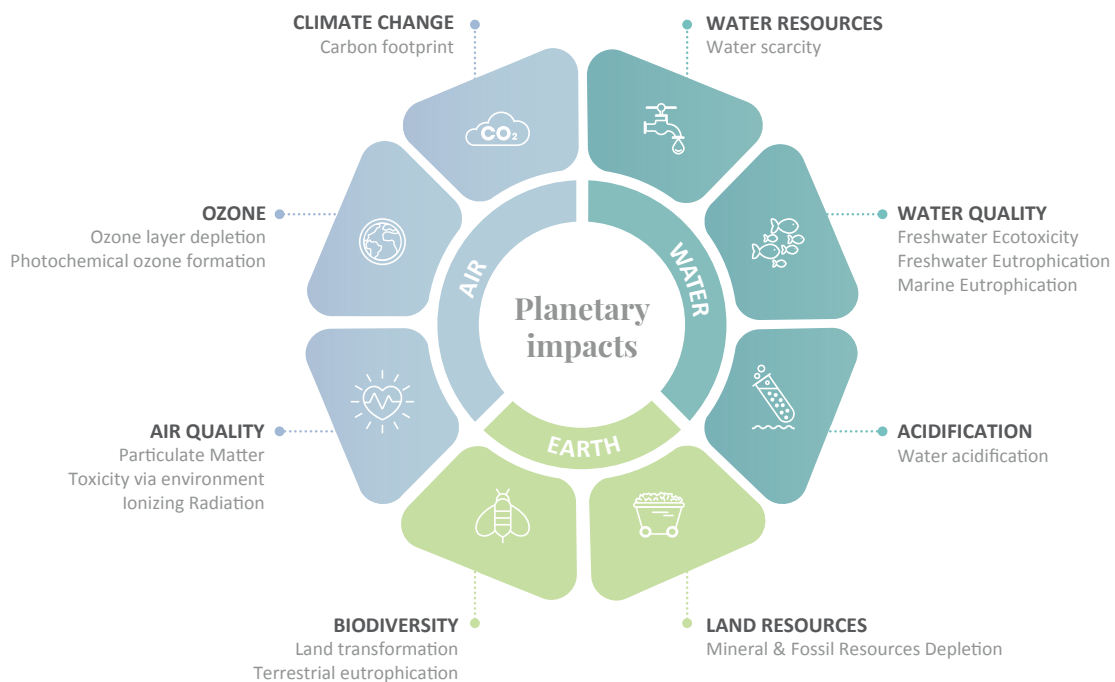
- The European Commission's Product Environmental Footprint (PEF) guidelines for environmental impact assessment<sup>(9)</sup>;
- The Product Environmental Footprint Category Rules (PEFCR) “shadow pilot project” for shampoo products developed by Cosmetics Europe<sup>(10)</sup>.

**14 impact factors are currently taken into account.** They include the 16 impact factors recommended in the PEF methodology by combining the 2 factors linked to environmental toxicity (cancer and non cancer) and the 2 factors linked

to non-renewable resources (fossil and mineral).

These impact factors, shown in Figure 2 by impact category and described in Table 1, provide an overall and consistent overview of potential cosmetic environmental impacts. However, a few modifications/adaptations were made on the impact assessment methodologies for some of the factors in order to either better adapt to the specificities of cosmetic products, such as freshwater ecotoxicity, or to anticipate foreseeable methodological or data collection improvements, such as fossil fuels and minerals.

**FIGURE 2: CATEGORIES OF ENVIRONMENTAL IMPACT FACTORS COVERED**



<sup>(9)</sup> European Commission - Commission Recommendation of 16.12.2021 on the use of the Environmental Footprint methods to measure and communicate the life cycle environmental performance of products and organisations.

[https://environment.ec.europa.eu/publications/recommendation-use-environmental-footprint-methods\\_en](https://environment.ec.europa.eu/publications/recommendation-use-environmental-footprint-methods_en)

<sup>(10)</sup> Cosmetics Europe (2017): Study into the development of Product Environmental Footprint Category Rules (PEFCR) for Shampoo: Explanatory Document and five reports listed in Annex II of the Explanatory Document.

**TABLE 1: DESCRIPTION OF THE 14 ENVIRONMENTAL IMPACT FACTORS USED**

| IMPACT FACTORS                                            | METHODOLOGIES PROPOSED                                                                                                                                 | UNITS                          | PEF COMPLIANCE                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Climate Change                                            | <b>IPCC 2013, 100 ans</b>                                                                                                                              | kg CO <sub>2</sub> - eq        | Yes                                                                                                                                                                                                                                                                                                                                                                                       |
| Water Resources<br>Water Scarcity<br>(Water depletion)    | AWaRe                                                                                                                                                  | L of water - eq                | Yes                                                                                                                                                                                                                                                                                                                                                                                       |
| Water Quality - Freshwater<br>Ecotoxicity                 | For emissions of formula in water<br>at the end of life: custom method<br>from L'Oréal based on USEtox<br><br>Framework<br>For other emissions: USEtox | CTUe <sup>(11)</sup>           | <b>No, because the data impact<br/>obtained by our LAIM method takes<br/>into account the most sensitive<br/>species and our internal internal<br/>ecotoxicity database.</b><br><br><b>No, due to an inconsistency between<br/>the "PEF USEtox" database<br/>developed by the European<br/>Commission and our internal<br/>LAIM database for assessing the<br/>ecotoxicity footprint.</b> |
| Water Quality - Freshwater<br>Eutrophication              | EUTREND model                                                                                                                                          | kg P - eq                      | Yes                                                                                                                                                                                                                                                                                                                                                                                       |
| Water Quality - Marine<br>Eutrophication                  | EUTREND model                                                                                                                                          | kg N - eq                      | Yes                                                                                                                                                                                                                                                                                                                                                                                       |
| Acidification<br>Water Acidification                      | Accumulated Exceedance model                                                                                                                           | mol H <sup>+</sup> - eq        | Yes                                                                                                                                                                                                                                                                                                                                                                                       |
| Land Resources<br>Fossil & Mineral Resources<br>Depletion | CML2002 (ADP, reserve base)                                                                                                                            | kg Sb - eq <sup>(12)</sup>     | <b>No, due to the major and<br/>unexplained impact of the<br/>distribution of fossil and mineral<br/>resources on the product's footprint<br/>and pending the European<br/>Commission's evolution.</b>                                                                                                                                                                                    |
| Biodiversity - Land<br>Transformation                     | <b>LANCA (Beck et al. 2010)</b>                                                                                                                        | kg C deficit                   | Yes                                                                                                                                                                                                                                                                                                                                                                                       |
| Biodiversity - Terrestrial<br>Eutrophication              | Accumulated Exceedance model                                                                                                                           | mol N - eq                     | Yes                                                                                                                                                                                                                                                                                                                                                                                       |
| Air Quality - Particulate Matter                          | RiskPoll                                                                                                                                               | kg PM 2.5 - eq <sup>(13)</sup> | Yes                                                                                                                                                                                                                                                                                                                                                                                       |
| Air Quality -<br>Toxicity via Environment                 | USEtox                                                                                                                                                 | CTUh <sup>(14)</sup>           | <b>No, because the consistency of the<br/>USEtox PEF database developed by<br/>the European Commission has not<br/>yet been evaluated internally.</b>                                                                                                                                                                                                                                     |
| Air Quality -<br>Ionising Radiation                       | Human Health effect model                                                                                                                              | kBq U235 - eq                  | Yes                                                                                                                                                                                                                                                                                                                                                                                       |
| Ozone<br>Ozone Depletion                                  | EDIP model based on the ODPs<br>of the World Meteorological<br>Organization (WMO) over<br>a time horizon of 100 years.                                 | kg CFC11 - eq                  | Yes                                                                                                                                                                                                                                                                                                                                                                                       |
| Ozone<br>Photochemical Formation                          | LOTOS-EUROS model (Van Zelm<br>et al., 2008 as applied in ReCiPe)                                                                                      | kg NMVOC - eq <sup>(15)</sup>  | Yes                                                                                                                                                                                                                                                                                                                                                                                       |

**In bold:** 2021 updates to the methodology developed between 2014 and 2016.

<sup>(11)</sup> CTUe: Comparative toxic unit for ecotoxicity

<sup>(12)</sup> Sb: Antimony

<sup>(13)</sup> PM2.5: Particulate matter with an average aerodynamic diameter of 2.5 µm

<sup>(14)</sup> CTUh: Comparative toxic unit for human toxicity

<sup>(15)</sup> NMVOC: Non-Methane Volatile Organic Compound



## AGGREGATION OF IMPACT FACTORS

Whether our impact measurement methodology is used to guide eco-design decisions or to enable consumers to compare products, it is necessary to **aggregate the 14 environmental impact factors into a single environmental footprint**. This is carried out in two stages.

### Step 1: Normalisation

The 14 impact factors with specific units are transformed into footprints (without unit) by normalisation to be able to aggregate the impacts of the formula including the use phase, packaging, impacts associated with manufacturing and the upstream/downstream supply chain, in order to calculate the overall environmental footprints of the finished product.

Normalisation is a methodology that allows comparison of each impact factor to a reference value in order to determine to what extent each individual factor is important compared to this reference (e.g. human activities, European production, European consumption, etc.). The baseline values we used to normalize the impact factors are based on per capita impact values at the global level, taken from data published by the European Commission<sup>(16)</sup>.

### Step 2: Weighing

These 14 environmental footprints (without unit) derived from normalisation are weighed, before aggregation, taking into account the relative criticality of each type of impact compared to the others. **They are weighed according to the Planetary Boundaries<sup>(17)</sup>** concept which is strongly supported by the scientific community. The idea is to assess environmental impacts in terms of the Earth's thresholds, the limits of the safe space in which the planet may remain a habitat suitable for human development.

The Planetary Boundary weighing values, based on previous work done by Bjørn et al. (Bjørn and Hauschild, 2015) and published also by the EC – JRC, were completed (3 reference values missed) and improved before implementation in our methodology<sup>(18)</sup>.

The 14 normalisation and weighing values are presented respectively in Tables 2 and 3.

<sup>(16)</sup> Benini L., Sala S., Pant R. (2014): Normalization and weighting factors for testing, EC-JRC, version 0.1.1 of 15 December 2015; as reported in JRC Technical Report EUR 26842 EN: Normalisation method and data for Environmental Footprints. <https://publications.jrc.ec.europa.eu/repository/bitstream/JRC91531/lb-na-26842-en-n.pdf>

<sup>(17)</sup> Rockstrom J., Steffen W., Noone K. et al. (2009) Planetary boundaries: exploring the safe operating space for humanity, Ecology and Society, Volume 14, Issue 32, Article 32. Steffen W., Richardson K., Rockström J. et al. (2015) Planetary boundaries: Guiding human development on a changing planet, Science, Volume 347, Issue 6223, Reference 1259855.

<sup>(18)</sup> Vargas-Gonzalez M., Witte F., Martz P., Gilbert L., Humbert S., Joliet O., van Zelm R., L'Haridon J. (2019) Operational Life Cycle Impact Assessment weighting factors based on Planetary Boundaries: Applied to cosmetic products, Ecological Indicators, Volume 107, Reference 105498.

**TABLE 2: NORMALISATION VALUES OF ENVIRONMENTAL  
IMPACT FACTORS USED IN SPOT**

| IMPACT                               | NORMALISATION VALUE | UNIT                               |
|--------------------------------------|---------------------|------------------------------------|
| Climate Change                       | 8096                | kg CO <sub>2</sub> -eq per person  |
| Water Scarcity                       | 11468709            | L of water - eq per person         |
| Freshwater Ecotoxicity               | 9005                | CTUe per person                    |
| Freshwater Eutrophication            | 1.6068521           | kg P-eq per person                 |
| Marine Eutrophication                | 19.545              | kg N-eq per person                 |
| Water Acidification                  | 55.5695412          | mol H <sup>+</sup> eq per person   |
| Fossil & Mineral Resources Depletion | 0.193               | kg Sb-eq per person                |
| Land Transformation                  | 819498.183          | kg C deficit per person            |
| Terrestrial Eutrophication           | 176.75499980        | mol N-eq per person                |
| Particulate Matter                   | 2.4963813           | kg PM <sub>2.5</sub> eq per person |
| Toxicity via Environment             | 0.0005872           | CTUe per person                    |
| Ionising Radiation                   | 4220.160            | kg U235 eq (to air) per person     |
| Ozone Depletion                      | 0.0536              | kg CFC-11 eq per person            |
| Photochemical Ozone Formation        | 40.6013975          | kg NMVOC-eq per person             |

**TABLE 3:** WEIGHING VALUES OF ENVIRONMENTAL (NORMALISED)  
FOOTPRINTS USED IN SPOT

| IMPACT                               | WEIGHING VALUE | UNIT              |
|--------------------------------------|----------------|-------------------|
| Climate Change                       | 25.497%        | dimensionless (%) |
| Water Scarcity                       | 1.397%         | dimensionless (%) |
| Freshwater Ecotoxicity               | 2.314%         | dimensionless (%) |
| Freshwater Eutrophication            | 8.778%         | dimensionless (%) |
| Marine Eutrophication                | 1.500%         | dimensionless (%) |
| Water Acidification                  | 1.449%         | dimensionless (%) |
| Fossil & Mineral Resources Depletion | 11.125%        | dimensionless (%) |
| Land Transformation                  | 25.427%        | dimensionless (%) |
| Terrestrial Eutrophication           | 0.829%         | dimensionless (%) |
| Particulate Matter                   | 16.250%        | dimensionless (%) |
| Toxicity via Environment             | 3.167%         | dimensionless (%) |
| Ionising Radiation                   | 0.040%         | dimensionless (%) |
| Ozone Depletion                      | 0.755%         | dimensionless (%) |
| Photochemical Ozone Formation        | 1.471%         | dimensionless (%) |

The 14 impact factors are therefore converted into footprints (without unit) by normalisation, then weighed using the concept of Planetary Boundaries and finally all aggregated together to determine the **overall environmental footprint**.

# Indicators for Product environmental Impact Labelling

## OVERALL ENVIRONMENTAL IMPACT

This indicator corresponds to the sum of the weighted environmental footprints (without unit) of the finished product stemming from 14 impact factors measured all along the life cycle of the product, per user dose.

## CARBON FOOTPRINT

This indicator corresponds to the carbon footprint of the finished product (in g of CO<sub>2</sub> equivalent) all along its life cycle, per user dose of the product and per representative volume (ml) of product in order to be able to compare products with a different user dose within the same PIL product category (cf. § 3).

## WATER FOOTPRINT

This indicator corresponds to the sum of the weighted environmental footprints (without unit) of the finished product stemming from 5 impact factors measured using our environmental footprint methodology with the aim of preserving the quantity and the quality of water resources. It is expressed by user dose of the product and per representative volume (ml) of product in order to be able to compare products with a different user dose within the same product category (cf. §3):

## Water quantity

- Water Scarcity

## Water quality

- Freshwater Ecotoxicity
- Freshwater Eutrophication
- Marine Eutrophication

## Water Acidification

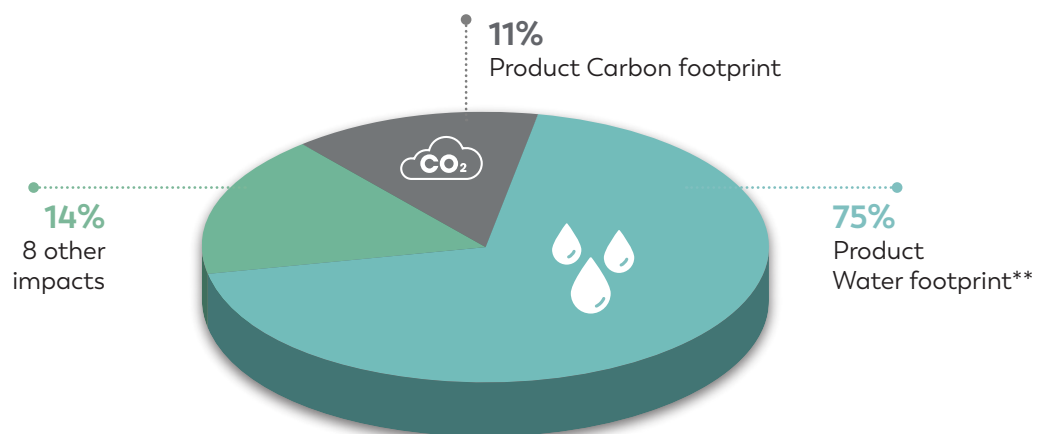
Water Acidification corresponds to an increase in the concentration of H<sup>+</sup> ions in atmospheric water, leading to a drop in pH. Acidic gases such as sulphur dioxide (SO<sub>2</sub>) react with water in the atmosphere to form 'acid rain', a process known as acid deposition. When this rain falls, often a considerable distance from the original source of the gas, it causes ecosystem impairment of varying degree, depending upon the nature of the landscape ecosystems. Gases causing acid deposition include ammonia, nitrogen oxides and sulphur oxides. So, this impact factor concerns both water quality (contribution to acid rain) and air quality. In this methodology, this factor (expressed as mol of H<sup>+</sup> eq) was considered as an impact linked to the quality of water resources and was therefore considered when calculating the water footprint indicator.

## — Main impact factors

The calculation applied to our product portfolio shows that the Carbon Footprint and the Water Footprint as determined for the labelling represent the two major contributors to the Overall Environmental Impact of our products.

**FIGURE 3:** CARBON AND WATER ARE THE MAIN IMPACT FACTORS

ENVIRONMENTAL IMPACT BY IMPACT FACTOR - ALL CATEGORIES COMBINED\* (L'ORÉAL)



\* Based on more than 4800 L'Oréal references: 2023 data

\*\* Water Scarcity & Water Quality (water eutrophication, marine eutrophication, water ecotoxicity) + Water Acidification

In addition, by providing information related to climate change and water resources, we are addressing two major environmental issues which are priorities for consumers today.

This is the reason why we have decided to communicate three indicators:

- Overall Environmental Impact (14 impact factors)
- Carbon footprint
- Water footprint

While biodiversity is not reported as a footprint category, 6 out of the 14 impact factors used are closely related to effects on biodiversity. What's more, biodiversity impact is included in the Planetary Boundaries methodology.

# 03.

## ENVIRONMENTAL INDICATORS LABELLING

### Product category definition

Our ambition is to inform consumers about the environmental and social impact of L'Oréal products to enable them to compare products offering the same services, and thereby to make conscious consumption choices. This involves both defining product categories and ensuring that consumers are in a position to compare and switch from one product to another with the same “beauty function” (e.g. shampoo, conditioner) taking into account, if they wish, their environmental impact. In line

with this consumer-centric objective, we pre-defined product categories based on the largest possible aggregate of products without leading to irrelevant comparisons. We drew on our Consumer & Market expertise to guarantee consumer relevance for the grouping process. Several usage and attitude studies converged with decades of product evaluation tests which were instrumental in identifying which products could be considered as offering distinct options for a common beauty function or benefit.

In line with these principles, our beauty product portfolio has been divided into 36 product categories, in order for our consumers to compare products and consider sustainability when making their decision.

These 36 product categories are presented in Table 4. To date, we have only precisely defined three categories in the area of hair care, five categories in the area of skin care, and three categories in the area of skin cleansing. The display will gradually be extended to the other categories.

Regarding hair care products, we decided to put all shampoos into a single category, since they all offer the same core benefit: cleansing the hair, even if some may deliver cleansing and treatment, or cleansing, treatment and antidandruff functions. In addition, the different product functions are clearly defined. We grouped rinse-off conditioners and masks together because they are both mainly used for detangling and conditioning, whereas leave-in treatments and oils mainly provide care and styling benefits. What's more, a large majority of women and men use leave-in treatments or oils after using a conditioner. This is why they are both in a distinct category. We decided to isolate dry shampoos as they address a different core benefit compared to rinse-off shampoos; only one part of the dirt (sebum) is absorbed, allowing the user to postpone using a rinse-off shampoo, rather than replace it. Lastly, the "scalp treatment" category groups together all scalp care products.

We follow the same principles for skin care products, with a "daily facecare" category that includes UV protection products and tinted products but does not include spot treatments (blisters, masks...), an "eye care" category, and a "water and toner" category. Body cleansers, shower gels and solid body soaps are joined in a unique category, whereas liquid and solid hand soaps will be joined in another category. The other categories will be defined according to similar principles.

### EXAMPLE OF OVER-SEGMENTATION (REJECTED)



### EXAMPLE OF SEGMENTATION (APPROVED)



We intend to group all deodorant and antiperspirant products together for all formats from roll-on to aerosols. Associated with the selected scoring methodology (cf. § 3), this provides a good distribution of products across the various level of impact and is a key element in helping consumers make more sustainable choices.

**TABLE 4: SEGMENTATION OF PRODUCT CATEGORIES**

|  |  |  |  |  |  |  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| HAIR COLOR                                                                        | STYLING & FORM                                                                    | HAIR CARE                                                                         | SKIN CARE                                                                         | SKIN CLEANSER                                                                      | MAKE UP                                                                             | HYGIENE & FRAGRANCE                                                                 |
| Coloring                                                                          | Styling                                                                           | <b>SHAMPOO</b>                                                                    | <b>DAILY FACECARE</b>                                                             | <b>DAILY FACE CLEANSER</b>                                                         | Eye mascara                                                                         | Antiperspirant & deodorant                                                          |
| Bleach                                                                            | Longlasting styling                                                               | Dry shampoo                                                                       | <b>FACE SHOCK TREATMENT</b>                                                       | <b>FACE DEEP CLEANSER &amp; MASK</b>                                               | Lip                                                                                 | Perfume                                                                             |
|                                                                                   |                                                                                   | <b>CONDITIONER &amp; MASK</b>                                                     | Face targeted zone shock treatment                                                | <b>FACE MAKE-UP REMOVER</b>                                                        | Eyeliner & brows                                                                    | Rinse-off shaving                                                                   |
|                                                                                   |                                                                                   | <b>LEAVE-IN &amp; OIL</b>                                                         | <b>WATER &amp; TONER</b>                                                          | Eye makeup remover                                                                 | Eyelids                                                                             |                                                                                     |
|                                                                                   |                                                                                   | Scalp treatment                                                                   | <b>EYE CARE</b>                                                                   | <b>BODY CLEANSER</b>                                                               | Nail polish                                                                         |                                                                                     |
|                                                                                   |                                                                                   |                                                                                   | <b>BODY SUN CARE</b>                                                              | Hand cleanser                                                                      | Foundation                                                                          |                                                                                     |
|                                                                                   |                                                                                   |                                                                                   | <b>BODY MOISTURIZER</b>                                                           |                                                                                    | Tint blush                                                                          |                                                                                     |
|                                                                                   |                                                                                   |                                                                                   | Body targeted zone treatment                                                      |                                                                                    | Tint concealer                                                                      |                                                                                     |
|                                                                                   |                                                                                   |                                                                                   | Hand & nail care                                                                  |                                                                                    | Powders                                                                             |                                                                                     |

**DEFINED CATEGORY SEGMENTATION**

Forecast category segmentation

Category not opened

In addition to the evaluated impact reported under a metric score, educational content has been developed to highlight qualitative information regarding the impact of beauty products. For example, consumers will be informed about the carbon emissions and water impact associated with the use of a rinse-off conditioner. Providing this information to consumers will enable them to take action to reduce their environmental footprint. For example, in the case of a rinse-off product, consumers will be told about the CO<sub>2</sub> and water footprint associated with heating and using water and provided with the option to use a leave-in product.

In most of the product categories, there are enough L'Oréal product references to make the comparison relevant. For the few categories where this is not the case, we will not be communicating the product's environmental footprint. In addition, preliminary studies conducted in France, the United States, India and China have proved the relevance of this approach for consumers.



# — User dose definition

To compare the different products, we have decided to measure and communicate the footprint per user dose which is the most relevant way to compare the impact of two products in a given category, whereas products offering the same beauty function may have different user doses. We also provide information on the impact per volume of formula (per 10ml or per 1ml) to offer a measurement method consumers are familiar with, like the “Nutritional Information” found on foodstuff packaging. This paragraph explains the methodology and references used to define the user dose per type of product depending on available data (external and internal) and consumer tests (external and internal). These values represent the maximum user dose.

The main reference document we have used to establish user doses is the publication by the Scientific Committee for Cosmetic Safety evaluation (SCCS)<sup>(19)</sup>.

Various European databases were assessed by researchers to better understand consumer usage habits of cosmetic products (Hall et al.<sup>(20)(21)</sup>). This data was used to determine user doses for most cosmetics products.

For example, in the case of shampoos, the user dose was defined as 10.46g of shampoo per use.

## Product categories not covered by the SCCS referent document

For the SPOT categories where there is no specific user dose in the SCCS document, we decided to use the L'Oréal internal evaluation data and transform the data into a user dose.

When a median value is not available, but just an interval, the maximum value will be taken into consideration to ensure the most conservative estimate in coherence with the SCCS methodology.

The user doses for product categories already defined are presented in Table 5.

Nevertheless, some products have their own application doses due to a very directive application system (applicator and application instructions) such as a doser in the case of a face care oil.

<sup>(19)</sup> Scientific Committee on Consumer Safety (2018): The SCCS notes of guidance for the testing of cosmetic ingredients and their safety evaluation, 10<sup>th</sup> revision.

<sup>(20)</sup> Hall B., Tozer S., Safford B., Coroama M., Steiling W., Leneveu-Duchemin M.C., McNamara C., Gibney M. (2007): European consumer exposure to cosmetic products, a framework for conducting population exposure assessments: Food and Chemical Toxicology, Volume 45, Issue 11, pp. 2097-2108.

<sup>(21)</sup> Hall B., Steiling W., Safford B., Coroama M., Tozer S., Firmani C., McNamara C., Gibney M. (2011): European consumer exposure to cosmetic products, a framework for conducting population exposure assessments Part 2: Food and Chemical Toxicology, Volume 49, Issue 2, pp. 408-422.

**TABLE 5: SINGLE DOSE WEIGHT FOR THE FIRST CATEGORIES TO BE COMMUNICATED**

| PRODUCT CATEGORY     | PRODUCT               | SINGLE DOSE (G) | DATA REFERENCE       | RINSE DOSE (L) | DATA REFERENCE                      |
|----------------------|-----------------------|-----------------|----------------------|----------------|-------------------------------------|
| Shampoo              | Solid                 | 2,59            | Internal evaluation  | 5,6            | Internal evaluation                 |
|                      | Liquid                | 10,46           | SCCS <sup>(22)</sup> | 7              | Norme Afnor BPX30-323-5             |
| Conditioner and mask |                       | 14              | SCCS <sup>(22)</sup> | 7              | Internal evaluation                 |
| Leave-in and oil     | Leave-in              | 8               | Internal evaluation  | N/A            | N/A                                 |
|                      | Huile                 | 4               | Internal evaluation  | N/A            | N/A                                 |
| Make up remover      |                       | 5               | SCCS <sup>(22)</sup> | 3 (if rinsed)  | Internal evaluation                 |
| Daily face wash      | Cream and gel formula | 1,54            | SCCS <sup>(22)</sup> | 3              | Internal evaluation                 |
|                      | Solid formula         | 2               | SCCS <sup>(22)</sup> | 2              | Internal evaluation                 |
| Daily face care      |                       | 0,72            | SCCS <sup>(22)</sup> | N/A            | N/A                                 |
| Waters & toner       |                       | 0,72            | SCCS <sup>(22)</sup> | N/A            | N/A                                 |
| Eye care             |                       | 0,4             | Internal evaluation  | N/A            | N/A                                 |
| Body sun care        |                       | 9               | SCCS <sup>(22)</sup> | N/A            | N/A                                 |
| Body moisturizer     |                       | 3,42            | SCCS <sup>(22)</sup> | N/A            | N/A                                 |
| Body cleansing       | Solid soap            | 4,72            | Internal evaluation  | 7,5            | Internal evaluation <sup>(23)</sup> |
|                      | Shower gel            | 13,06           | SCCS <sup>(22)</sup> | 10             | Internal evaluation <sup>(23)</sup> |

<sup>(22)</sup> Scientific Committee on Consumer Safety (2018): The SCCS notes of guidance for the testing of cosmetic ingredients and their safety evaluation, 10<sup>th</sup> revision.

<sup>(23)</sup> When analysing the different contexts in which a shower may be taken, a sequence of steps is usually observed, and the water consumed at each step can be defined. These steps are listed below:

- Water heating: the amount used when the tap is turned on and the water temperature is adjusted to the user's preference. People usually do not pay attention to this waste.
- Wetting water: the amount used to wet the body.
- Rinse water: after the application of hygiene products such as shower gel or solid soap, it is the amount of water used to remove the product. It is mainly influenced by the physico-chemical properties of the water and the product formulation.
- Pleasure water: after all the hygiene product has been removed, this is the amount of water that continues to be used until the end of the shower.

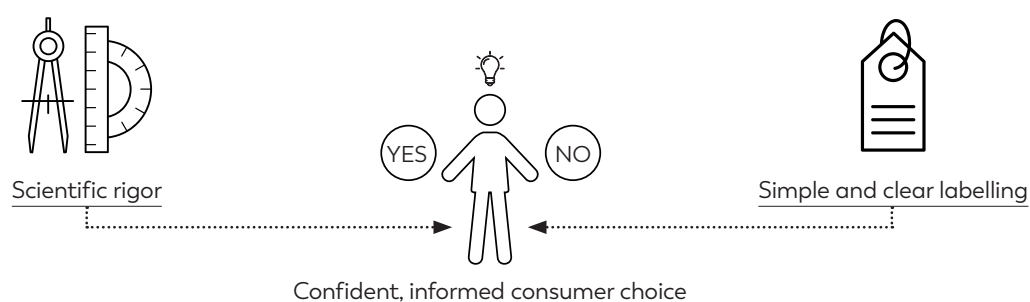
Useful water is defined as the sum of: water heating + wetting water + rinsing water, excluding all external factors that influence the consumption of pleasure water associated with the shower.

It is this useful water that is considered in the evaluation of the footprint.

# Scoring methodology

In addition to being scientifically robust (cf. §2), the scoring of products should be understandable for consumers and perceived as credible to empower them to make more sustainable consumption choices.

**FIGURE 4: SCORING OBJECTIVES**



The goal was to attribute a score using a five-letter classification system (from A to E) for each indicator (overall impact, carbon and water footprints).

To classify the various products according to their impact, a linear bounded scale method was selected. Under this approach, the 10% of products with the lowest footprint per user dose are categorised as Class A and the 10% with the highest footprint are categorised as Class E. The remaining products are assigned to either category B, C or D. These threshold were defined using fixed footprint intervals between the bottom 10% and the top 10% scores. Because the intervals for B, C and D are fixed in terms of product scores, the number of products in each interval will vary from one category to another.

These classes are in line with the recommendation of the French labelling recommendations and compliant with the Ecolabel methodology which ensures that the most environmentally friendly products represent 10% to 20% of the products available on the market.

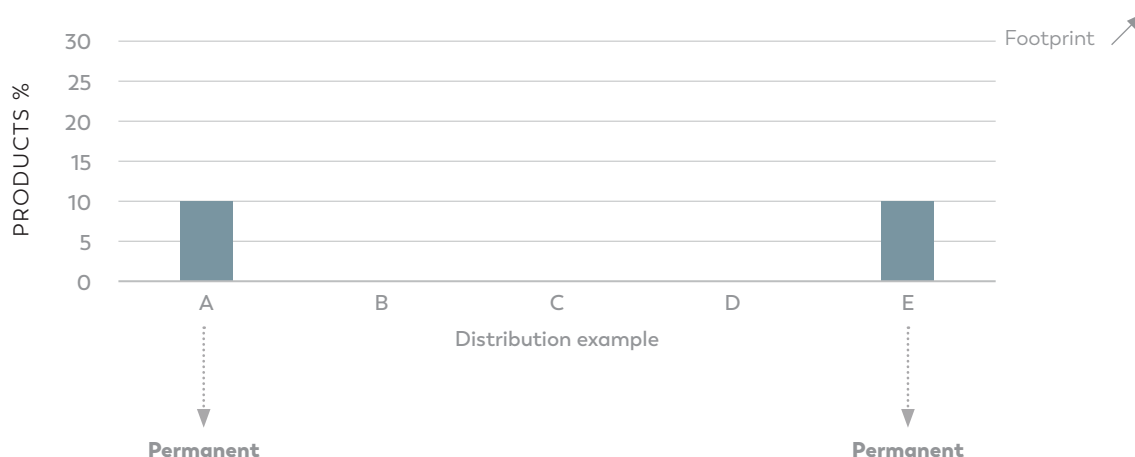


<https://www.ecologique-solaire.gouv.fr/laffichage-environnemental-des-produits-et-des-services#e3>

## SCORING CLASSES DETERMINATION FOR EACH INDICATOR

### DETERMINATION OF A & E INTERVALS

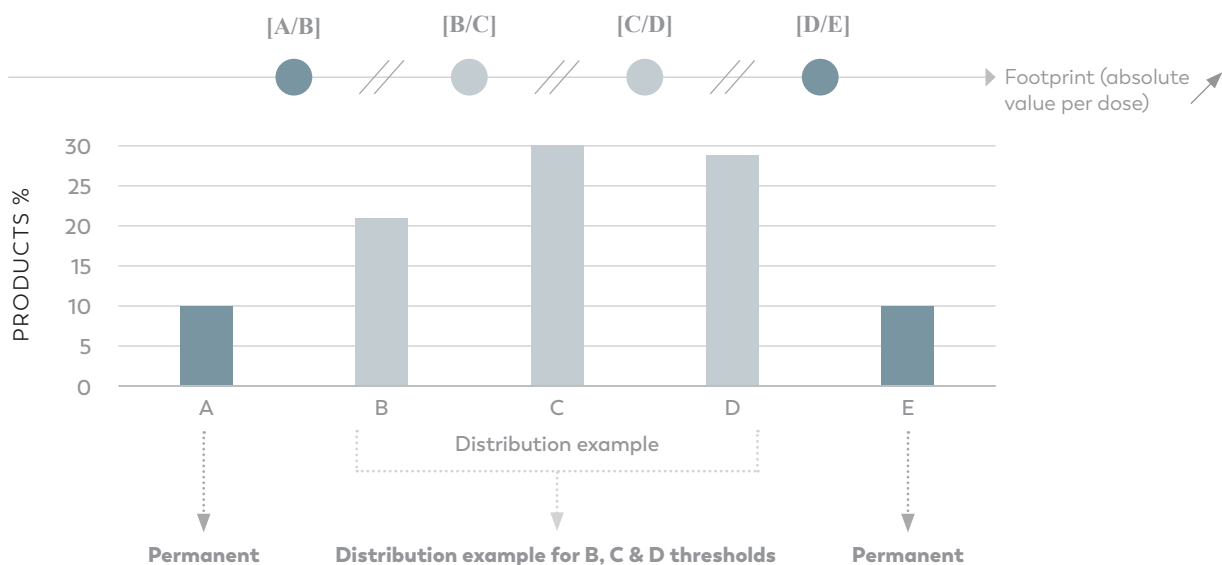
Class A contains the 10% of products with the lowest footprint  
Class E contains the 10% of products with the highest footprint



The three other classes, (B, C & D) are at equal footprint intervals of classes A & E.

### DETERMINATION OF CATEGORIES B, C & D INTERVALS

Determination of thresholds B, C & D by calculating equal value intervals between classes A & E



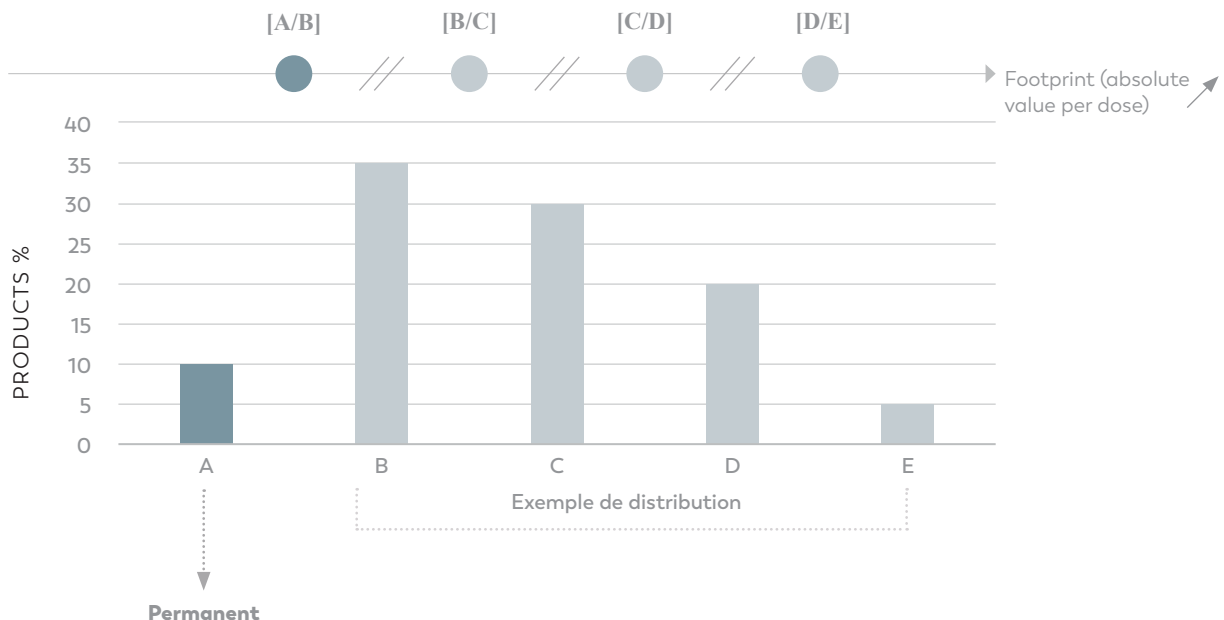
### SPECIFIC CASE - NON-SIGNIFICANT DIFFERENCE BETWEEN BOUNDS

For our scores to be meaningful, products A must be significantly better than products B, which must themselves be significantly better than products C. We believe that below 15%, the average footprint difference between products is insufficient to justify a different score. For some product categories, if we adopt the 10% A and 10% E method described above, the difference between the boundaries of each class may not be sufficiently pronounced. In this particular case, the method used to calculate the B/C, C/D and D/E thresholds will be as follows:

- We continue to give an A score to the 10% of products with the lowest environmental footprint
- To obtain the value of the B/C boundary, we increase the value (absolute value) of the footprint marking the threshold between A and B by 15%:

$$\text{Value of B/C} = \text{value A/B} + \text{value of A/B} * 0.15$$

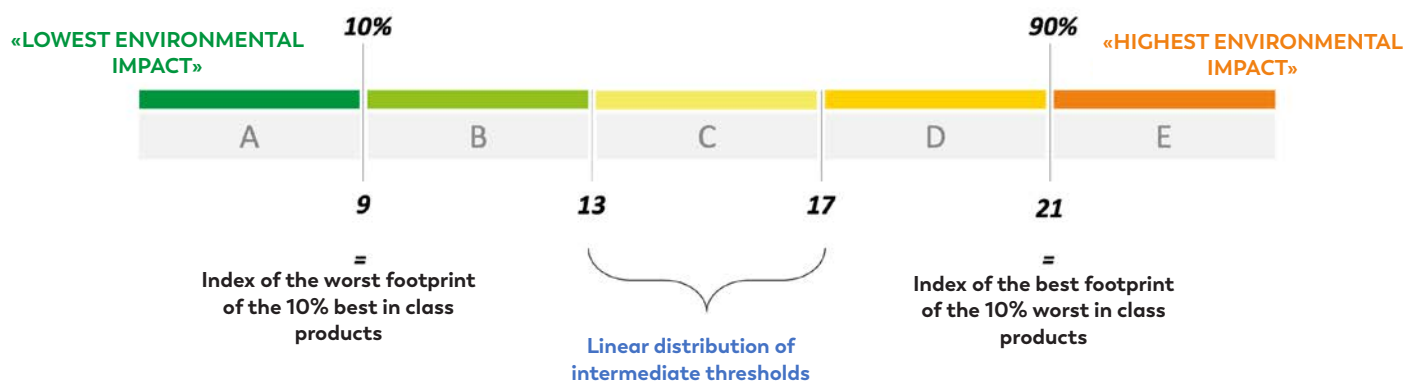
- The distance thus obtained between the A/B threshold and the B/C threshold is then transferred to define the thresholds between C and D, and between D and E.



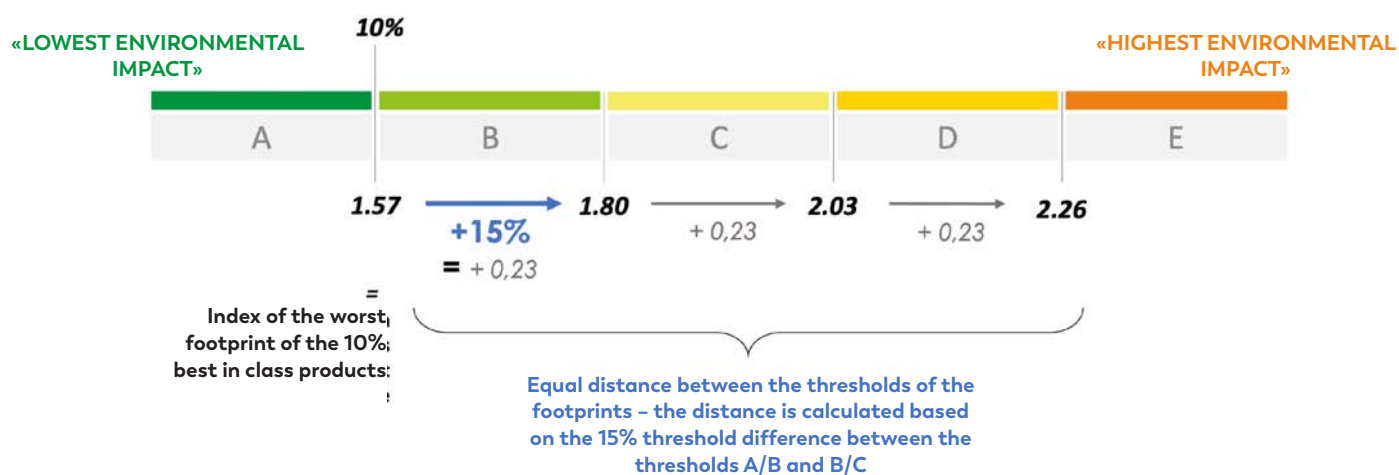
Therefore, for the thresholds affected by this adjustment, it may happen that the number of “E” products represents less than 10% of all the products in the category.

### SCORING PRINCIPLES - LINEAR SCALE

IF THE SCALE OF THE THRESHOLDS BETWEEN A/B AND B/C > 15%



IF THE SCALE OF THE THRESHOLDS BETWEEN A/B AND B/C < 15%

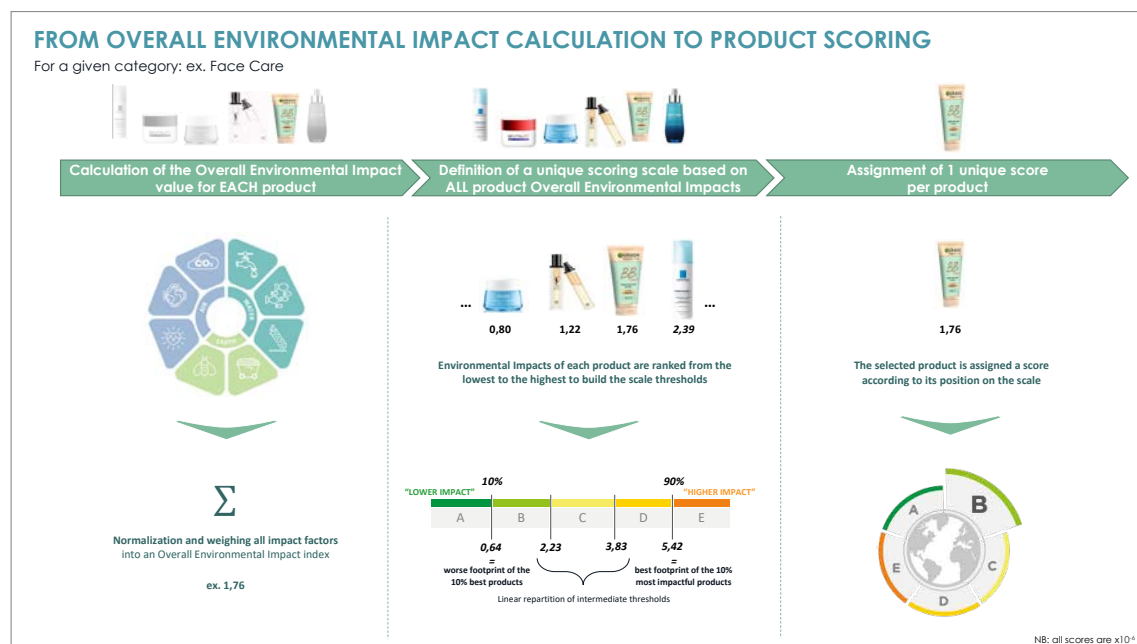


### FROM OVERALL ENVIRONMENTAL IMPACT CALCULATION TO PRODUCT SCORING

This method presents several key advantages compared to other methods which have been tested:

- Simple to understand for consumers
- Enables the comparison between different types of format having a common core benefit (ex: roll-on vs aerosol).
- Provides satisfactory discrimination in categories where products are very similar (ex: shampoos).

The choice of the linear bounded scale methodology for scoring classes is therefore closely related to the definition of product categories for cosmetic products.



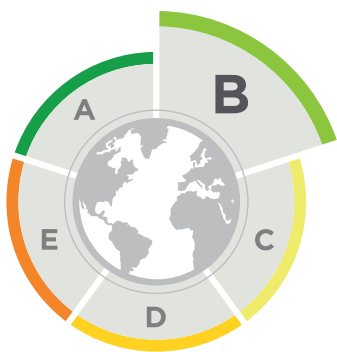
The bounds' values for each category are based on a product catalog available on the market in 2020, when our display was first published. This baseline date is maintained for a minimum of five years to allow consumers to see how our products' environmental scores improve over time, as announced in the context of our L'Oréal for the Future commitments.

# Product Labelling

The three environmental indicators will be displayed as follows:

FIGURE 5: EXAMPLE OF PRODUCT LABELLING

Overall environmental impact



Carbon footprint



84g<sup>(1)</sup> per usage dose  
60,3g per 10ml

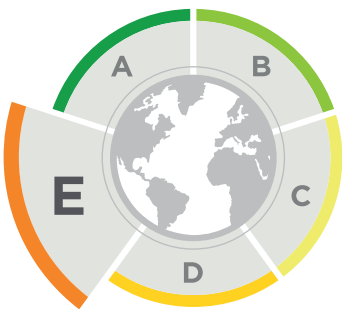
Water footprint



6,1<sup>(2)</sup> per usage dose  
12,7 per 10ml

<sup>(1)</sup>Grams of CO<sub>2</sub> equivalent ("shampoo" category average = 100g)  
<sup>(2)</sup>Water index including water quality + water scarcity (m<sup>3</sup>) ("shampoo" category average = 7,7)

Overall environmental impact



Carbon footprint



84g<sup>(1)</sup> per usage dose  
60,3g per 10ml

Water footprint



17,8<sup>(2)</sup> per usage dose  
12,7 per 10ml

<sup>(1)</sup>Grams of CO<sub>2</sub> equivalent ("shampoo" category average = 100g)  
<sup>(2)</sup>Water index including water quality + water scarcity (m<sup>3</sup>) ("shampoo" category average = 7,7)



04.

ADDITIONAL  
INFORMATION

FIGURE 6: PRODUCT ENVIRONMENTAL AND SOCIAL IMPACT LABELLING



# Manufacturing conditions

We consider a manufacturing site to be “responsible” when it continuously reduces its CO<sub>2</sub> emissions, water consumption and waste production, contributes to the development of local employment (especially for people with disabilities) and gives access to training, irrespective of whether the site belongs to L’Oréal or a subcontractor.

Since 2005, we have reduced the water withdrawal of our industrial sites by 54% (in liters per finished product), their CO<sub>2</sub> emissions by 91% (tons of CO<sub>2</sub> equivalent), and their waste generation by 40% (in grams per finished product\*).

## CASE OF A PRODUCT MANUFACTURED IN OUR FACTORIES

The labelling provides two key indicators for the site that manufactured a given product.

| Manufacturing conditions     |      |
|------------------------------|------|
| Made in a responsible plant. |      |
| Waste recovery:              | 100% |
| Renewable energy:            | 92%  |

**Part of waste recovery (%):**  
*Definition: Waste that is either reused, recycled, or recovered with energy generation (such as energy used for urban heating).*

**Part of renewable energy (%):**  
*Definition: Renewable energy is energy that is collected from renewable resources, which are naturally replenished on a human timescale, such as sunlight, wind, rain, tides, waves, and geothermal heat.*

## CASE OF A PRODUCT MANUFACTURED BY A SUB-CONTRACTOR

| Manufacturing conditions                               |  |
|--------------------------------------------------------|--|
| Made in a factory committed to responsible production. |  |

*Social and environmental performance evaluated by Ecovadis.*

# — Packaging profile

As part of a long-term sustainable packaging strategy (the 3RS: Reduce, Replace, Recycle) and in line with our 2030 commitments, L'Oréal's product packaging is optimised in terms of weight and size, and we are using an ever-increasing proportion of PCR (post-consumer recycled) materials, particularly to move away from virgin plastic. L'Oréal is also promoting new consumer practices by developing reusable and refillable packaging and providing consumers with sorting tips.

In addition to indicating the impact of packaging as part of the Product Overall Environmental Assessment, we provide information about four features of packaging design, which are considered important by consumers:

|                                                        |  |                                                                                                                                                                                                                                                                                                                       |  |
|--------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Environmental impact of the packaging</b>           |  | <b>Part of FSC/PEFC certified paper or cardboard (%):</b>                                                                                                                                                                                                                                                             |  |
| % of cardboard/paper certified FSC or PEFC:            |  | <i>Definition:</i> The paper or cardboard used in the product packaging comes exclusively from forests that are managed responsibly, in a way that protects biodiversity, and are independently certified by the Forest Stewardship Council (FSC®) or the Program for the Endorsement of Forest Certification (PEFC). |  |
| % of bottle made of recycled material <sup>(3)</sup> : |  | <b>Part of recycled material in primary packaging (%):</b>                                                                                                                                                                                                                                                            |  |
| Recyclable <sup>(4)</sup> :                            |  | <i>Definition:</i> Portion of the product's material (primary container) that is recycled from waste, at the same quality as virgin material (petrol-based or non-petrol based raw materials).                                                                                                                        |  |
| Refillable or reusable:                                |  | <b>Packaging item recyclability: yes/no</b>                                                                                                                                                                                                                                                                           |  |
|                                                        |  | <i>Definition:</i> By default we base the assessment on the Ellen MacArthur Foundation's definition: "A packaging or packaging component is recyclable if its successful post-consumer collection, sorting, and recycling is proven to work in practice and at scale."                                                |  |
|                                                        |  | As recycling instructions may vary locally, our labelling may be adapted to local market specificities.                                                                                                                                                                                                               |  |
|                                                        |  | <b>Refillable or rechargeable: yes/no</b>                                                                                                                                                                                                                                                                             |  |

### CALCULATION OF THE ENVIRONMENTAL IMPACT OF A REFILLABLE OR REUSABLE PRODUCT

A growing number of products developed by L'Oréal are designed to be refillable or reusable.

#### Refillable products (case 1)

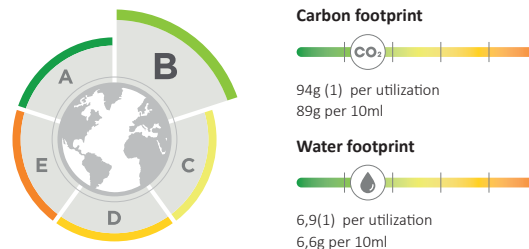
Because the packaging of a refillable product is intended to last longer, the container (initial packaging) may have a greater impact than a non-refillable product when compared. To determine the impact of a refillable product, it is necessary to consider the use of one product and several refills.

Our refillable products are designed to withstand at least six uses. Nevertheless, the environmental footprint of our refillable products is calculated by simulating the use of only four refills, i.e. the sum of the impact at the usage rate of a full product and four refills, divided by five.



This information will be transparent to the consumer to encourage them to refill their original container at least four times.

#### Global environmental impact



This score is calculated based on the usage of a product and 4 refills.

#### Reusable products (case 2)

In the case of products to be reused with a container that can also be used on its own (e.g., a flexible format), the container used to refill the initial product is subject to an environmental and social impact display of its own, and the initial product does not include this possibility of reuse in its impact calculation.



In the case of products to be refilled with a container not intended to be used alone (for example, a perfume refill such as "My Way" by Armani or a perfume fountain), the rule that applies is that of refillable products (see case 1 above).



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# Social impact

Social impact is not part of the environmental score, but product labelling will provide two key pieces of information that reflect the attention we pay to our suppliers.

- L'Oréal suppliers who have contributed to the development of the product have guaranteed decent working conditions.
- The number of suppliers committed to inclusive projects having contributed to the product, if any.

We select our suppliers according to strict social standards, which are verified by external auditors. We also encourage them to go further and to develop projects with a positive social impact: "Solidarity Sourcing" projects.

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## Social impact of the product

The ingredients and components of this product are sourced from suppliers committed to respect the fundamental principles of the UN on labor standards.

3 suppliers committed to the social inclusion of people from vulnerable communities contributed to making this product.

---

## The 4 principles of the UN global compact on labour rights:

- *The right of workers to associate freely and engage in collective bargaining*
- *No forced or compulsory labour*
- *No child labour*
- *No discrimination among workers*

*All direct suppliers who have contributed to the product have signed an ethical commitment<sup>(24)</sup> which includes respecting the UN Compact.*

## Suppliers committed to social inclusion

*Ingredient or packaging suppliers that provide access to work and a decent wage to people from socially and/or economically vulnerable communities. These suppliers support at least one Solidarity Sourcing project.*

---

## **IN 2022, 85,544 PEOPLE HAD ACCESS TO EMPLOYMENT THROUGH THE SOLIDARITY SOURCING PROGRAM, AN INCREASE OF 4,406 COMPARED TO 2020.**

L'Oréal's suppliers are working for local communities in their respective countries (which may not be precisely the one wherein the product is manufactured and sold). Working for local communities can address a wide range of issues such as:

- Fair sourcing
- Women's empowerment
- People with disabilities
- Senior workers
- Long-term unemployed
- Refugee & asylum seekers
- Minorities
- Veterans
- Other socially & economically vulnerable people
- Local employment in vulnerable zones
- Work integration social enterprise
- Small businesses
- Diverse\* suppliers "owned certified" business  
(\*women, minorities, LGBTQ+, veterans, disabled)
- Natural disasters
- Specific local know-how

### **How do we count suppliers "committed to social inclusion"?**

- A supplier is declared as a "committed supplier" as soon as they have implemented at least one Solidarity Sourcing project.
- 2 components or raw materials from the same supplier engaged in a Solidarity Sourcing project(s) is counted as a single engaged supplier.
- Specific for Raw Materials (RM):
  - For a given product, two different Raw Materials sourced from two suppliers belonging to the same company and benefiting from the same Solidarity Sourcing project(s) are valorized as 1 committed supplier.
  - For a RM that can be supplied by different suppliers:
    - . As soon as one of these suppliers no longer has any Solidarity Sourcing projects, we count 0 committed suppliers (even if other suppliers for this RM have projects, or if the supplier whose manufacturer is declared as a "representative" has a project)
    - . Only if all potential suppliers for this RM entering in a product's composition have Solidarity Sourcing project(s) do we valorize 1 committed supplier (as it is the same RM coming from one of the suppliers listed)

This indicates only direct suppliers, but the projects that are supported through "Solidarity Sourcing" may concern other suppliers in the product value chain.

If no supplier contributing to the product has initiated any "Solidarity Sourcing" project, the paragraph will not appear on the labelling.

### **To find out more about L'Oréal's social impact in the supply chain:**

The Group's subcontractors and its suppliers of raw materials, packaging, production equipment and POS (point of sale) advertising/promotional items and materials located in countries identified as being "at risk" according to Verisk Maplecroft are subject to a mandatory social audit (prior to inclusion on the supplier panel) aimed notably at ensuring compliance with the applicable laws, Human Rights and labour law. This audit also covers employee safety and working conditions, and the way in which the environmental impact of activities is taken into account.

Social audits are carried out on behalf of L'Oréal by independent external service providers.

The initial audits and triannual re-audits are financed by the Group. Follow-up audits that make it possible to verify the effectiveness of the action plans are paid for by the suppliers.

Ten areas are audited:

- Child labour
- Forced and compulsory labour
- The environment, health and safety
- Compliance with the laws relating to trade unions
- Non-discrimination
- Disciplinary practices
- Harassment or a hostile working environment
- Due payment of remuneration and benefits
- Working time
- Relations with subcontractors

L'Oréal's social audit is based to a great extent on the internationally recognised SA 8000 standard. The Group has also imposed more stringent criteria, particularly with regards to the minimum age for child labour. It is set at 16 years of age for all employees working for suppliers, a higher age limit than the minimum age required by the Fundamental Conventions of the International Labour Organization (ILO).

### **2022 KEY FIGURES:**

- 49% of direct and indirect strategic suppliers were assessed on the basis of their environmental and social performance;
- 859 suppliers had their social, environmental and ethical policies assessed by EcoVadis;
- 85,544 people have found employment through the Solidarity Sourcing program.

# 05.

## UPDATES

The impact calculations and associated bounds will be updated annually to take into account updates in source data, in accordance with the recommendations of all scientific organizations developing impact models, in particular the IPCC.

Nevertheless, our methodology does not foresee a recalculation of the bounds on the basis of an updated catalog before 2025.

We want to keep track of the improvement of the impact of our products thanks to our eco-design efforts; as our catalogs improve, we will be able to see the number of "E" ratings decrease, in favor of other rating classes.

In addition, we are committed to a process of co-construction of a common score for the entire cosmetics industry (worldwide), EcoBeautyScore, and we undertake, and we undertake to share the lessons learned from our first experience of environmental and social impact display with other players in the sector committed to this process.



L'ORÉAL