



Machine Medicine

Data-Driven Neuromodulation

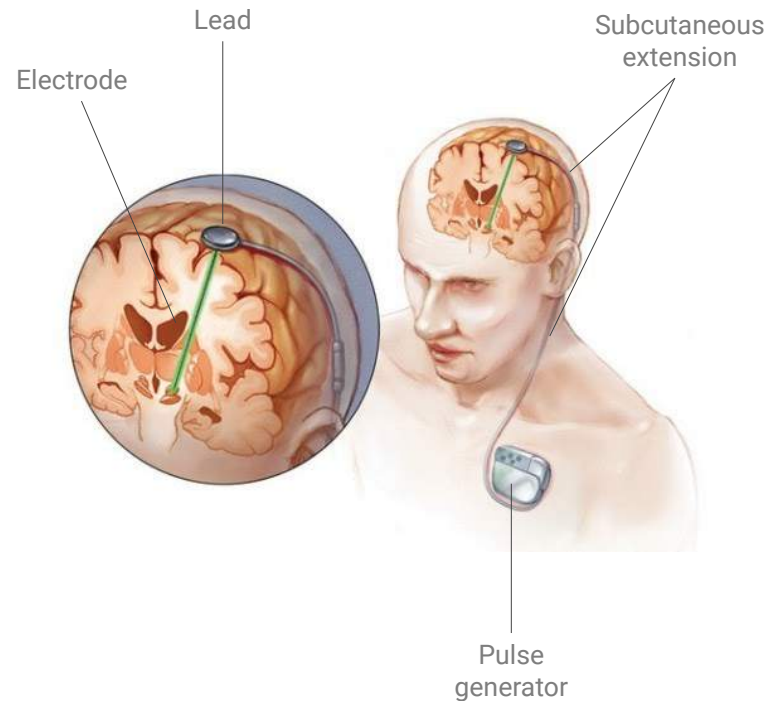


Target Market

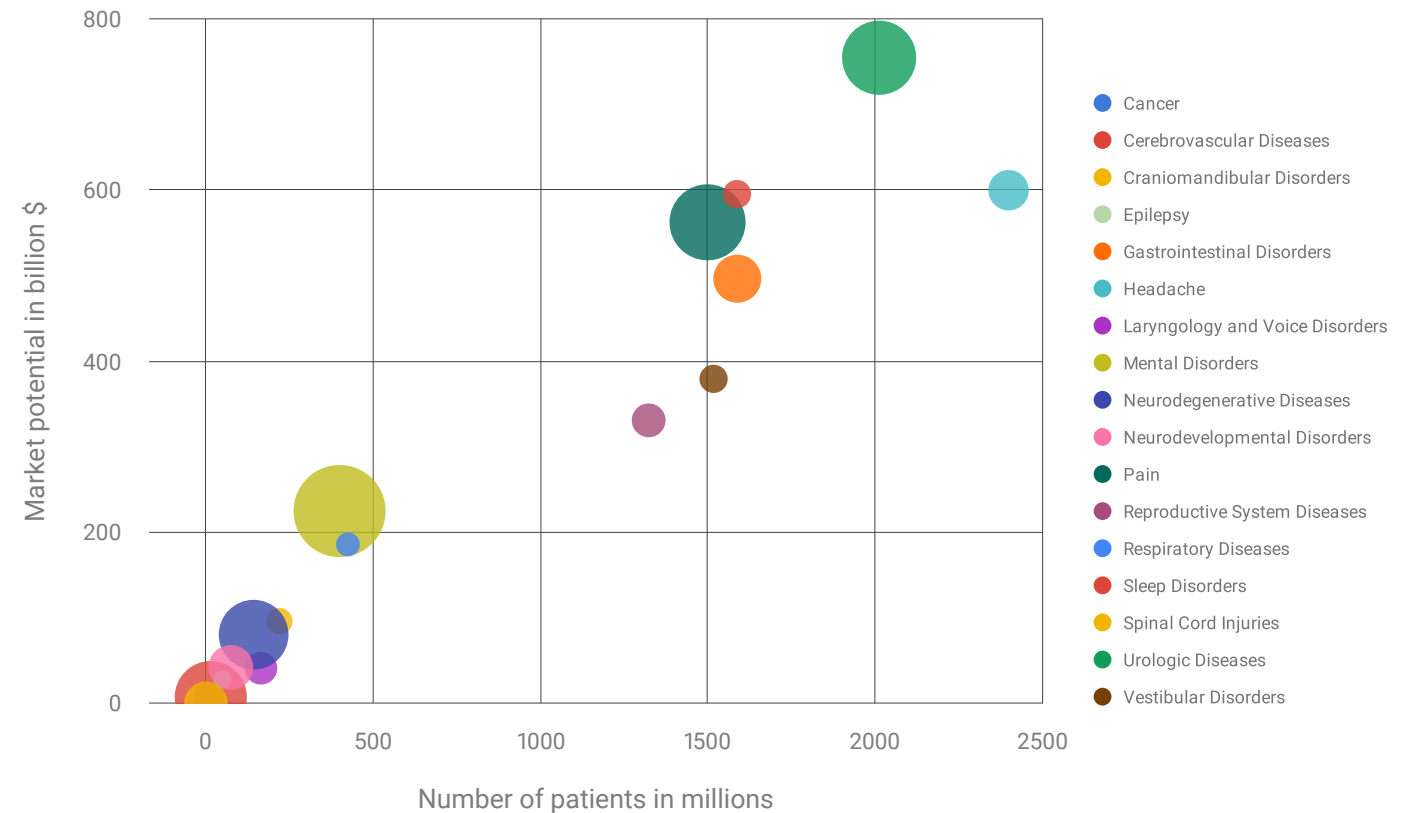
Neuromodulation, a trillion dollar market opportunity

What is neuromodulation?

Precise electrochemical interventions to treat abnormal activity.



Market Potential by Condition



*The size of the bubbles corresponds to the level of research activity in the area


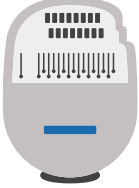







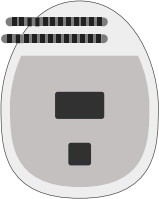
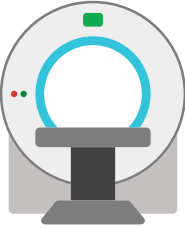
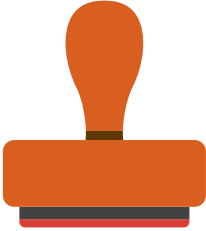


Problem

In neuromodulation today:

- Hardware is non-interoperable.
- Data is fragmented and under-utilised.

Impact

- Limited number of conditions addressed.
- High failure rate.
- Development limited to serendipity.

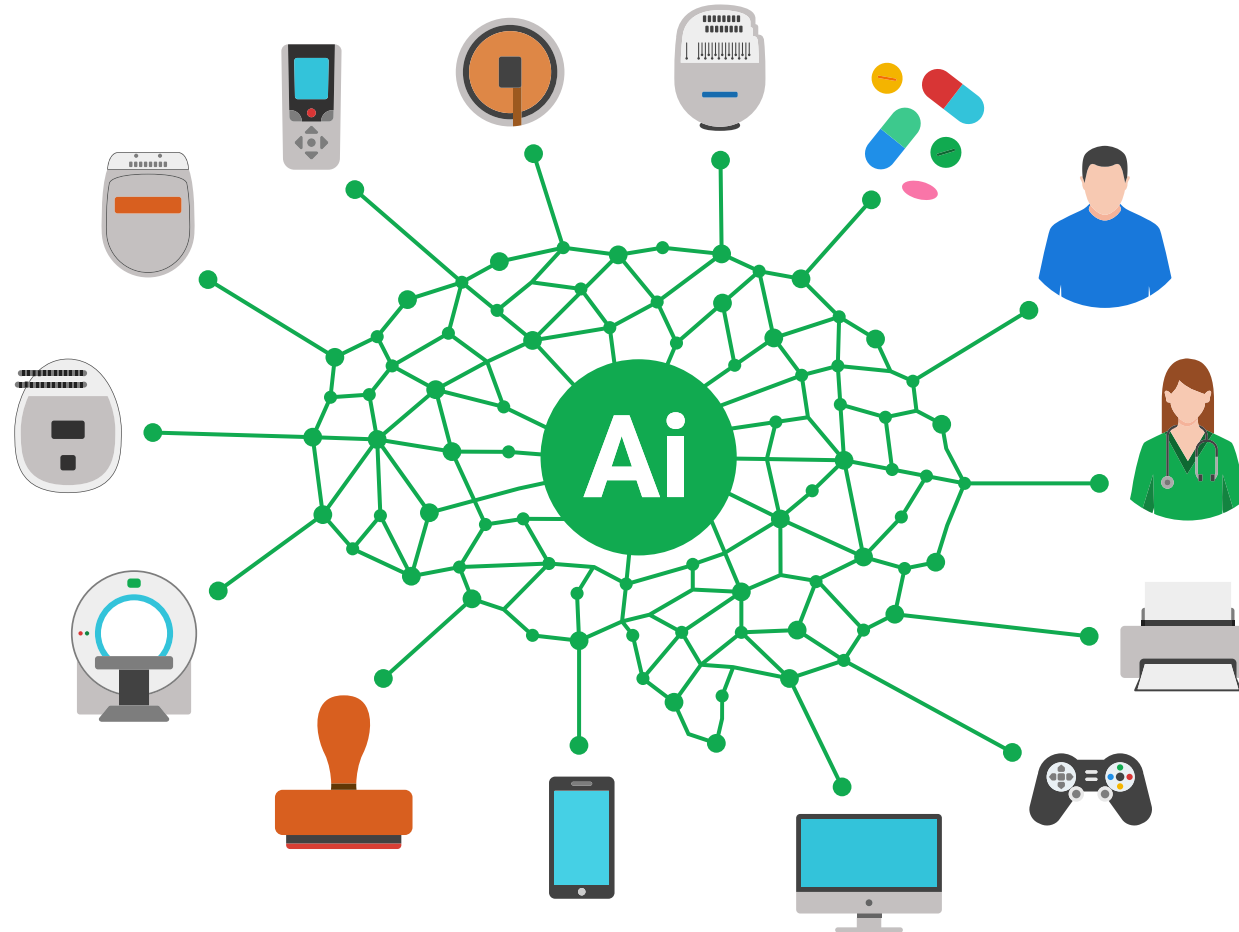
Hardware  NEURALINK	Hardware  Medtronic	Medication 	Patient 	Clinician 	Domestic Consumer Devices 	Domestic Consumer Devices 
Hardware  Abbott	Hardware  Boston Scientific	Hardware  Newronika	MRI Scan 	Regulation 	Domestic Consumer Devices 	Domestic Consumer Devices 

Solution

- Hardware will become modular and interoperable.
- Data will become integrated and fully exploited.

Impact

- Large range of conditions addressed.
- High success rate.
- Development driven by understanding.



Product Defensibility & IP

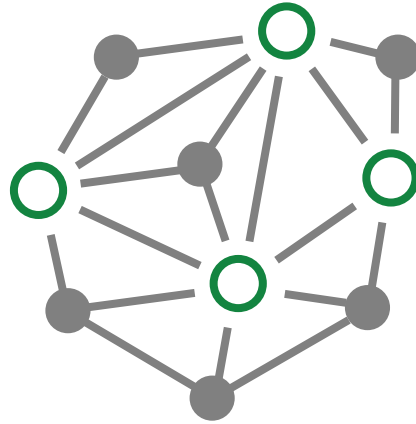
KELVIN-PD

Data defensibility



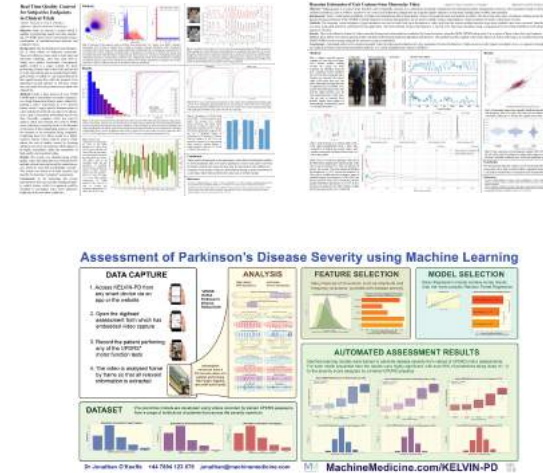
Unique data set, generated through our proprietary platform and labelled by clinician users.

Strong network effects across sites and modalities



The more data we collect the better our algorithms perform.

Clinical Validation



Posters and papers published in top conferences and journals with leading clinicians.

Regulatory approval



We are already ISO 13485 and ISO 27001 certified. Class IIa medical device status and 510k are scheduled for 2022.

Team Management



Dr Jonathan O'Keeffe
Founder, CEO

- M.D. Oxford
- 10 years of clinical experience (MRCP)
- PhD, Computational Neuroscience, Cambridge
- MSc, Machine Learning, UCL



Mr Gareth Morinan
CSO

- MSc, Statistics and Operational Research, Warwick.
- 8 years in operational research (4 in enterprise; 4 in government)



Mr Anthony Cumberlege
Head of Quality

- BSc/MA Biochemistry, North West University (SA)
- 20 years experience in quality control in pharma and medical devices.



Team



Full Stack (x4)



Analytics (x2)



Operations (x3)



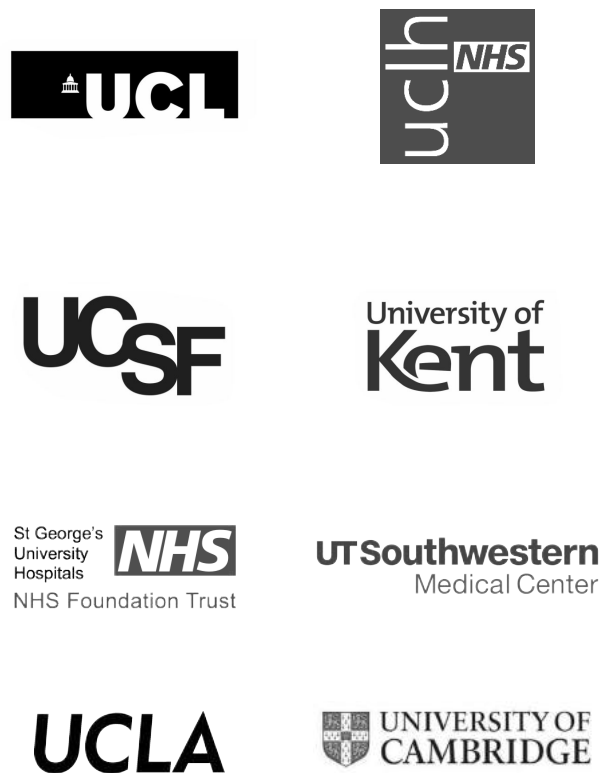
Regulation (x1)



Traction

Over 1000 patient assessments performed through KELVIN (flagship product)

1 Academic Research Tool



2 Commercial Research Tool (e.g. Clinical Trials)



3 Clinical Applications

