

Enoda Health is an Irish health technology company founded to bring clinically validated, real-world mobility data into routine neurological care. The company was established to commercialise outputs from Mobilise-D, a landmark €50 million EU-funded research programme involving 2,400 patients which established and validated 24 Digital Mobility Outcomes (DMOs) derived from wearable sensor data.

Key academic co-founders and collaborators include Professor Lynn Rochester (Newcastle University), who served as overall academic lead on Mobilise-D, and Professor Brian Caulfield (University College Dublin/University of Galway). Enoda Health is led by CEO Michael McMahon, who brings a background in strategy consultancy and economics.



Michael McMahon,
CEO and Co-founder

CLINICAL EVALUATION STUDY



Health
**Innovation
Hub** Ireland

About Health Innovation Hub Ireland

Health Innovation Hub Ireland (HIHI) was established by the Department of Business, Enterprise and Innovation and the Department of Health and is supported by Enterprise Ireland (EI) and the Health Service Executive (HSE) to drive collaboration between the health service and enterprise. We offer companies the opportunity for pilot and clinical evaluation studies and we provide the health service access to innovative products, services and devices that they may not otherwise be exposed to.

HIHI is built on the recognition that collaboration with enterprise can benefit patient care, patient pathways

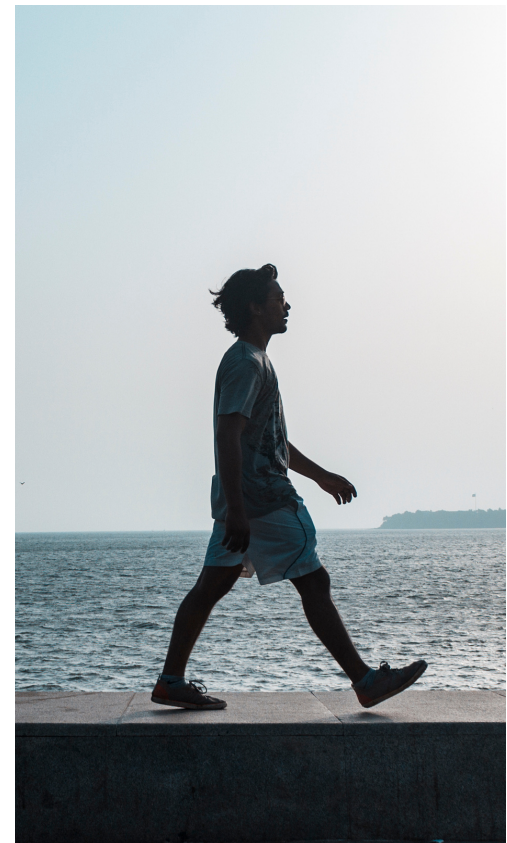
and outcomes. We assess all concepts for healthcare innovation from those on the frontline – from clinician to porter. We encourage healthcare professionals to get in touch with HIHI if they have an idea or solution to how something in your job might work better.



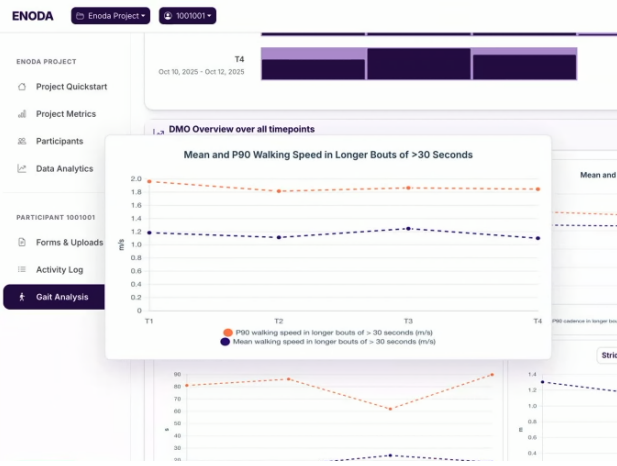
The Healthcare Challenge

Managing neurological conditions such as Parkinson's Disease (PD) depends heavily on tracking how patients move and function in their daily lives, yet clinicians currently have no reliable way to do this objectively. Standard clinical assessments rely on subjective rating scales (such as the Unified Parkinson's Disease Rating Scale), brief clinic-based walk tests, and patient self-reporting. These approaches are prone to recall bias, inter-rater variability, and performance bias, i.e. patients often walk better when observed in a clinical setting.

Crucially, patients themselves frequently cannot accurately report on fluctuations in their condition, such as the effects of medication wearing off. Without objective, continuous, real-world data, clinicians must rely on clinical intuition rather than evidence when making treatment decisions, and meaningful deterioration can go undetected between clinic visits.



The Healthcare Solution



Enoda provides high-quality mobility data, generating detailed insights into how a person moves in the real world using a single sensor placed on the lower back. The raw data captured by this sensor is uploaded to Enoda's Electronic Data Capture system, where it is processed through an algorithm pipeline developed as part of the groundbreaking Mobilise-D project (www.mobilise-d.eu), producing a suite of Digital Mobility Outcomes (DMOs), giving a rich picture of real-world movement.

This includes metrics such as stride length and cadence, walking speed and metrics related to gait variability. These outcomes were clinically validated across studies involving approximately 2,400 patients spanning multiple sites throughout Europe, lending the resulting data a strong evidence base.

HIHI Role

Health Innovation Hub Ireland leveraged its extensive clinical network to recruit clinicians with comprehensive experience and in-depth knowledge of the clinical area. By ensuring a fit between the company's offering and the specialities of the clinicians recruited for this project, this ensures that the engagement provides valuable, actionable feedback that can inform ongoing product development priorities.

Having accumulated significant experience in facilitating clinical evaluations, HIHI worked with Enoda prior to the engagement to ensure the data captured would be clinically relevant and useful. By tailoring the presentation and questions to both the needs of the company and the expertise of the clinicians involved HIHI seeks to maximise value for the company.



Outcome Report

There was strong clinical interest in the technology, with it being recognised as filling an important gap by providing real-world data, something to which clinicians do not typically have access. Clinical applicability as well as its utility in research settings were acknowledged. It was also noted that the product builds on work of some of the leading clinical experts in the area, being based on the work done in the Mobilise-D project.

The project identified opportunities for Enoda in product development, new clinical applications, and evidence generation. Recommendations included expanding areas of application beyond Parkinson's Disease to Multiple Sclerosis and Normal Pressure Hydrocephalus, exploring future pilots across additional disease areas and addressing key implementation considerations such as clinical workflow, report design and core functionality requirements.

In summary, the evaluation provided strong early validation of the technology and its utility in satisfying a significant unmet need. It also served to identify and/or confirm future priorities and opportunities for Enoda.

Testimonial

"Working with Health Innovation Hub Ireland provided us with the opportunity to get our platform in front of clinicians and have a high-quality discussion regarding its use in the clinical care arena. The feedback we got was invaluable in helping us validate the benefits of our technology and how it could work in a frontline care environment. The team at Health Innovation Hub Ireland provided outstanding support in helping us prepare for the meeting, and also helped us follow up with the clinicians in discussing a pilot project. This is an essential support for any company developing an innovative healthcare solution."

*Michael McMahon,
CEO and Co-founder, Enoda Health*



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