

# Unleashing the power of biomanufacturing with AI Process Simulation



**Oli Hall**  
*Co-Founder and CTO*  
**New Wave Biotech**

**#bioProcessUK**

# New Wave Biotech

Unlocking the power of Biomanufacturing  
with AI Bioprocess Simulation

SUPPORTED BY



# Synthetic Biology: The next tech revolution

- 1/3 global manufacturing output by 2030
- Replacing animal & petrochemical products
- **90% fail to scale**



BIOMATERIALS



ANIMAL FAT



ANIMAL FEED



BIOPLASTICS



TOILETRIES



BIOPESTICIDES

Source: BCG Synthetic Biology is about to disrupt your industry

Confidential: Do not share without permission



# Bioprocess design is complex

1,000,000,000,000+  
Possibilities per process

# R&D is iterative, slow and expensive



EXPERIMENTS  
**\$10K-100K**



TECHNO ECONOMIC ANALYSIS  
**\$20K-40K**

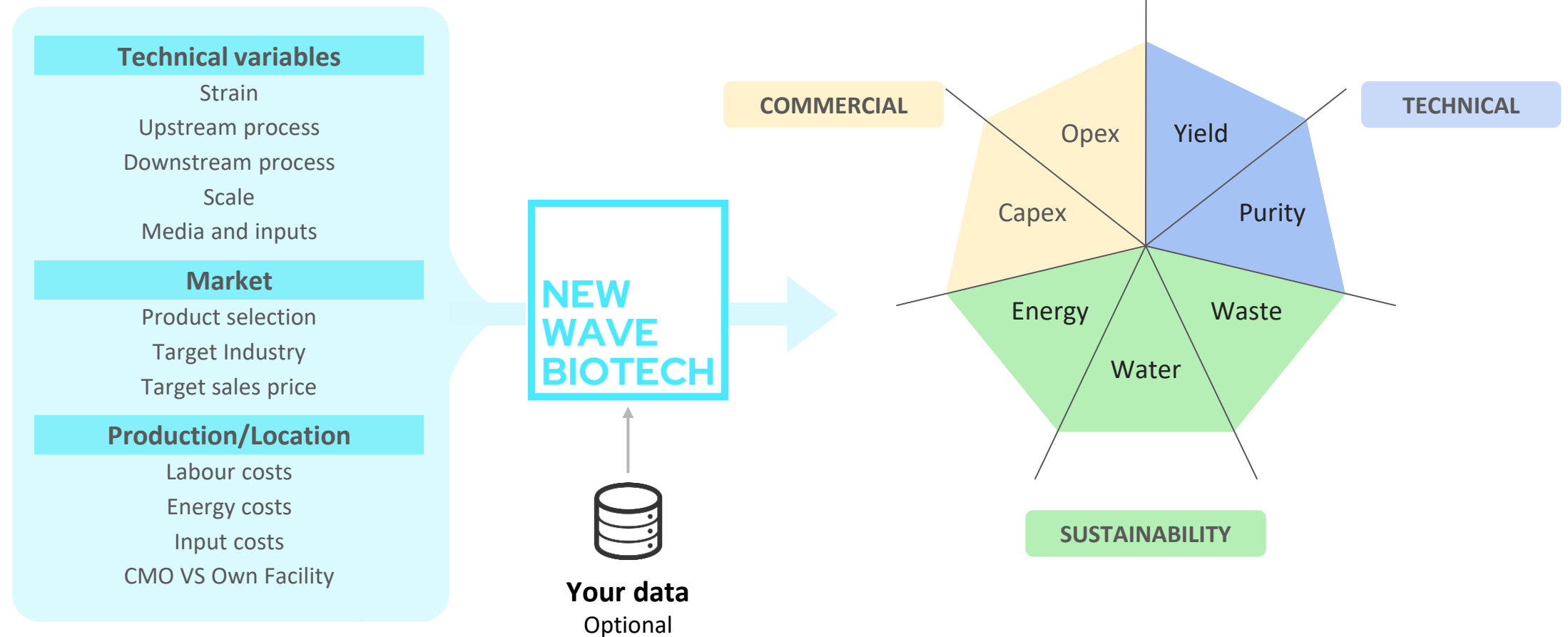


LIFE CYCLE ANALYSIS  
**\$30K-50K**

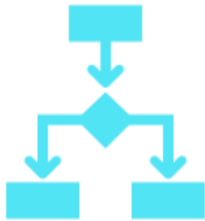
# AI Bioprocess Simulation Software

Design smarter. Commercialise quicker. Scale greener.

# Get clarity with AI-powered simulations tailored to your process with your data



## How we help



**Biomanufacturers**  
foresee the impact of  
decisions



**Corporates**  
Leverage historical data  
to power R&D



**Equipment providers**  
Show the impact of their  
technology



# A Growing Market Opportunity

NEW  
WAVE  
BIOTECH

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## TAM - Global Digital Biomanufacturing by 2035

- 🍔 Agrifoods (\$22bn)
- 🏥 Health (\$36bn),
- 🛒 Consumer products (\$9bn),
- 👕 Materials & energy production (\$9bn)

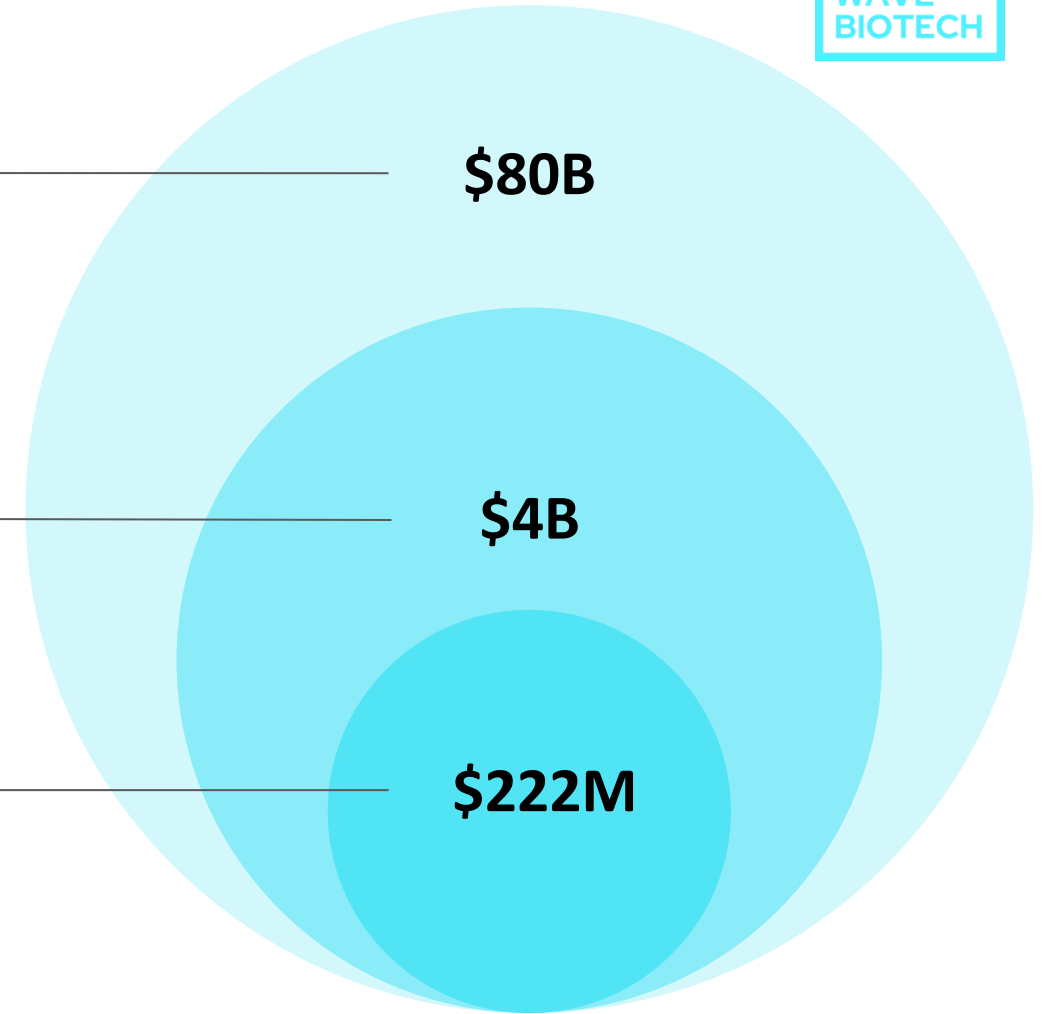
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## SAM - Bioprocess Analytics Technologies

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## SOM - Bottom up projections

Equivalent to 5.5% of SAM



# Competition: How we compare

NEW  
WAVE  
BIOTECH



Hybrid Technology

Mechanistic models

Pure AI/ML models

No minimum data + explainable



Learns from data



Technical + Commercial + Eco impact



Optimisation + Dynamic Analysis



# Our team



## SOFTWARE & DATA



Oli Hall

CTO & Co-Founder



Przemek Baj



Theo Gardner



## BUSINESS



Zoe Yu Tung Law

CEO & Co-Founder



Mariana Gentilhomem



## ENGINEERING



Dr. Victoria Outram

Bioprocess Engineering Lead



Dr. Rafael Boni



Dr. Ahmad Kobeiter Abiad



# Traction + achievements



## COMMERCIAL

**10** Letters of Intent  
**\$15m/yr** revenue pipeline



## TECHNICAL

Platform Predictions  
**±10%** VS pilot experiments



## AWARDS

**5** grants won  
totalling **\$830k**

“In a short period of time, I’m impressed that NWB’s solution has already **provided useful recommendations and insights to improve our DSP setup.**”



Cai Linton, CEO

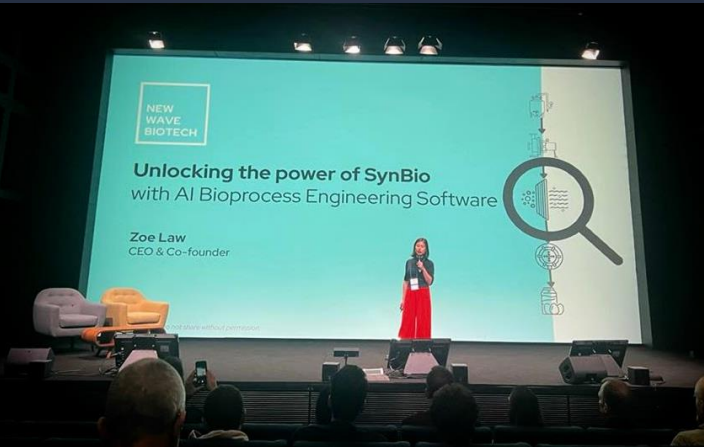


“ We have benefited greatly from our use of their platform... **Any companies looking to develop fermentation based production processes should consider their software.**”



Richard Grieves, COO





# Come join our journey!

- ▶ Connect  
[hello@newwavebiotech.com](mailto:hello@newwavebiotech.com)
- ▶ Try it out  
[newwavebiotech.com](https://newwavebiotech.com)

