

BIOGAIT

GAIT ANALYSIS SYSTEM



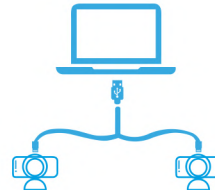
✓ Portable



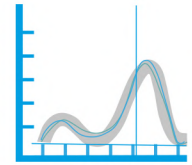
✓ Accurate



✓ Inexpensive



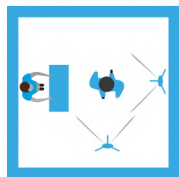
✓ Easy to install



✓ Reference Values



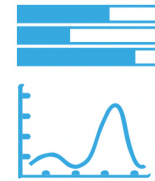
✓ Does not require installation works



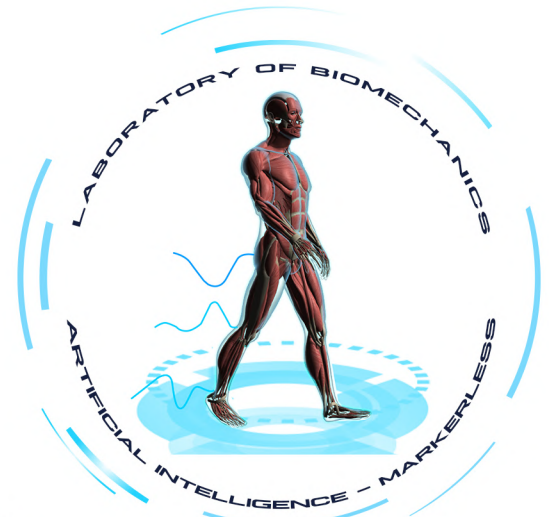
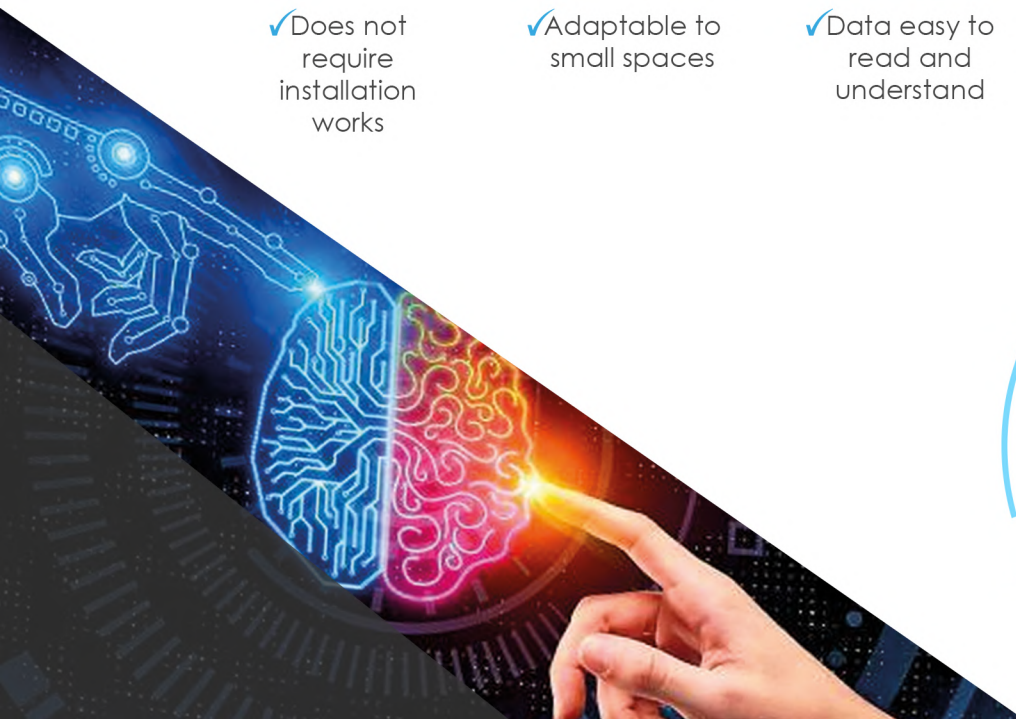
✓ Adaptable to small spaces



✓ Data easy to read and understand



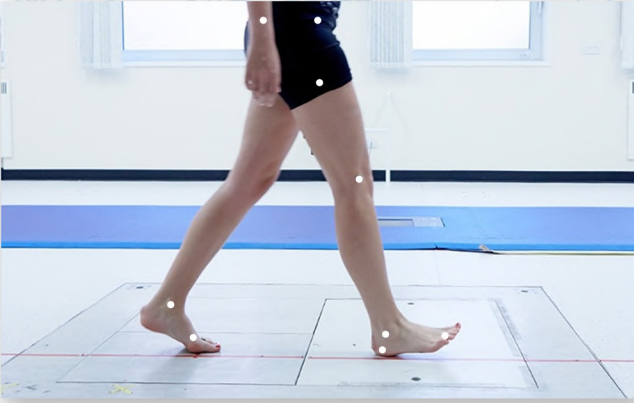
✓ Intuitive graphic representation



WHAT IS BIOGAIT?

BIOGAIT is a Gait Laboratory, based on **Artificial Intelligence** with **Neural Networks**, that calculates the kinematics of human body gait, without the need of using markers on the joints. It belongs to the **BIOLAB** family that has other modules such as Posture (**BIOPOSTURE**), Cycling (**BIOBIKE**), Running (**BIORUN**), free measurements (**BIOFREE**) and Motion Capture (**BIOTRACK**).

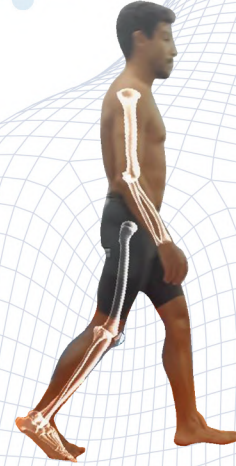
CONVENTIONAL TECHNOLOGY



Traditionally, gait has been measured with:

1. Home videos of low resolution, in a single plane and with little precision.
2. Very expensive reflective marker technology, requiring large spaces, specialized technicians to handle it and that, no matter how accurate it is, the precision is subject to the person who places the markers.

BIOGAIT

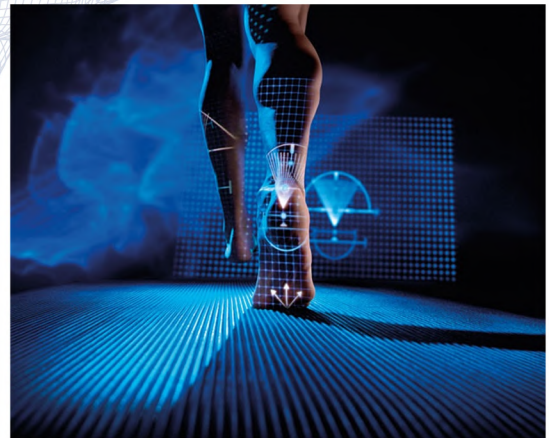


Markerless technology

The joint centers are located by means of artificial intelligence based on the subject's movement.

HOW DOES BIOGAIT WORK?

Through an ingenious **Artificial Intelligence** algorithm, the use of **Neural Networks**, and more than 18 years of experience in understanding the user's needs, we have created a system that allows us to recognize the human body in motion, in small spaces, indoors and outdoors, and calculate its joint centers and consequently build customized gait reports, also supported digital video, making the evaluator's work much easier, intuitive and flexible compared to conventional Gait Labs.



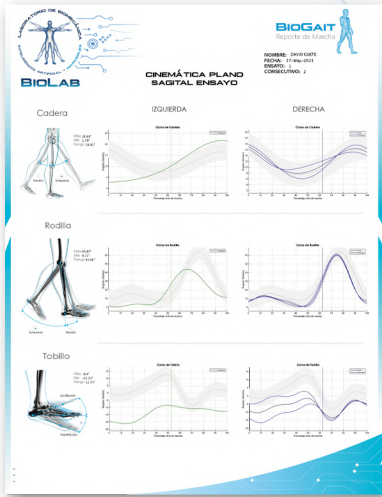
WHAT IS THE PURPOSE OF BIOGAIT?

To Democratize the Gait Analysis in the world, facilitating its access to any evaluator and Institution. Gait laboratories have historically been difficult to obtain due to their high cost, large space requirements, difficulties in importation and installation, and the scarcity of specialists who know how to read gait reports and specialized engineers to handle them.

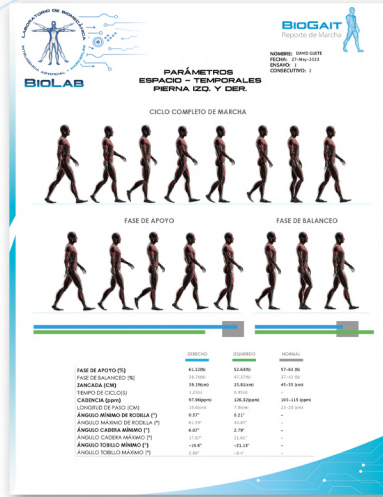
With **BIOGAIT** all these obstacles disappear and gait analysis becomes a routine measurement in any consulting room and can only be done by the physician and/or physiotherapist.



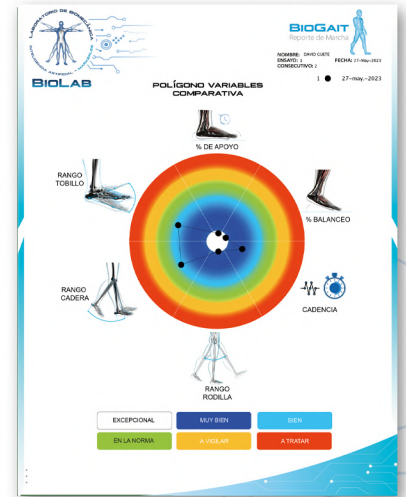
PROGRESS ANALYSIS REPORT



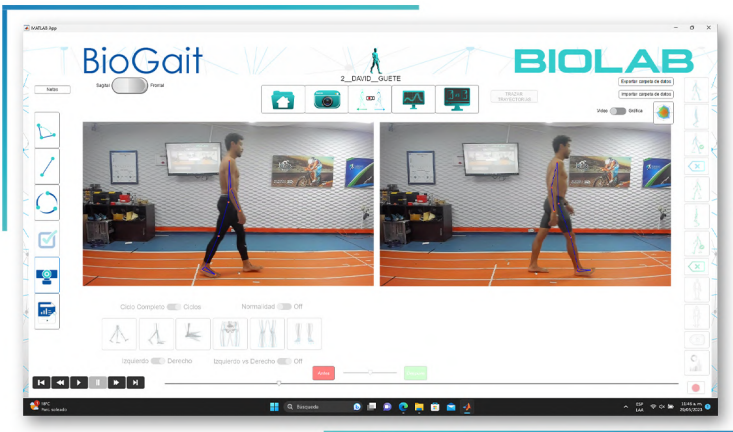
✓ Gait kinematic analysis of Hip, Knee and Ankle in the Sagittal plane.



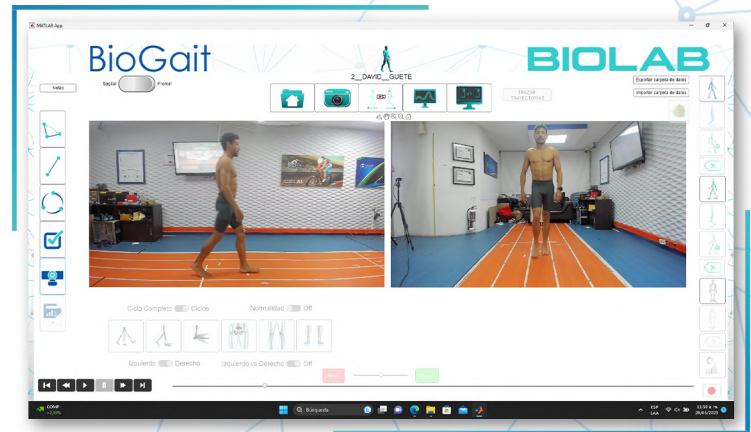
✓ Normal reference band and space-time parameters.



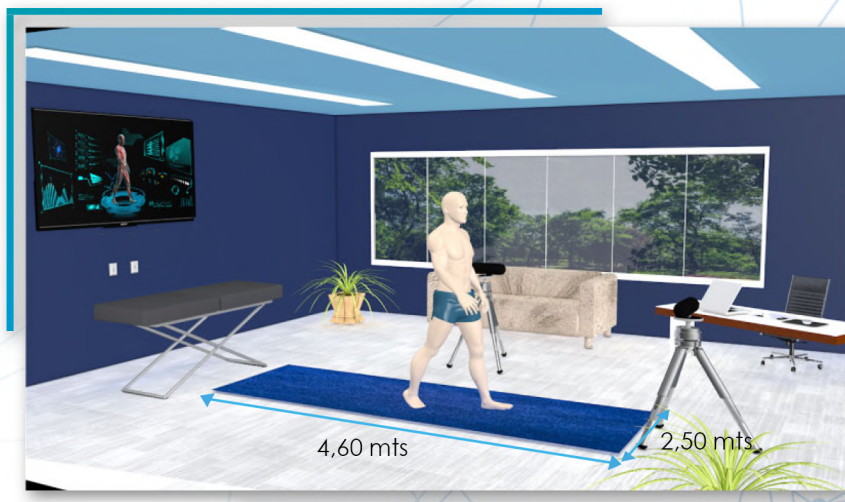
✓ Chromatic polygon of gait indexes for test comparison and follow-up of the patient in different dates.



✓ Comparison of videos and photos before and after treatment.



✓ Video analysis in the frontal and sagittal planes.



✓ **BIOGAIT** requires a minimum space of 4.60 x 2.50 meters of free area and can be located in an consulting room, or rehabilitation area with no particular lighting or electricity requirements.