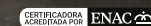




Your Ultimate Technological Partner for Sports & Wellness Innovation

AI-powered technology driven by data and images

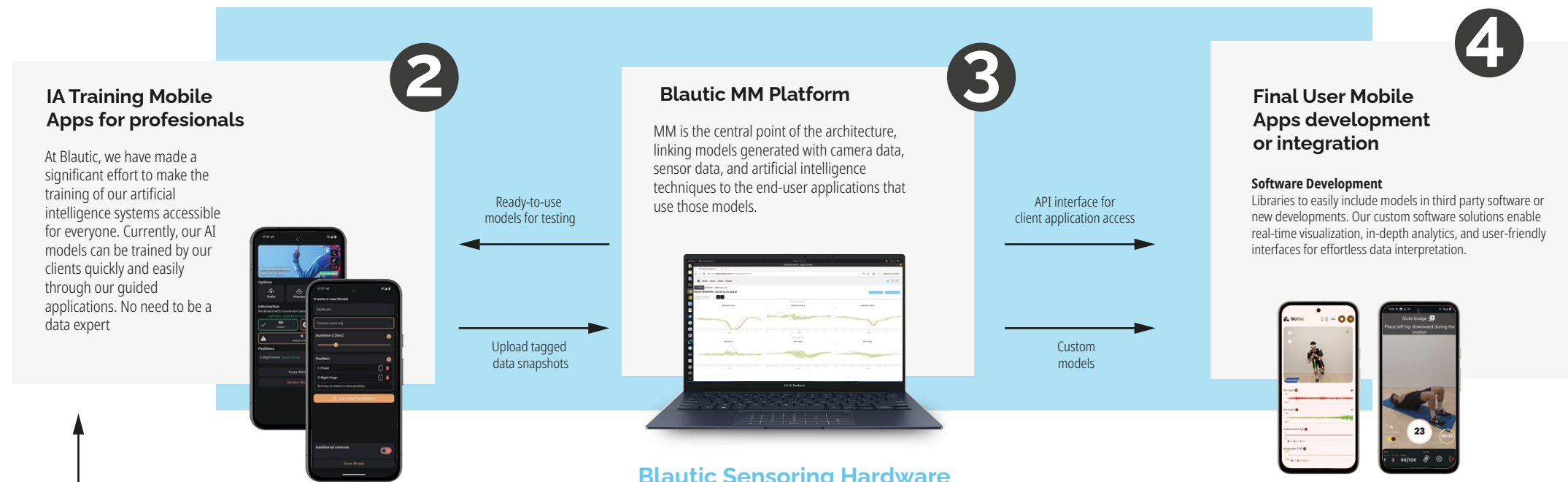


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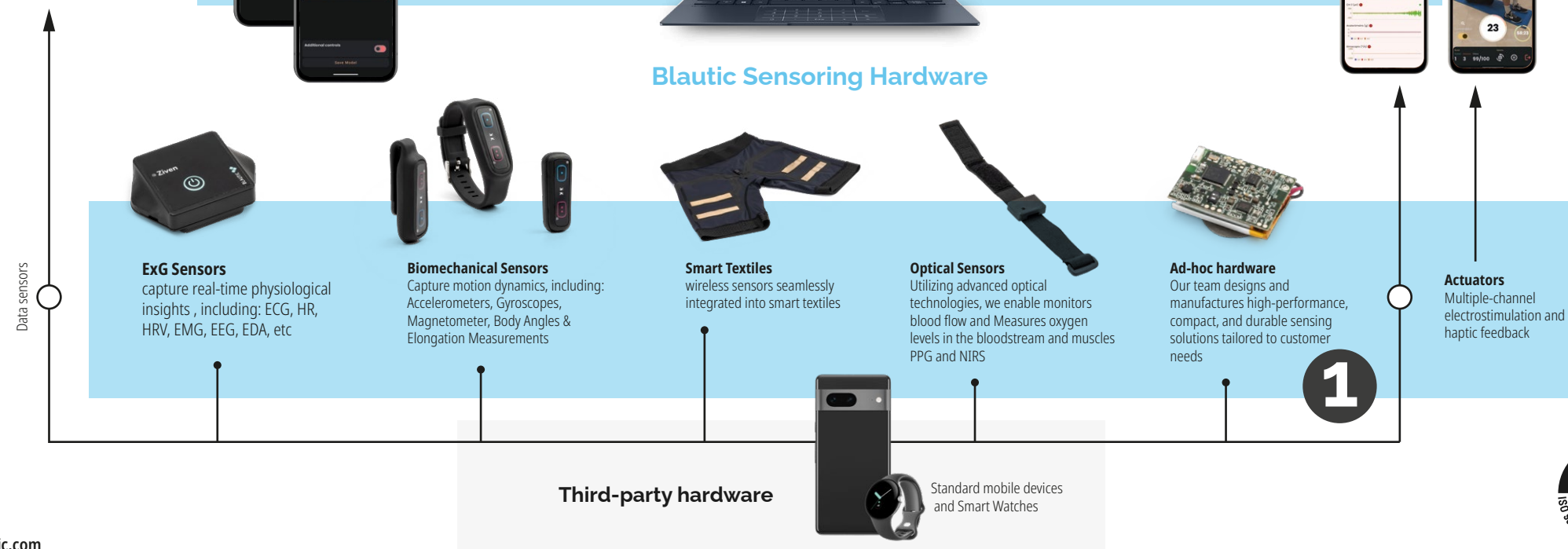
Comprehensive end-to-end solutions to transform **Sports & Wellness raw data** into actionable insights



Blautic XAI Cloud System



Blautic Sensoring Hardware



blautic.com
Plaza Poeta Vicente Gaos, 3, Bajo dcha, 46021 Valencia



Blautic Sensing Hardware

1

ExG Sensors

- Electrocardiography, Heart Rate, and Heart Rate Variability – Essential for cardiovascular monitoring.
- Electromyography – Measures muscle activation to analyze strength, fatigue, and movement efficiency.
- Electroencephalography – Tracks brain activity to assess focus, mental state, and cognitive performance.
- Bioimpedance & Electrodermal Activity – Provides insights into hydration levels, stress responses, and sweat analysis.

Optical Sensors

- Photoplethysmography – Monitors blood flow variations to assess heart rate and circulatory health.
- Oxygen Saturation & Muscle Oxygenation – Measures oxygen levels in the bloodstream and muscles for endurance tracking and recovery optimization.

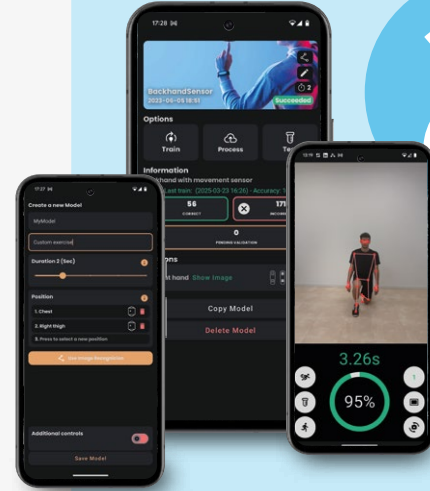
Biomechanical Sensors

- Accelerometers, Gyroscopes, and Magnetometers – Essential for detecting movement, speed, acceleration, and orientation.
- Body Angles & Elongation Measurements – Provides in-depth analysis of posture, flexibility, and range of motion.



IA Training Mobile Apps for professionals

2



An easy-to-use XAI (eXplainable Artificial Intelligence) platform designed to help professionals create machine learning models in a simple and guided way to detect exercises and gestures relevant to their field of activity. The models can be defined to use camera and sensor data based on the professional needs.

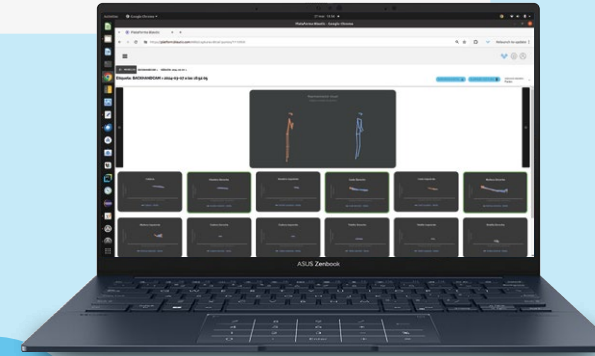
Features:

- Create your model by selecting data sources, such as camera images and/or sensor data from wearables.
- Capture and label data using built-in tools based on your expertise.
- Train your model in the cloud with a simple command.
- Download and test your trained model before deployment.
- Share your best models with other professionals.

Features:

- Database of all model captures,
- Data processing for quality assurance,
- Automated model creation and training routines,
- Built-in explainability generation,
- Training status monitoring,
- Remote access interface for applications,
- Security management,
- User access control,
- Download control, and
- Web portal for capture review.

3



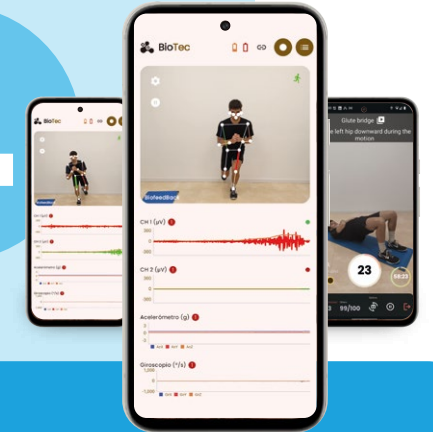
Blautic MM Platform

MM is the central point of the architecture, linking models generated with camera data, sensor data, and artificial intelligence techniques to the end-user applications that use those models.

Final User Mobile Apps development

Our technology has been successfully applied to various sports and applications ... In tennis and padel, we have analyzed stroke gestures using sensorized shirts, provided biofeedback with augmented reality applications in physical exercises, monitored movements in handball and basketball, corrected reaction times in table tennis, measured runners during fatigue phases, monitored triathletes, ...

4



Use cases

- Analyze and refine athletes' movements by comparing them to standard models, aiding both **learning and routine training**.
- Objectively quantify **workload** throughout each phase of the season.
- Capture key **performance data** -such as intensity, acceleration, rotations, angles, and muscle activity- only during the relevant movements.
- Ensure that, even when they are not present, your clients perform the exercises with the required **quality** to improve their performance or fitness and avoid injuries.
- Develop custom models to identify and detect specific **movement errors**.