



**REGENESIS**

Recycled materials for net-zero eyewear

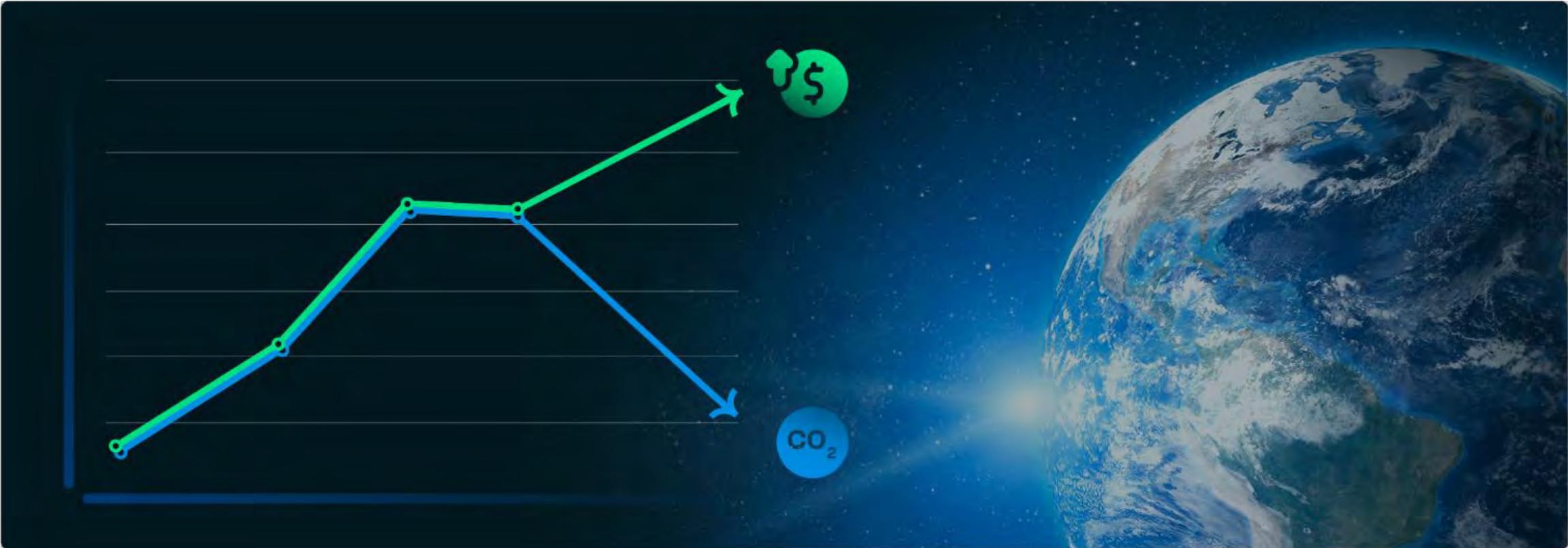
# Rethink. Reshape. Regenerate.

Advanced net-zero eyewear materials that clean our planet.

Made with oceanbound plastic waste and captured CO2.

MIDO 2025

Imagine if you could **increase your sales and lower your costs while achieving net-zero.**



● Sales      ● Carbon Emissions & Plastic Footprint

**01 Who are we?**

**02 Increasing your sales**

**03 Becoming Net-Zero**

**04 Our materials and technology**



We are **decarbonizing** the eyewear and fashion industry. Facilitating your journey to **net zero emissions**.



# 01 Who we are

A materials innovation company, born after 5 years of sustainable product development with Pangea.



## OUR MISSION

To transform the eyewear industry into a force that cleans our planet, by turning plastic waste and CO2 into high-quality materials.

## OUR VISION

The most sustainable supply chain of eyewear in the world, that enables brands to become circular and planet-positive.

# My background

## Education A systemic approach

- Sociology, UBA, 2011-12
  - Business and Project Management, UBA, 2012-15
  - Innovation & Entrepreneurship, Harvard, 2017
  - Seed Transformation Program, Stanford GSB, 2025
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## Experience 15 years of B2C business experience

- E-commerce, Founder, 2007 (at age 15)
  - Fashion Model, 2010-2015
  - Villa Juncal (Healthcare), GM, 2012-2019
  - PANGEA, Co-Founder & CEO, 2019 to date
  - REGENESIS, Founder & CEO, 2024 to date
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## Passions Nature and creativity

- Sailing, Surfing, Traveling, Hiking, Music



# What we've done so far

Turning trash into sunglasses since 2023.

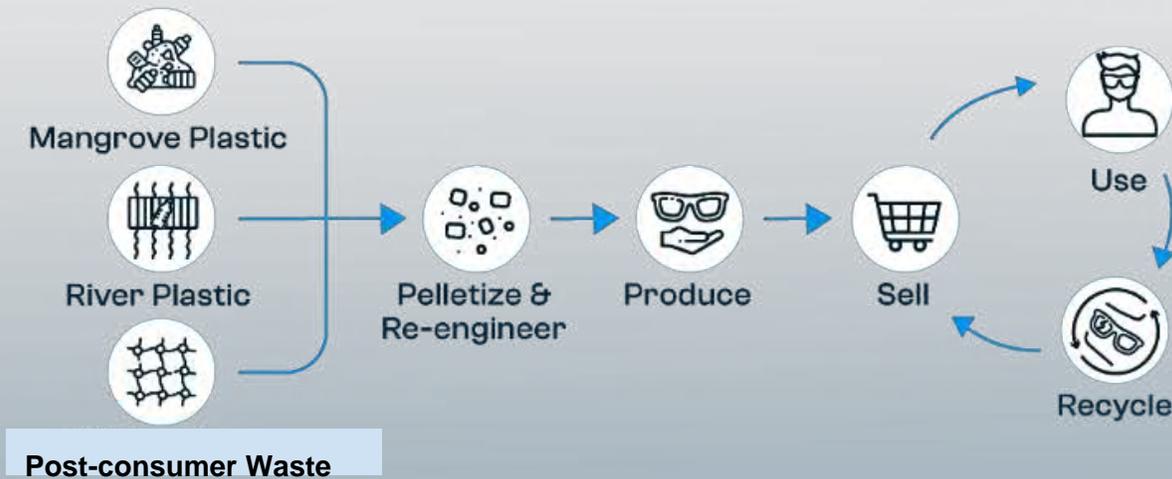


Founded  
in 2019

-  120,000 kgs of trash collected from 13 countries
-  \$1.5M USD revenue created with sustainable products
-  15 river barriers placed to date

We created the first sunglasses made with plastic waste from rivers and mangrove forests,

We sold \$290k in the first 10 months, delivered thousands of frames to 63 countries, and cleaned 30,000kgs of plastic waste in Indonesia.





## Our Mangrove Sunglasses



**1500** volunteers



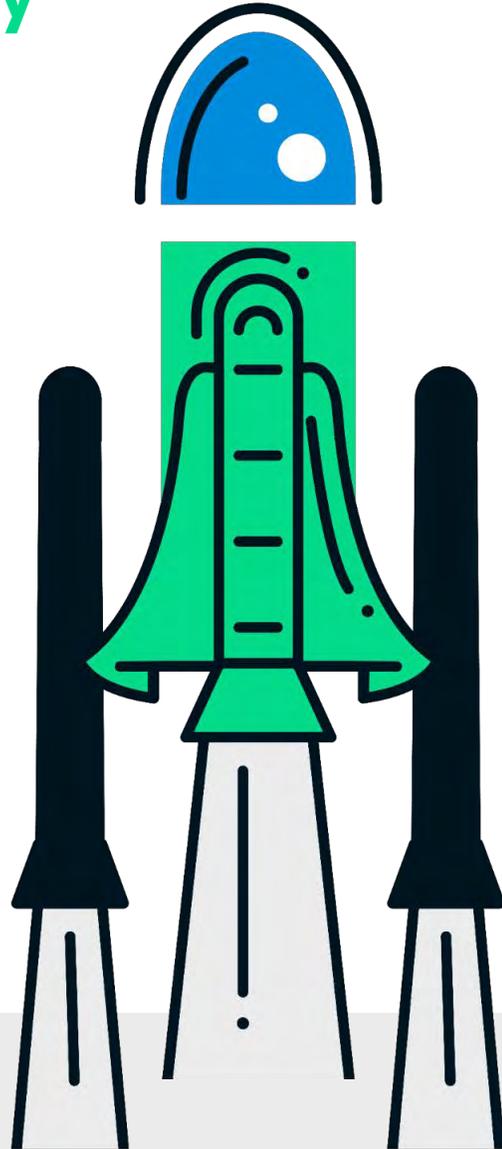
**5 tons** of waste  
in 6 hours





It all starts with our 15 river barriers

# Our journey



## **STAGE 3 (2024+): Materials Science B2B**

Supplying our novel recycled materials for other brands with REGENESIS

## **STAGE 2 (2021-23): Recycled Eyewear**

Upcycling the plastic we collect into our own sunglasses D2C

## **STAGE 1 (2019-21): D2C**

Selling sustainable outdoor gear D2C to clean the environment

# The REGENESIS Lab



# Our next goal

To create the most sustainable and innovative eyewear materials in the world, using science and nanotechnology.



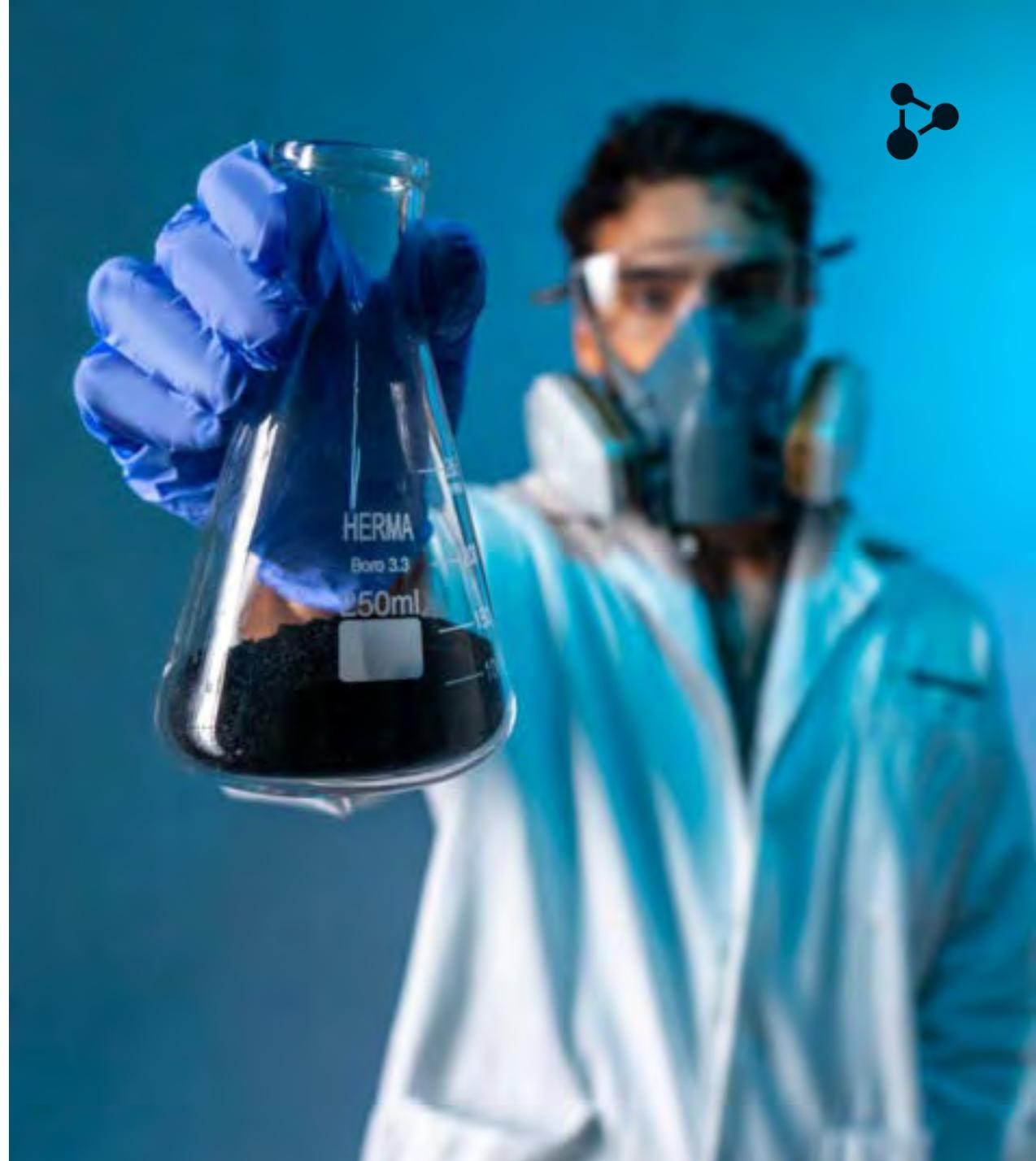
**Decarbonize  
the supply chain**



**Make it Circular  
& Regenerative**



**Offset any  
remaining emissions**



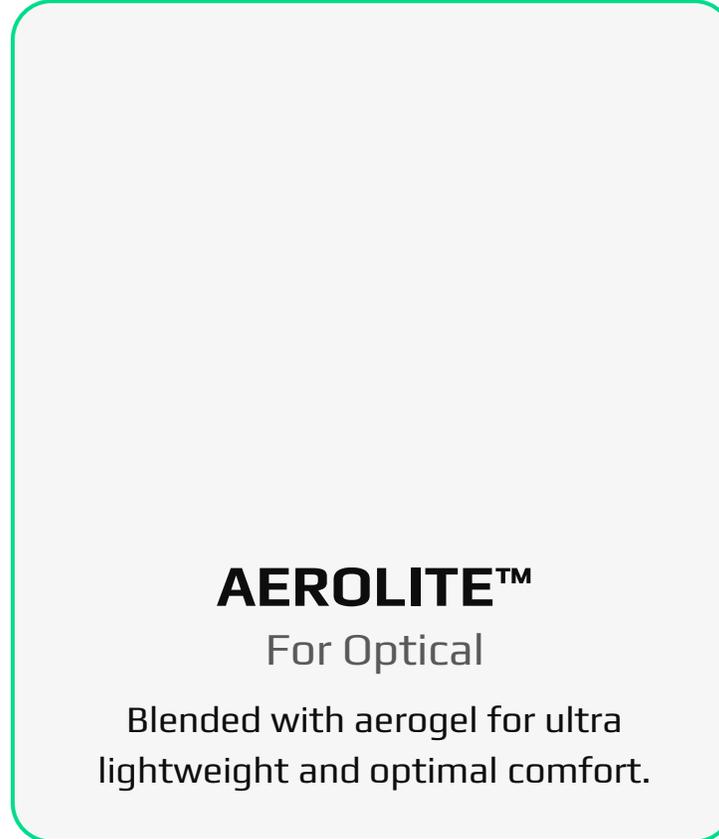
# We are creating **three net-zero materials in our lab** engineered for the three segments of eyewear



## **CARBONITE™**

For Sports

Blended with r-Carbon Fiber and graphene for maximum strength.



## **AEROLITE™**

For Optical

Blended with aerogel for ultra lightweight and optimal comfort.



## **OCEANTATE™**

For Fashion

To replace acetate sheets with an alternative made from ocean plastic.

\*in collaboration with Midori

High performance and top sustainability, at a **lower cost**

# 02 Increasing your sales

Problems & Solutions



**Cutting-Edge Innovation** That Creates Value

# Problems

Thriving in a complex economic landscape



## ***A recession reducing sales with growing costs***

- Average 5% drop in eyewear sales in 2024
- Increments in shipping (2x), labor (5%), and import costs (10% in USA) 2023-25

## ***A highly competitive market with tighter margins and growing sustainable regulations***

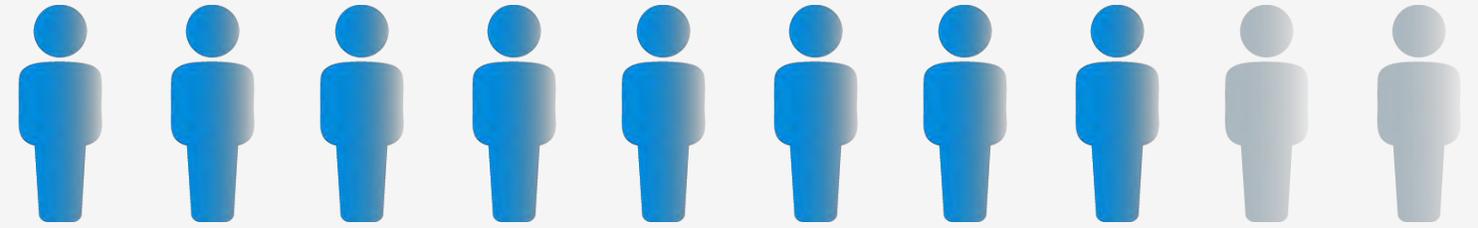
- Relying on the same materials and producing nearly identical products
- Eyewear became a commodity that pushes price competition

*Companies must innovate to differentiate themselves and create value to succeed in this challenging market. But there are limited means to do it*



## GROWING DEMAND FOR SUSTAINABILITY

80%



Of consumers indicate sustainability is important to them

70%



Of those would pay a **35% premium**

Consumer who care about sustainability are willing to pay a **35% premium**

\*Market research from IBM



## THE RISE OF THE SUSTAINABLE ECONOMY

Sustainable fashion is **growing ~\$3.6B per year**



Annual Growth  
Rate: **22.9%\***

vs 3% from global fashion

*\*Yahoo Finance*

Driven by **increased consumer demand** and regulatory pressure.

Market data compiled from [Fashion World](#), [BCG](#), [Yahoo Finance](#), [PwC](#).

# Solution

Turning 11M tons of ocean waste into an opportunity



## REGENESIS SOLUTION **FOR YOUR BUSINESS**



**Become circular and regenerative**

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**Cut CO<sub>2</sub> emissions and become net-zero**

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Our materials and supply chain aim at 80% reduction



**Reduce plastic footprint and costs**

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Replacing virgin plastics at a lower cost



**Innovate to increase sales**

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Giving you the tools to introduce something new to your customers

By using our materials, brands can **achieve net-zero, increase their sales, and improve the margins**



## SUPPLYING THE SUSTAINABILITY GAP

Projected supply and demand of global fashion materials **across all sectors**  
(millions of tons)

**5x gap**



Demand for Sustainable Raw Materials Could Exceed Supply by **133 Million Tons by 2030**

[\(BCG Report, 2023\)](#)

We are creating our large scale sustainable supply chain to satisfy the demand

**"Solutions derived from principles  
of circular and regenerative  
economies are poised to unlock **over**  
**\$10T** in global business inside  
this decade"**



# 03 Becoming Net-Zero

Set & reach sustainable objectives



**Staying Ahead of Competition and Avoiding Greenwashing Claims by  
Achieving your Sustainability Goals**

# Problems



The fashion industry generates **~40% of all new plastic** and **~10% of all greenhouse emissions in the world\***

Consumer demand for more environmentally friendly products is accelerating but the current linear supply chains cannot provide them.



EXTRACT



PRODUCE



USE



DISCARD



POLLUTE



The eyewear industry creates



~17M kg (37M lbs) of plastic per year



~250,000 tonnes of CO<sub>2</sub> per year

## ECOLOGICAL THREATS

Plastic Pollution and Climate Change are destroying our planet at accelerated rates



We lost **70% of all vertebrates** on the planet in the last 50 years



**50% of the world's coral reefs** have died in the last 30 years due to warming oceans



LA fires have burned **12,000 houses** and **generated \$135B in losses**

# Our Solution



## OUR CIRCULAR MODEL



### Rethinking

waste as a resource

### Reshaping

it through advanced plastic engineering

### Regenerating

our planet as a result

80% carbon footprint reduction  
(\*in progress)

# Beyond Sustainable



## REGENERATIVE MATERIALS

What makes it “regenerative”?

**Sustainability** (sustains)

*“Meeting the needs of the present without compromising the future”*

- Resources Efficiency
- Maintain Balance
- Preventive

VS.

**Regeneration** (repairs)

*“The process of restoring and revitalizing the health of ecosystems”*

- Restorative Action
- Positive Impact
- Renewable Systems

# Regenerative



## IMPACT PROGRAM



We collect **1kg** of plastic waste from mangroves and rivers **per frame you buy**

### Available add-ons



1 Pair  
=  
Plant 1  
Mangrove  
tree



1 Pair  
=  
Plant  
1 Coral



Become regenerative and offset remaining emissions to achieve net-zero

# 04 Our technology and materials

Benefits from our cutting-edge innovations



**3 Years of R&D and thousands of customer insights**

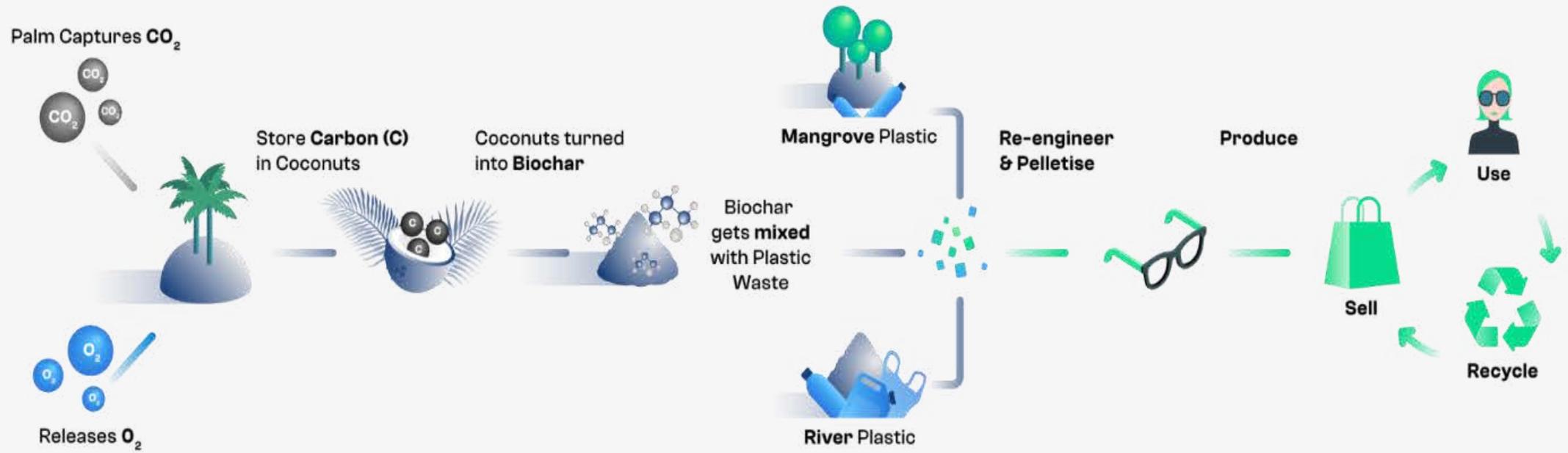
# Problem



Existing solutions are not fully sustainable and they lack novelty

# Solution

Our carbon capture technology: **ECOFUSION™**



Eyewear that captures CO<sub>2</sub>

# Our EcoFusion™ Technology



**Cleans  
The Planet**



**Eliminates  
New Plastic**



**Captures  
Carbon Emissions**

Working to cut emissions by ~80% at a lower cost than virgin materials



# Our materials

## CARBONITE™

- Engineered for sports frames
- Unbreakable
- 95% recycled content



**CARBONITE™**

**Nanocomposite with recycled carbon fiber** and graphene rivaling premium sport sunglasses standards.

# Our materials

## OCEANTATE™

M

- Engineered for fashion frames
- Higher density
- A recycled alternative to acetate with 80% lower carbon footprint



OCEANTATE™

A sustainable alternative  
to traditional acetate

# Our materials

## AEROLITE™

M

- Engineered for optical frames
- Ultra lightweight
- First aerogel composite for eyewear in the world



**AEROLITE™**

Ultra-lightweight material using  
aerogel for unmatched comfort  
and lightness

# Our team



- PhD in Nanotechnology
- PhD in Environmental Science
- Masters in Plastic Technology
- Materials Engineer from McGill University
- Scientist consultants from Singapore universities (NTU, NUS), and Holland



**JOIN US!**

**With **REGENESIS**  
we can make it happen!**

Grow sales, reduce costs, and **regenerate the planet.**



**REGENESIS**

Recycled materials for net-zero eyewear

# Q&A Session

**Rethink. Reshape. Regenerate.**

High-Performance, net-zero eyewear materials  
made with recycled plastic waste collected from nature.