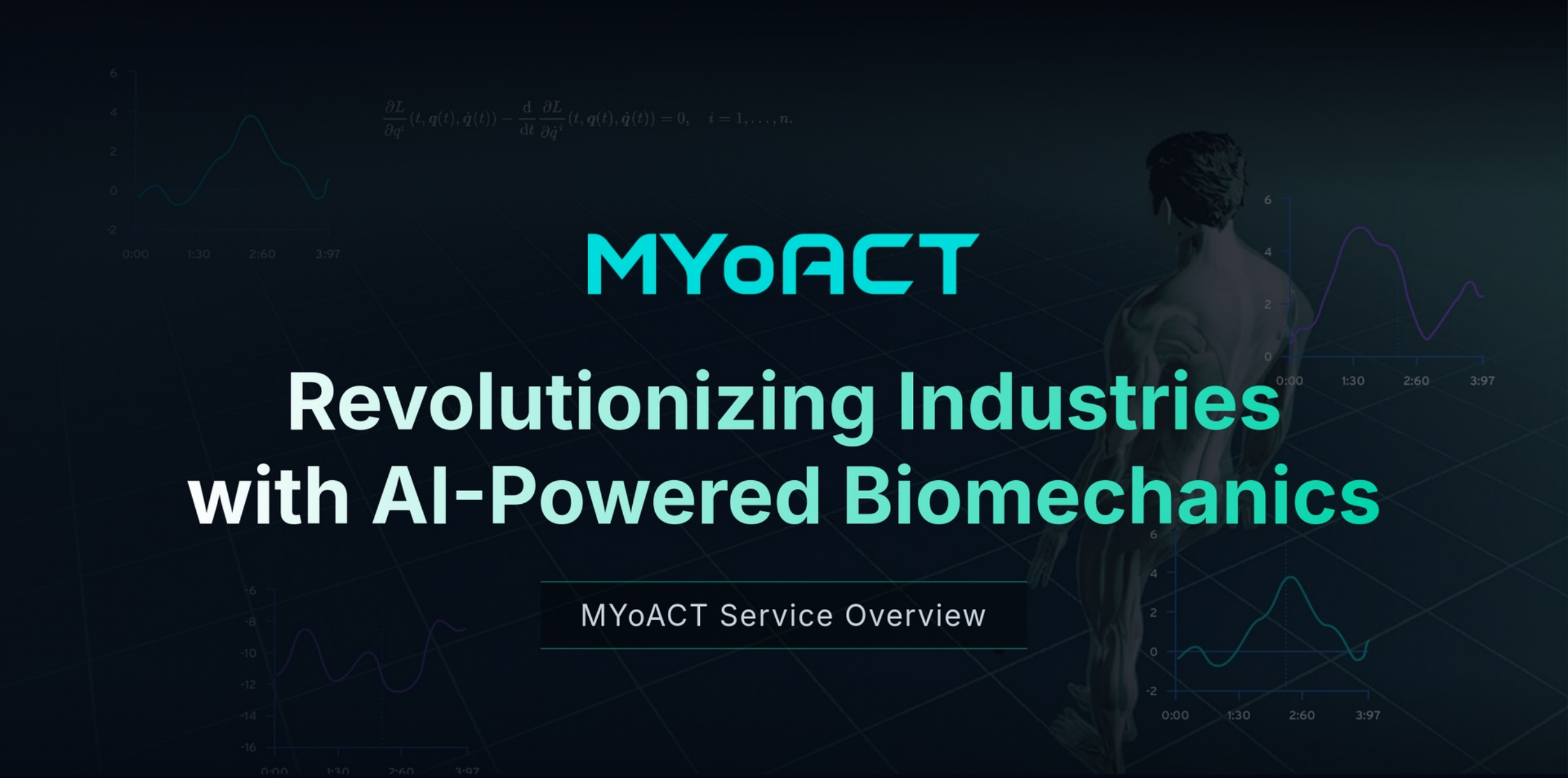
MYoACT

Revolutionizing Industries with AI-Powered Biomechanics

MYoACT Service Overview



High-Precision Data from a Single Video

3D Visualization

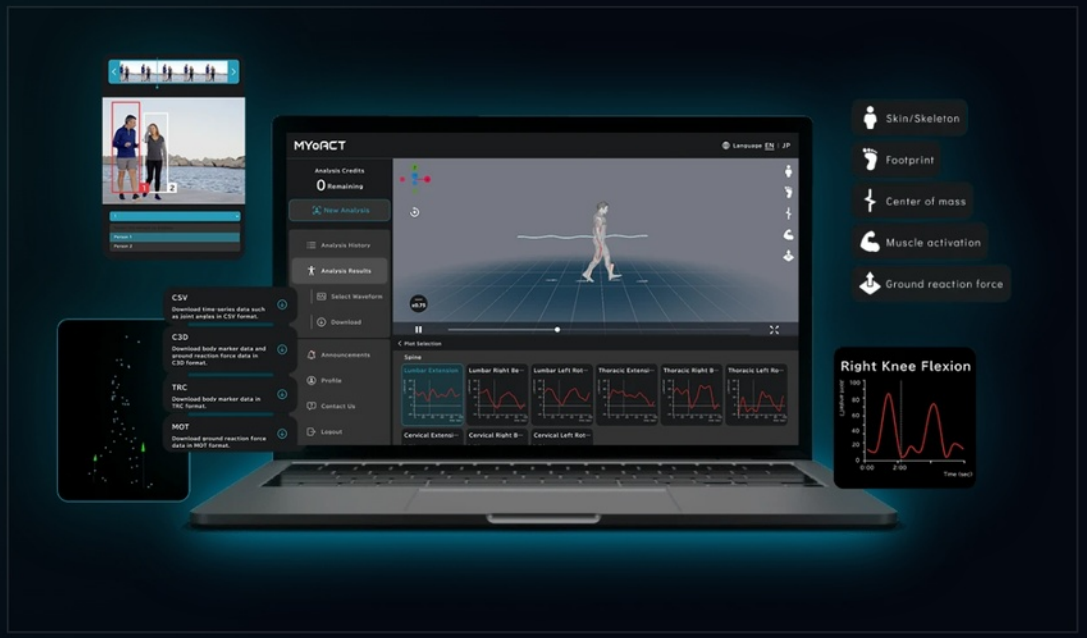
Obtain joint angles, ground reaction forces, joint torques, and muscle activation data. Display and visualize with 3D models.

No Equipment Required

No motion capture systems, force plates, or calibration needed. Analyze with just a smartphone.

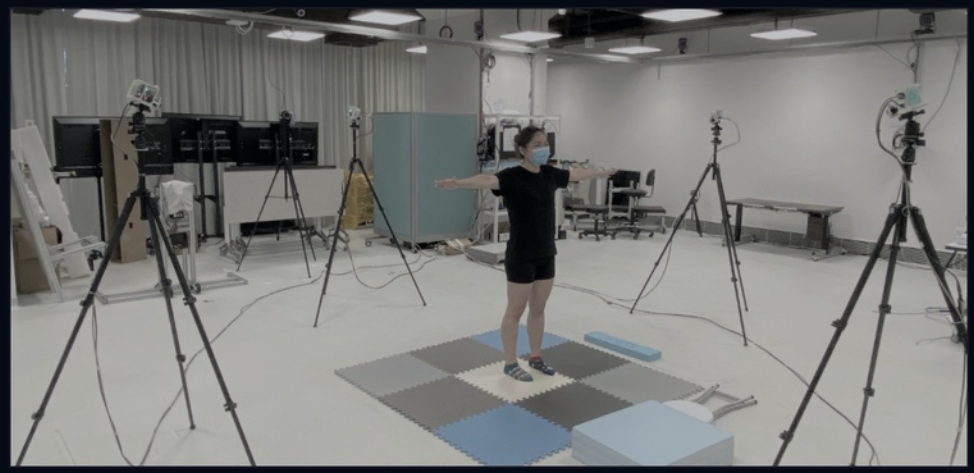
Broad Applications

Optimal analysis for any field involving human movement, including healthcare and sports.



Redefining Motion Analysis.

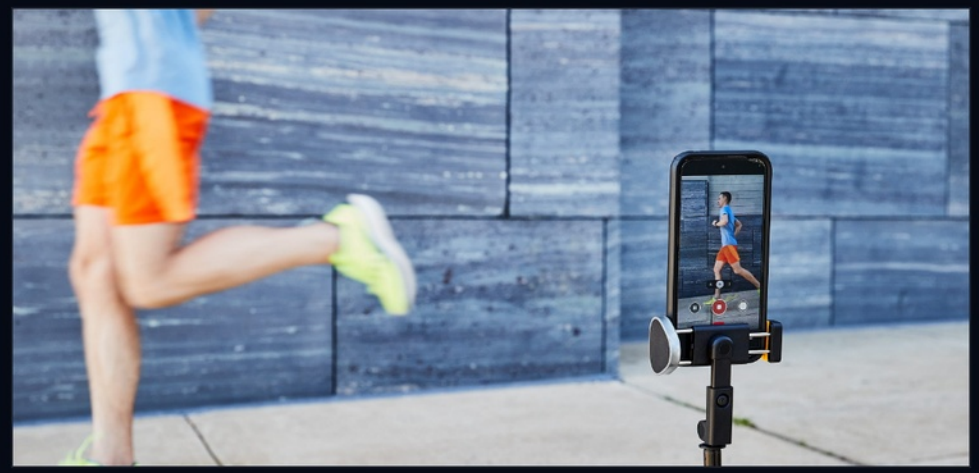
Traditional Method



- Expensive specialized equipment
- Markers attached to subjects
- Complex calibration required
- Time and location constraints

VS

MYoACT



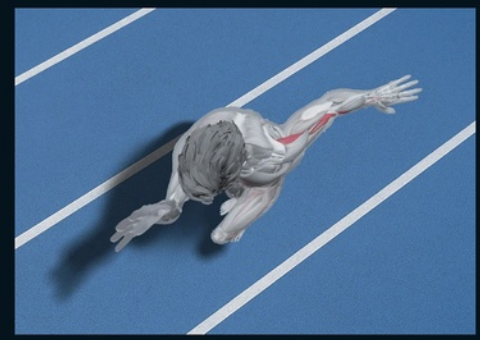
- **Video-only analysis**
- **Markerless**
- **No calibration needed**
- **Anytime, anywhere**

Complete Analysis on Your Device

STEP 01

Record with Your Device

STEP 02



Run MYoACT
Musculoskeletal Analysis

Advanced motion analysis made accessible for anyone, anywhere.

Core Technology

01

Pose Estimation

From a single-angle video, reconstruct 3D motion and posture viewable from any 360-degree perspective.

02

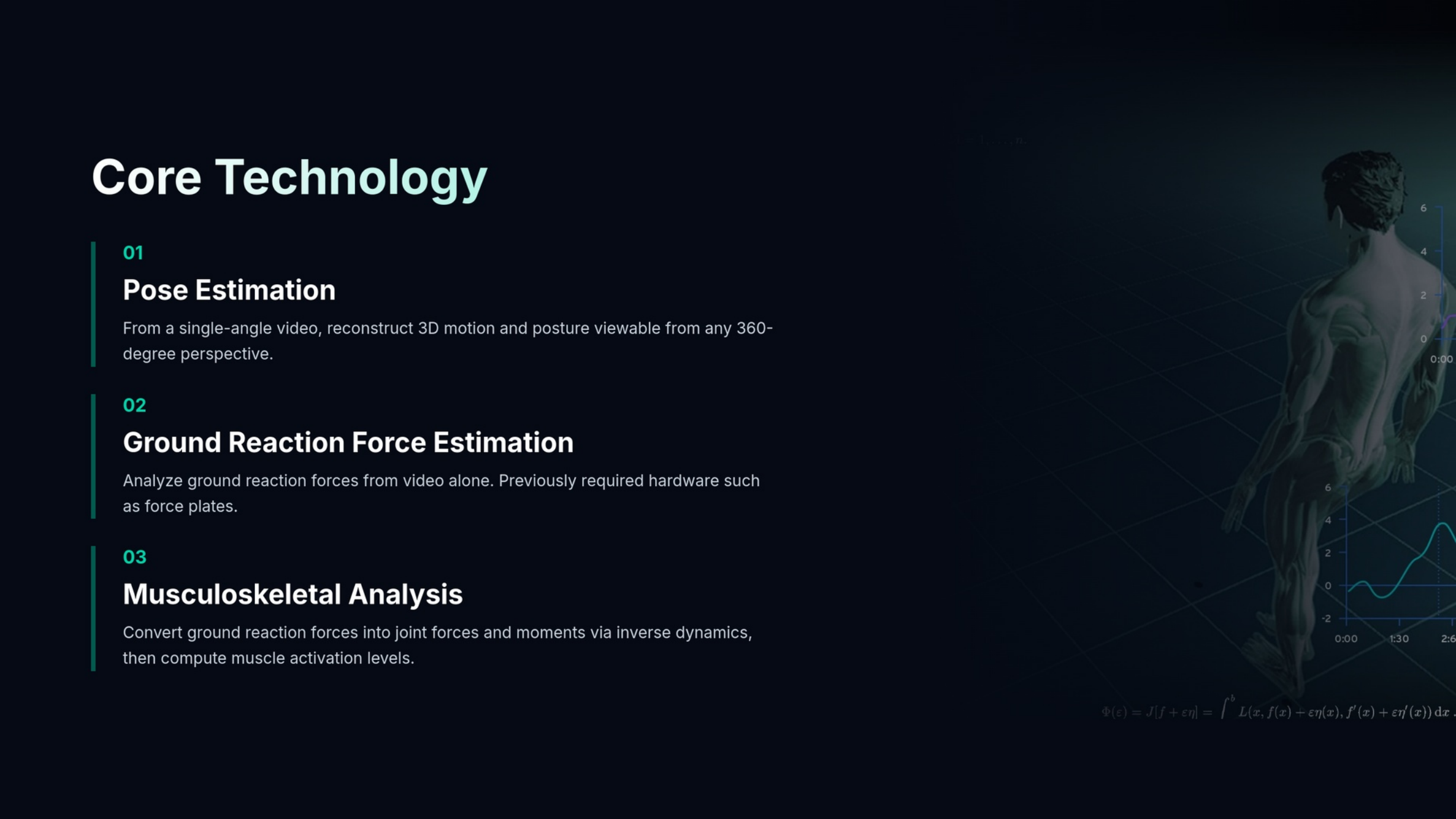
Ground Reaction Force Estimation

Analyze ground reaction forces from video alone. Previously required hardware such as force plates.

03

Musculoskeletal Analysis

Convert ground reaction forces into joint forces and moments via inverse dynamics, then compute muscle activation levels.



World-Class Analysis Accuracy

Joint Angle

Error
5.65°

Correlation
0.98

Ground Reaction Force

Error (BW)
0.05

Correlation
0.85

Joint Torque

Error (BW*Ht)
0.01

Correlation
0.83

Muscle Activation

Accuracy
World-Class Accuracy

Correlation
0.55

MYoACT Engine API

MYoACT also offers a public API.
Integrate MYoACT into your own services.

Pose Estimation
Joint angles & positions

Ground Reaction Force
Force direction & magnitude

Joint Torque
Joint loads

Muscle Activation
Muscle activity level

Pricing

Pricing details will be provided during an online meeting.

Book an Online Meeting →

Opens booking page

Company Overview

ORGO Inc.

COMPANY NAME

ORGO Inc.

FOUNDED

August 7, 2020

BOARD MEMBERS

CEO	**Noriyoshi Komoda**
Director (R&D)	**Ryo Ueno**
Director (Product)	**Takumi Nakazono**

RESEARCH PARTNERS

- National Center for Global Health and Medicine
- Hokkaido University
- Asahikawa Medical University Hospital

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https://orgo.co.jp/