The Future of Neurotechnology.

Imagine having an app that could forecast your emotions, like forecasting the weather...

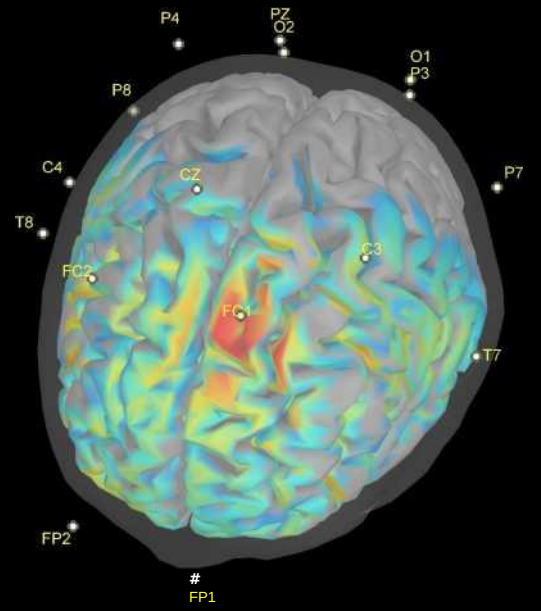
Neurotechno is a start-up neurotechnology company which develops software products specifically designed for medical and consumer neurotechnology applications.

Consumer and Medical Apps.

In development: Tinnitus Acoustic Neuromodulator mobile phone app.
Estimated MVP in 6 months. Prototype already tested.

Consumer and Medical Apps.

To be developed: EEG-based Brain Map app. Estimated MVP in 18 months.



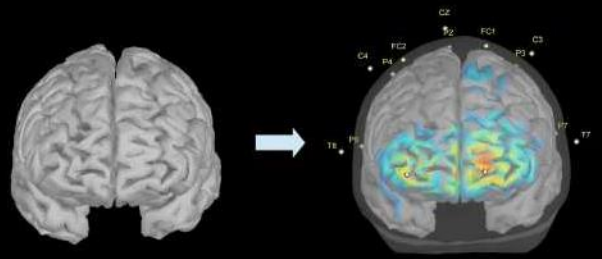
Proposed Timeline.

Tinnitus App 6 Months

Brain App 18 Months

Brain State

Forecasting 24 Months



The Company.

Neurotechno Ltd. was founded in 2022, by Dr. Jon Smith, who has a background in Neurotechnology, Signal Processing (LMD), and Artificial Intelligence (Machine Learning). Neurotechno is based in the U.K.

The Opportunity.

The human brain is the final frontier of human exploration. It represents an inner space to be explored for insights into the nature of our selves, and, for businesses, an opportunity to be exploited for commnercial gain. To date, neurotechnology companies have struggled to commercialise discoveries and advances in our understading of the brain. Neurotechno aims to take the simplest route to commercial success: brain-related medical and consumer mobile phone apps.

The Market

- An estimated 120 million people around the world suffer from severe tinnitus, an electrical malfunction of the brain caused by hearing damage. Currently there is no cure.
- Consumers can currently use apps to monitor sleep, menstrual cycles, and general health. There is no app to measure our mental health in the form of the electrical activity of our brains. Conditions such as tinnitus and depression have an Electroencephalogram (EEG) signature. Emotion detection can also be achieved using EEGs. Emotion detection is estimaqted to be a $20 billion market (Gannouni et al, March 2021, Scientific Reports).
- Apps that could forecast a person's future emotional state could have considerable appeal to consumers.

The Products.

- The Tinnitus Neuromodulator app exploits the well-known phenomenon of Temporary Residual Inhibition (TRI), to temporarily reduce, or switch off, tinnitus. The app generates sound effects, which, when listened to by the tinnitus sufferer over a number of seconds, cancel out the internally generated neuro-electrical tinnitus sound, i.e. the software generated sounds bring about a neuromodulation of the brain (TRI).
- EEG-based brain visualisation maps. Using simple consumer-grade EEG headsets, the objective is to provide a real-time visualisation of the brain of the wearer in the form of an app.
- Advanced signal processing and Machine Learning (ML) will be used to improve the brain maps over time, offering a route into medical applications. It will be possible to visualize, for example, tinnitus and depression. It may also be possible to forecast future emotions.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