

Net zero with plant-based materials

2022



The logo for FATES, featuring a stylized lowercase 'f' above the word 'FATES' in a bold, sans-serif font.

The logo for CLEANSPOORT NXT, with 'CLEANSPOORT' in a bold, sans-serif font and 'NXT' in a stylized, italicized font below it.

The logo for eoco, featuring the tagline 'Powered by nature.' above the word 'eoco' in a bold, lowercase, sans-serif font.



Evoco

We develop plant-based chemistry to replace petrochemical based materials to reduce carbon emissions.

Our current products of plant-based foams and natural odour control products are used by global brands such as Vans, Puma and Timberland.

With over 20 patents active and filed, we don't sacrifice performance.



Fixing a multi-megaton problem

Fashion and footwear account for 10% of global emissions with materials attributing 40% of those emissions - – Fashion Times, 2020

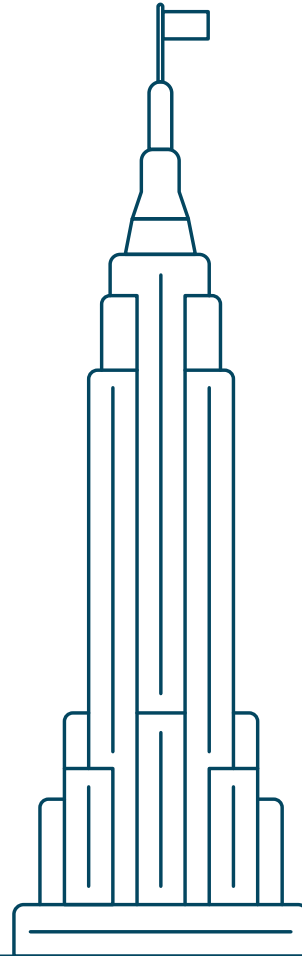


A typical pair of running shoes generates 30 lbs of Carbon dioxide emissions - Run Repeat, 2021

The foam problem

Everyday more than 1 million of cubic meters of PU materials is made, equivalent to the volume of the Empire State Building.

– Simon et al. 2018



Only around 10% of PU is recycled, the rest goes to landfills.

As of 2012, the U.S. produced around 1.3 million tons of polyurethane foam waste

- Recycling Magazine, 2020

At Evoco, everything we do are guided by our 4 pillars

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

Renewability

Performance

**Waste
Diversion**

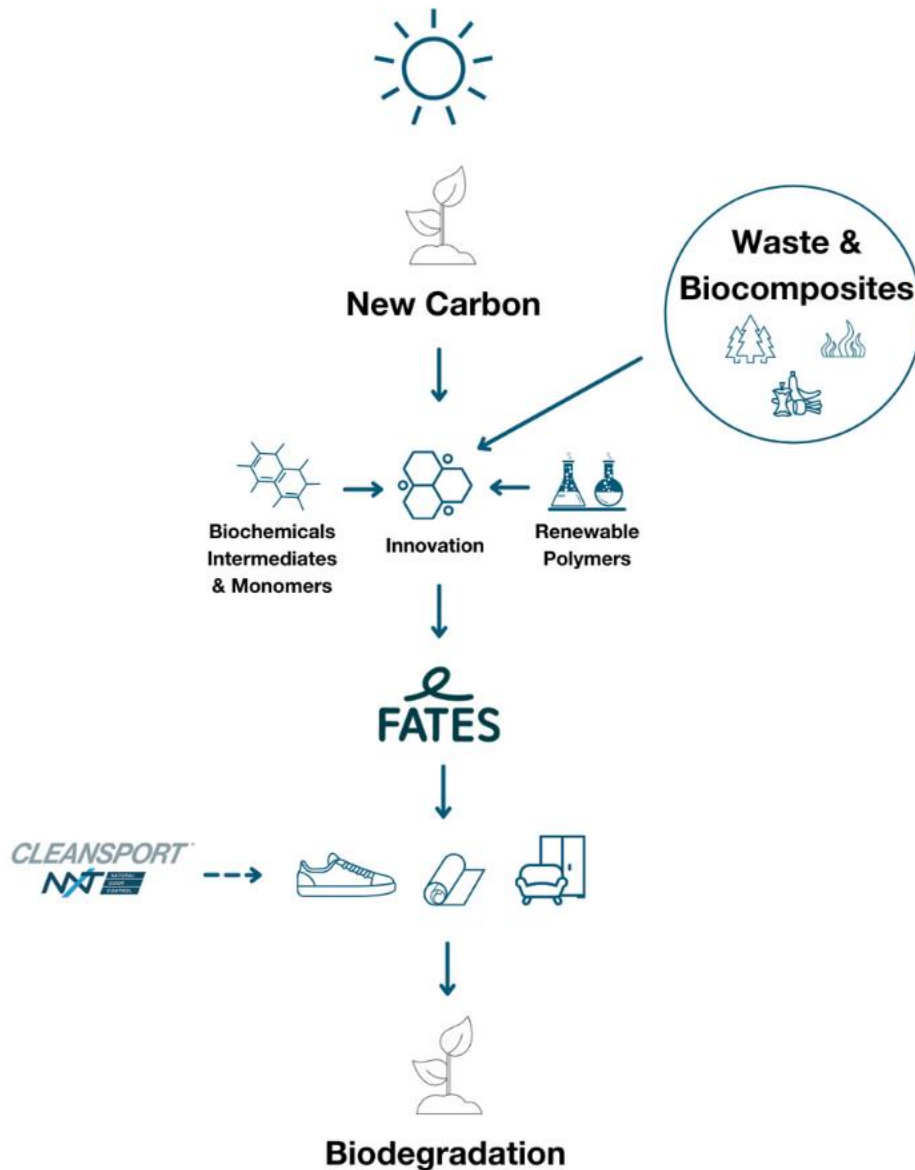
**Sustainable
Production**



Powered by nature.

evoco

Behind the scenes: How we innovate



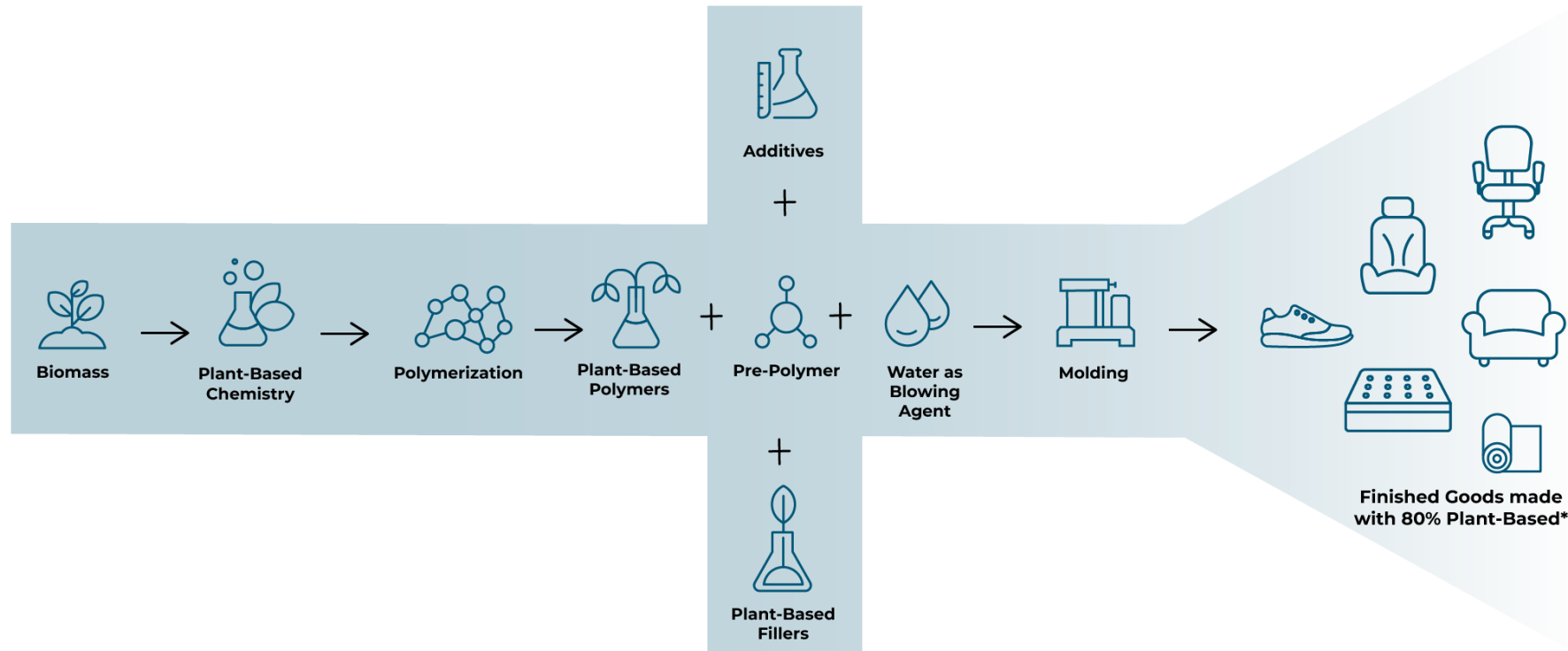
- It starts from the earth. Plants grow, absorbing CO₂ from the atmosphere and stored biocarbon
- Through sustainable processing, plant-based biocarbons are transformed into biochemical intermediates + monomers.
- We add natural, green additives to our formula. This is what gives our foam its outstanding performance.

Powered by nature.

evoco

FATES™ eco-foam development process

**FATES™
leverages
the power
of plants...**



**...to develop the
next generation
of consumer
good materials**

Powered by nature.

evoco

FATES™: plant-based eco-foam

Evoco's growth story, FATES™ is a patented **plant derived eco-foam** that boasts an industry leading **70-80% bio-content**.



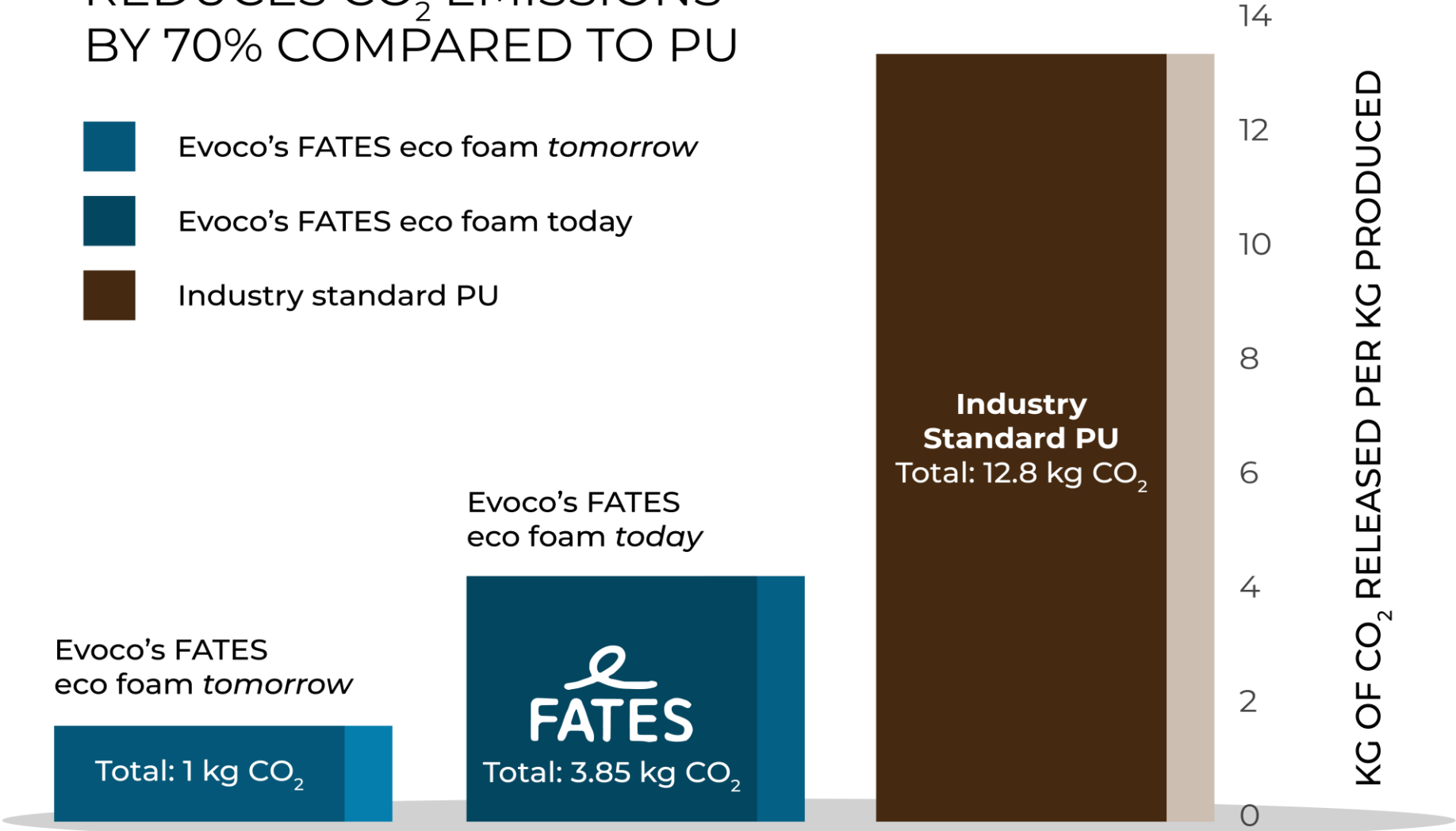
Powered by nature.



The path to net-zero: reducing carbon impacts

REDUCES CO₂ 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.

¹(2021). SCREENING LCA OF POLYOL & FOAM PRODUCTS: In accordance with ISO 14044:2006

Powered by nature.



Lifecycle Analysis of commonly used materials in footwear insoles/midsoles

CO₂ emission/
global warming
potential assessment
for one pair of insoles

¹SOLE 2020 LCA: Active Thick & Performance Thick
Footbeds. July 2021, [SOLE-2020-Footbed-LCA.pdf](#)

²All 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)

³ Simapro LCA software v 9.3 , ecoinvent database, v
3.8, LCA report

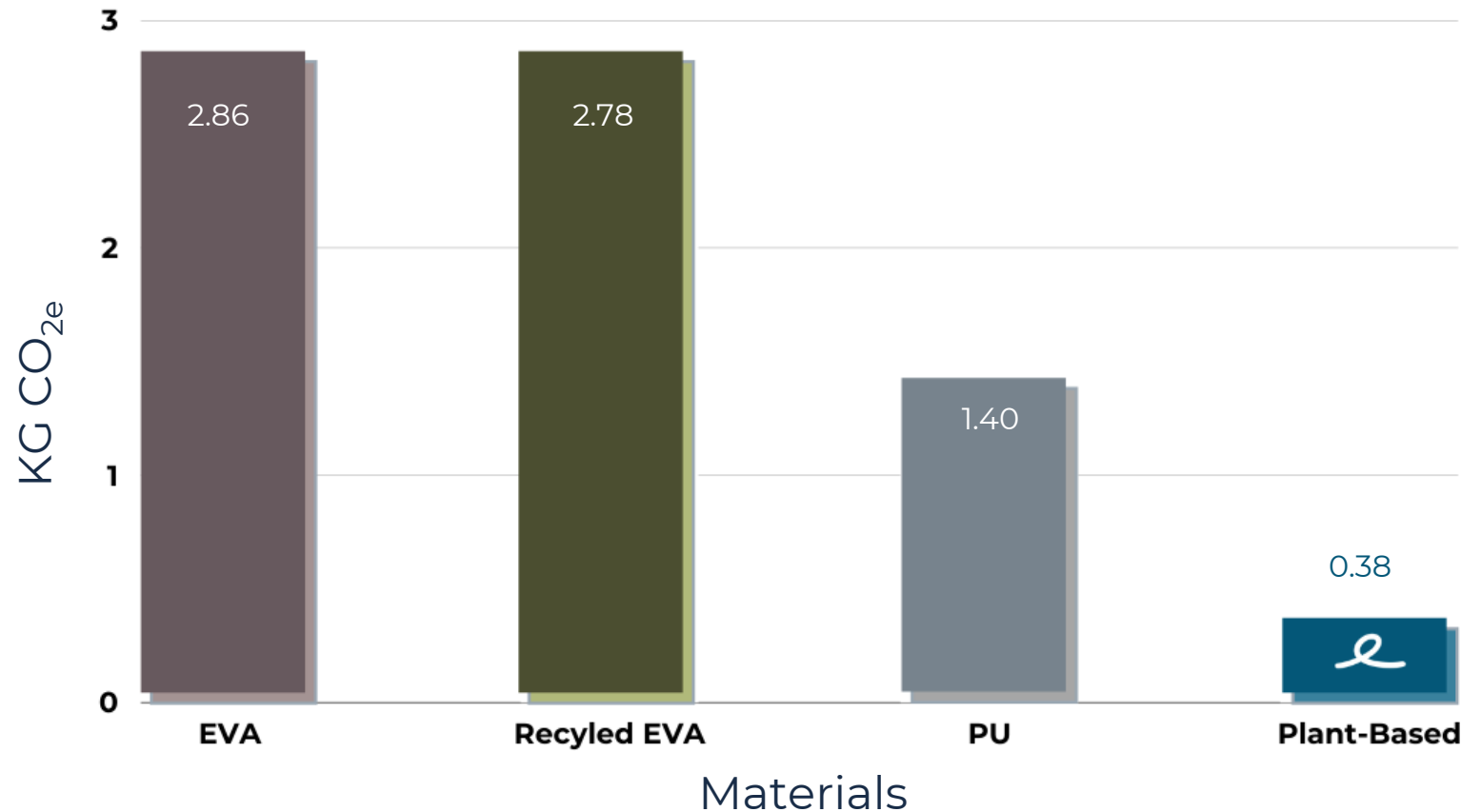
Carbon Balance: Comparing LCAs



FATEST™ plant-based creates:

87% less CO_{2e} compared to EVA

73% less CO_{2e} compared to PU



0.38

e

Plant-Based

PU

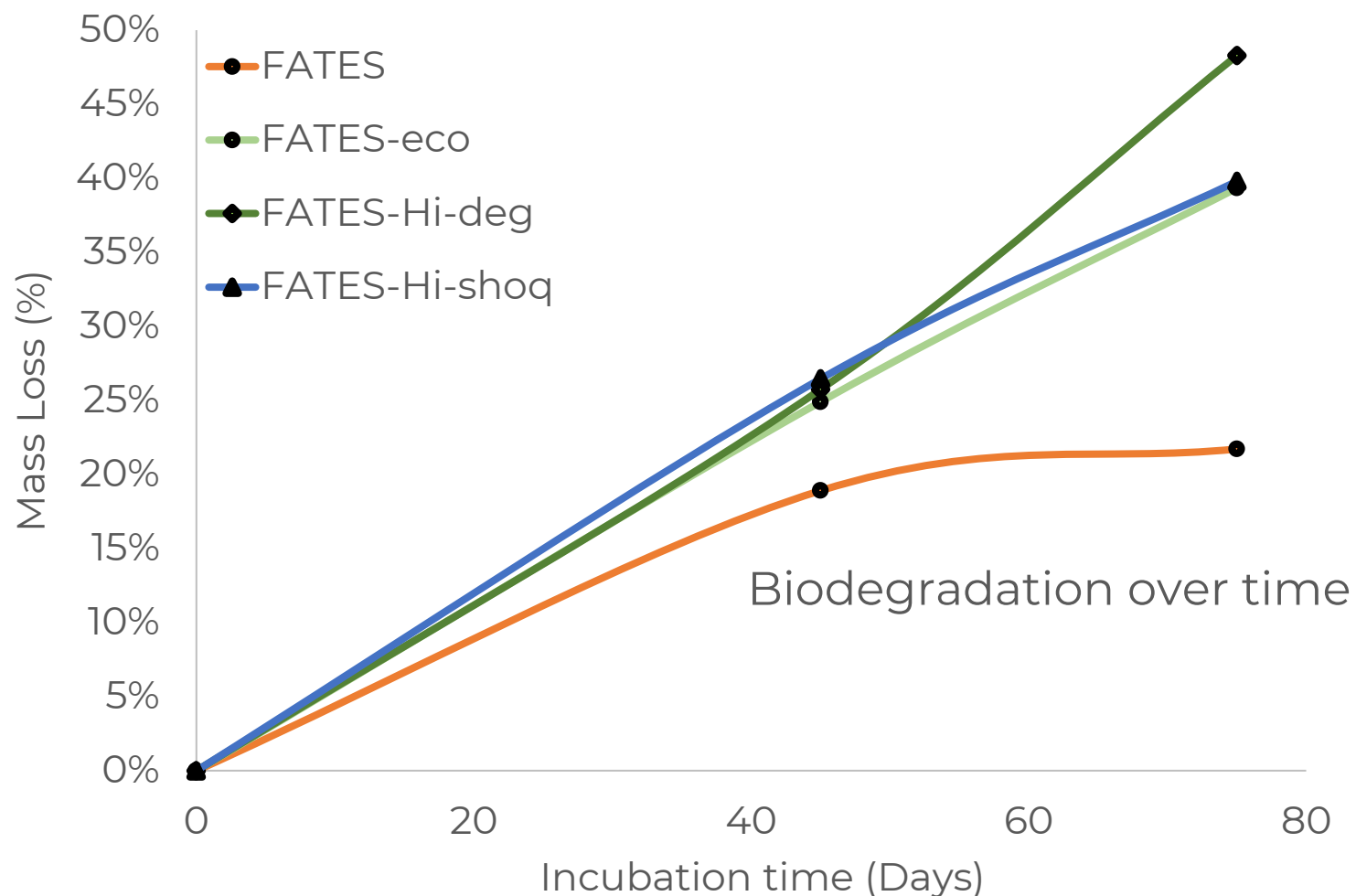
Recycled EVA

EVA

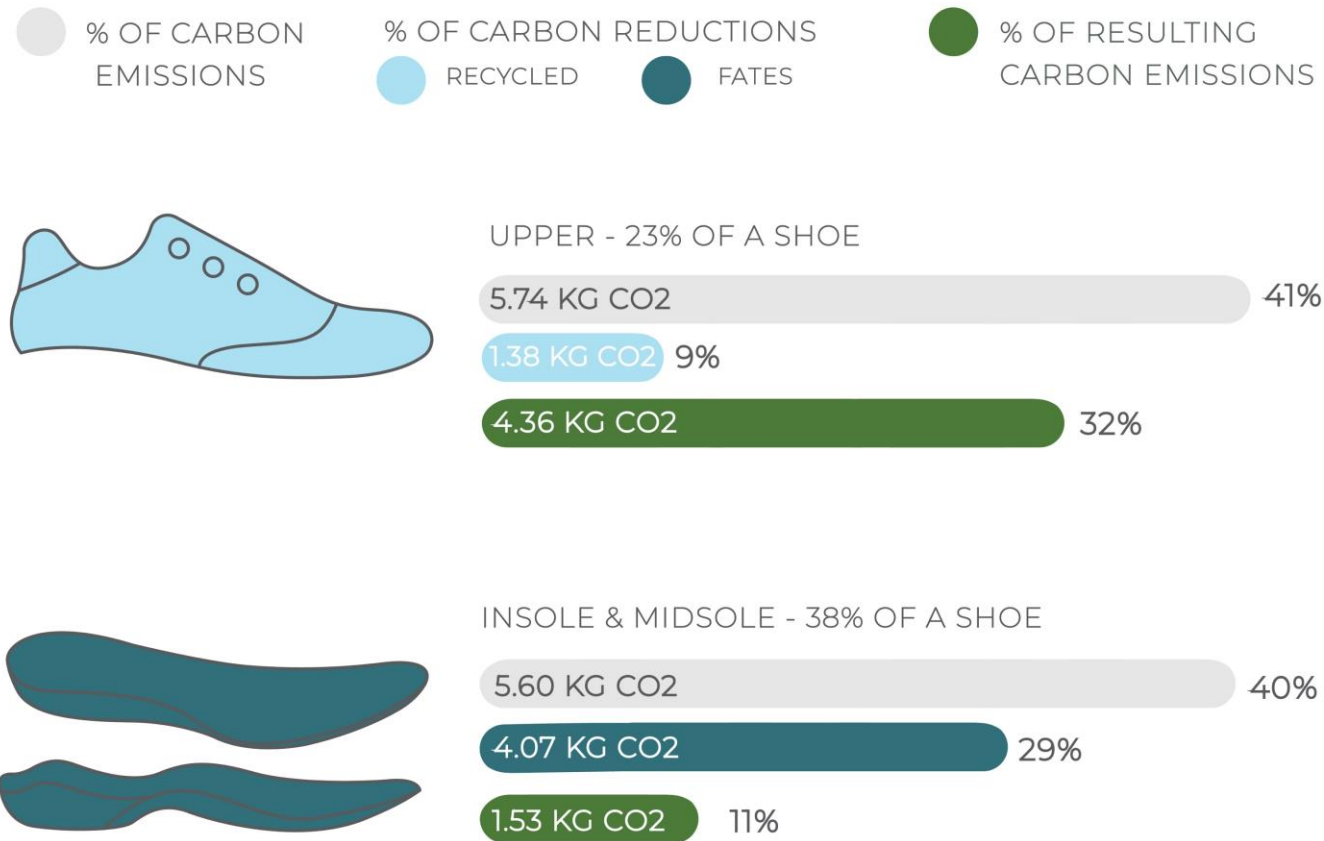
FATES™ eco-foam biodegrades within 5 to 20 years, diverting materials like shoes from landfill that would otherwise sit there for over 1000 years.

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

FATES™ waste diversion: Biodegradation



Case Study: Recycled upper materials vs plant-based foam



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

Using recycled fabric only reduces CO₂ 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 CO₂ emissions up to **29%** of the entire shoe.¹⁸

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>

Powered by nature.

ecoco

Our partners

These brands, as well as many others, have embraced the advantages of our carbon reducing technologies and customers.

We have over 15 development projects in progress for future seasons in footwear alone.



MERRELL



Brands x FATES™

Timberland 

VANS

 KODIAK

 KEEN

 BARED
Footwear




FATES

Our competitive advantage



Industry leading plant-based

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



Reduce carbon emission

Using FATEST™ 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

FATEST™ eco-foam biodegrades back into the earth



Enhanced mechanical strength

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



Step in comfort

The FATEST™ 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



Powered by nature.

avoco

The many uses of FATES™ foam

Initially designed for footbeds and insoles, we can tailor the formula with unique performance characteristics for outsoles, midsoles, yoga mats, films, fabrics and seating.



Upper



Insole



Midsole



Outsole



ATHLETICS



IN OFFICES



IN HOMES

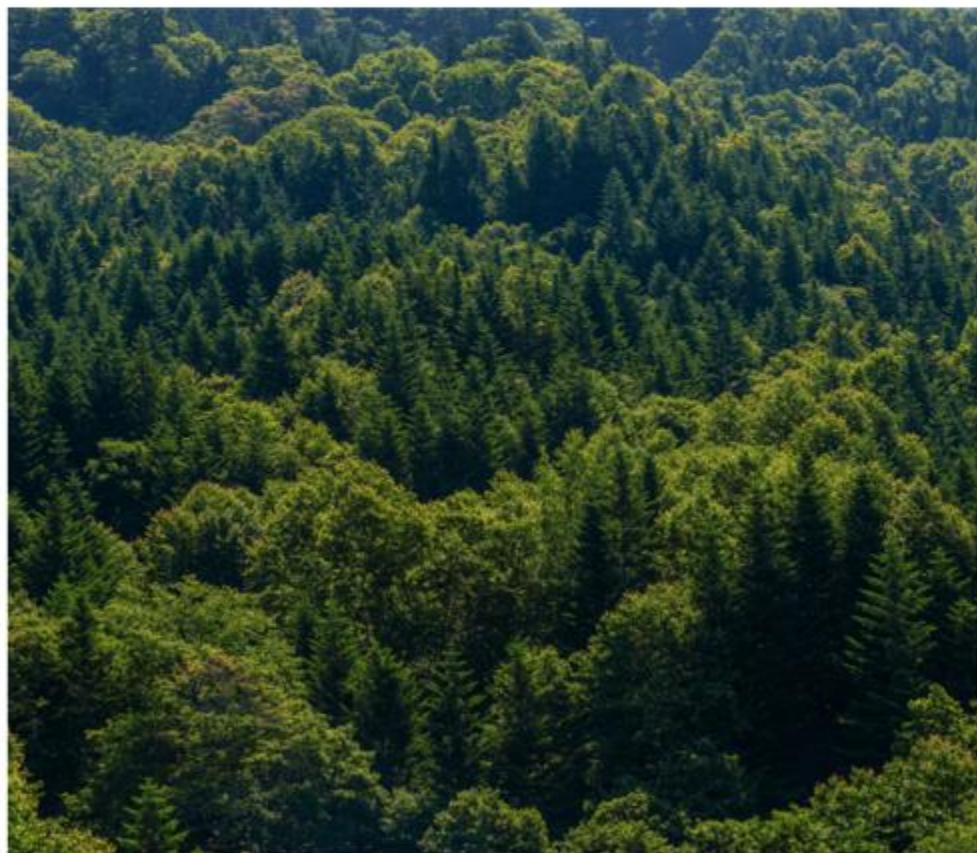


AUTOMOTIVE



The real impact

The only numbers that really matter



Thanks to our innovation,
partners, and products since
2020 we have saved over

976,152 KG CO₂

which is equivalent to planting

97,000 trees

*Average tree absorbs 22 lbs of CO₂ annually

Step into a Sustainable Future

When you support our mission, you are choosing the environment. By using innovative, plant-based materials you are not sacrificing performance but telling your customers that the planet matters.

Contact Evoco at

✉ info@evocoltd.com
📍 www.evocoltd.com
🐦 @evocolimited
🌐 Evoco Ltd

FATES

CLEANSPORT
NXT

Powered by nature.

evoco