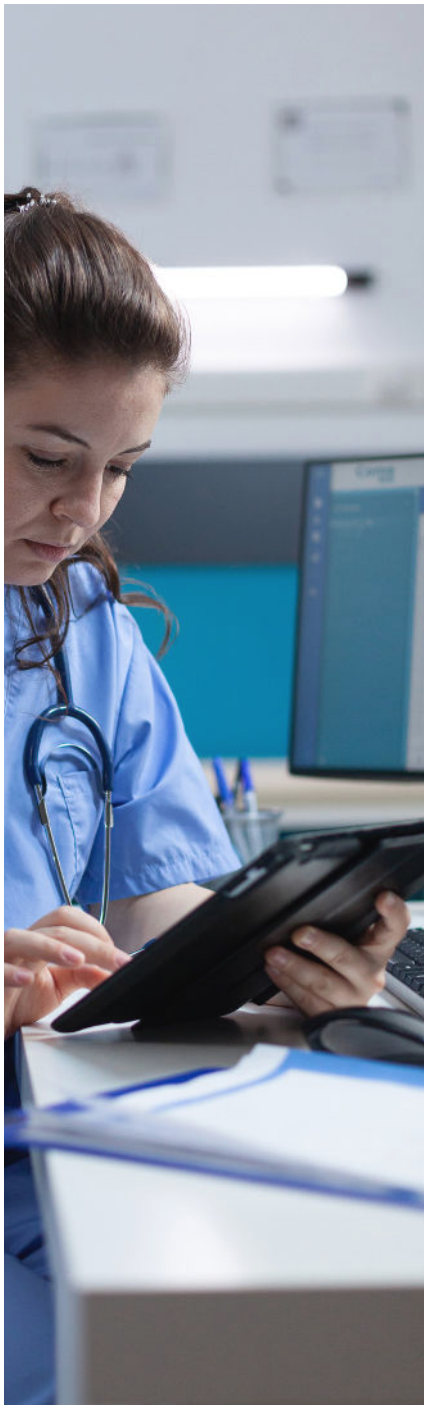


Digital Health Tech

A digital therapeutics firm providing mobile software and clinical tools for neurological rehabilitation.



PROJECT

Cognitive assistance platform for remote neurorehabilitation

TECHNOLOGICAL BASELINE

Neuropsychological rehabilitation relied largely on paper-based, in-person therapies such as cognitive remediation and compensatory strategies, with limited use of technology beyond basic assistive tools.

While remote technologies were emerging in areas like physiotherapy and speech therapy, there was no equivalent, integrated digital platform for delivering and monitoring neuropsychological interventions at scale.

TECHNOLOGICAL UNCERTAINTY

It was uncertain whether AI could safely and effectively personalise cognitive rehabilitation in real time for patients with complex impairments, and adapt interventions continuously over long periods.

There was also uncertainty over how to combine scalable, real-time data synchronisation with stringent data privacy and healthcare regulatory requirements, and how to control risks such as hallucinations in generative AI used within a clinical context.

TECHNOLOGICAL ADVANCE

- The company set out to develop a purpose-built remote neurorehabilitation platform that integrates AI-driven personalisation, continuous monitoring and caregiver support in a single environment.
- It pursued iterative design and testing cycles, creating a modular architecture to host current and future AI components, and embedding role-based security and compliance controls from the outset.
- Through literature review, expert input and proof-of-concept AI models, the company worked to minimise inaccuracies in AI outputs and to deliver dynamically tailored interventions, representing an appreciable advance beyond static, session-based neuropsychological rehabilitation.

About ABGi

ABGi is a professional services and consulting business, dedicated to helping UK companies accelerate and fund their innovation strategies. We help our clients unlock government incentives that fuel innovation. Our services cover a range of funding opportunities designed to support businesses at every stage of their innovation journey.