Synaptive

Building brain scans that work for everyone

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This is **Peter**

At 12 years old,
he had a **seizure**.

Where he was
diagnosed with
Epilepsy.

50 million

people like Peter
have epilepsy.

70%

could be seizure-free if properly diagnosed.

Source: WHO
https://www.who.int/news-room/fact-sheets/detail/epilepsy

EEG is the test that decides the diagnosis. But.

1 in 4

individuals are misdiagnosed

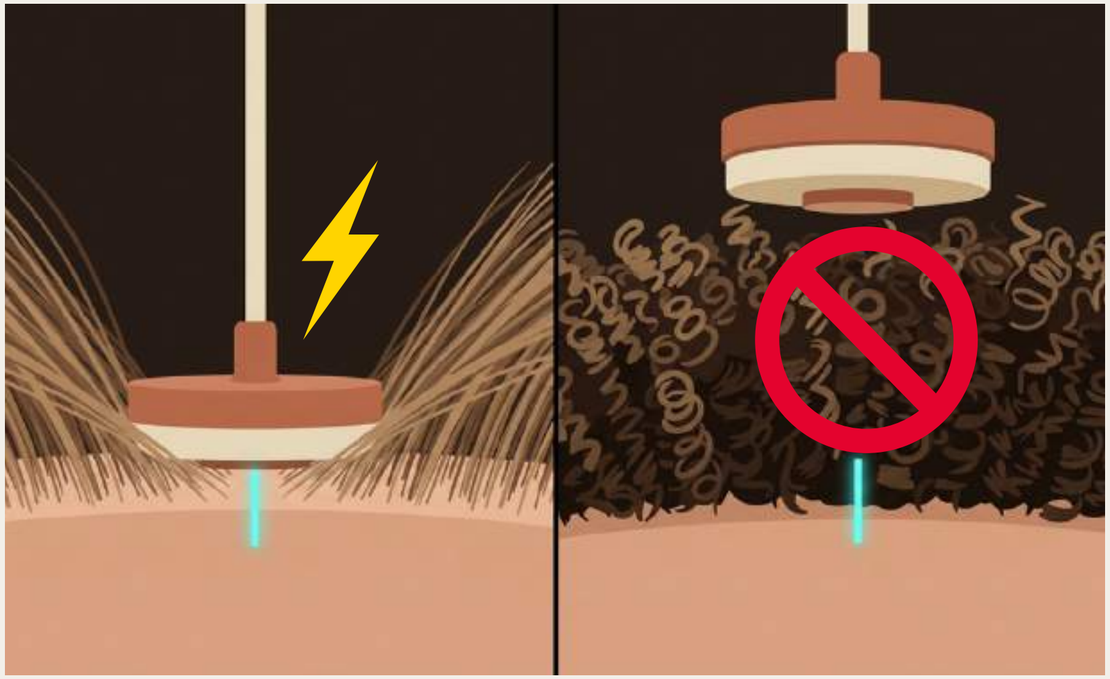
Xu et al., Seizure, 2016
Lee, Amin & Benbadis, AES 2022

£138m

in total NHS costs

Juarez-García, 2006, Seizure
https://doi.org/10.1016/j.seizure.2006.08.005

Reliable EEG starts with reliable scalp contact.



CLINICAL TARGET

<10 kΩ

MEASURED ON CURLY HAIR

>100kΩ

Current electrodes are ill-designed for use on the populations who are most effected by epilepsy.

The data is clear. Patients are being failed.

MANUFACTURER ENDORSEMENT

"We fully support efforts like this."

Brain Products GmbH
leading global EEG manufacturer

"I'm missing out on medical information simply due to my hair texture."

EEG patient - 2 failed recordings - 4B hair

Webb et al., 2022

"The burden is on the technology to adapt, not the participant."

Hardware redesign is the only first-principles fix.

nature

34 Researchers

14 Patients

7 Technicians

90% want a solution

Kelly and Patel et al, 2006

Existing solutions fall short.
We close the gap.

Closest Solution

Synaptive mechanically achieves sensor-to-scalp contact across all hair types tested. All other approaches require hair modification, gel application, or accept partial contact.

NO SOLUTION

g.tec

BRAIN PRODUCTS

BIOSEMI

TMSi an artinis company

natus

Ambu

ant neuro

Syn-R1 - Building hardware that works for everyone.

UK Patent Pending: Application No. GB2615593.7
Priority deadline for further filings: 6 July 2027

01

Single use electrode

02

Works for all hair types at similar cost

03

Minimal setup time in clinics

04

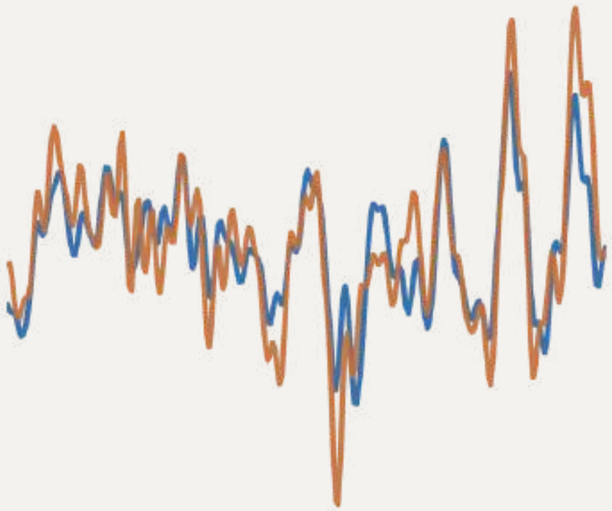
Consistent high signal quality

05

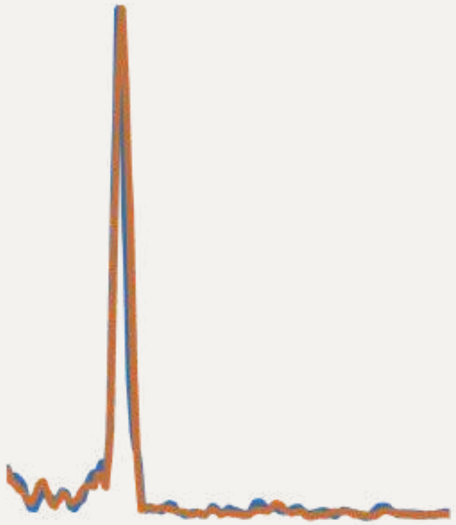
Compatible with all existing procedure hardware

We work just as well, but better for all.

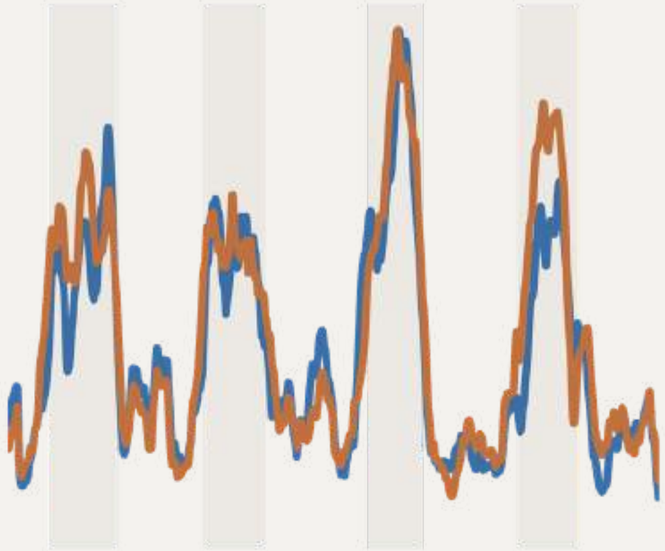
Same Signal



Same Rhythm



Same Response



- Syn-R1 (Us)
- g.Ladybird (Reference)

Simultaneous recording, same subject, same session. Reference: g.tec Ladybird gel electrode. Eyes-closed blocks shaded.

Clinical Market Size

24,458,749 Procedures globally

14,675,249 replaceable procedures

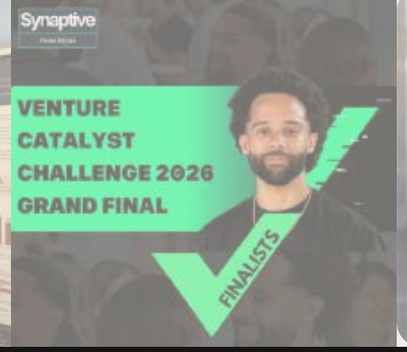
natus Ambu NIHON KOHDEN Rhythmlink

£1 per unit
£0.50 COGS
with ~32 electrodes
per procedure

5M+ *procedures we can service.*
SOM: ***£160M***

Synaptive

https://www.grandviewresearch.com/industry-analysis/disposable-eeg-electrode-market



01 Lab tests confirm equivalent results with reference electrodes

02 GB Patent Filed July ‘26

03 Lab scale manufacturing process established

04 Product announced August ‘26

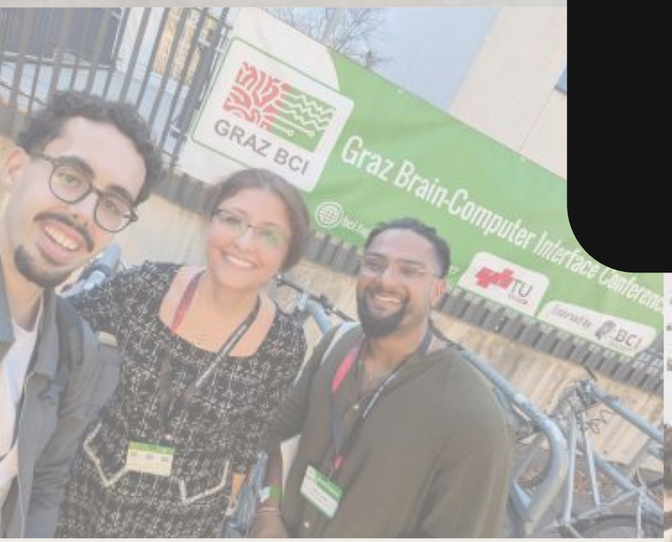
05 Massive engagement at conferences, exhibitions and competitions

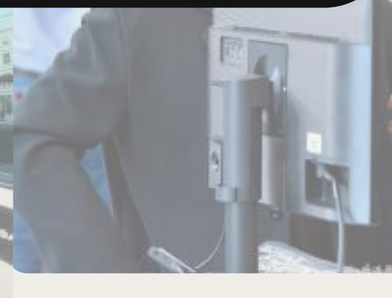
06 **61** Electrodes sold into unregulated research environments

07 Growing pipeline of sales to research labs

08 Built two research partnerships internationally

09 Active discussion with the largest clinical EEG provider in USA who are testing the tech.





Paid pilots in these labs:

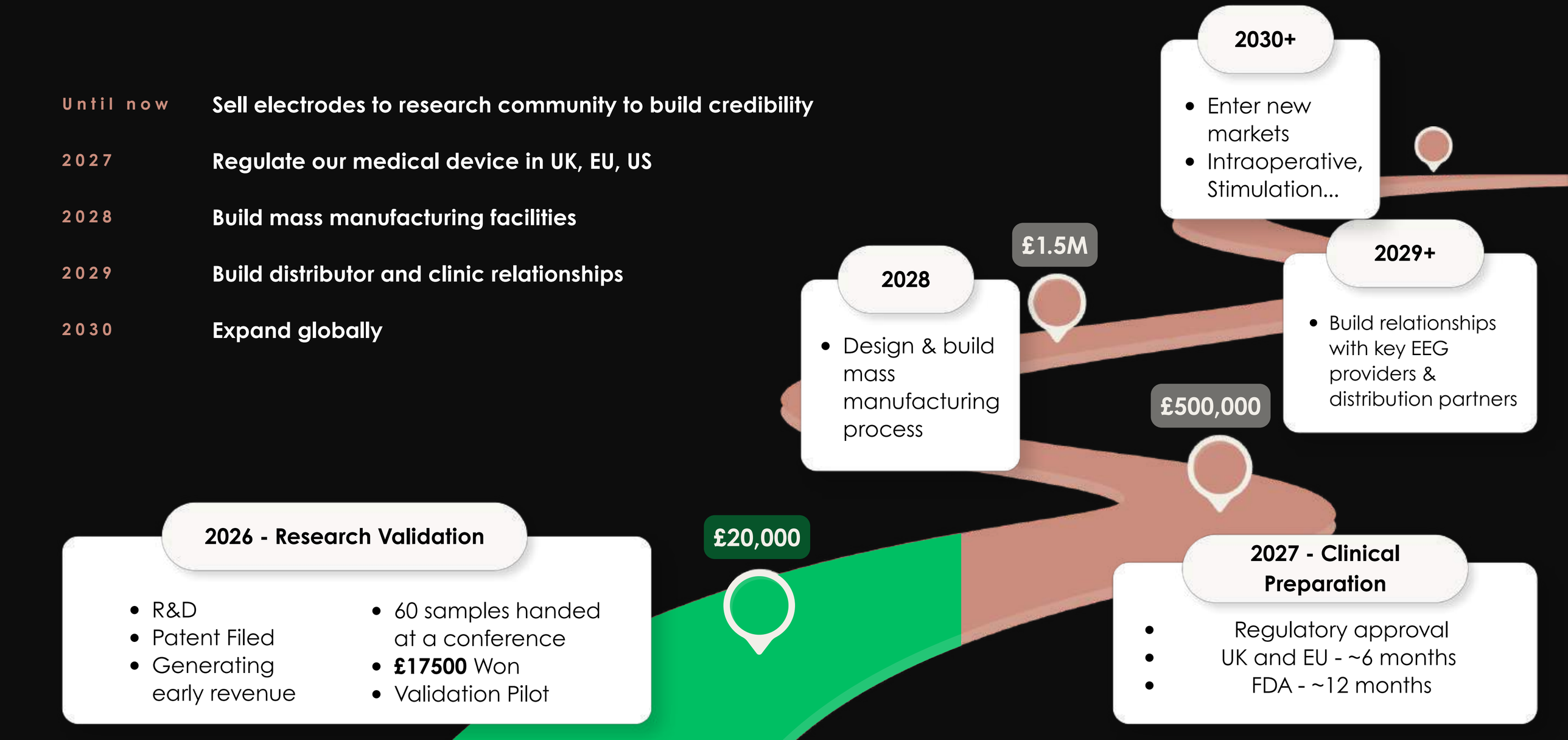
- Oregan State University
- Universidad Autónoma del Estado de México
- North Carolina State University
- McMaster University
- BrainProducts GmbH

Partnership with **African Brain Data Network** has now unlocked Africa - supplying as we speak to up to 10 labs.

African Brain Data Network

Roadmap

Until now	**Sell electrodes to research community to build credibility**
2027	**Regulate our medical device in UK, EU, US**
2028	**Build mass manufacturing facilities**
2029	**Build distributor and clinic relationships**
2030	**Expand globally**



THE TEAM

Built by the best.

CSO

Merlin Kelly

PhD Candidate in CS
Science Adviser
Biomedical Engineer

LYEONS NEUROTECH

netholabs

UCL

CTO

Peter Bryan

PhD Candidate in Bioengineering
Contract Consultant

neubond

IMPERIAL

CEO

Rishan Patel, PhD

PhD in Bioengineering
7 Peer-reviewed publications
2x Business Accelerator
Government backed for AI-Health

Department for Science, Innovation & Technology

UCL

All three founders go full-time from close of the round.

THE TEAM

Backed by the best.

Advisors

Dr Greg Dickens
(Technology adviser)

Julian Hildersley
(Business adviser)

Pfizer
Medtronic
UNIVERSITY OF CAMBRIDGE
Johnson & Johnson
cellxica

Supported by

Supported by UCL Innovation & Enterprise
Imperial Enterprise Lab
CAMBRIDGE neuroworks POWERED BY ARIA
ICURe explore
Bio-spark
impulse MaxwellCentre for tech innovators

Synaptive

Building the brain scan that should have existed 100 years ago.

Help us fund the scale.

SEIS and EIS Advanced Assured

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