

# Technology for license

## Mobility Monitor based on Gait Analysis

The Movement Science Research Group at Oxford Brookes University, under the leadership of Dr Helen Dawes, has developed a novel method to monitor the mobility of patients using a simple small accelerometer. The technique enables efficient monitoring of the progress of patients with different neurological or physical conditions. Whilst there are many existing approaches to gait analysis, this new approach is the first technique which can accurately measure gait in a small clinical office. This technique is protected by a patent application, and we are now seeking commercialisation partners who wish to incorporate it into their products or solutions.

Applications	Benefits
<p><b>Practical applications include:</b></p> <ul style="list-style-type: none"><li>• Assessment of mobility and independence</li><li>• Patient Monitoring</li><li>• Neurological monitoring</li><li>• Monitoring impact of therapy</li></ul>	<p><b>Significant advantages over existing solutions:</b></p> <ul style="list-style-type: none"><li>• Less expensive</li><li>• Less time consuming</li><li>• Can be performed in clinic (rather than a special gait lab)</li><li>• Simple to use</li></ul>

**This technology can be used by many different sectors of the healthcare industry including hospitals, GP's surgeries and social care homes. These are all large markets, and licensees of this technology could expect to have a major competitive advantage.**

The new technique, is based on solving resolution of object data into the global frame, enabling accurate determination of speed, acceleration and position. In particular it allows fast real-time analysis of gait. The technology which has been validated in clinical trials can be manufactured using easily scalable techniques.

The simplicity of the technology means its applications go beyond traditional areas where gait is applied such as in physiotherapy to encompass other areas such as monitoring of patients with Parkinson's disease, multiple sclerosis and stroke.

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