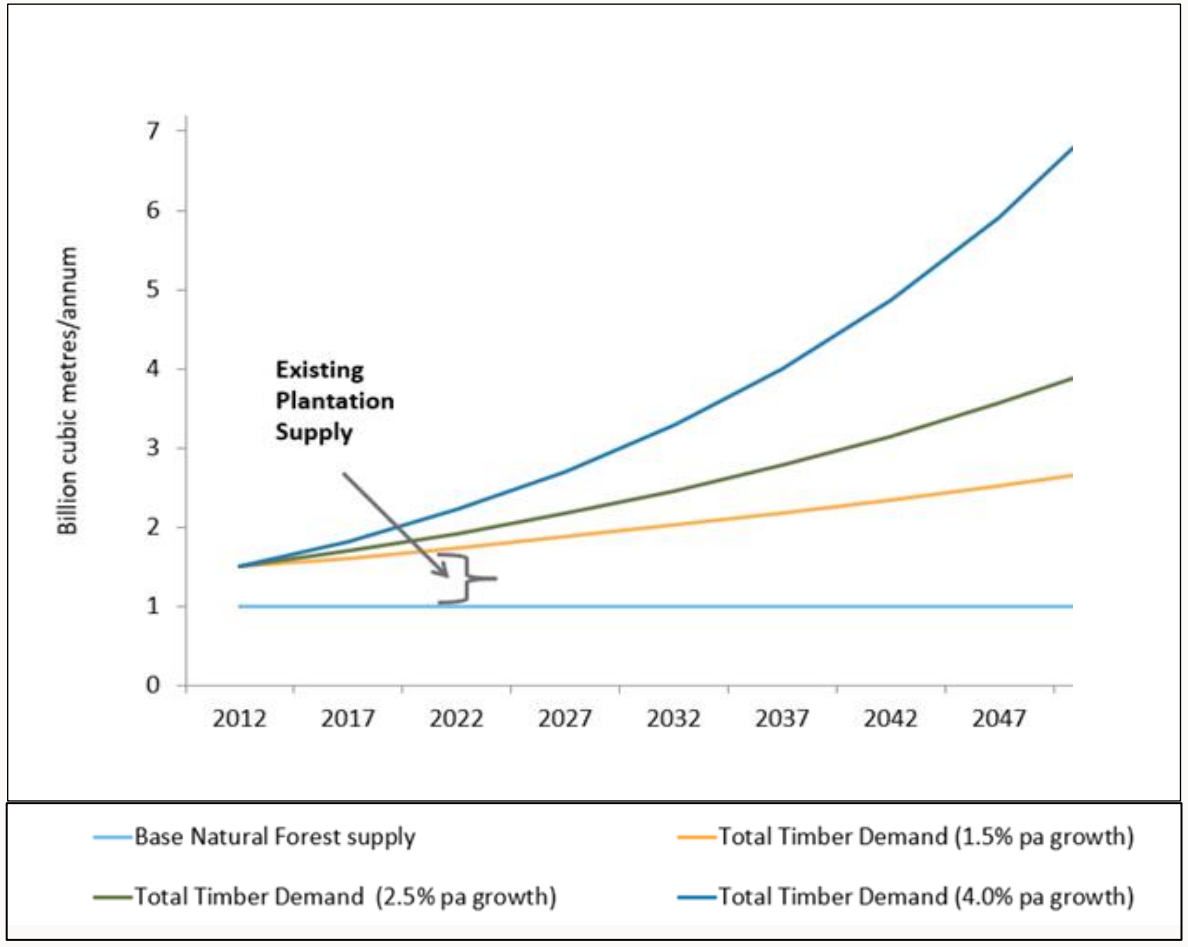
Circular11

Low-Carbon Materials.
From Waste.
For Good.

The Under-Supply Problem

Timber demand will outstrip supply three times over by 2050, whilst preservative bans are destroying durability.



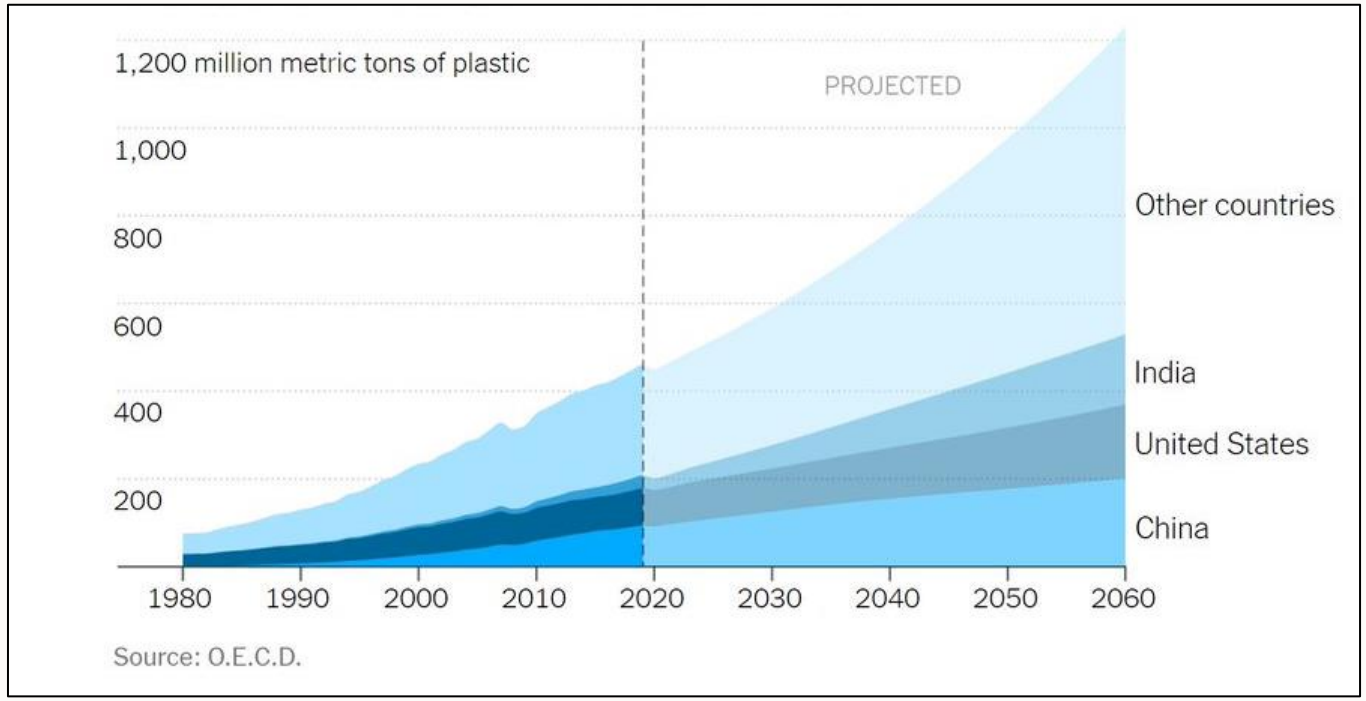
Demand Will Exceed Supply: Low-Carbon Alternatives are Needed

Potential Plantation Supply is Limited by Slow Growth and Increased Risks of Fire

Since the EU banned CCA/arsenic wood preservatives, timber lifespan has collapsed from 25 years to 2-10.

The Over-Supply Problem

Globally, 88% of plastic goes to waste, whilst production will triple in volume by 2060. A majority will be incinerated



Wealthy countries incinerate more than half of their plastic in a process more carbon intensive than coal-production.

For the Global South, 30-40% of people have to openly burn plastic, releasing particles 2200x stronger than CO2.

Most of this goes to waste because it cannot be separated into pure polymers, or cannot be reused in the same application.

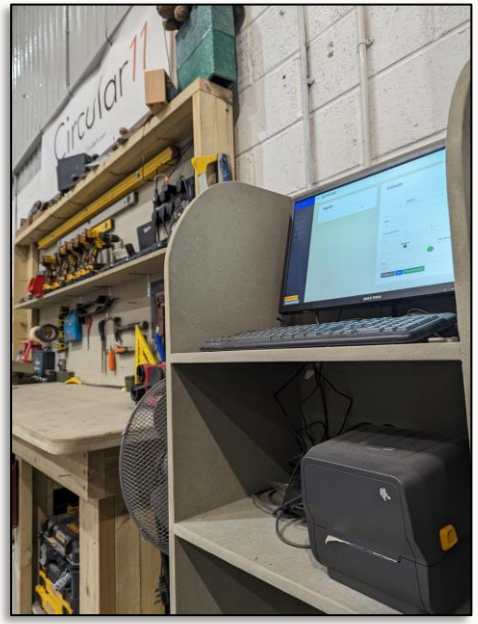
Our Process

We turn low-grade plastics into low-carbon materials for use in infrastructure.

UK Patent Application No: 2301520.9

1.

We chemically profile our waste, and feed that data into our machine learning models.



2.

This calculates the perfect ratio of components like natural fibres, which we compound in to enhance performance.

3.

We extrude this blend into plastic lumber, which we then make into finished products.

The Product

Our materials combine the durability of traditional plastics with market-leading environmental performance.

We capitalise on the natural qualities of plastic by using it where it's meant to last, whilst our technology enables market-leading environmental performance.

- 3-5x Lifespan
- Timber Feel
- Zero Rot
- Zero Splintering
- Zero Maintenance

Net Zero

Our supply chain directly diverts carbon emissions from plastic incineration

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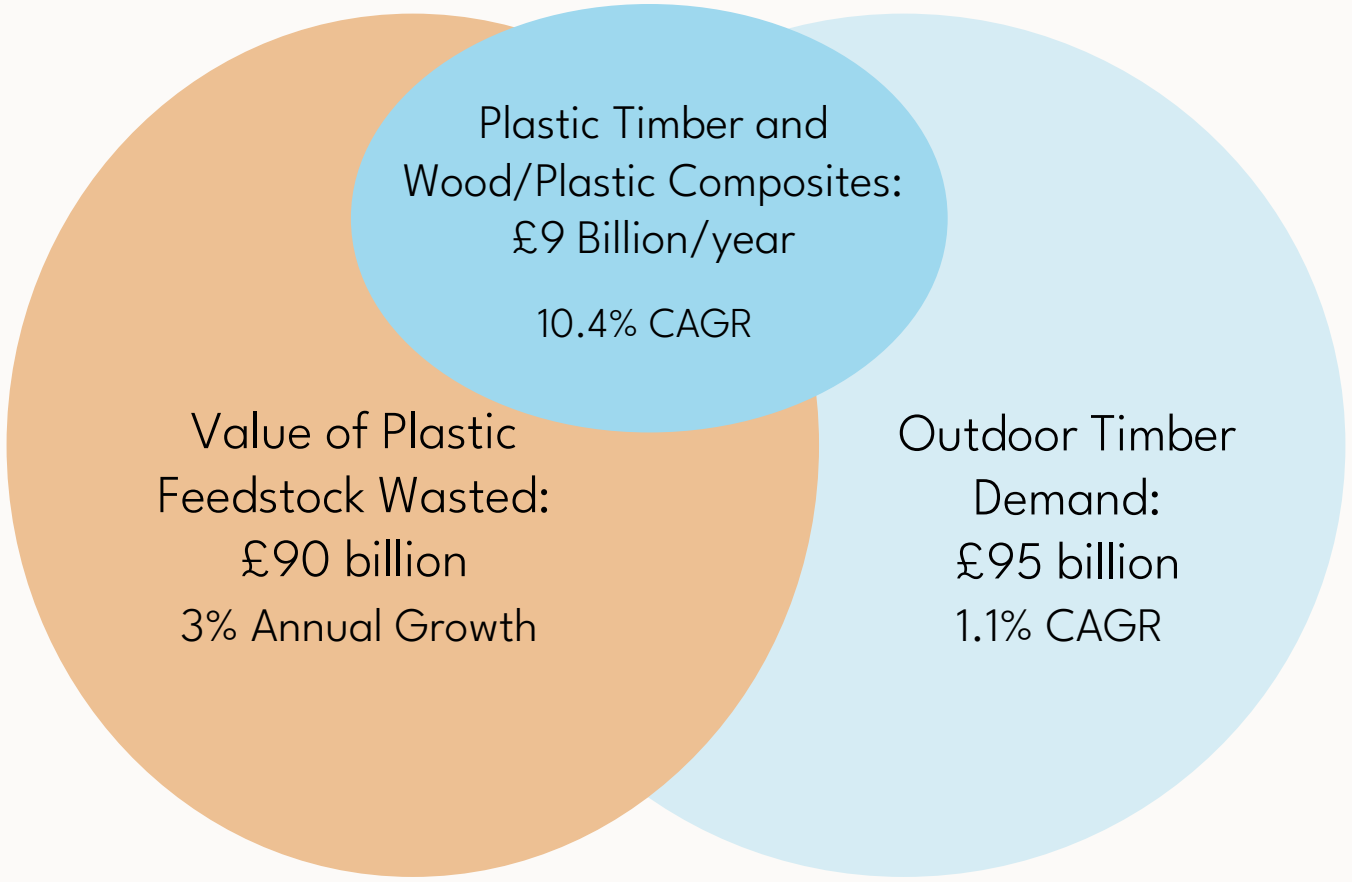
We deploy reverse logistics to recycle all of our own products and our competitors.

Traceable

Product EPDs and reports integrate with carbon reduction targets and ISO 14001.

Market Size

Our Technology Unlocks Vast Feedstock Markets By Connecting Them With Equally Vast Timber Markets



Customer Traction

We Are Scaling Up in Response to Rapid Demand and Can Design New Products for Any Sector or Need.

Sales Contracts Delivered with Major UK Partners - £40k/month with month-on-month growth:

national highways

WOODLAND TRUST

WEMBLEY

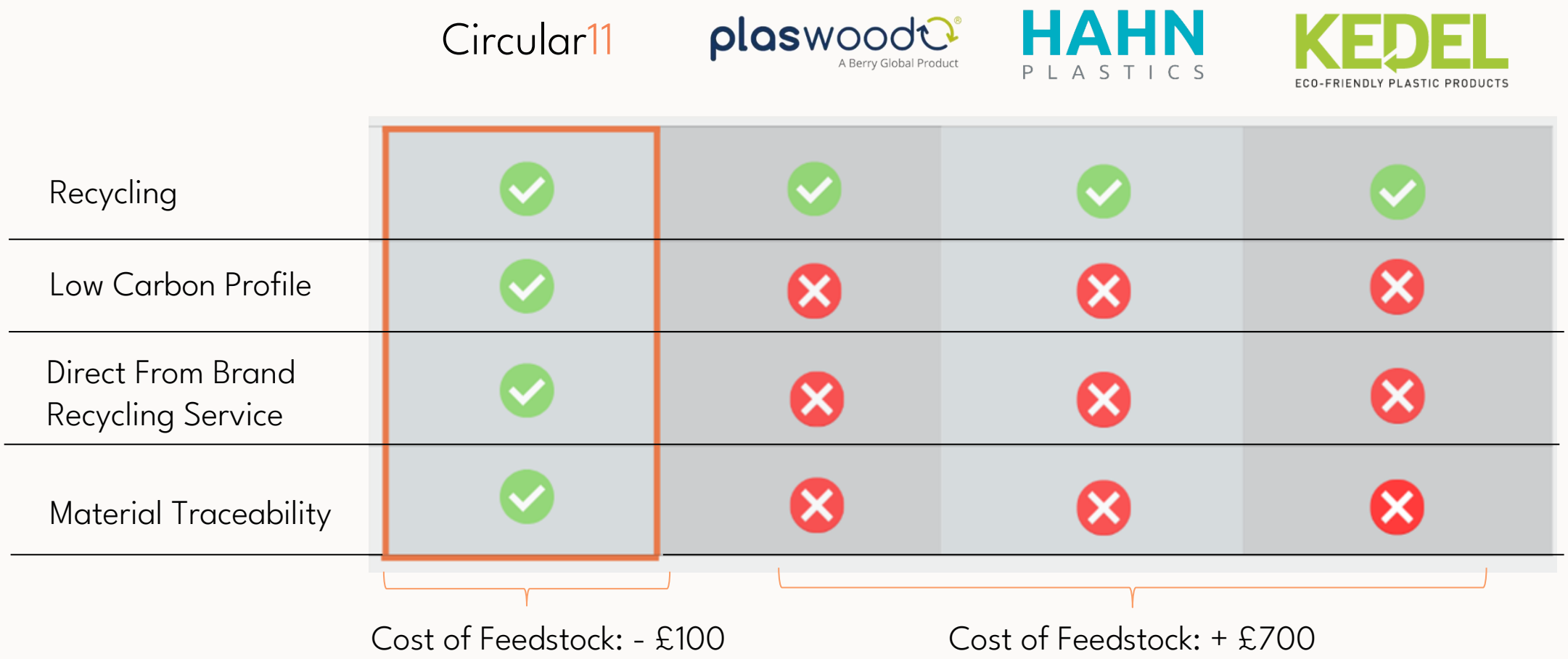
Expansion into Europe Planned through In-Person Talks with European Multi-Nationals:

mundys
Improve moving life

eni

Competitor Differentiation

The Market is Ready, but Competitors are Locked into Expensive Supplies and Lack Environmental Impact.



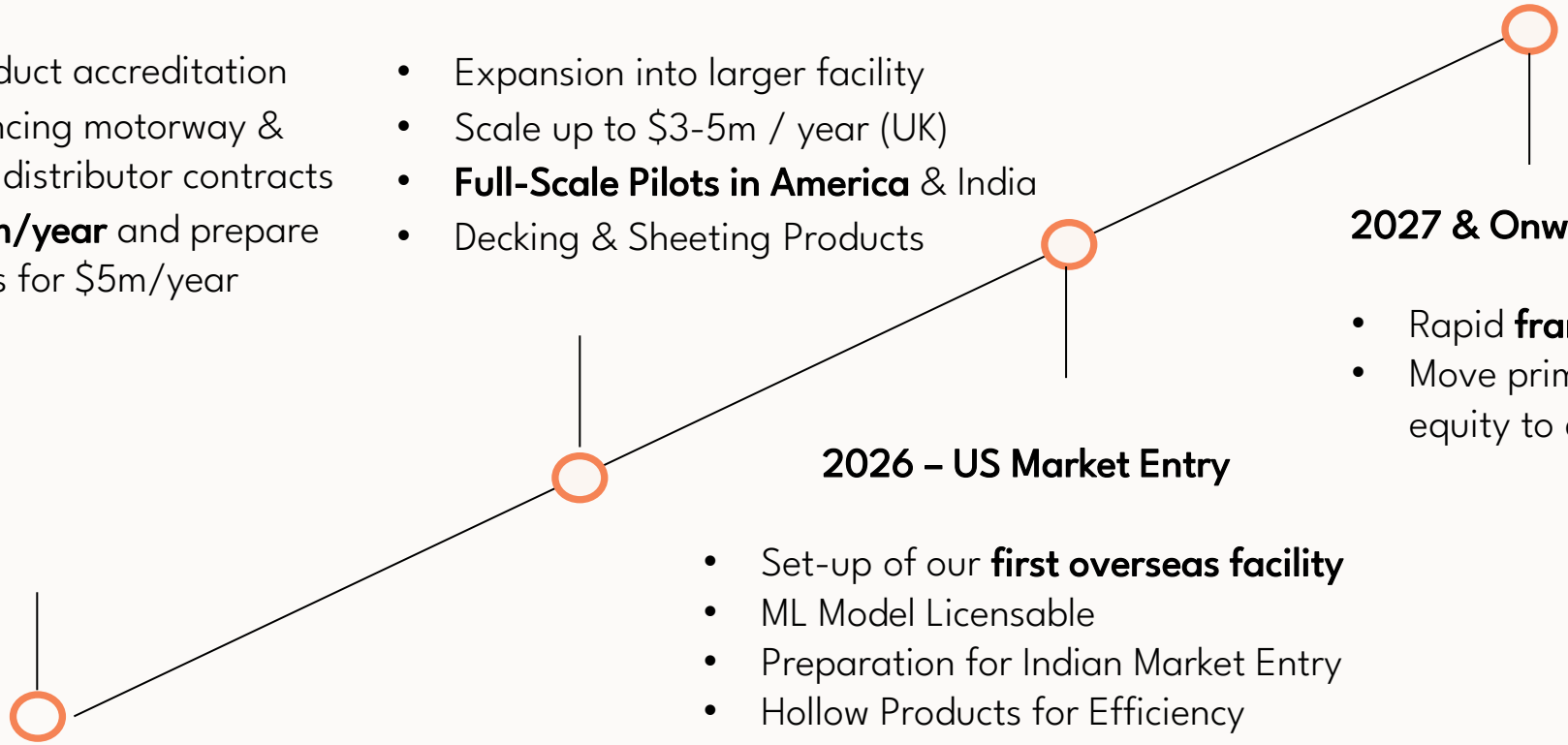
We will validate unit economics in a $5 million/year production facility, and then replicate in other markets

2024 – Growth Foundation

- Finish product accreditation
- Secure fencing motorway & wholesale distributor contracts
- **Reach $1m/year** and prepare operations for $5m/year

2025 – Validation of Ops at Scale

- Expansion into larger facility
- Scale up to $3-5m / year (UK)
- **Full-Scale Pilots in America** & India
- Decking & Sheeting Products



2026 – US Market Entry

- Set-up of our **first overseas facility**
- ML Model Licensable
- Preparation for Indian Market Entry
- Hollow Products for Efficiency

2027 & Onwards

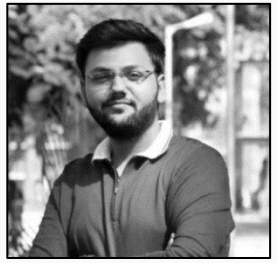
- Rapid **franchising**
- Move primarily from equity to debt financing

Founding Team

Resourceful, Resilient, and a Proven Ability to Commercialise and Execute on Vision

Connor Winter – COO
7 Years in Property Development, Construction, and Joinery

Benjamin Gibbons - CEO
Project Manager for NGOs; Tutor at the University of Oxford



Chirag Ratwani – Polymer Engineer
PhD in Material Science, Nanomaterial Specialist

Poppy Macken, Belinda Kelly, Jack Westwood, and Alvarni Sanchez
Workshop Technicians & Production Managers

Our Mission & Eight Impact Areas:

We are on a mission to convert the billion tonnes of annual expected plastic waste into a supply of net-zero materials that enables regenerative growth for every community on the planet.

Regenerate Material

1. We focus on transforming negative-value materials that otherwise would have gone to incineration.

2. We take back and restore the value of our own materials when they are no longer needed.

Decarbonise Infrastructure

3. We directly divert upstream emissions from plastic incineration.

4. We will power our operations through renewables, invest heavily in a near-zero scope 1 & 2, and select our components through carbon analysis

Benefit Local

5. We enable staff to thrive, sponsor local events, and educate in our community.

6. We offset residual emissions through local habitat restoration.

Scale to the Need

7. We focus our growth plans in areas that openly burn or dump their waste

8. We advocate for systems-change, from production practices to policy

Contact Us

Help us make plastic the most valued material in the 21st Century.

Circular11

Email ben@circular11.com
Visit www.circular11.com