

BIOBIKE

BIKEFITTING ANALYSIS SYSTEM



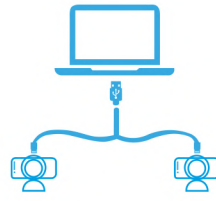
✓ Portable



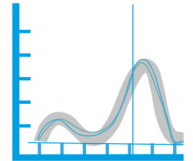
✓ Accurate



✓ Inexpensive



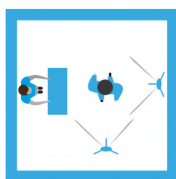
✓ Easy to install



✓ Reference Values



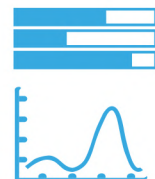
✓ Does not require installation works



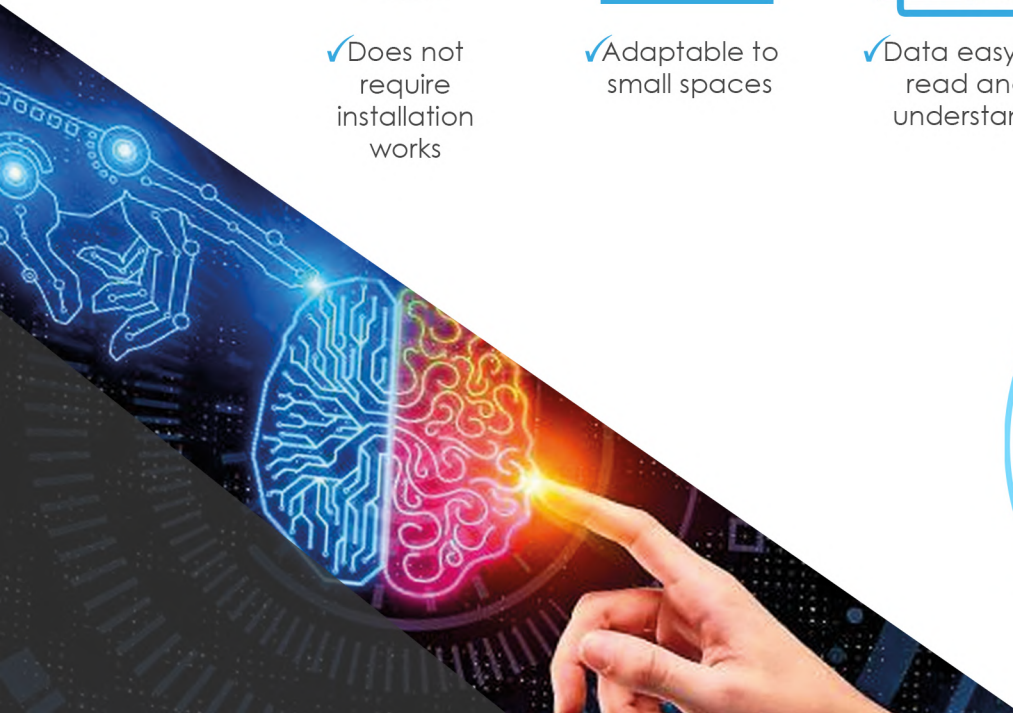
✓ Adaptable to small spaces



✓ Data easy to read and understand



✓ Intuitive graphic representation



IDEAL SOLUTION FOR BIKEFITTER!

WHAT IS BIOBIKE?

BIOBIKE is a Biomechanics Laboratory for cycling, based on **Artificial Intelligence** with **Neural Networks**, which calculates the kinematics of the cyclist, or on the round in simulator. It belongs to the **BIOLAB** family that has other modules such as Gait (**BIOGAIT**) Posture (**BIOPOSTURE**), Running (**BIORUN**) and free measurements (**BIOFREE**) and Motion Capture (**BIOTRACK**).

The joint centers of the human body are calculated based on the shape of the biker and its movement, thus eliminating the need for markers and allowing the Bikefitter to be very accurate in his evaluations.

CONVENTIONAL TECHNOLOGY



Wired Markers



Spherical Markers

BIOBIKE



Markerless technology

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

HOW DOES BIOBIKE WORK?

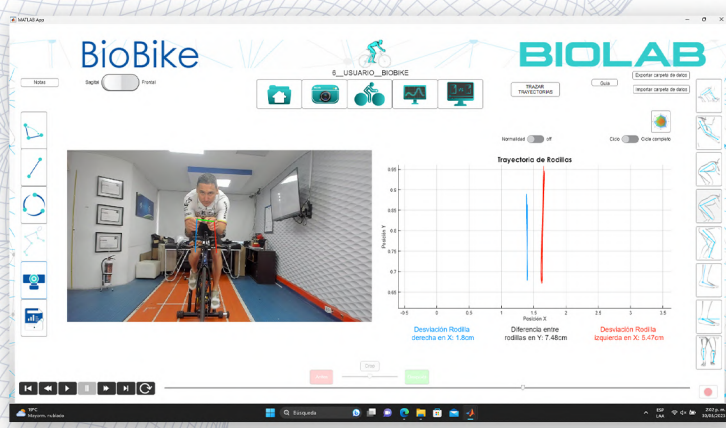
Through ingenious Artificial Intelligence algorithms, Neural Networks, and more than 18 years of Biomechanics experience, we have created a system that recognizes the human body in motion, in small spaces, indoors and outdoors, calculates the joint centers and consequently builds customized Cycling reports, supported also by digital video, making the Bikefitter's work much easier, intuitive and flexible compared to conventional Bikefit labs.



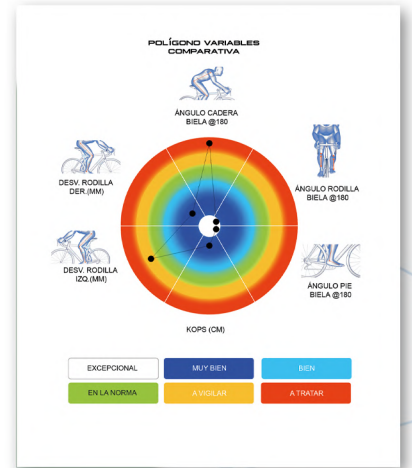
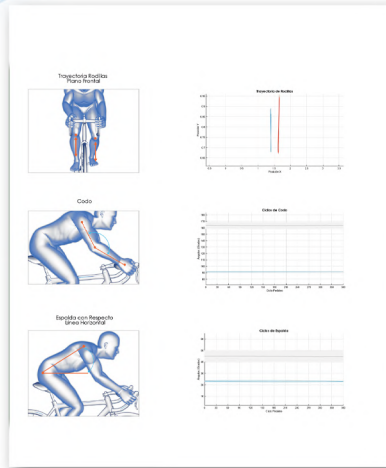
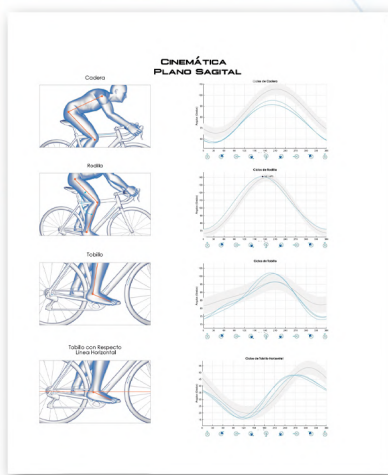
WHAT IS THE PURPOSE OF BIOBIKE?

To democratize Bikefitting in the world, facilitating its access to any cycling store, sports institution, bikefitter or trainer. Bikefit Systems have historically been difficult to obtain due to their high cost, large space requirements, import difficulties and only few Bikefit certified specialists.

With **BIOBIKE** all these obstacles disappear and in cycling analysis routine measurement in any salon, office or cycling store.

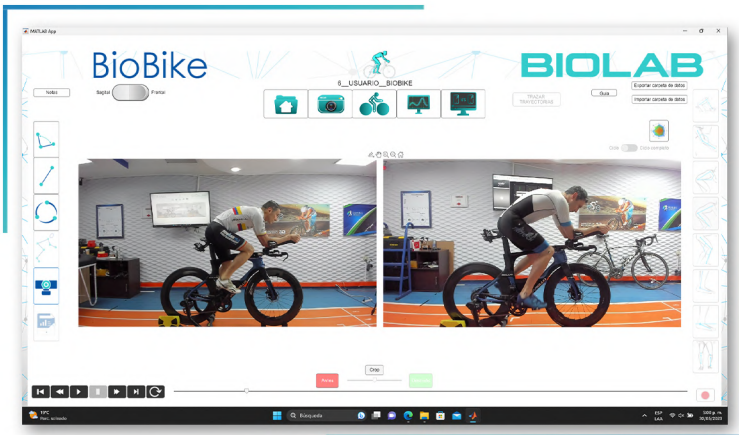


BIKEFITTING ANALYSIS REPORT

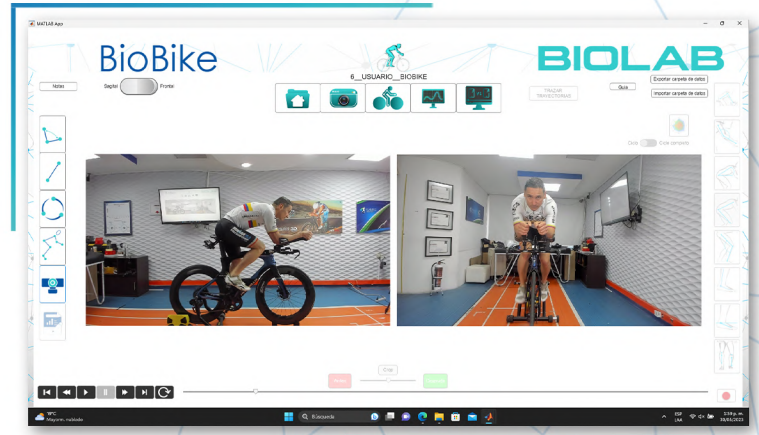


✓ Biomechanical analysis of the complete pedaling cycle of the kinematics of the Hip, Knee and Ankle in Sagittal and Frontal planes. Knee trajectory in the frontal plane.

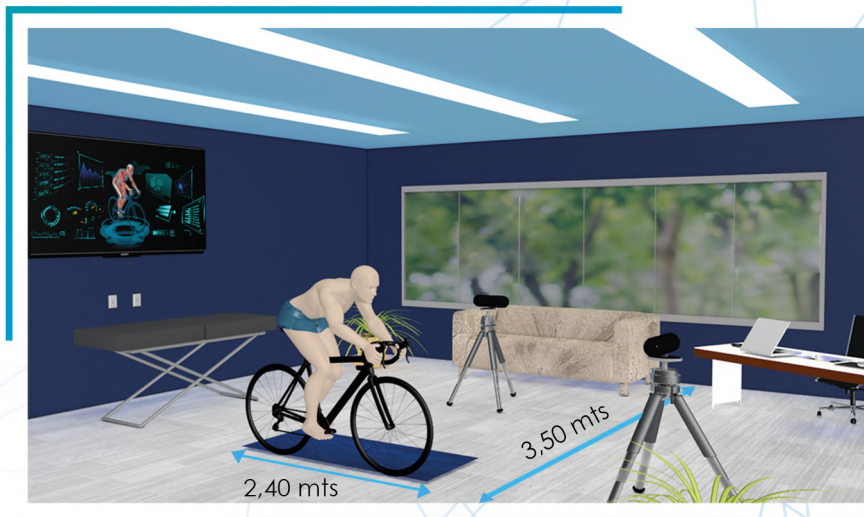
✓ Chromatic polygon of gait indexes for test comparison and follow-up of the patient in different dates.



✓ Comparison of videos and photos before and after treatment.



✓ Video analysis in the frontal and sagittal planes.



✓ **BIOBIKE** requires a minimum space of 2.40 x 3.50 meters of free area and can be located in an consulting room, or rehabilitation area with no particular lighting or electricity requirements.