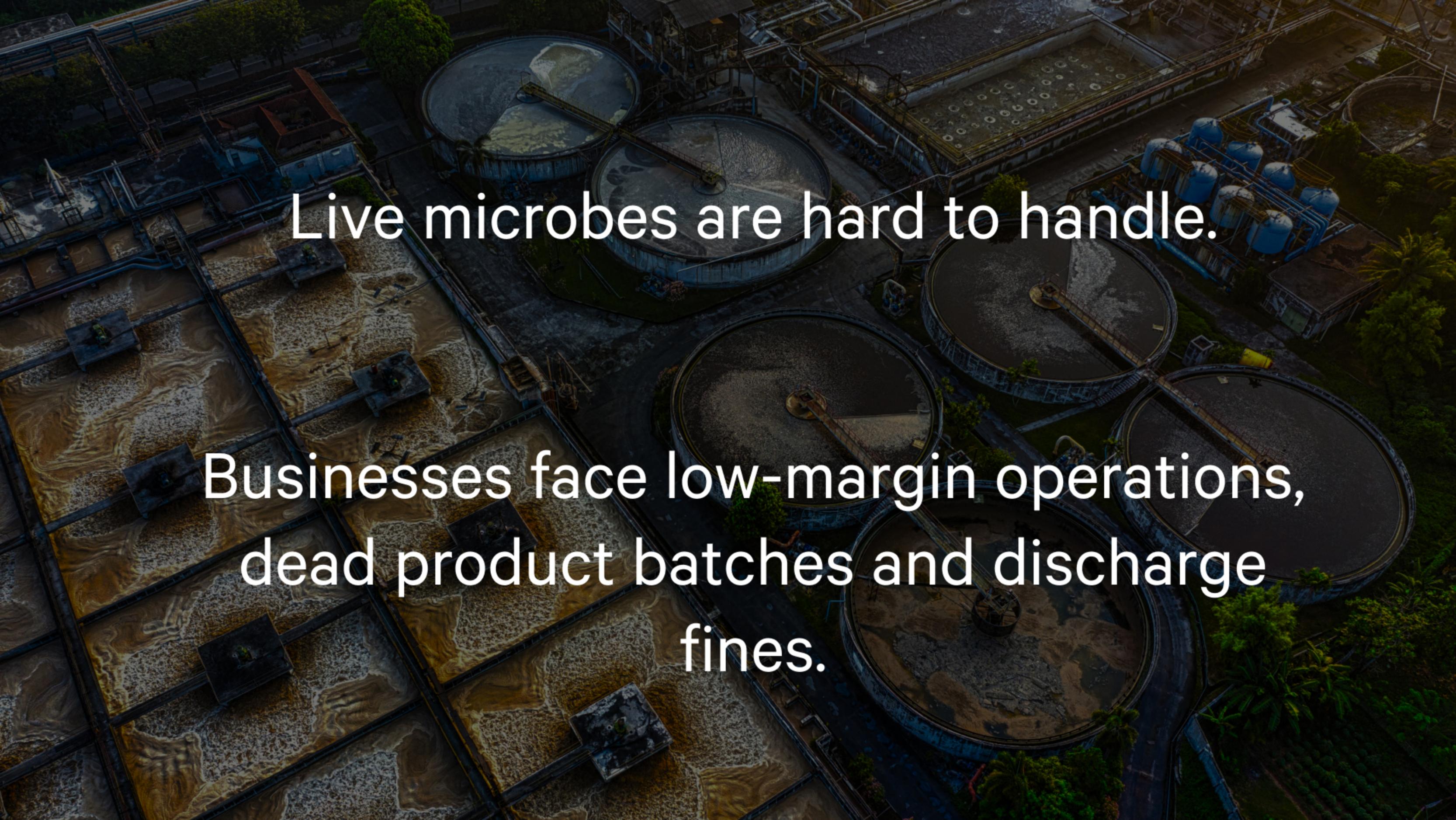




Visual intelligence for industrial biology



An aerial photograph of a wastewater treatment plant. The image shows several large circular tanks and rectangular basins. The water in the tanks is a murky brown color, indicating the presence of organic matter and microorganisms. The plant is surrounded by greenery and some industrial structures. The text is overlaid on the image in a white, sans-serif font.

Live microbes are hard to handle.

Businesses face low-margin operations,
dead product batches and discharge
fines.

Martin

Wastewater Operator

"Our sensors are reactive, not proactive. **I have to over-shoot on energy to be safe.**"



30%

of OPEX in wastewater goes to energy used in aeration.

Veronica

Plant Manager for Food&Bev

"**Choosing between discharge fines or stopping our production** is no choice at all."



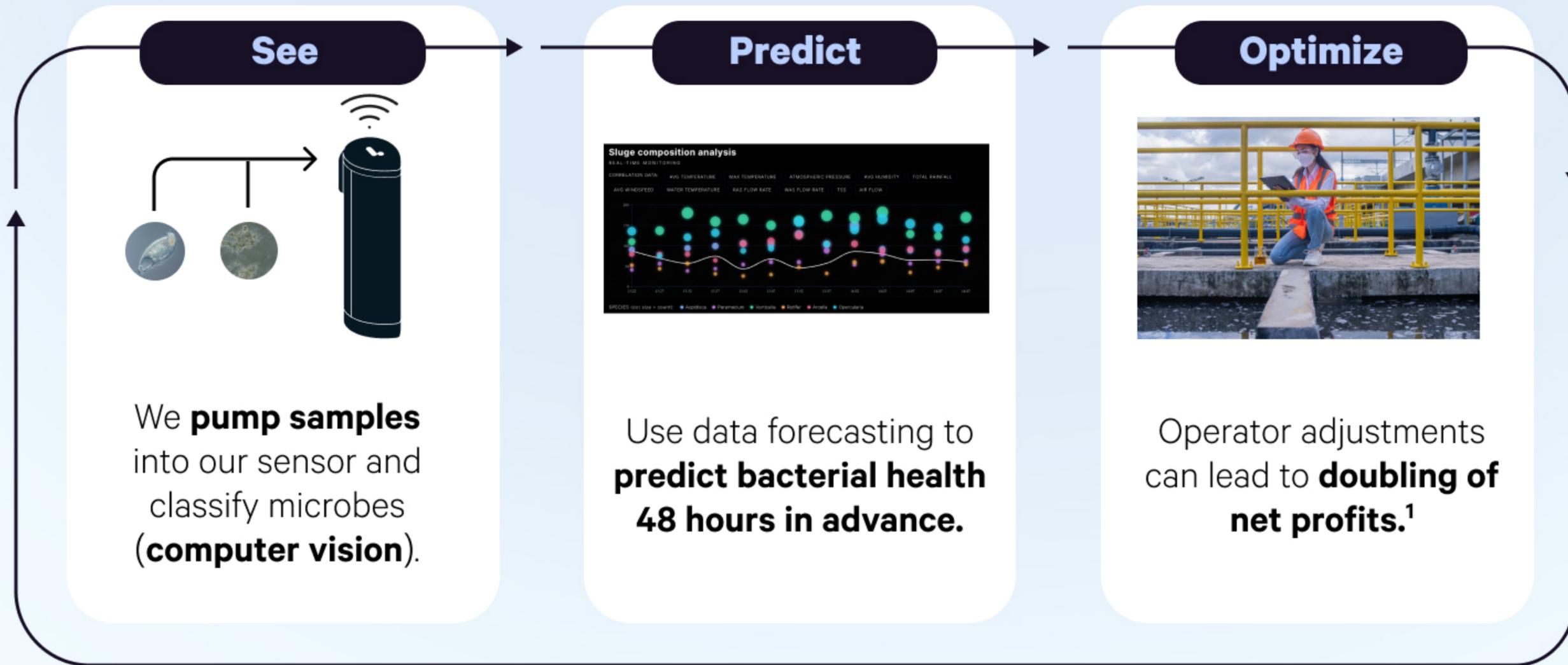
£300k/day

downtime cost to food&bev industrial sites.

The Solution: Vision-as-a-Service

A subscription that allows plants to **reduce energy costs and downtime**.
We generate visual data, they save money.

Patent pending
N.2509378.2 (UK)



¹30% OPEX spent on energy, 20% improvement in a ~10% net margin market. This means a doubling of net profits.

Competitive Edges



USP

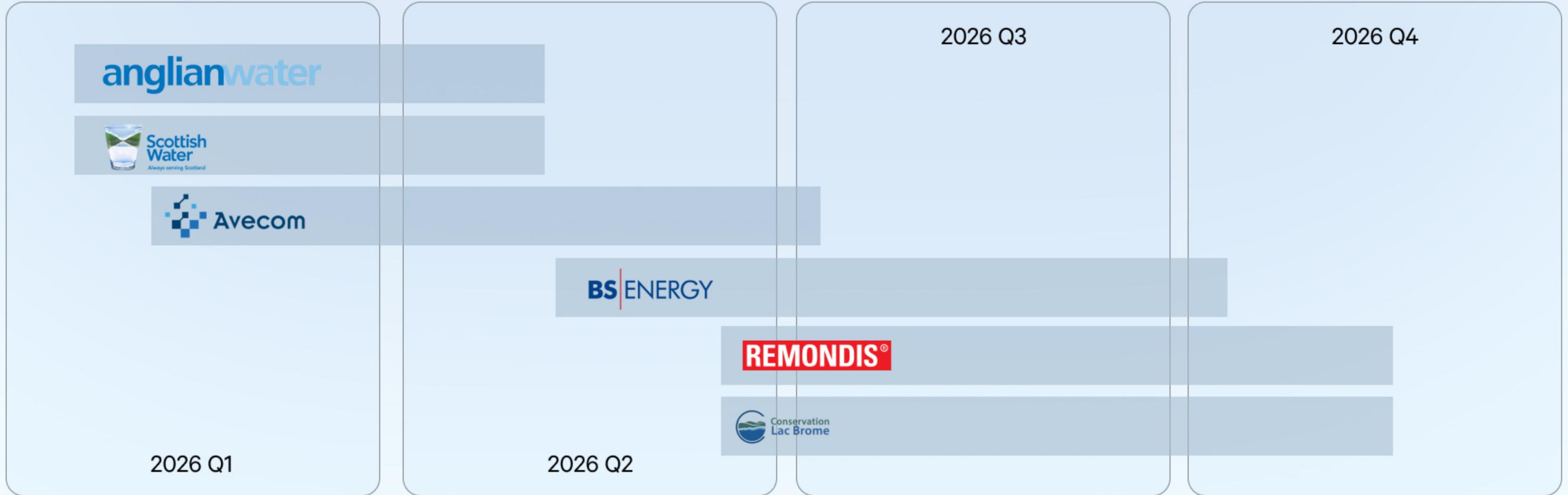
Multi-modal data;
generating more
accurate forecasts

Realtime sampling
and characterization
of biologicals

Low-cost sensor
enabling scale

Moat through exclusive data
sourcing and proprietary data

Upcoming Pilots & Industry Partners



Other LOIs



With markets to scale...

Wider Markets

Market trend for the wider context of technology and expertise developed at Lir Labs

TAM

Market trend for the specific context of technology and expertise developed at Lir Labs

SAM

Serving all 109000 wastewater treatment plants with two aeration tanks on average

SOM

20% of wastewater treatment plants in Europe and Canada

£10B

Bioprocess Automation and Control
(2032)

£5B

Automation and Control in
Water/Wastewater (2035)

£1.5B

**£52M
ARR**

Engineers & Entrepreneurs

Lir Labs

Hult prize finalists

Pitched for **\$1M** at world's largest student competition.

Top 8 from 15k startups.

IMPERIAL / 
Royal College of Art



Emile Meunier

CPO

Industrial designer with experience in product design, and visual communications for global brands.



Benedikt Huber

COO

Economist and environmental scientist with a background in business consulting for a circular economy.



Diego Muñoz

CEO

Mechanical engineer with 5 years of experience across infrastructure and data science. Former founder of a SaaS startup that raised \$1.5M in funding.



Doruk Toto Ozturk

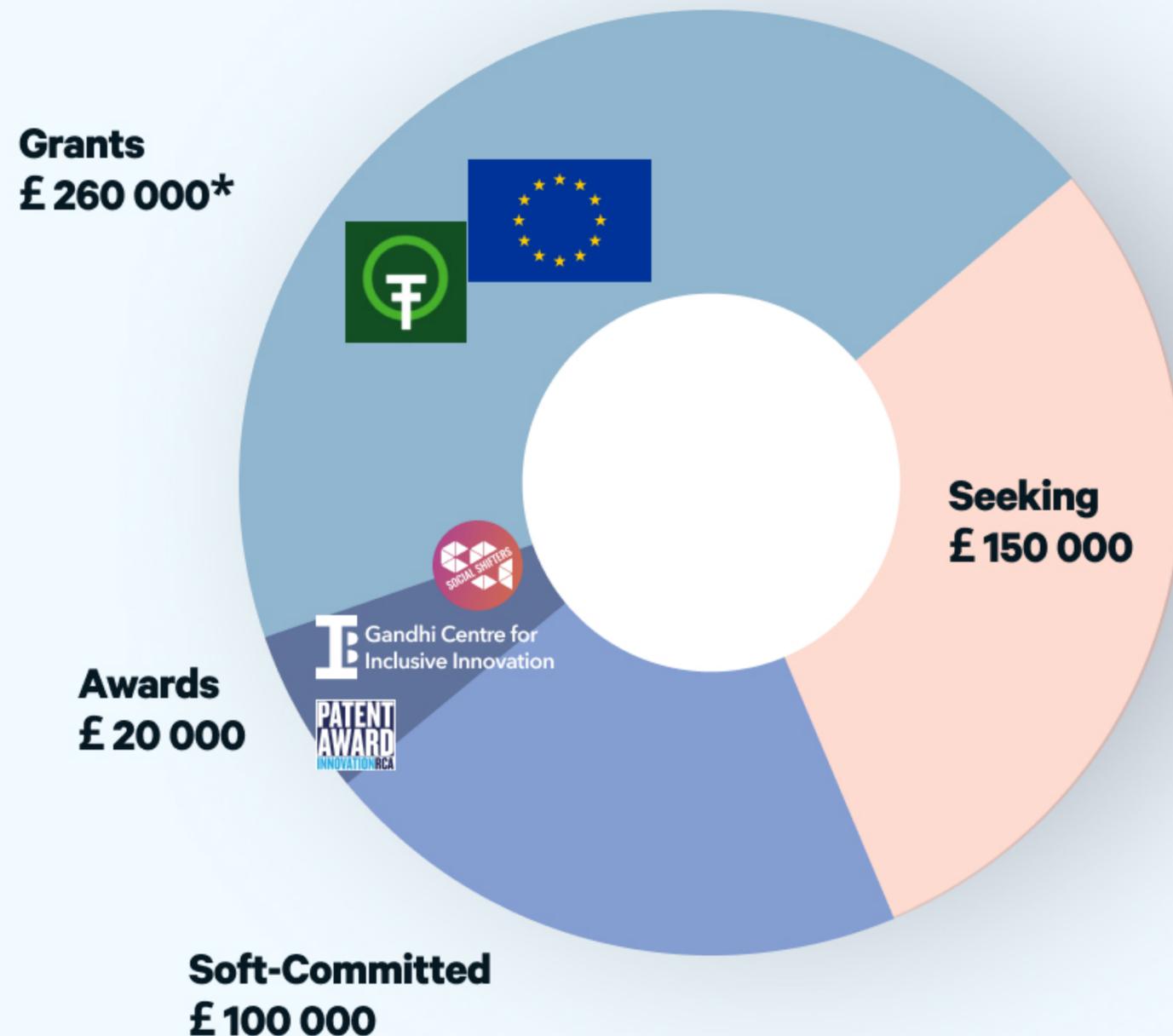
CTO

Materials engineer with a multidisciplinary background in advanced manufacturing, design engineering, and applied energy.



SEIS = Unlocks £260k EU Grant

We are raising SEIS funding to unlock a match-funded EU grant waiting for us in Germany.



→ £100-150k in SEIS available

→ Delivery on agreed pilots

→ *Unlock EU grant

→ 18 months runway



hello@lirlabs.com

