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**RETAIL SUPPLY CHAIN SUSTAINABILITY CONFERENCE 2025**

**Denby Royal**

**Peftrust®**

# Life cycle assessments & environmental footprints

**Partnering with Purpose: Driving Innovation, Collaboration, & Sustainability**

Peftrust®   GreenRetail.World   ual: fashion, textiles and technology institute   ANANAS ANAM   iinouiio   PROJECT PLAN B   CentricSoftware®

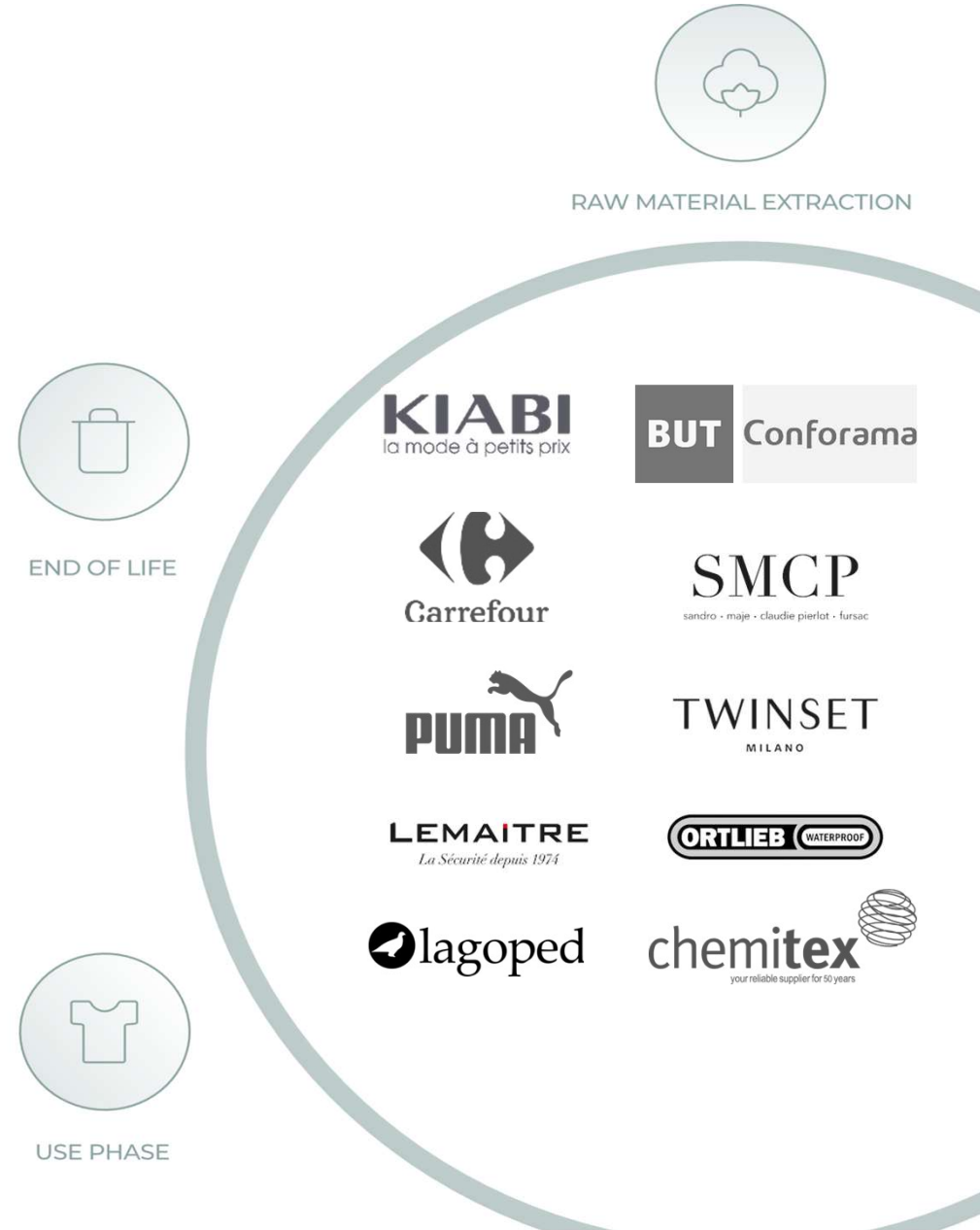**Peftrust**® helps fashion and lifestyle brands, retailers, and manufacturers with **automated, data-driven LCA insights**—integrating impact analysis into design and decision-making.

*Because better choices start with better data.*

RAW MATERIAL EXTRACTION

END OF LIFE

USE PHASE

KIABI
la mode à petits prix

BUT Conforama

Carrefour

SMCP
sandro · maje · claudie pierlot · fursac

PUMA

TWINSET
MILANO

LEMAITRE
La Sécurité depuis 1974

ORTLIEB WATERPROOF

lagoped

chemitex
your reliable supplier for 50 years

# Agenda

✓ Why LCAs matter for brands & retailers

✓ The challenges of data precision

✓ Unlock eco-design for compliance

✓ How Peftrust & Segura work together to streamline LCA integration

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# Why LCAs Matter for Brands & Retailers

## Regulatory Pressure is Rising

❌ Supply chain data is fragmented— brands struggle to get verified insights.

❌ Manual LCAs are slow & costly—they don't scale.

❌ Inconsistent vendor data—retailers lack standardization.

Cow hides, global average
24.41%

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# Solution: Automate LCAs with Peftrust + Segura.

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# Data Precision Quiz

## How Well Do You Know LCA Data?

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# PRODUCT WEIGHT

11% of your product's ENTIRE impact

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# Which has the lowest impact out of the three choices?

Thread count

Air transport

Packaging

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# What has the lowest impact out of the three choices?

Thread count 2.69%

**Air transport 0.5%**

Packaging 1.06%

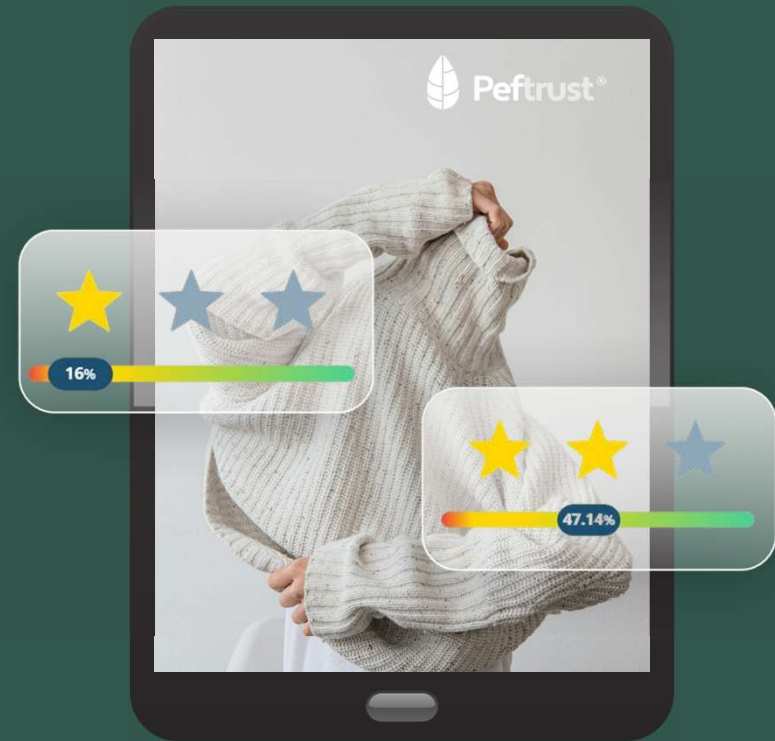Peftrust®

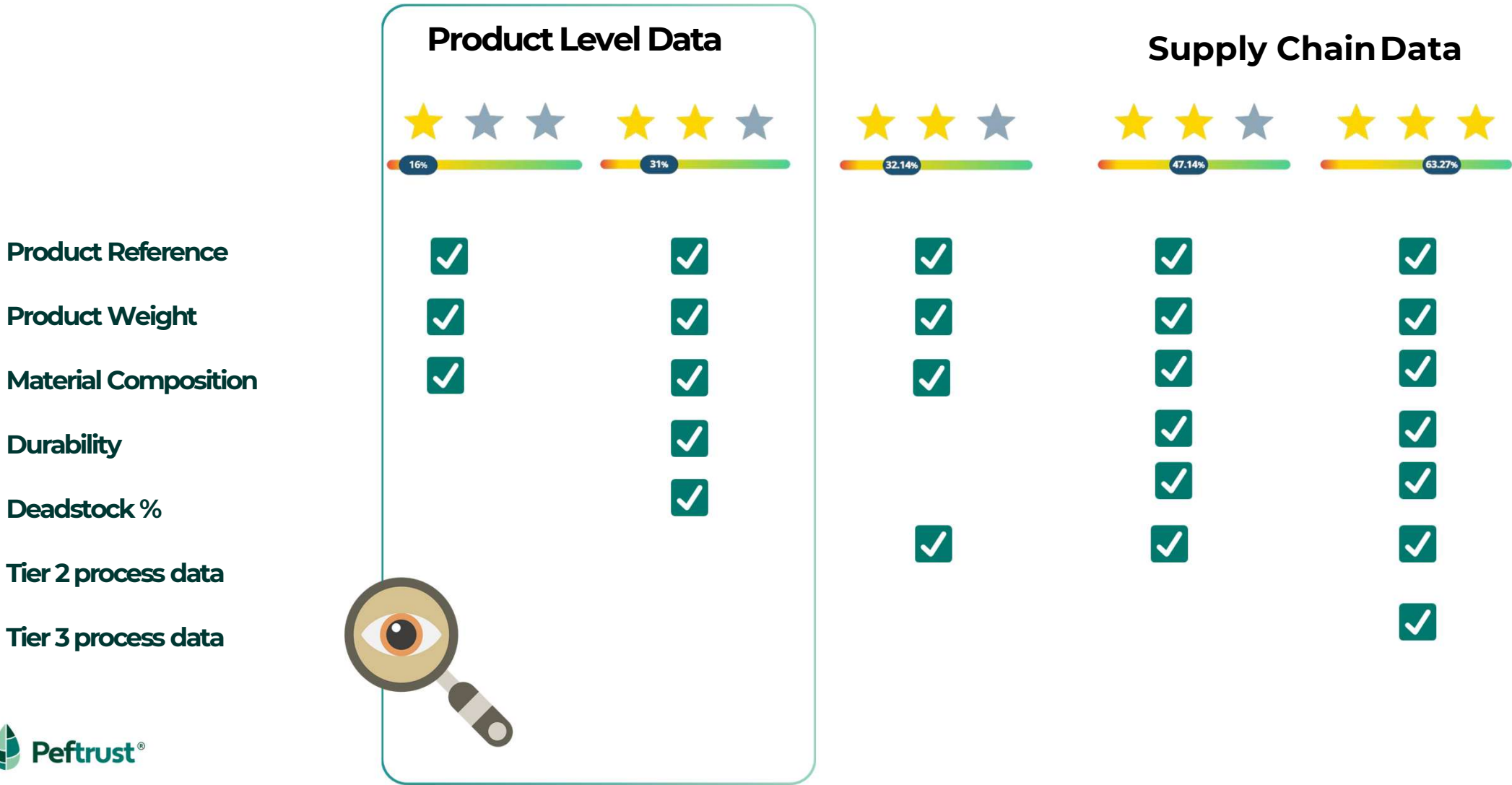**Why? It depends on the data.**

Without capturing precise information—like deadstock, durability, the energy mix used in production, or whether the material is recycled vs. virgin—**you can't accurately compare one material to another.**

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# Data Precision for Initial Assessments

## Product Level Data

## Supply Chain Data

|  | ⭐⭐⭐ 16% | ⭐⭐⭐ 31% | ⭐⭐⭐ 32.14% | ⭐⭐⭐ 47.14% | ⭐⭐⭐ 63.27% |
|---|---|---|---|---|---|
| Product Reference | ✅ | ✅ | ✅ | ✅ | ✅ |
| Product Weight | ✅ | ✅ | ✅ | ✅ | ✅ |
| Material Composition | ✅ | ✅ | ✅ | ✅ | ✅ |
| Durability |  | ✅ |  | ✅ | ✅ |
| Deadstock % |  | ✅ |  | ✅ | ✅ |
| Tier 2 process data |  |  | ✅ | ✅ | ✅ |
| Tier 3 process data |  |  |  |  | ✅ |

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# Data Precision for **Compliance**

|  | **Product Level Data** |  |  | **Supply Chain Data** |  |
|---|---|---|---|---|---|
| Star rating | ★☆☆ | ★★☆ | ★★☆ | ★★☆ | ★★★ |
| Percentage | 16% | 31% | 32.14% | 47.14% | 63.27% |
| Product Reference | ✅ | ✅ | ✅ | ✅ | ✅ |
| Product Weight | ✅ | ✅ | ✅ | ✅ | ✅ |
| Material Composition | ✅ | ✅ | ✅ | ✅ | ✅ |
| Durability | | ✅ | | ✅ | ✅ |
| Deadstock % | | ✅ | | ✅ | ✅ |
| Tier 2 process data | | | ✅ | ✅ | ✅ |
| Tier 3 process data | | | | | ✅ |

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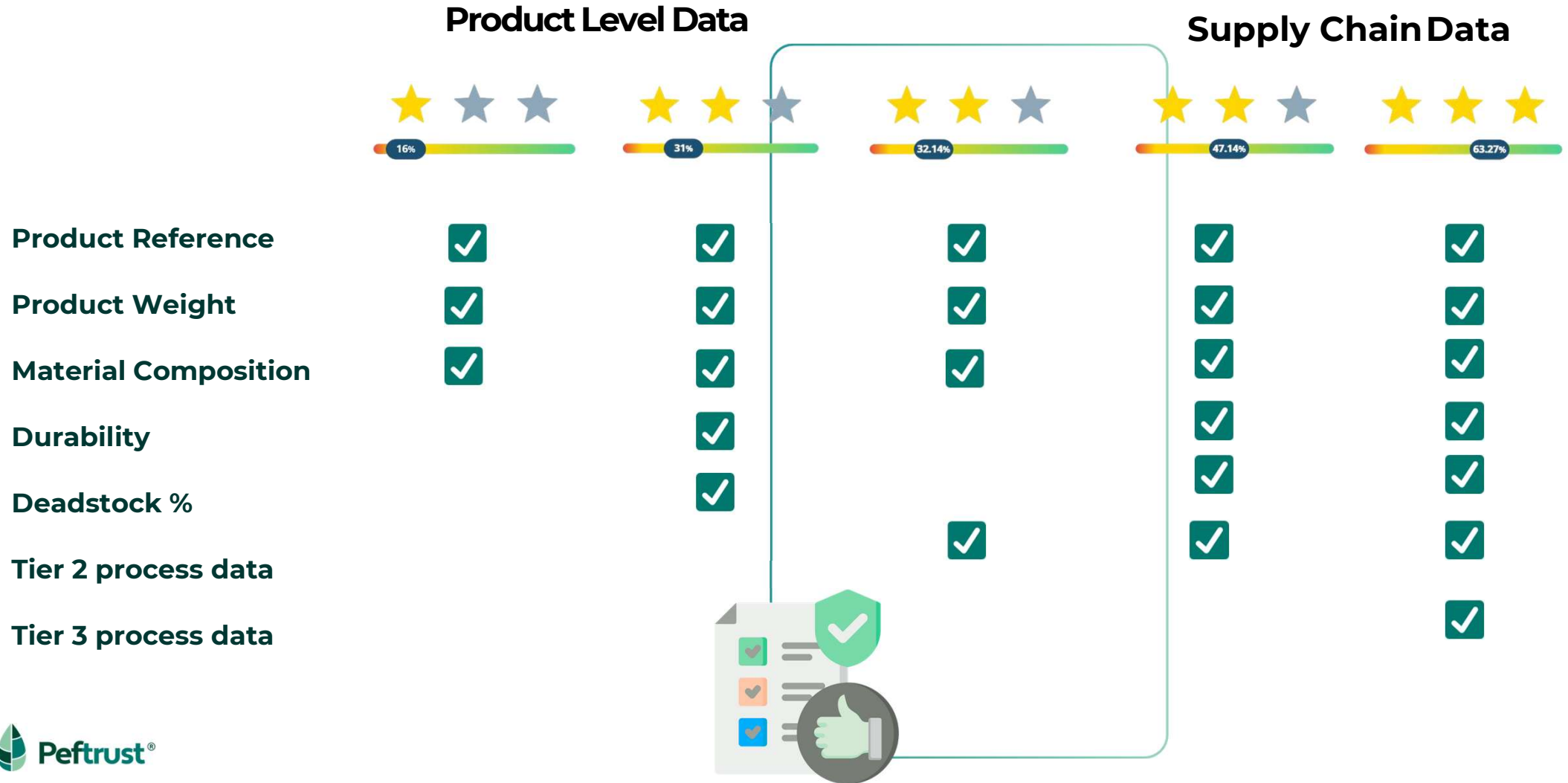
# Data Precision for **Eco-design**

| | **Product Level Data** | | | **Supply Chain Data** | |
|---|---|---|---|---|---|
| | ⭐⭐⭐ 16% | ⭐⭐⭐ 31% | ⭐⭐⭐ 32.14% | ⭐⭐⭐ 47.14% | ⭐⭐⭐ 63.27% |
| **Product Reference** | ✅ | ✅ | ✅ | ✅ | ✅ |
| **Product Weight** | ✅ | ✅ | ✅ | ✅ | ✅ |
| **Material Composition** | ✅ | ✅ | ✅ | ✅ | ✅ |
| **Durability** | | ✅ | | ✅ | ✅ |
| **Deadstock %** | | ✅ | | ✅ | ✅ |
| **Tier 2 process data** | | | ✅ | ✅ | ✅ |
| **Tier 3 process data** | | | | | ✅ |

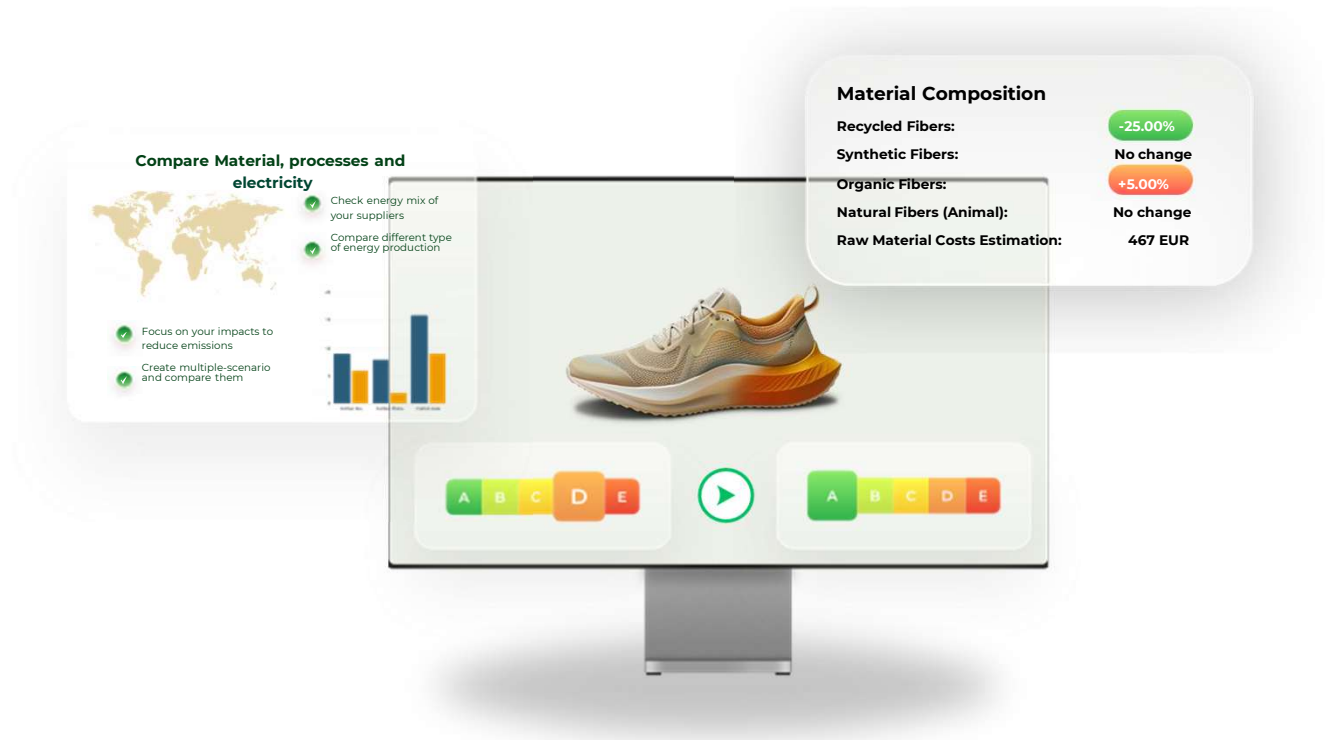Peftrust®

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# Eco-design: The Data Validation Gap

**70-85% of a product's environmental impact is driven by its materials and manufacturing.**



❌ Measuring Impact after production

❌ ESPR & Digital Product Passports (DPP) require sustainability integration at the design phase.

❌ Sustainability teams & Product teams work in silos.

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**The foundation of solid eco-design starts with** *collecting, structuring, and making sense of the right data.*

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# We are redefining Eco-Design by transforming data-driven automation into reality

**Compare Material, processes and electricity**

- Check energy mix of your suppliers
- Compare different type of energy production
- Focus on your impacts to reduce emissions
- Create multiple-scenario and compare them

**Material Composition**

| Recycled Fibers: | -25.00% |
| Synthetic Fibers: | No change |
| Organic Fibers: | +5.00% |
| Natural Fibers (Animal): | No change |
| Raw Material Costs Estimation: | 467 EUR |

A B C D E    A B C D E

✅ Early-stage automated LCAs

✅ Material, process, energy-specific impact scoring & simulations

✅ Benchmarking products, categories, collections

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# LCAs are critical—but they're only as good as the data behind them.

# Unlocking Granular Data for Precise Product Scoring

# Takeaways

✅ Automated data collection for precise, supply chain-specific insights.

✅ Early-stage sustainability integration to maximize impact before production.

✅ Standardized impact assessments ensuring brands & retailers align on sustainability metrics.



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# Peftrust ®

Scalable LCAs for fashion & retail

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# THANK YOU!

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