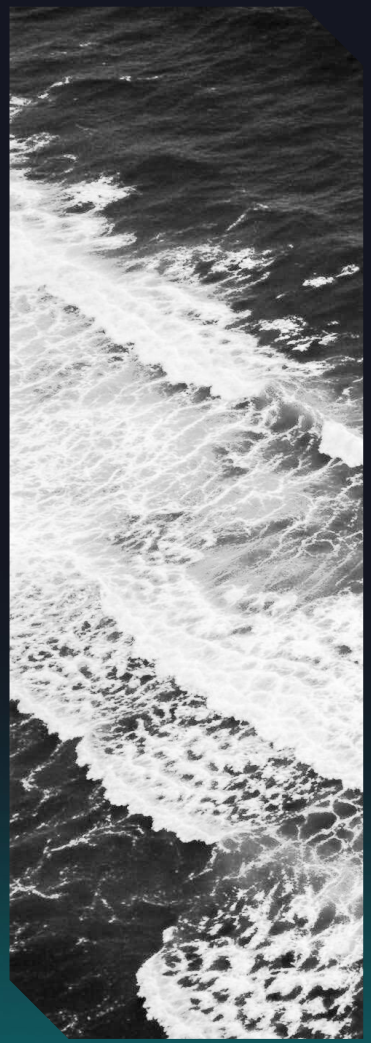
NAFURA

Industrial scale treatment in 1000th the footprint, and half the cost

March 2026



Coca-cola had a problem:

Wastewater management is limiting their production.
Their wastewater systems are costing them:

SPACE:	TIME:	MONEY:
• Wastewater systems take up to 30% of site. • They are unable to expand their footprint in urban areas.	• Systems are slow to treat and unable to respond to fluctuations • Complex and fragile processes require constant attention	• Traditional systems can't scale cost-effectively with production needs. • Reagents, repairs, and daily requirements add operational costs

THEY NEEDED A SOLUTION:

A reimagining of wastewater treatment from the ground up
- something **smaller, faster, and cheaper**

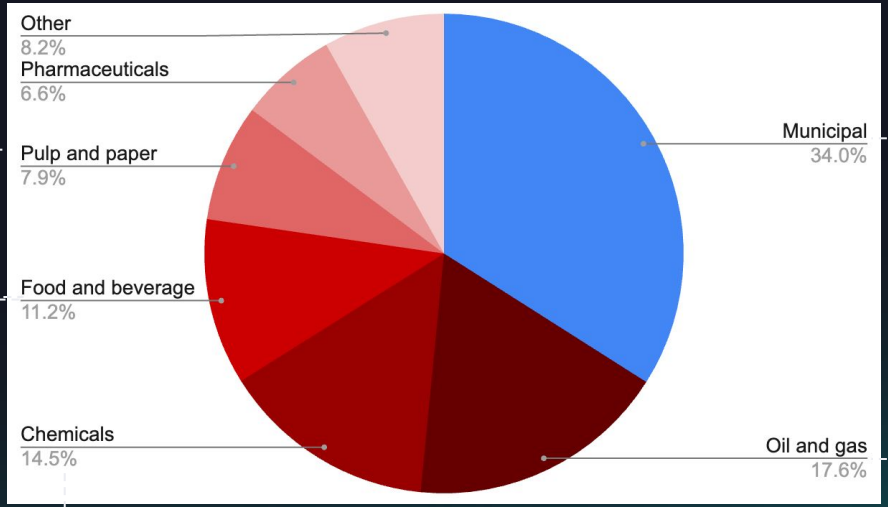
Coca-Cola isn't alone...

We spoke to 50+ companies, and the same frustrations kept appearing:

*"The factory has to be careful what they flush, our **system is fragile** and can be **damaged by certain substances**"*
- Company A, Pulp and Paper

*"Wastewater dictates production, if **we could discharge more** wastewater we would be **producing more** product"*
- Company E, Food and Beverage

*"We would **redesign** and **relocate our whole facility** if it meant it were easier to meet regulatory limits"*
- Company F, Dairy products



*"We are frustrated with costs of **maintenance, sludge** management, and treating effectively within our allotted **footprint**"*
- Company C, Chemicals

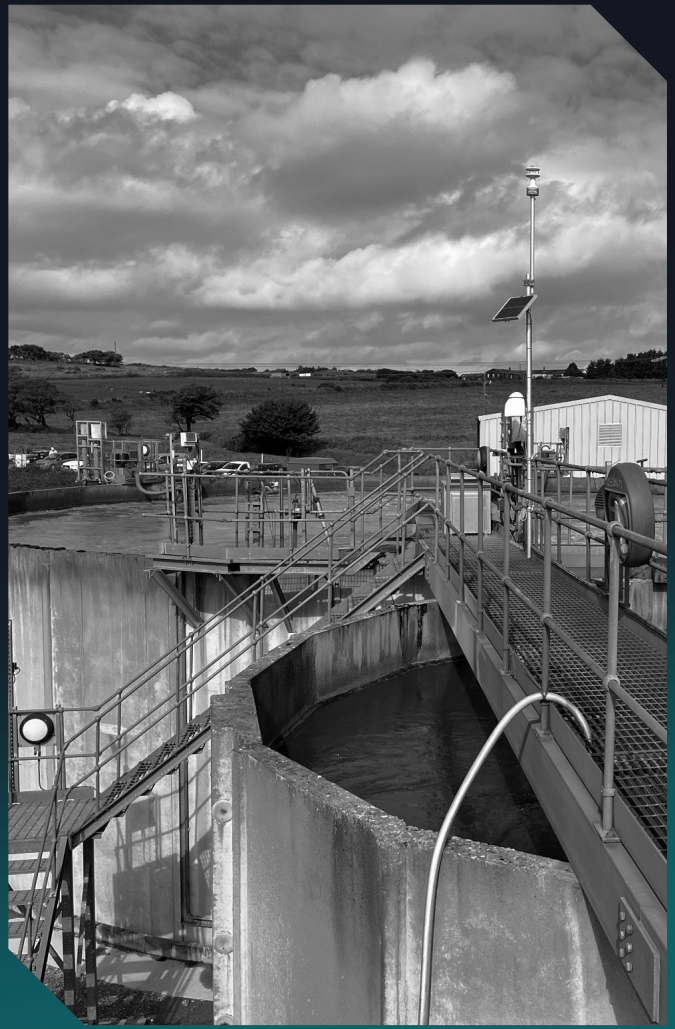
*"Treatment **capacity reached its limits**, and **we can't buy more land** so we can't expand operations further"*
- Company D, Utility and Sewerage

*"**No one locally has the knowledge** to work on our system, when it breaks **we need to fly experts in**"*
- Company B, Oil and Gas

The current standard is costing us:

TIME	**FRAGILE**	Sensitive to fluctuations
	SLOW	Weeks to treat
	LABORIOUS	Teams of trained staff
SPACE	**COMPLICATED**	20-30 stages / points of failure
	DEMANDING	Acres of land occupied
MONEY	**EXPENSIVE**	Multi-million dollar facilities
	ONEROUS	Constant maintenance
	DANGEROUS	Hazardous chemicals, gas, sludge

This isn't good enough.



How we got here:

The activated sludge process, developed in 1913

Multiple stages to target multiple contaminants:

DECOMPOSITION:	SEPARATION:
E.g. Microbes and oxidants • Slow, large footprint • Fragile	E.g. Filters / membranes • High maintenance • Sludge byproduct

Activated sludge has seen **incremental improvements** over time, but it's not enough...

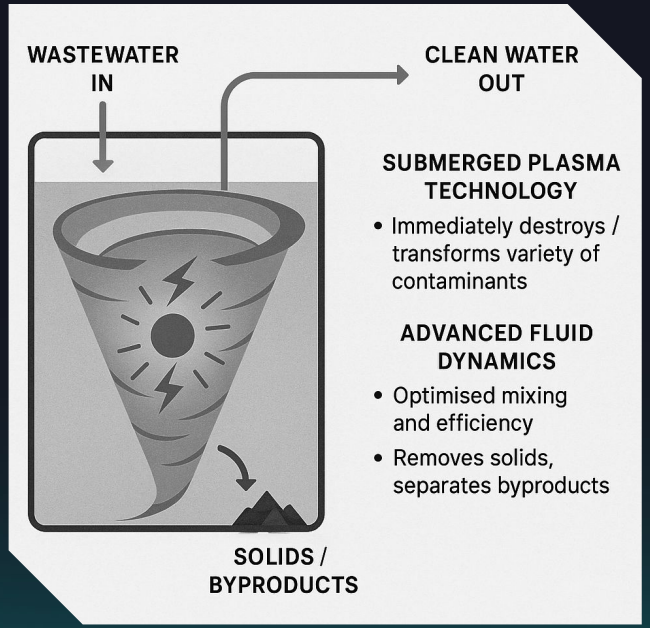
New technologies are emerging, but aren't solving the problem...

	TIME			SPACE		MONEY		
	Low maintenance: <48 hours downtime required for maintenance per year	**Fast:** Hydraulic retention time (HRT) target: HRT < 1 hour	**Flexible:** Handles ±50% variations in flow or contaminant load without issue or exceedance.	**Compact:** <0.1 acre footprint occupied per million litres	**Simple:** Compliant effluent achieved with ≤5 stages / points of failure	**Low CAPEX:** < $1 million build cost per million litres per day capacity	**Effective:** Consistently achieves >95% removal of BOD, COD, TSS	**Scalable:** No significant change in unit treatment cost or performance at different scales.
Activated Sludge	X	X	X	X	X	X	√	√
MBRs	X	X	X	X	X	X	√	√
AOPs	X	√	√	√	√	X	X	X
Electrocoagulation	X	√	√	√	√	√	X	X
SCWO	X	√	√	√	√	X	√	X
Bioelectrics	X	X	X	X	√	√	X	X
Algal treatment	X	X	X	X	X	√	X	X

New solutions are just propping up a broken system!

The solution: Nafura - An entirely new paradigm

High-capacity, compact treatment using scalable plasma

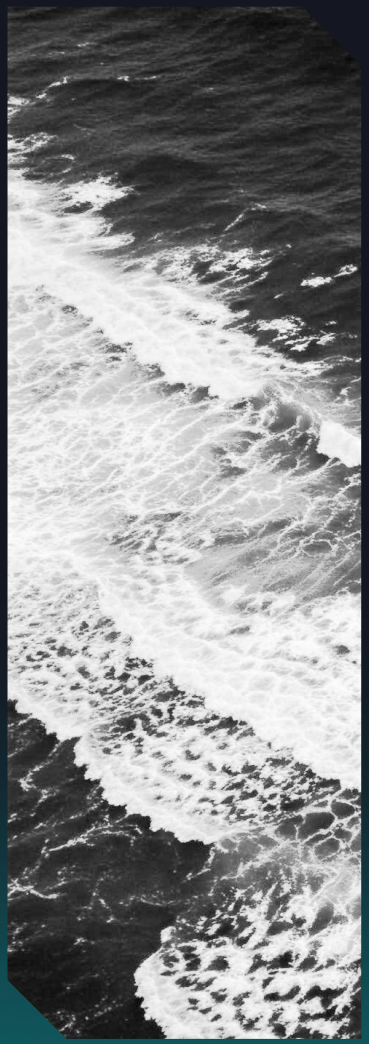


FASTER

SMALLER

CHEAPER

FAST (Near instant transformation)	**SIMPLE** (Single-stage, continuous flow)
LOW MAINTENANCE (Rare, easy maintenance)	**LOW COST** (50% less CAPEX and OPEX)
FLEXIBLE (Use whenever, wherever, however)	**EFFECTIVE** (Breaks any chemical bond)
COMPACT (A device, <2m^2 footprint)	**SCALABLE** (Microbreweries to refineries)



Simplify the entire wastewater process

The **NEW treatment process** might include...

1. Primary screening
2. ~~Sand filtration tank~~
3. ~~Coagulation~~
4. ~~Flocculation~~
5. ~~Settling tank~~
6. ~~Dissolved air floatation~~
7. ~~Skimming~~
8. ~~Pre-bio~~
9. ~~T~~
10. ~~Sludge~~
11. ~~Sludge dewatering e.g. centrifugation~~
12. ~~Sludge disposal by incineration / spreading~~
13. ~~Centrate recycling~~
14. ~~Membrane bioreactor filtration~~
15. ~~pH adjustment~~
16. ~~UV disinfection~~
17. Ultrafiltration
18. Reverse osmosis

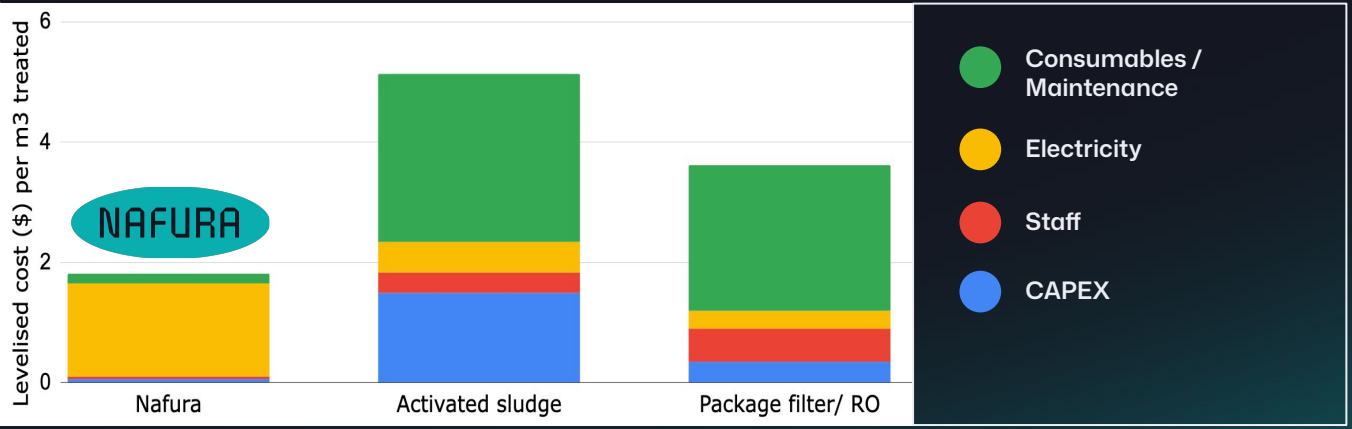
NAFURA

We broke the golden rule.

Higher energy used **Efficiently**, for **Lower** total cost.

Easy to operate / maintain, low OPEX

Easy to install, low CAPEX



50% less total levelized cost per unit of treatment
30% less emissions than standard treatment using grid electricity.

At global average price of electricity ($0.15 per kWh).. Electricity prices below average offer unmatched cost efficiency

†† Costs are for conservative FOAK product estimates; OPEX and CAPEX expected to improve over time

Foothold Markets:

Potential to tackle any industry!

> *"Companies are seeking smarter, more compact, and cost-efficient solutions that improve sludge dewatering, allow water reuse, and integrate easily with their existing footprint - all without risking compliance."*
>
> A.P. Mariani - Clarit Group

Primary target markets:

1. Chemical Industry
2. Food and Bev. Industry
3. Municipal / Utilities

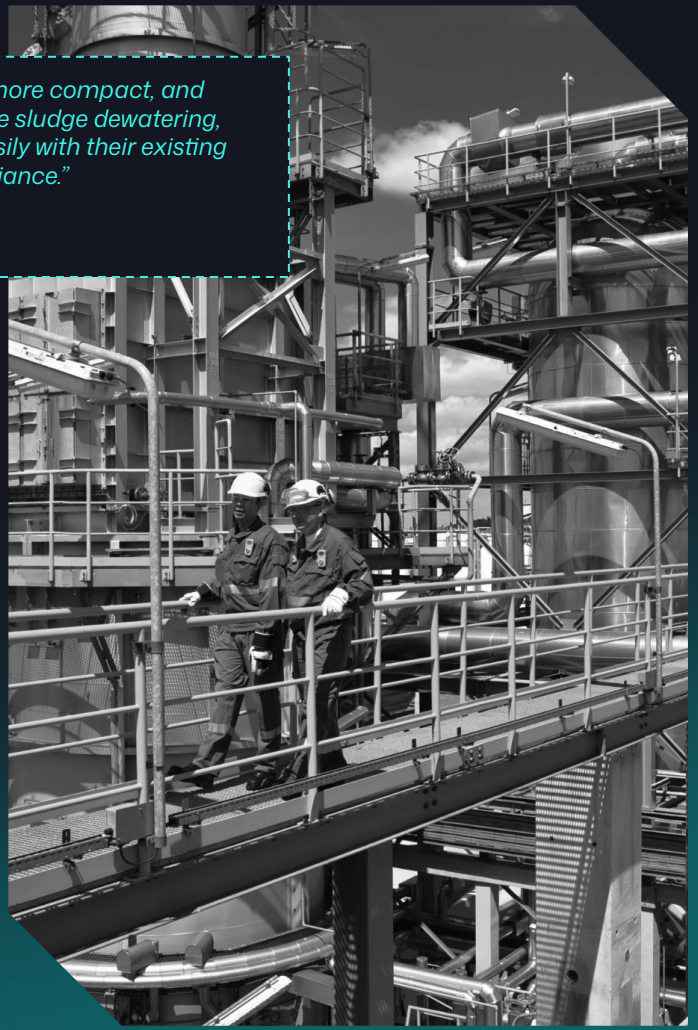
- Complex wastewater challenges
- Footprint constrained
- Regulatory pressures
- Large and growing markets

TAM = $300bn, SOM = $112bn, SAM = $3.6bn

We don't need to wait for our customers to replace their equipment.

Our beachhead: backup treatment.

We can increase production and throughput overnight with minimal friction!



How we make money:

Credibility in Stages: Samples to scale - Proving Value Step by Step

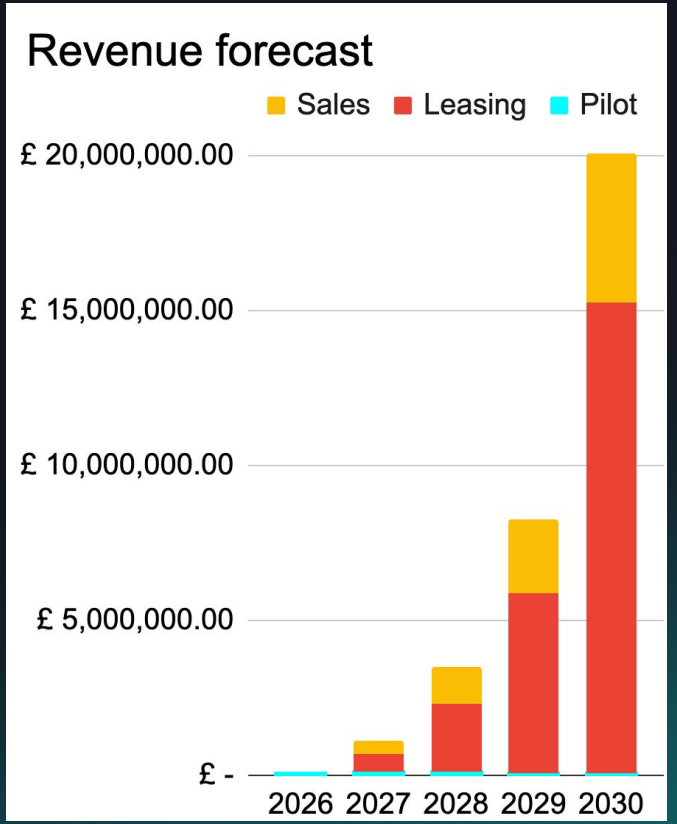
Value capture:

3 Revenue Streams...

1. Paid Pilots
2. **Leasing-as-a-Service** (Core business)
3. Direct Unit Sales (select cases)

Additional **Secondary** Potential Revenue Streams:

1. HAZMAT Disposal
2. CO2 Capture
3. Tailored Byproduct Harvesting



Unit economics at 1,000 m^3/d:

- Build cost **£70k**, Sale price **>£300k**
  70% margin
- 6-18 month payback on sales

Flexible operation, low OPEX, and real-time controls enable **Variable Lease Pricing**

Treatment as a Service

Up to **£17,500 per month** per unit

We are really getting traction...

In 5 months we achieved:

11 signed EOIs:

Coca-Cola Europacific Partners · Clarit Group · ITERO · BÜFA · Thames Water · Water Intelligence International · Pure Blue · Advanced Hydro · Zahnen Technik · FEYNLAB

Academic Interest and support

IPP Institute of Plasma Physics of the Czech Academy of Sciences · NHL Stenden University of Applied Sciences · University of Derby

Winner of the Water Council's 2025 Tech Challenge.
Runners-up in the TBAT Innovation Challenge 2025.

POC built: TRL0-4, <$2000, <4mo

Demo install agreed with Coca-Cola for H2 2026

> "This is perfect"
> - Industrial Technology Approval Group (iTAG)

> " This is a gamechanger"
> - Coca-Cola Europacific Partners

Technical milestones

Stage 1 Basic POC / Tech Feasibility:

- Single plasma source, circulating reactor
- **Stable plasma and fluid dynamics validated**
- Demonstrable reduction of:
  - Organics (Sugar / Dye / COD / Plastics)
  - Inorganics (Dissolved Cu / Al)
  - Microbiology (sterilization confirmed)

Stage 2 Slice Prototype (underway):

- Target: 150 m³/d at 5000 mg/L COD capacity
- Commercial trials in 2026 - reaching TRL 7/8

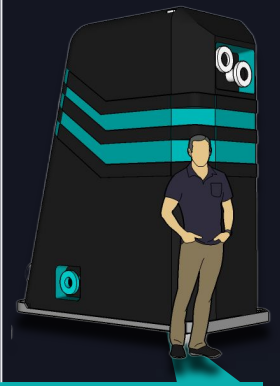
Scale-up and Validation

2026 H1
(Pre)seed raise, target £1.5M
Relocate and establish UK HQ

2026 H2
Demo Installs with CCEP + SmartParc:
- 100x capacity scale up (Target 150 m^3/d)
- Validate performance and target OPEX

2027
- Multiple pilots for early revenue.
- Target: £3-£5 / m^3) verified.

2028
Full-scale product deployment. (>1000m3/d capacity)



2028/29
Establish lease business model. Convert pilots to contracts

2030+
Scale business globally. Targeting :$10-20mil ARR, 100 customers

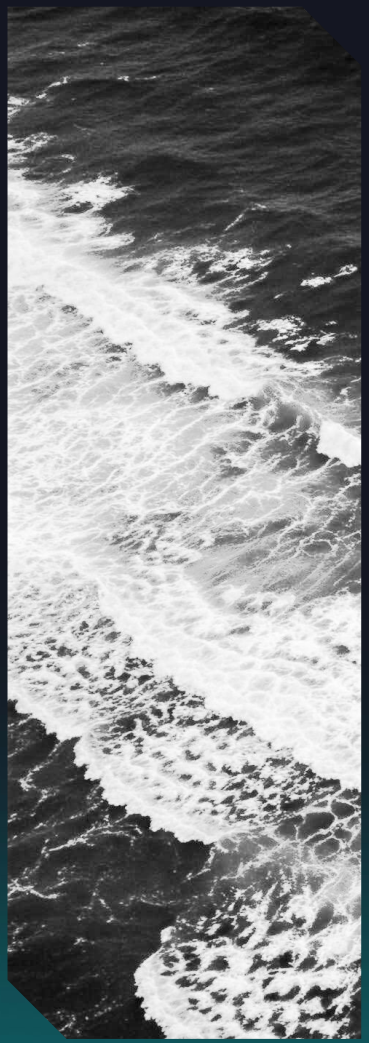
Our G2M:

Credibility ladder with customers:

1. **Feasibility** → Sample testing and demos
2. **Integration** → On-site trials
3. **Operation** → Paid Pilots
4. **Trust** → Long-term Contracts

Our Pipeline:

- **2 trial installations agreed**; CCEP and SmartParc
- **Waste samples inbound** from 3 clients
- **Enquiries for future pilots** from 5 multinationals
- **Active interest across 6 sectors**



The perfect team

Dr Harry Brooksbank
Founder and CEO

PhD in sustainable contaminant removal. Developed water solutions for $Billion projects (e.g., Hitachi Energy Dogger Bank, Simandou iron ore mine). Led crypto startup to $20M mcap.

harry.brooksbank@nafura.co.uk

E.M. 'Rion' Motley
Founder and CTO

Track record of product development. Barbco, MIT, DARPA, Orbital ATK. Most recent product development converted $1.5M/y line-item expense into $2M/y revenue stream.

rion.motley@nafura.co.uk

Aaron D. Harper
COO

Experienced C-Level manager and engineer working in process control for wastewater treatment systems. Developed tech for NASA, DARPA, USAF, and Ford.

aaron.harper@nafura.co.uk

Advisor support from:

Chris Thomas
Director of Strategy for Isle Utilities

Francesca O'Hanlon
Water Strategy Lead for CocaCola Europacific Partners

Alexander Fairhart
Water Tech Consultant / MD for Personal Water Systems

Graham Lea
Expert Process Engineer / Industrial WW consultant

Phil Coetzee
Accomplished CEO and Business Development consultant

Coca-Cola EUROPACIFIC PARTNERS

Deep Science Ventures

We can execute: 10 LOI'S, TRL 0 TO 4 IN <4 MONTHS

Current progress and raise details

Recent progress:

- **Workshop secured** in Derby
- Technology now **Patent Pending**
- **SmartParc trial agreed**
- UoD collaboration for **regional grant funding**

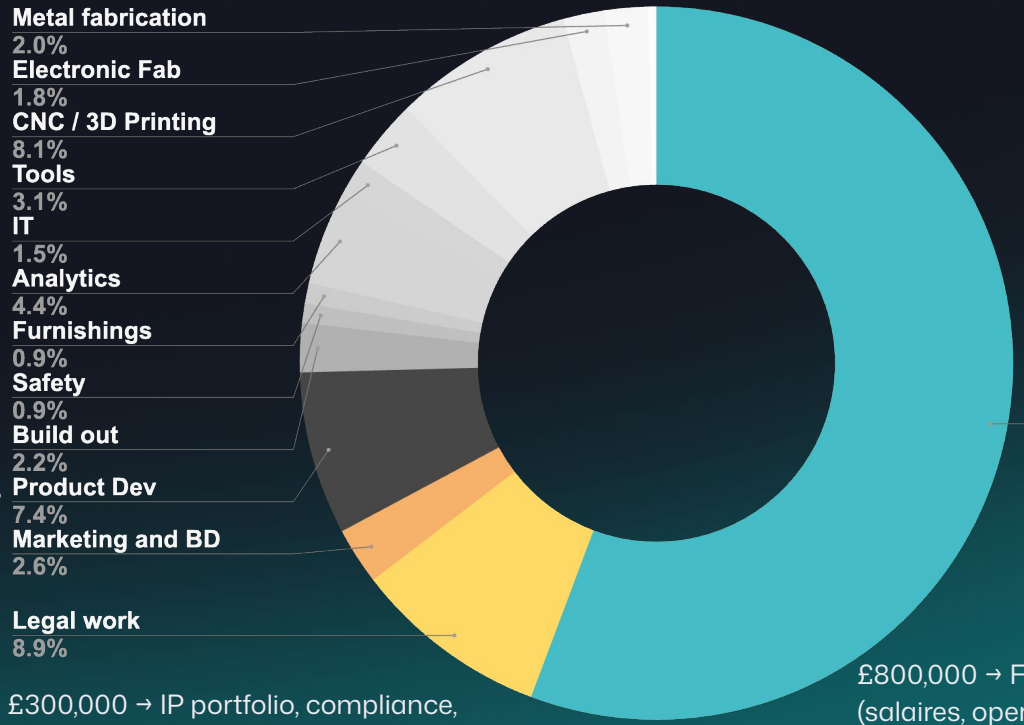
Current work:

- Applying for OFWAT grant
- Developing prototype for CCEP
- Visa applications for colocation
- **Raise investment**

The Raise:

- **£1.5M target**
- **Target close: May 2026**

£400,000 → Engineering scale-up.
Enables 2 years of pilots / trials.



£300,000 → IP portfolio, compliance, and brand growth.

£800,000 → Fixed costs (salaires, operations). Funds 21 months of runway.

NAFURA

Advanced Technologies

Nafura.co.uk

Harry Brooksbank
harry.brooksbank@nafura.co.uk

Rion Motley
rion.motley@nafura.co.uk

Aaron Harper
aaron.harper@nafura.co.uk