



# **evoco**

**The root of sustainable products**

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# Who we are



Our mission is to close the loop on unsustainable goods, for good.

We develop and innovate various plant-based chemistries to offer low carbon alternatives to replace the ubiquitous petroleum-based materials.

Starting with the footwear industry, our current high-performance products are used by global brands such as Vans, Kodiak, Keen, Bared and Timberland.

With over 15+ patents, we continue to innovate to commercialize new material technology.

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# A gigaton material pollution issue

**25B**

SHOES\*

**260M**

MATTRESSES\*

**36M**

YOGA MATS\*

**18M**

TONNES OF PU\*

\*produced annually



## Carbon Footprint

PU foams are produced with hydrocarbons & petrochemicals that emit high amounts of CO<sub>2</sub>

## Reusability

Conventional foam are rarely recycled due to the toxicity of the raw ingredients

## Biodegradability

95% of these products go to landfills or are incinerated, releasing toxic chemicals into the ecosystem

## Waste

Materials used in these industries can take up to 1,000 years to degrade.

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# Natural circularity by design

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Harnessing the power of nature, we design enduring, sustainable and high performance products.

## LOW CARBON FOOTPRINT

Plant-based chemistry to replace high CO<sub>2</sub> petrochemicals.

## ENDURING PERFORMANCE

Designed with superior mechanical properties for longer use cycles.



## MINIMAL EFFECT AT END OF LIFE

Biodegrades with non-toxic raw materials.

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# FATES<sup>®</sup>, our high performance eco-foam

FATES<sup>®</sup> is a patented premium eco-foam that boasts an industry leading 70-80% bio-content.

A high performance alternative and real environmental change in one, Fates is recognized by industry-leading environmental agencies.



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# FATES®' endless product applications

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FATES® was designed to replace petrochemistry in everything we wear, walk on, sit on and drive in.  
Our material innovations drive novel performance-based consumer goods.



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# Disrupting footwear first

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**Manufacturing 1 pair of  
running shoes:  
30 lbs of CO<sub>2</sub> emissions**  
– Run Repeat, 2021

**300M pairs  
discarded in the USA  
every year**  
– U.S. Department of the Interior

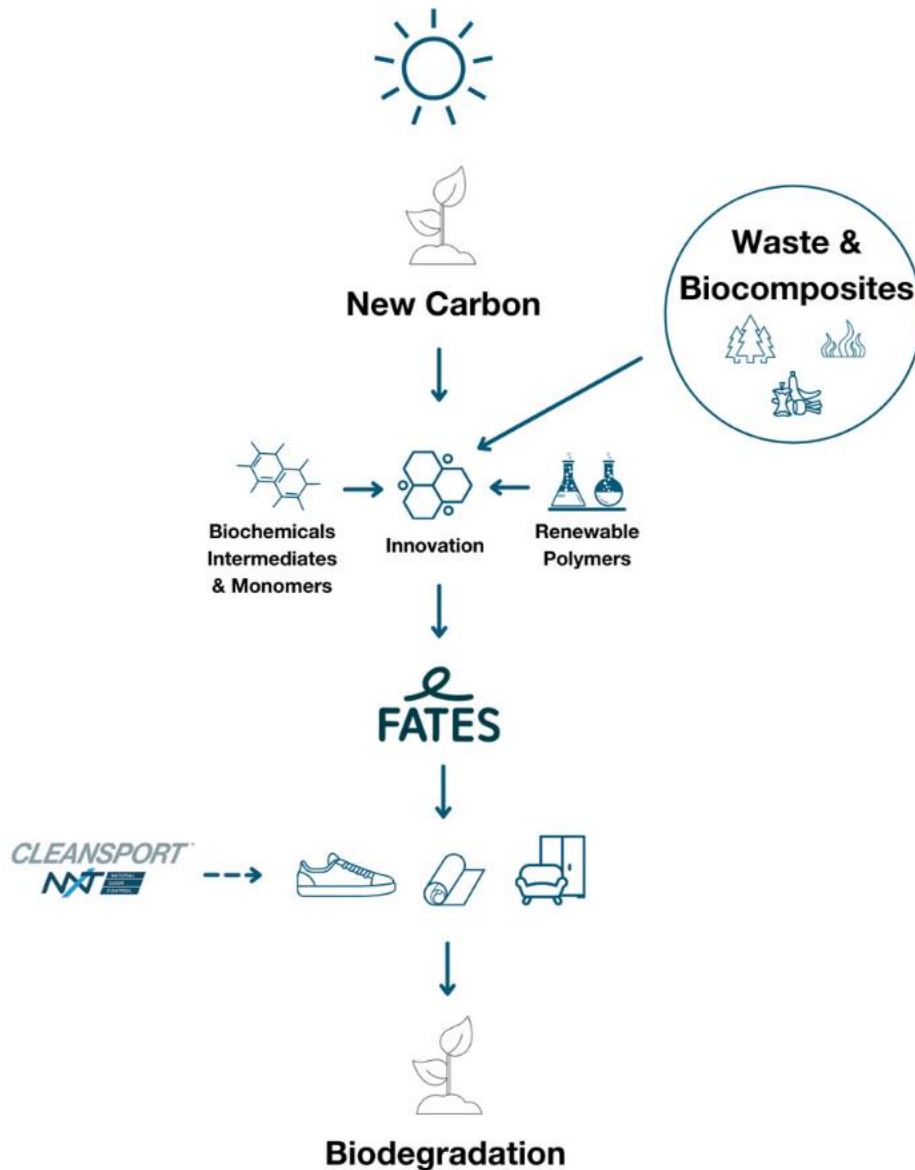


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# Behind the scenes: How we innovate



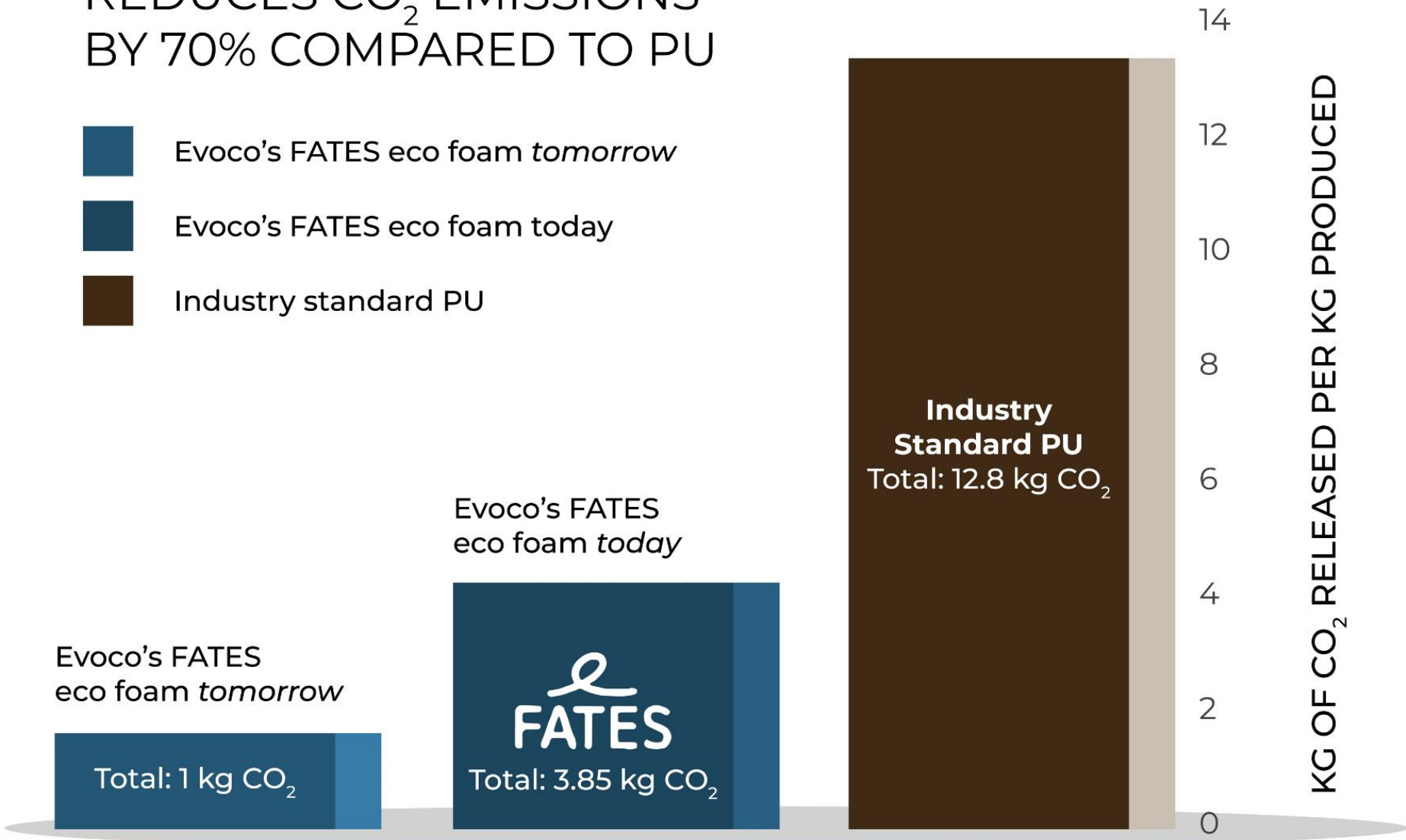
- It starts from the earth. Plants grow, absorbing  $\text{CO}_2$  from the atmosphere and stored biocarbon
- Through sustainable processing, plant-based biocarbons are transformed into biochemical intermediates + monomers.
- We add natural, green additives to our formula. This is what gives our foam its outstanding performance.

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# REDUCES CO<sub>2</sub> EMISSIONS BY 70% COMPARED TO PU

- Evoco's FATES eco foam *tomorrow*
- Evoco's FATES eco foam *today*
- Industry standard PU



The results are clear, Evoco's efforts to mitigate climate change at the source by using plant-based raw materials works.

# Lifecycle Analysis of commonly used materials in footwear insoles/midsoles

CO<sub>2</sub> emission/  
global warming  
potential assessment  
for one pair of insoles

<sup>1</sup>SOLE 2020 LCA: ActiveThick & PerformanceThick  
Footbeds. July 2021, [SOLE-2020-Footbed-LCA.pdf](#)

<sup>2</sup> All Eco Sneakers Do Is Kill The Planet a Little Bit  
Slower. August 2021, [\[https://runrepeat.com/eco-sneakers-research\]](https://runrepeat.com/eco-sneakers-research)

<sup>3</sup> Simapro LCA software v 9.3, ecoinvent database, v  
3.8, LCA report

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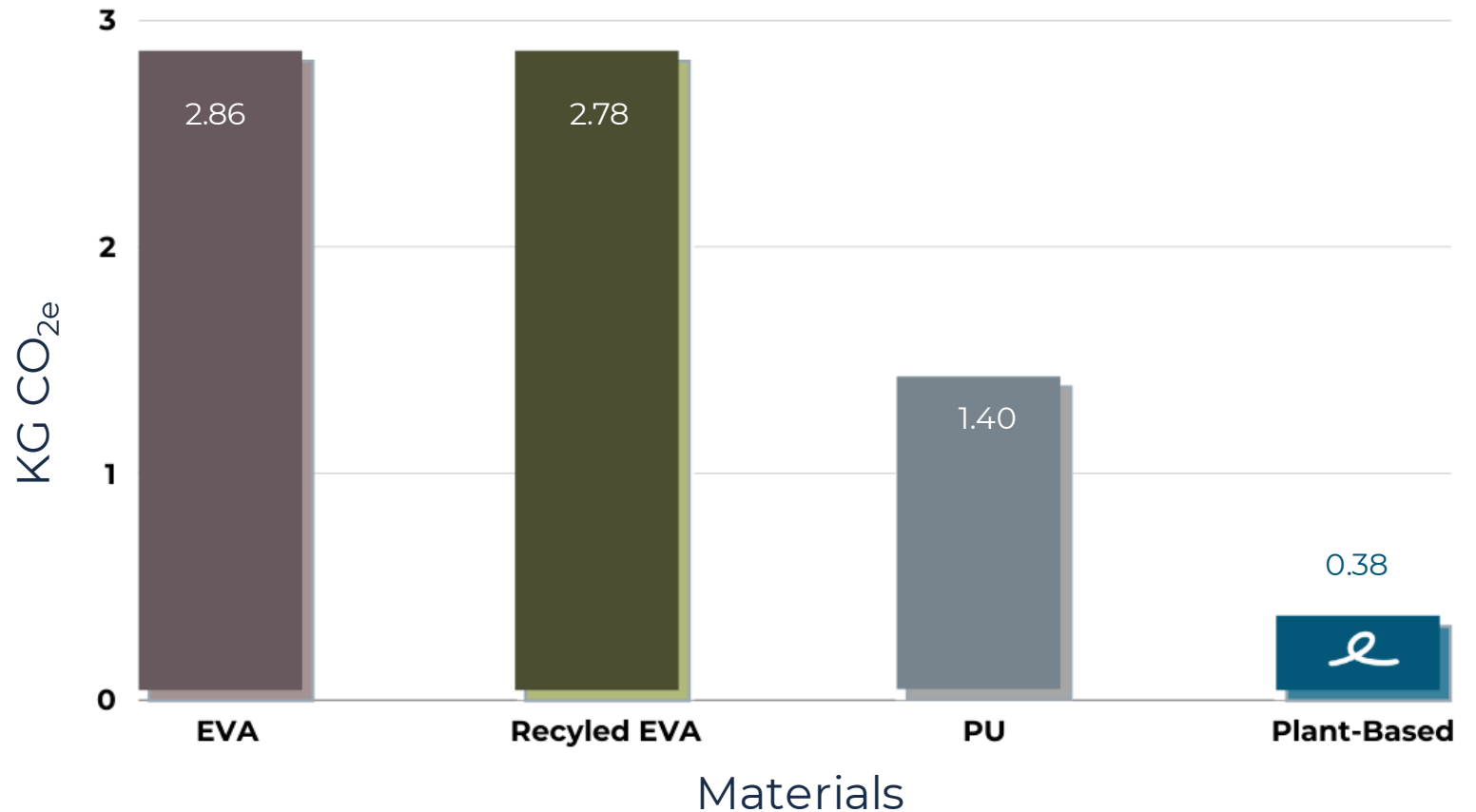
## Carbon Balance: Comparing LCAs



FATEST™ plant-based creates:

**87%** less CO<sub>2e</sub> compared to EVA

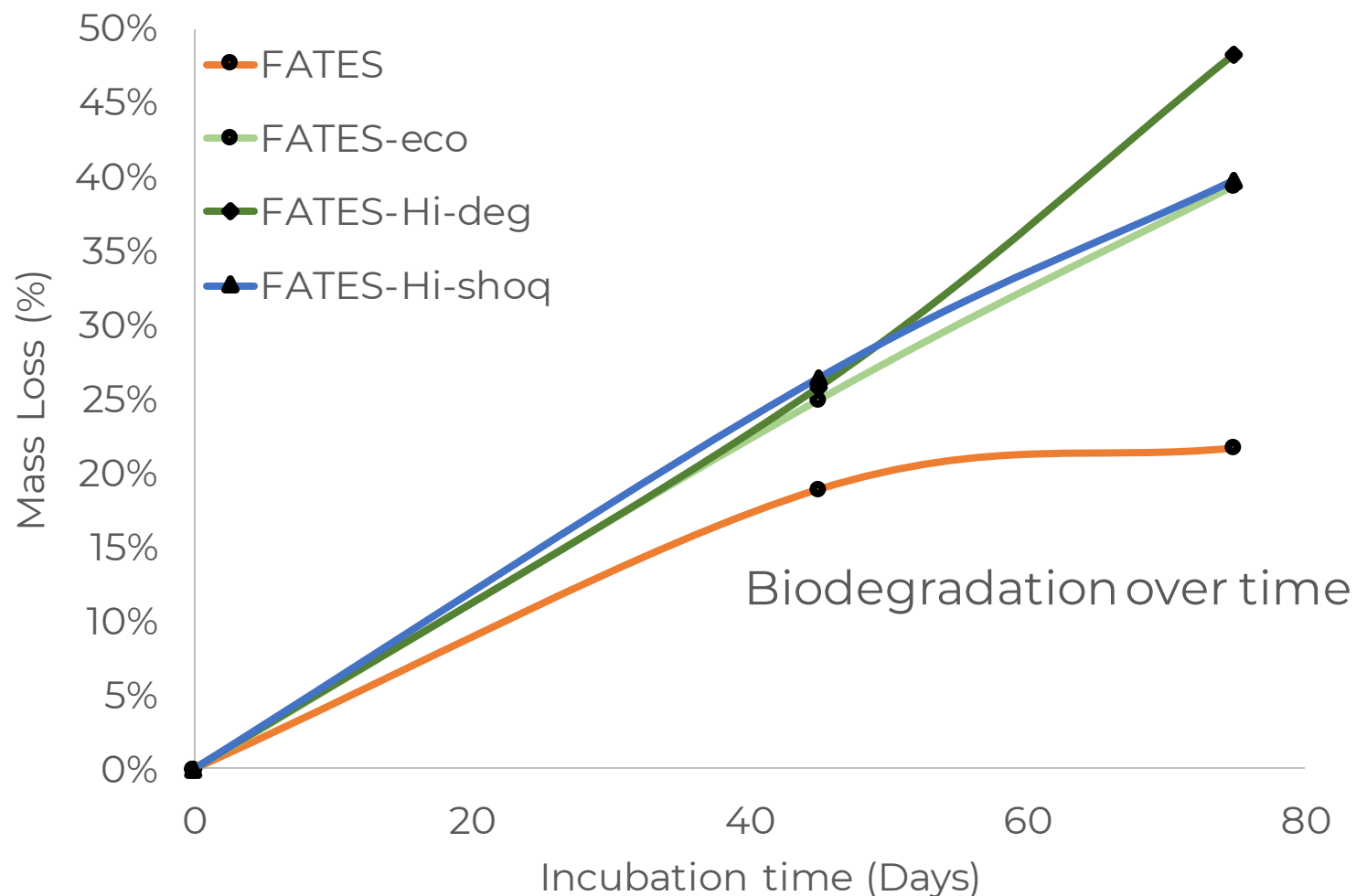
**73%** less CO<sub>2e</sub> compared to PU



# FATES® Waste Diversion: Biodegradation

**FATES®** plant derived eco-foam biodegrades within 5 to 20 years, diverting materials like shoes from landfill that would otherwise sit there for over 1000 years.

Current new and patent pending developments on the formulation show that the material is 50% biodegraded within 75 days of being composted.





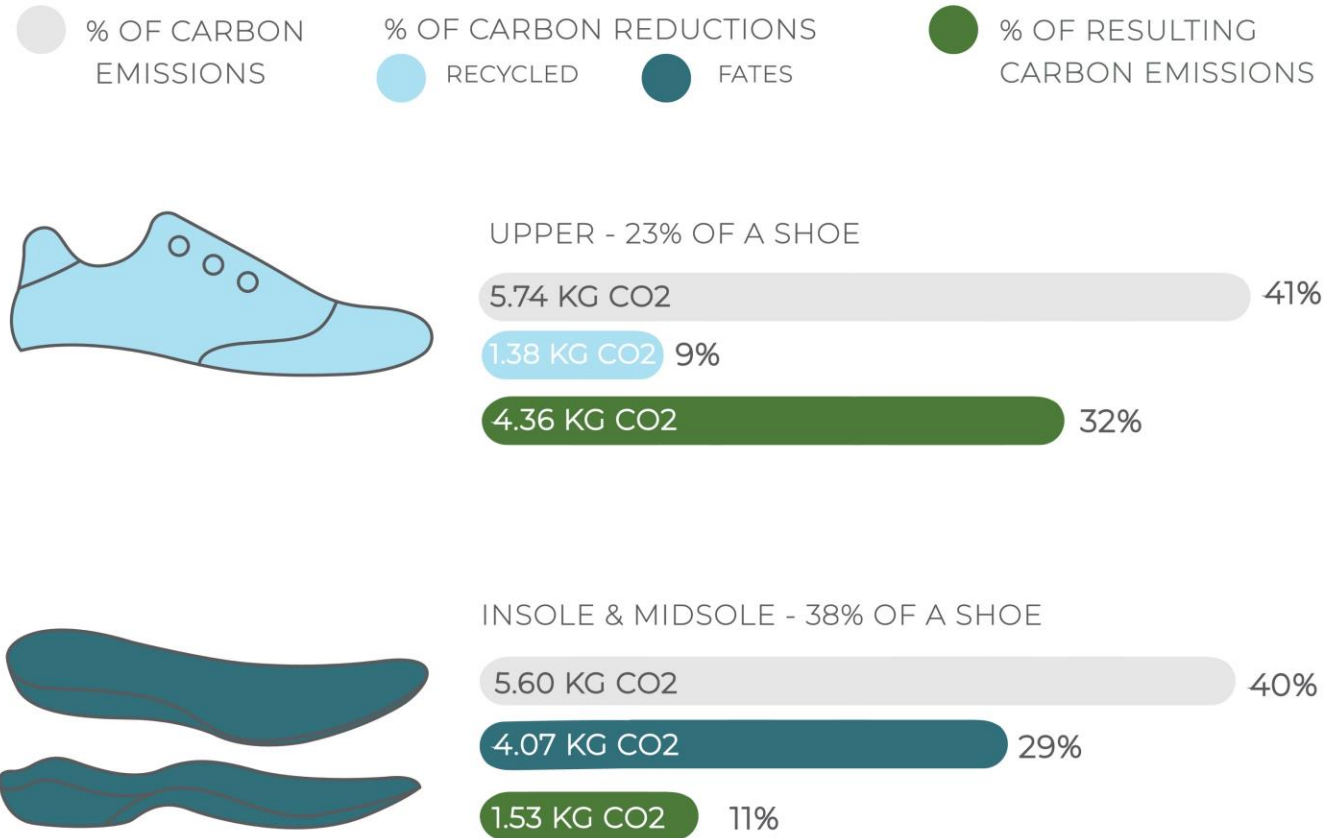
**FATES®** is primarily used in footwear for insole and midsole applications while matching or exceeding all industry performance standards based on the petrochemical status quo.

**FATES®** eco-foam is used to make high-performing insoles with enduring properties featuring a low compression set for superior step-in comfort.





## Case Study: Recycled Upper Materials vs Plant-Based Foam



An upper is **23%** of a shoe.

Using recycled fabric only reduces CO<sub>2</sub> emissions up to **9%** of the entire shoe.

A midsole & insole makes up **38%** of a shoe.

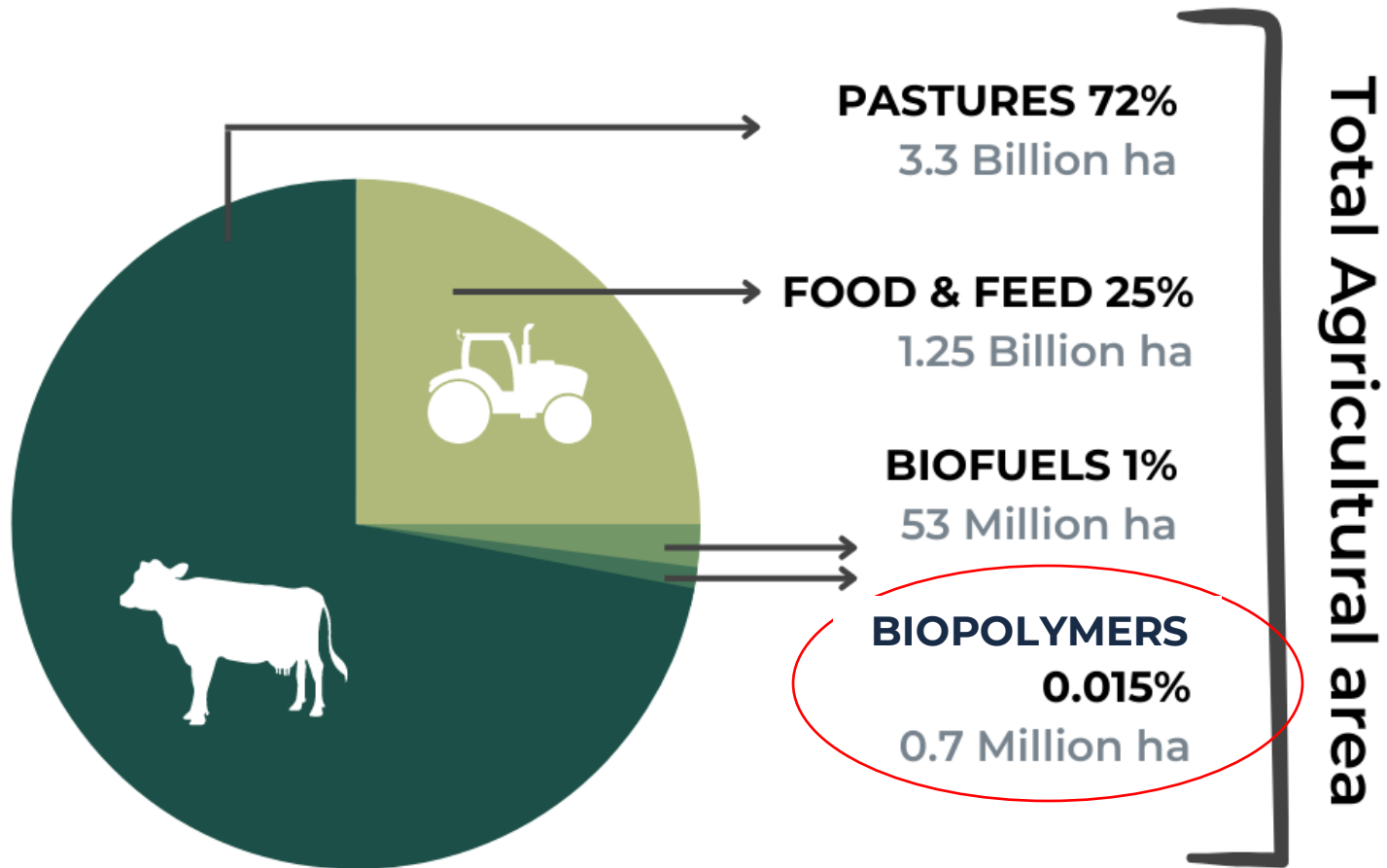
Simply using a **FATES®** eco-foam insole and midsole reduces CO<sub>2</sub> emissions up to **29%** of the entire shoe.<sup>18</sup>

McLoughlin D, All Eco Sneakers Do Is Kill The Planet a Little Bit Slower [Study], August 2021, Run Repeat, <https://runrepeat.com/eco-sneakers-research>

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# Misconceptions of Plant Based Materials: Feedstock not Food



As the world's population grows, food security is an issue that is brought up

Bio-materials critics argue the materials industry is taking away from arable farmland.

A common misconception, feedstock for bio-based materials uses waste and industrial plant materials not meant for human consumption

Source: European Bioplastics (2021), FAO Stats (2020), nova-Institute (2021), and Institute for Bioplastics and Biocomposites (2019), University of Virginia (2016).  
Info: [www.european-bioplastics.org](http://www.european-bioplastics.org)

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# FATES®

## Features and benefits



### Industry leading plant-based

FATES™ eco-foam is made from industry leading 70% to 80% plant-based from sustainably sourced plants and plant waste



### Reduce carbon emission

Using FATES™ plant-based materials reduces a product's carbon footprint by up to 70%



### 3rd party certified

Our materials are third party certified by USDA, Greencircle and Vegan



### Biodegradable properties

FATES™ eco-foam biodegrades back into the earth



### Enhanced mechanical strength

When tested, FATES™ performs equally or improved mechanical and strength based properties compared to traditional petrochemical-based foam



### Step in comfort

The FATES™ provides long-lasting comfort with excellent energy return for a spring-like effect



### Performance based

Lightweight, strong and long-lasting



### Patented technology

Leading innovative breakthroughs in bio-materials and protecting our intellectual properties



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# Our footwear partners

Timberland 



VANS



 KODIAK



15+ development projects in progress for future seasons in footwear alone.

Timberland 



OluKai

BATES

TERRA   
CANADA'S TOUGHEST SAFETY BOOTS

 ARIAT

CAT



KEEN

FISCHER 



BOGS®

L.L.Bean



WINNIJELL  
CLEAN HOCKEY



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# An innovation roadmap set to disrupt the industry

## SUPPORTING FOOTWEAR BRANDS WITH INNOVATIVE SOLUTIONS FOR ALL THE KEY COMPONENTS OF A SHOE



Upper (2024)



Insole (in market)  
Blocker tech. (2023)



Midsole (in  
market)



Outsole (2023)

WITH CUSTOM FORMULATIONS THAT DELIVER  
UNRIVALED COMFORT AND PERFORMANCE



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# Cleansport NXT: our odor control treatment add on

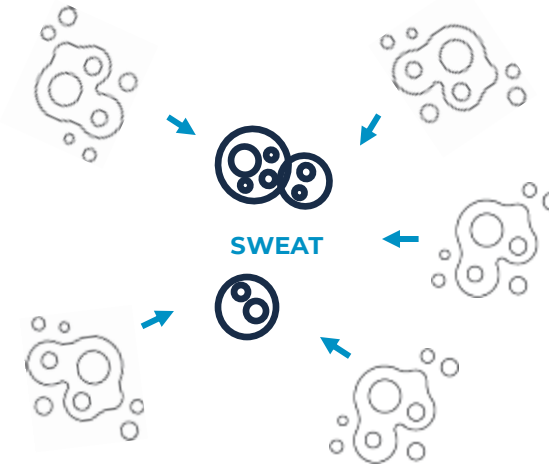
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CLEANSPORT **NXT** offers a process of using pro-biotic technology to provide a method of odor control within our footwear components solutions.

Beneficial microbes, which are found all around us and are naturally occurring, are selected and bonded to the surface of the fabric.

This innovative process of applying live micro-organisms to fibers, results in natural, non-toxic health benefits to consumers and the environment.



Activated microbes work to reduce the odor causing organic material.



# Step into a Sustainable Future

Reach out to create your next gen footwear components solutions.

## Contact Evoco at

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 [www.evocoltd.com](http://www.evocoltd.com)  
 [@evocolimited](https://twitter.com/evocolimited)  
 Evoco Ltd

**FATES**

**CLEANSPORT™**  
**NXT** NATURAL  
ODOR  
CONTROL

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