



World's First Super Cooling **Carbon** **Capture Solution.**

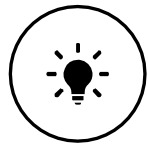
Direct Air Capture & Clean Energy

www.atmosfuture.co.uk



Our Vision

Taking Direct Air Capture **(DAC)** and Carbon Capture Utilisation & Storage **(CCUS)** to the next level:



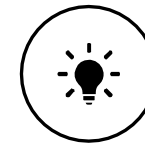
Reverse

the impacts of climate change
using our proprietary
technology. We aim to bring
down the global temperatures



Provide

a solution for users to
affordably decarbonise
their operations affordably



Leave a sustainable

Future for generations to
come and scrub the
atmosphere of pollutants



Decarbonising isn't economical for many industries

Direct Air Capture (DAC) has high CapEx & OpEx due to the equipment used and reliance on external power sources.

Hard-to-abate Co₂ industries would find it difficult to adopt the technology, though it would be one of the most suited carbon capture solutions for them.



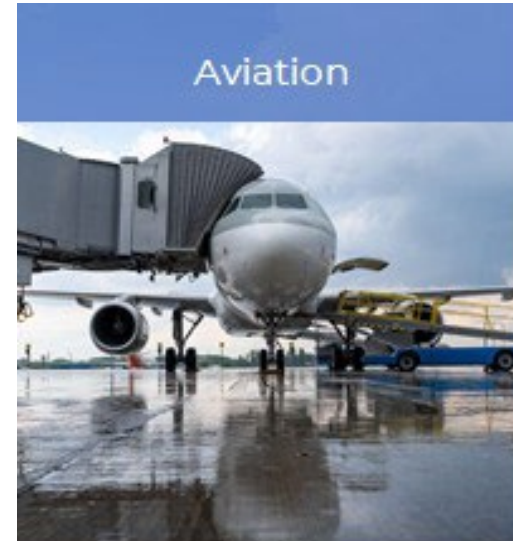
Energy Intensive

Power requirements don't allow businesses to decarbonise easily.



Cost

Abatement costs approx. £500/T Co₂.
DAC credits approx. £800/T Co₂.



Aviation



Steel & Construction



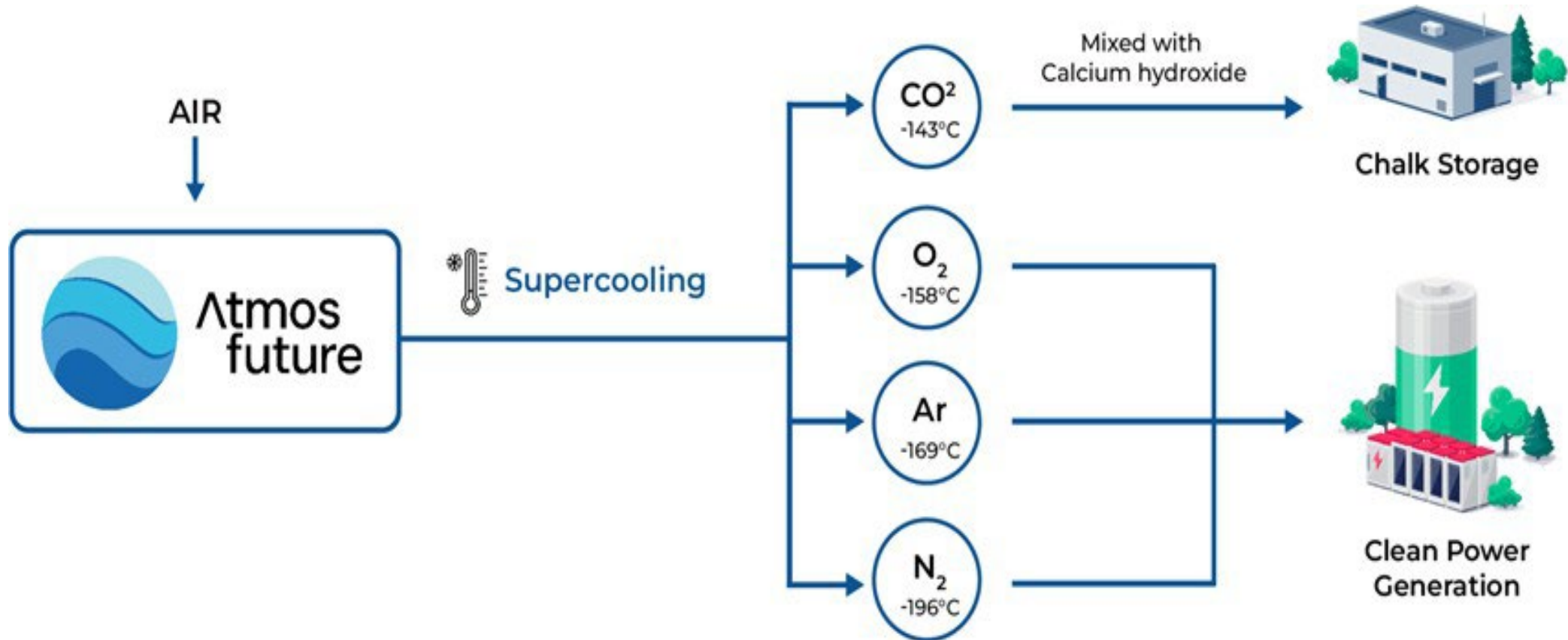
Marine



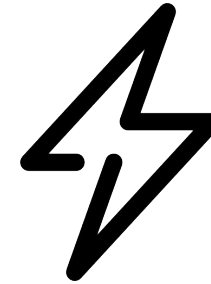
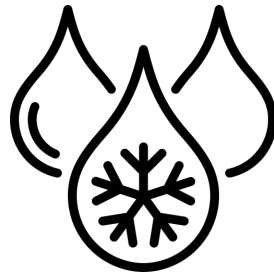
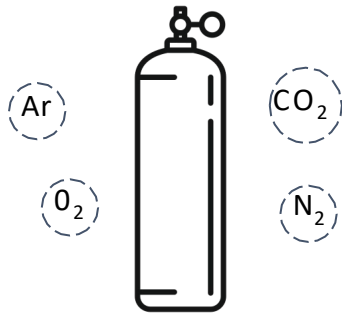
Energy

We supercool the air to capture carbon dioxide.

REVFRACT (Reverse Fractionation of Carbon Capture) is a patented Energy Positive Agnostic Direct Air Capture solution.



A novel method to capture CO_2 and generate clean power



Liquid Nitrogen supercools the air without the need to mechanical equipment

Different gases are split into constituents of the air

Liquid Air converts to power by absorbing thermal energy from the air and changing phase

A cost saving solution for customers



Scalability

Geographically agnostic. A modular system that captures 2000 tonnes per tower annually.



Cost Reductions

In-setting/Off-setting carbon emissions at £150 per T/Co₂. Half the price of the average carbon capture market and over 75% cheaper than current costs



Power Generation & Utilisation

Supply of 600 gWh per annum with up to 50% reduction on energy bills.
Profit share of exported energy.

The potential for Direct Air Capture



Total Addressable Market (TAM)

Global ETS (Energy Trading Systems) Market



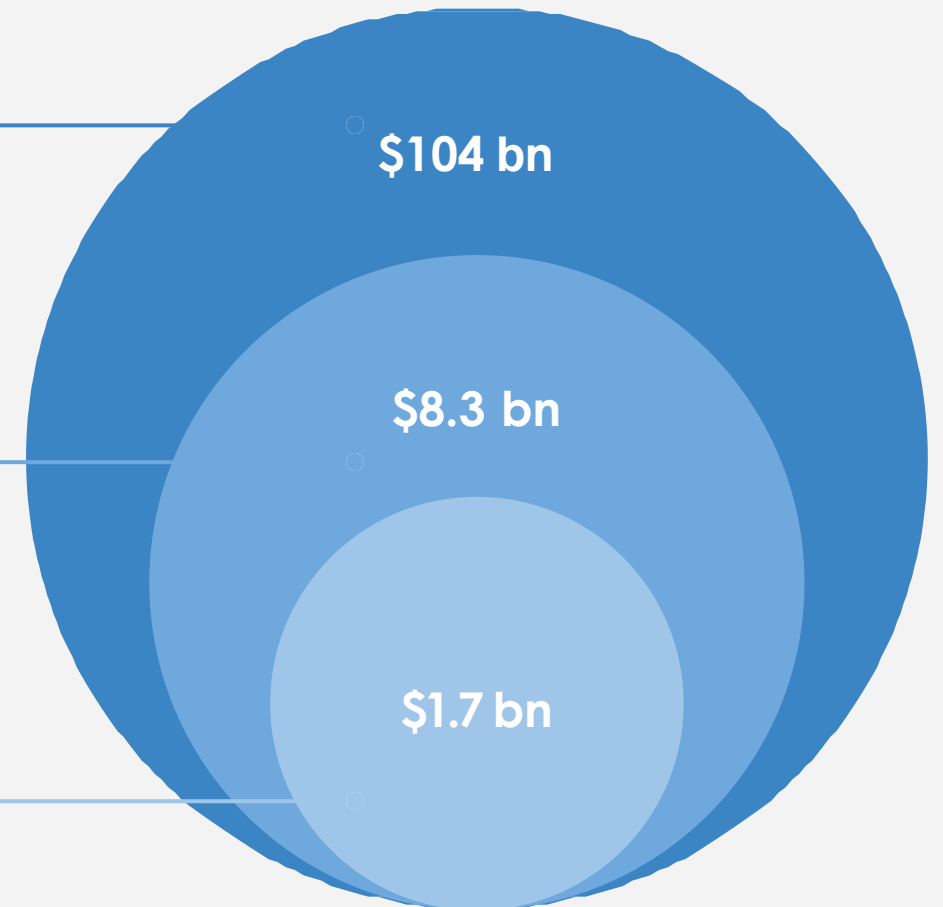
Serviceable Available Market (SAM)

EU ETS Combined Market based on 1.4bn MtCo2 2024



Serviceable Obtainable Market (SOM)

EU ETS Steel Industry Emissions based on 1.4m MtCo2 2024

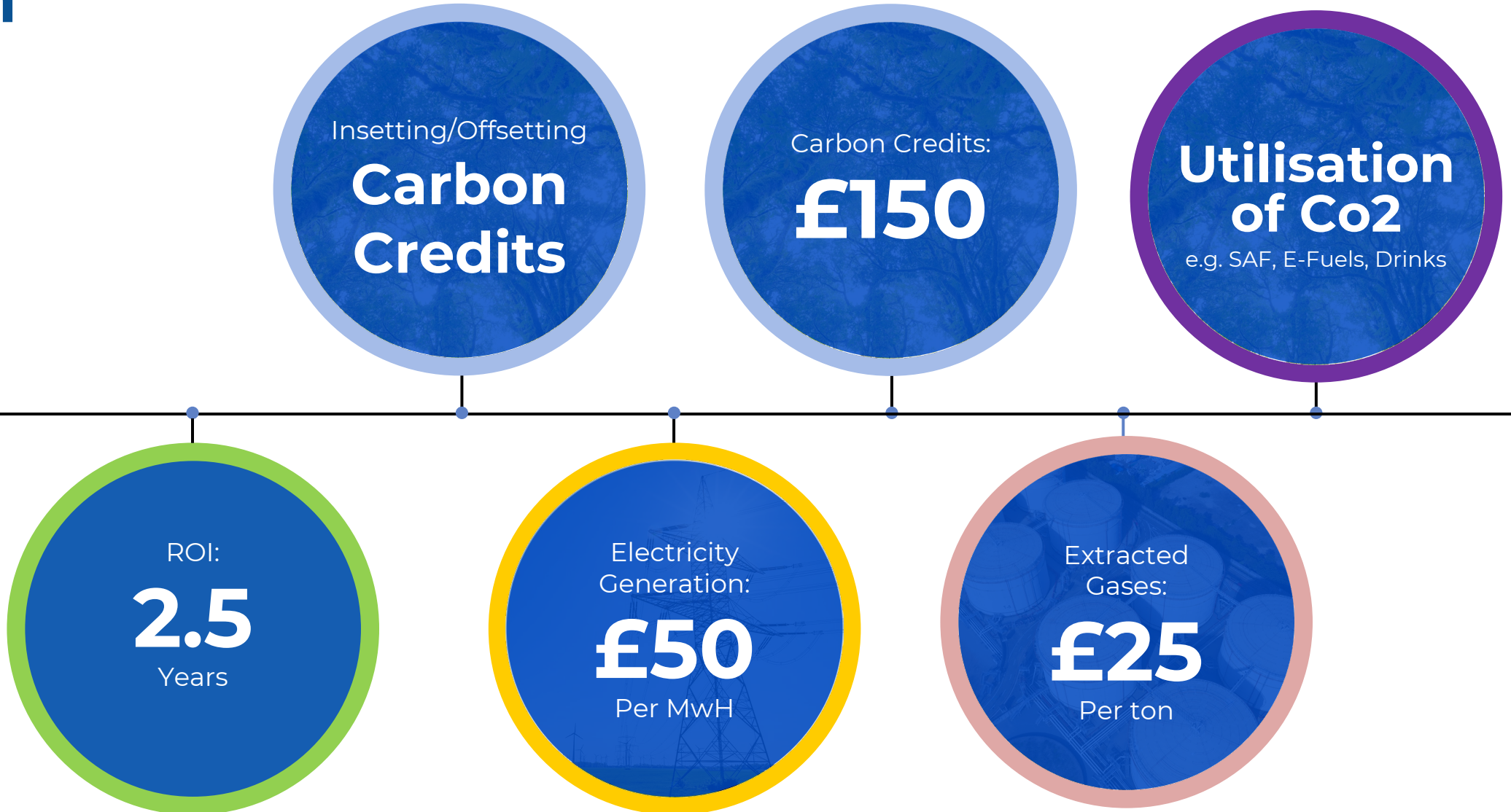


80% Cheaper, Scalable & Permanent Removal

Competitors main cost of capture is their use of fans. We reduce costs to **£30/ton** of CO₂ simply because there are no fans in our solution. Furthermore, we generate carbon-free power which is unique to other solutions.

	Reforestation/ Afforestation	BECCS	Soil Carbon	Carbon Mineralisation	Traditional DAC	Atmosfuture's REVFRACC
Low Cost	✓	⊗	✓	✓	⊗	✓
Modular	?	?	?	✓	✓	✓
Verifiable	⊗	✓	⊗	⊗	✓	✓
Scalable	✓	✓	✓	✓	✓	✓
Low Land Space	⊗	⊗	✓	⊗	⊗	✓
Permanent	⊗	✓	⊗	✓	✓	✓

Multiple Revenue Streams that don't rely on selling Carbon



We've proven it works

We have completed our proof of concept pilot where we have proven the following:

- Air is captured without the need for fans.
- CO₂ is extracted super cooling methods.
- Generation of clean power using our patented phase changing turbine. 1.8x was generated than consumed.

The Video of the pilot can be seen on: [REVFRACC Pilot](#)



Our first pilot project for sustainable aviation fuel

A collaborative project based in Orkney, Scotland to deploy a 4 tower pilot which will per annum:

- capture 3000/T Co₂
- supply 50,000 MWh

Project Partners



Our Team Gets Stuff Done



Vinny Patel - Co-Founder & CEO: Former director of an Energy company growing the company from nothing to circa £66m in 18 months. Experienced in project managing deployment of bespoke software to optimise operational and financial processes within companies.



Shamir Budhdeo - Co-Founder & CTO: Inventor & Serial Entrepreneur successfully developing renewable tech for over 10 years. Sam has a Solar invention that is seeing commercial success in multiple countries partnering with Governments and Corporates.



Daryna Radionova – Financial Board Advisor: investment banker with 15+ years of experience across M&A, debt advisory, capital structure analysis and financing. I have been involved with many new businesses, taking them to scale with innovative equity and debt financings.



Daniel Fernandes – Head of Engineering: Has 5+ years of experience in innovation and mechanical structural designs working with the like of Ion Exchange Ltd. He has technical expertise in mass manufacturing and rapid prototyping methods and disruptive technologies.



Pallavi Mane - Technical Analyst: Vast experience in building and maintaining supply chain activities. She is primarily responsible for sourcing and procuring the right material vendors for the Engineering Team.

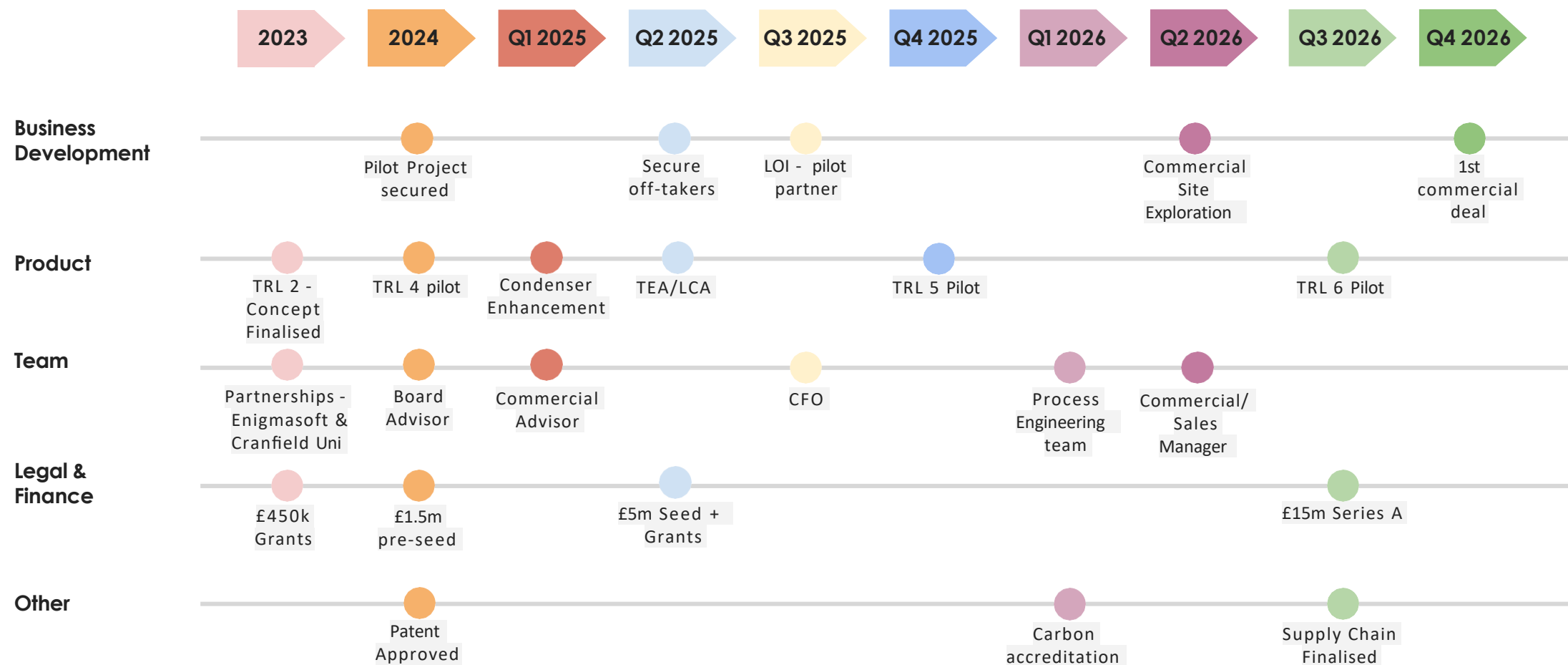
Tech & Development Partners



Commercial & Strategic Partners

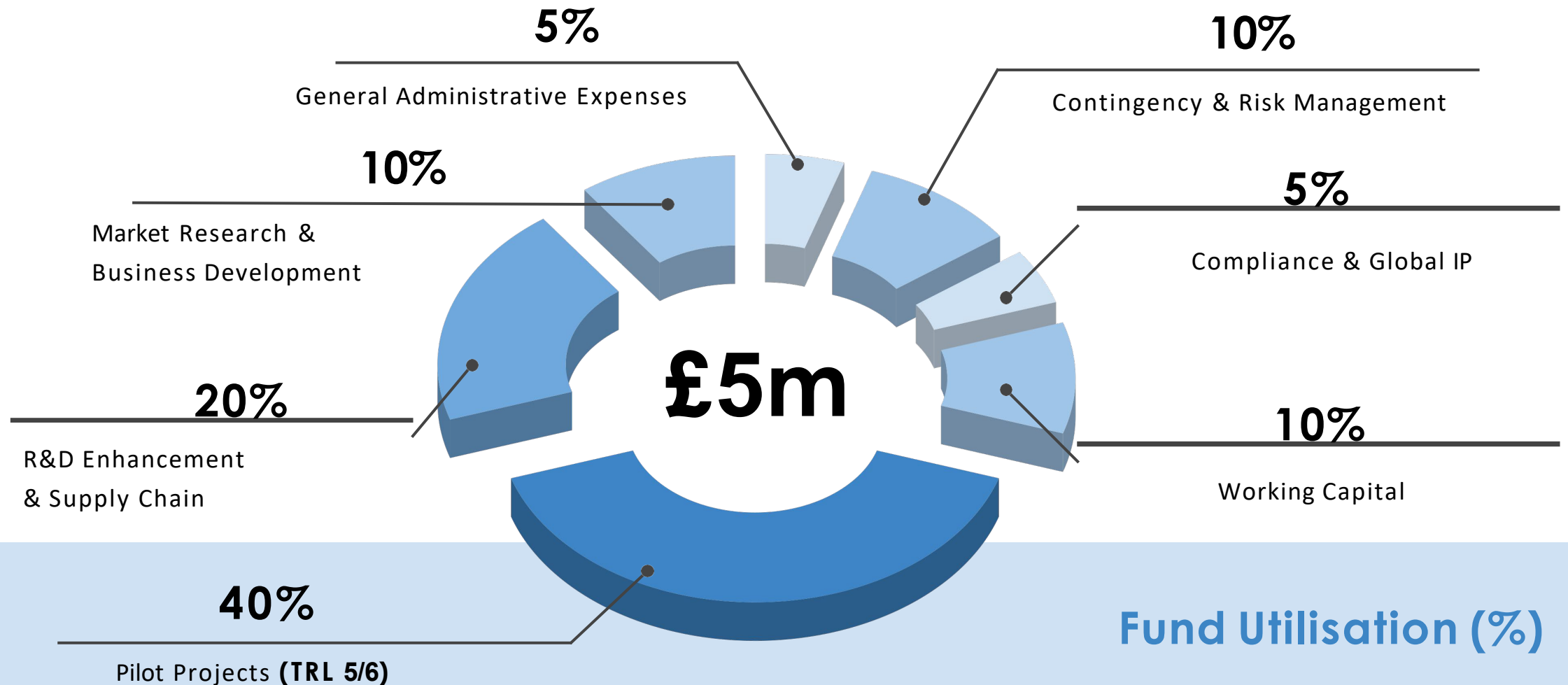


We've achieved these pieces of traction and this is our roadmap

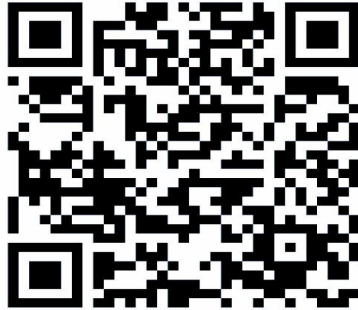


Our Ask

The company is **SEIS** and **EIS** approved. We successfully raised **£1.5m** in pre-seed and £200k in grants.



Contact



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🌐 www.atmosfuture.co.uk

“Let’s Reverse Climate Change and create a circular economy, **Together!**”