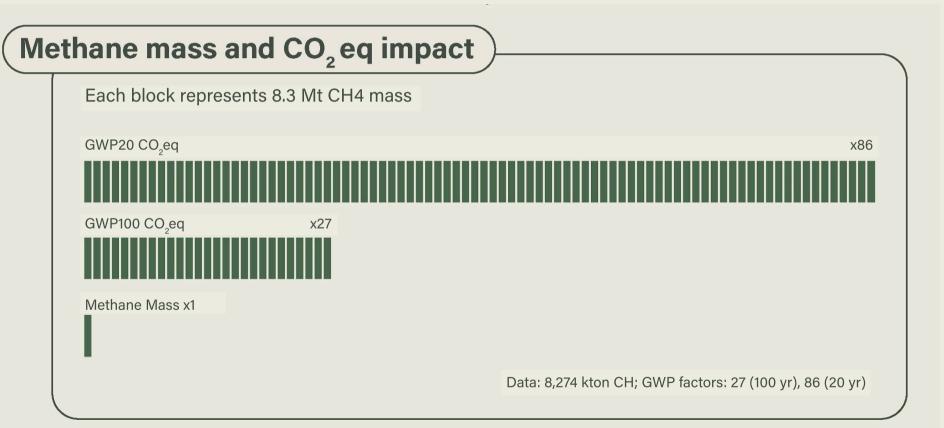
Fashion's methane crisis:

first-ever industry footprint analysis



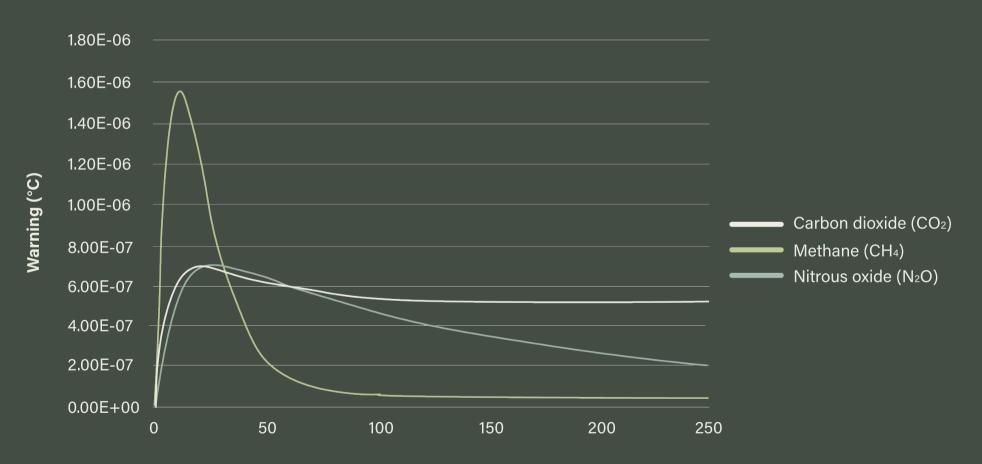
Understanding methane

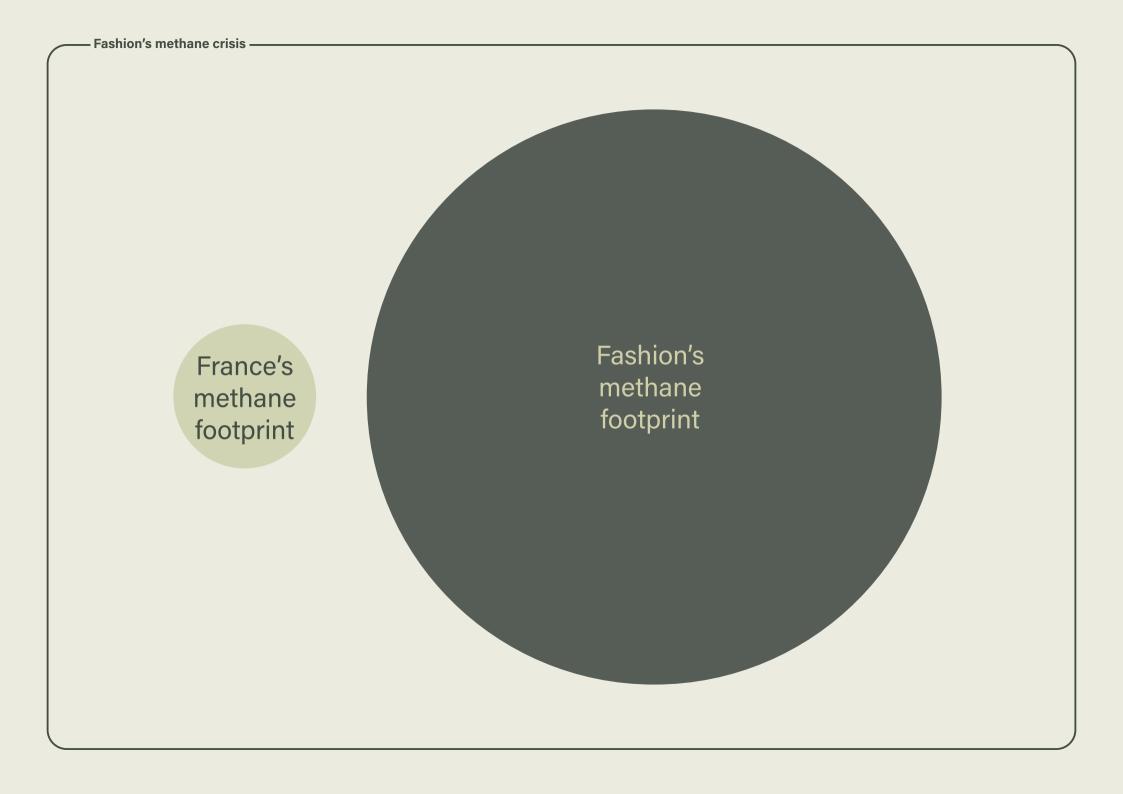
- 1. ~86x more potent than carbon dioxide over 20 years
- 2. Shorter atmospheric lifetime than CO₂: ~12 years vs centuries



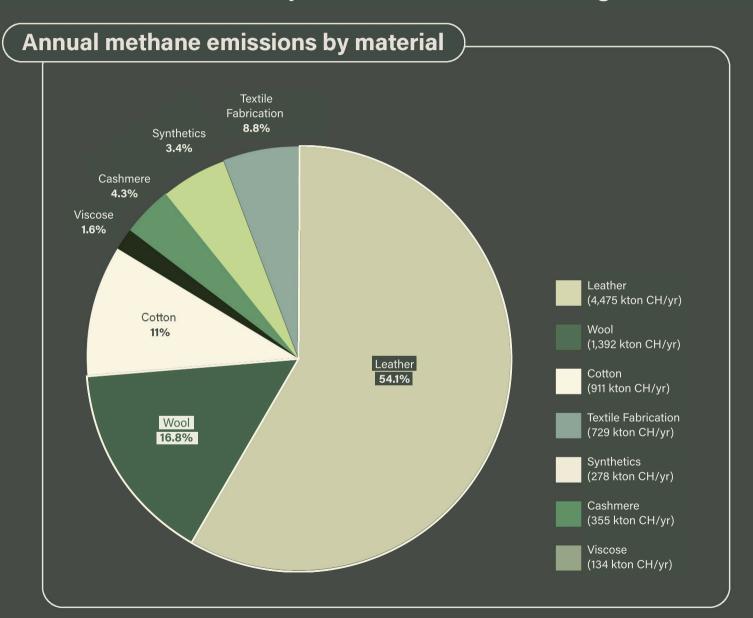
Understanding methane

Methane is more potent but does not last as long, making its mitigation a fast way to reduce global temperatures.



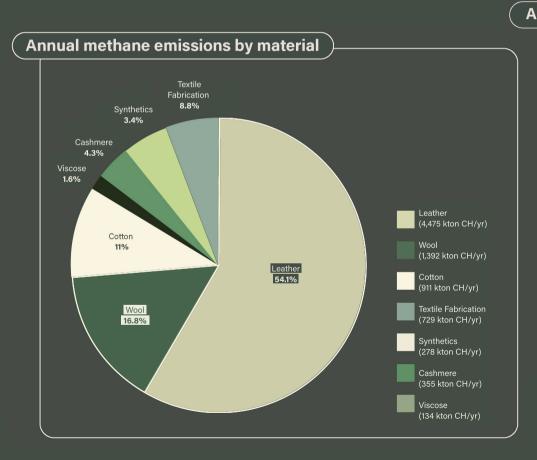


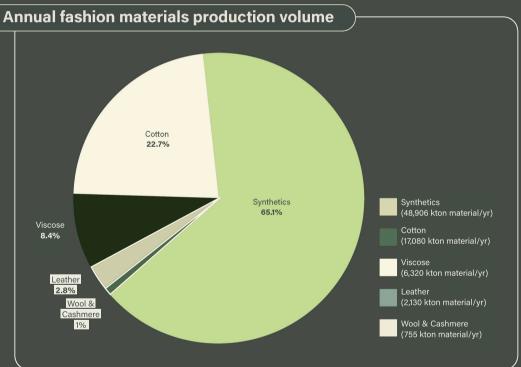
Fashion's methane footprint: our research findings

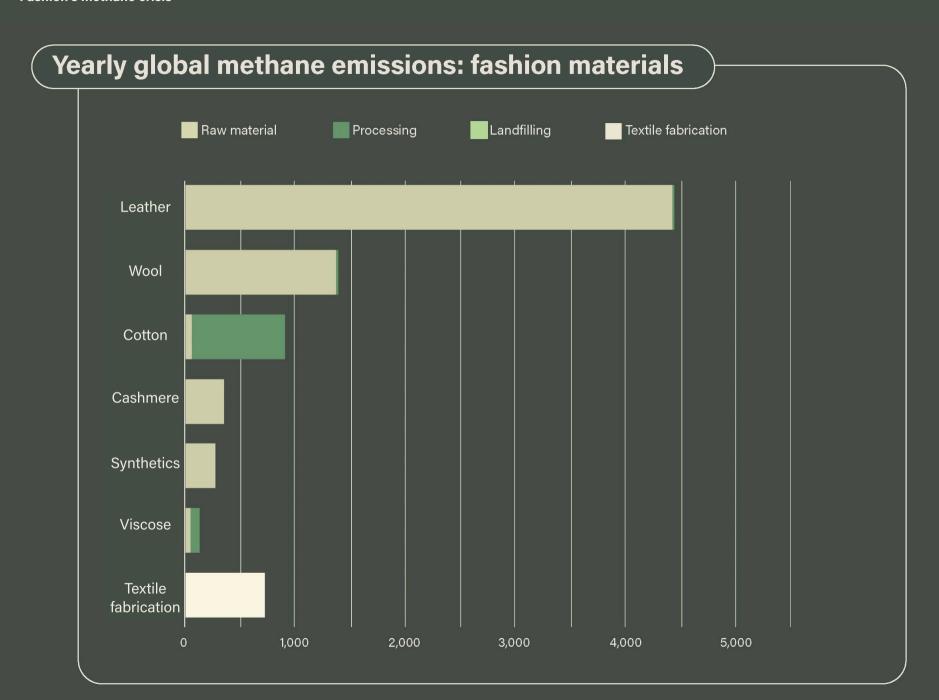


The 71/4 problem: Materials making up under 4% of fashion

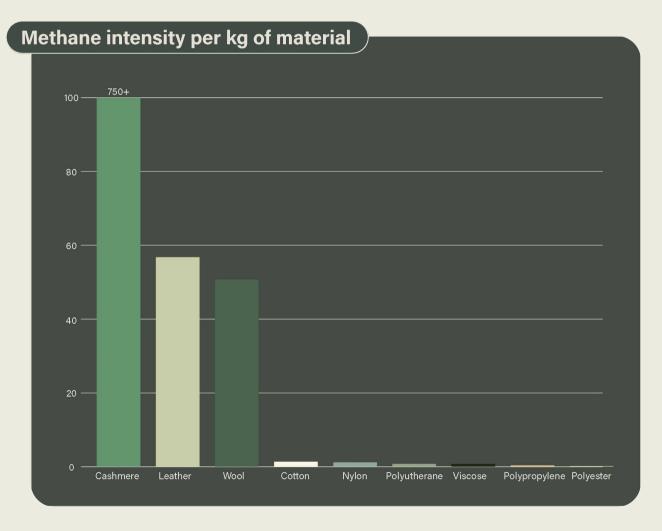
production create 71% of methane emissions







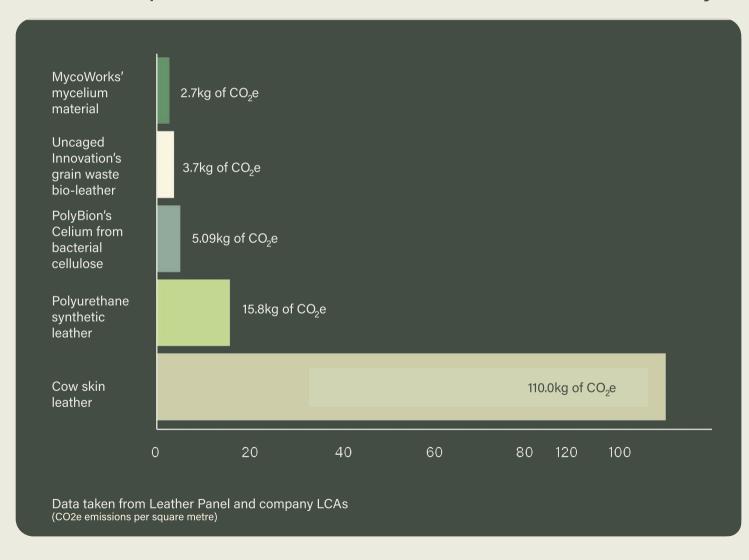
Methane intensity per kilogram material





Beyond incremental solutions

We need rapid, scalable solution to reduce methane 30% by 2030



Lowering methane lowers carbon equivalent emissions.

Now or never:

a first methane footprint for the fashion industry



This is the breakdown of where annual methane emissions come from, by material: Together, animal-derived leather and wool make up 71% of total methane emissions. Annual methane emissions by material Leather (4,475 kton CH/yr) Cotton (911 kton CH/yr) Textile Fabrication (729 kton CH/yr) Synthetics (278 kton CH/yr) Cashmere (355 kton CH/yr) Viscose (134 kton CH/yr) Each material's methane emissions were assessed from the beginning of their supply chain through to landfilling, assuming all materials end up in landfill at some point given the fashion industry's total lack of textile recycling facilities (just 1% of textiles are recycled) and very limited engagement in effective circularity initiatives. For leather and wool, which are profitable co-products of the food industry (and sometimes even primary products) a combination of economic and biophysical emissions allocation were used, making use of data published by the leather industry itself, and peer-reviewed research. That means the emissions tied to leather and wool are a specific relevant portion of the overall emissions associated with rearing a cow or sheep for production and slaughter.

BREAKING DOWN FASHION'S METHANE FOOTPRINT

Just how severe the metlanimal-derived leather and clear when you compare to fashion's methane foo contribution by volume of in fashion production ear

Annual fashion materials production v

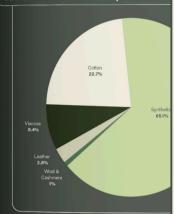


Fig. 2. Estimated distribution of annual production volume of major fashio kilotonnes per year (kton material/yr), representing the approximate scale based on the Textile Exchange Market Report. Synthetic fibers (polyester, "Synthetics" Percentages in ideas the contribution of the production of t

For all materials but cotton and viscose, the vast major associated with raw material production. Cotton is the of its methane footprint associated with processing the

This is not to say less methane-intensive materials are materials have different environmental impacts across synthetic materials have a far reduced methane footpri life issues and are tied to fossil fuel use which must be

