pitchready

SPORTS BIOMECHANICS & PERFORMANCE · EST 2018

AN INTRODUCTION

PITCH READY BioMech®

Clinical biomechanics processing, interpretation and benchmarking — built on the data you already capture.

WHAT IT IS

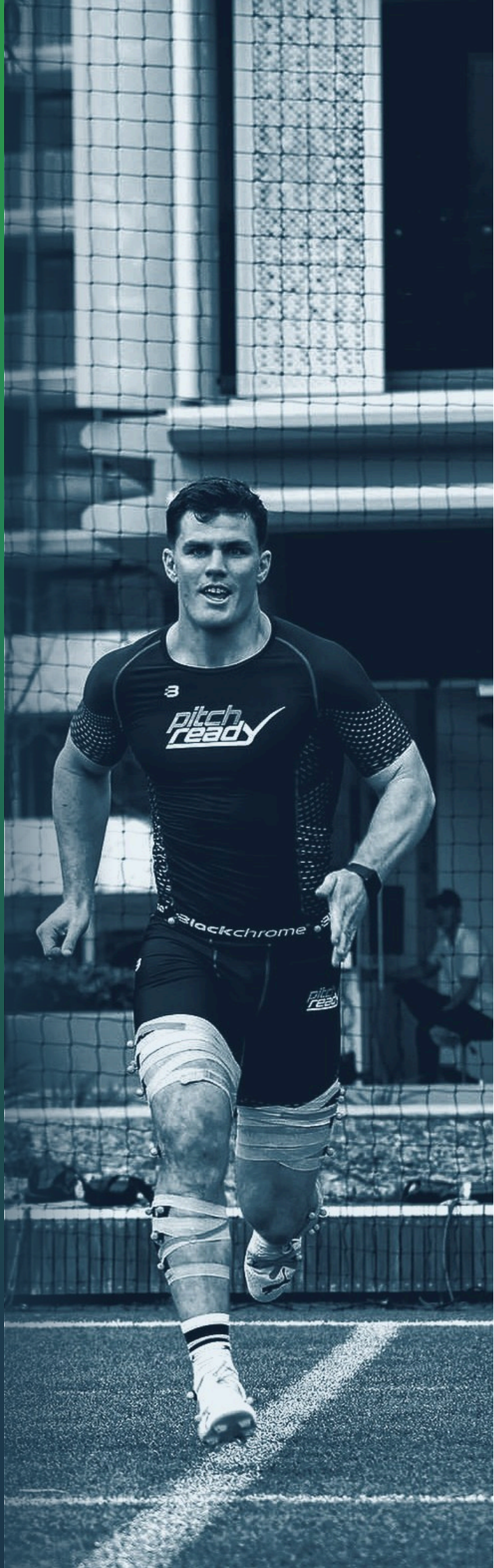
A BioMech capture partnership — processing · interpretation · benchmarking

WHO IT'S FOR

Clinics & institutions — already capturing 3D motion data in-house

LEARN MORE

pitch-ready.com · admin@pitch-ready.com



01 OVERVIEW

AN OVERVIEW OF PITCH READY

Lower-limb injuries account for the majority of time-loss in team sport, with direct consequences for athlete availability, performance and revenue. Pitch Ready was built to change how those injuries are predicted and managed — moving past one-size-fits-all protocols toward individualised, gold-standard 3D assessment of how each athlete actually moves.

The platform is the culmination of more than a decade of research and over thirty years in professional sport. In 2019 it was shortlisted at the Yahoo Sports Technology Awards in London under Best Technology for Athlete Welfare. Today it underpins injury-prevention and return-to-sport decisions for clinicians and performance staff across five countries.

1,500+	364+	5	10+ yrs
ATHLETES BENCHMARKED	NORMATIVE METRICS	COUNTRIES	RESEARCH & DEVELOPMENT

TRUSTED ACROSS PROFESSIONAL CODES WORLDWIDE

Pitch Ready data has informed assessment across rugby league, rugby union, AFL, football and basketball — spanning the NRL, Premier League, NFL, NBA, A-League and beyond.

02 THE PRODUCT

WHAT PITCH READY BIOMECH DOES

BioMech is built for clinics and institutions that already capture their own motion data. You run the testing in your facility; we turn it into clinical insight — pairing your raw data with our licensed clinical team, normative database and automated reporting engine.

1

CAPTURE

Your team collects 3D kinematic and capacity data on your existing Vicon system, using our standardised protocols, marker templates and Nexus pipelines.

2

PROCESS

Raw data is uploaded to the Pitch Ready platform. Our engine processes it and builds a complete automated athlete report, benchmarked against 364+ normative metrics.

3

IMPLEMENT

Our clinical staff record an interpretation for each athlete and return it within 72 hours — with clear, actionable recommendations your clinicians can apply immediately.

WHAT GETS MEASURED

A full lower-limb battery combining capacity, strength and gold-standard 3D kinematics during sport-specific movement.

- **Speed / Acceleration** — 3D kinematics
- **Change of Direction** — unanticipated cutting, 3D
- **Clinical Baselines** — ROM & clinical scores
- **Hamstring Strength**
- **Calf Strength**
- **Hip / Groin Strength**
- **Vertical Power** — stationary jump
- **Quadriceps Strength** — single-leg squat, 3D
- **Horizontal Power** — single-leg hop
- **Reactive Horizontal Power** — cross hop, 3D
- **Reactive Vertical Power** — drop jump, 3D
- **Automated reporting** — per athlete, on submission

03 POINTS OF DIFFERENCE

WHAT SETS PITCH READY APART

Our core advantage is sport-specific, real-world testing. We assess lower-limb joints under conditions that replicate actual injury scenarios — the additional layer that lifts accuracy in both prevention and return-to-sport decisions.

SPEED & AUTOMATION

Reports in moments, not weeks

Industry-standard kinematic analysis can take a week per athlete. Our automated reporting delivers comparable depth on submission. You capture the data — we handle the rest.

EXPERT INTERPRETATION

Clinicians, not just dashboards

Every submission is read by our clinical team, who record findings and recommendations your medical and performance staff can act on directly.

PREDICTIVE PREVENTION

Find risk before it becomes injury

Our kinematic assessment flags currently healthy athletes at elevated lower-limb risk, enabling proactive intervention rather than reaction.

SMARTER OVER TIME

Beyond left-leg vs right-leg

We move past simple inter-limb comparison, drawing on group-based norms and historical data from both injured and healthy populations — refined with every test.

VOLUME & MOBILITY

Test athletes at scale

Motion capture paired with rapid processing lets large athlete numbers be screened quickly and efficiently, without bottlenecking your clinic.

VALIDATED BY REAL DATA

~1,500 tests, not 20–150

Our models are built on roughly 1,500 tests across professional codes. Most published work in this field relies on 20–150 athletes — our dataset enables statistically robust insight.

INJURIES WE SCREEN FOR

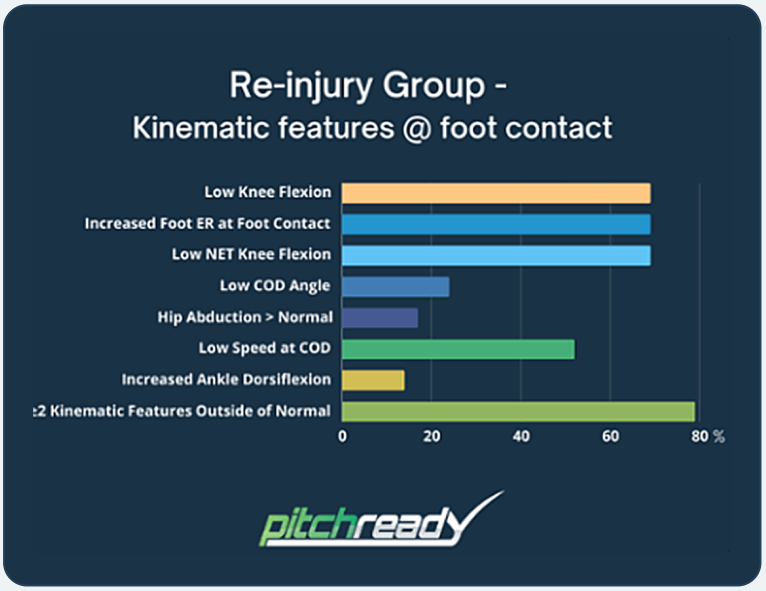
Pitch Ready's unique assessment of feed-forward biomechanics highlights risks common in the majority of lower-limb injuries, including:

- **Anterior Cruciate Ligament (ACL)**
- **Calf & Achilles Tendon Injuries**
- **Lower-Limb Tendinopathy & Overuse Injuries**
- **Patellofemoral Instability**
- **Quadriceps & Patellar Tendon Injuries**
- **Hip, Groin & Core Muscle Injuries**

04 THE EVIDENCE

PROVEN IN RETURN-TO-SPORT

Since 2018, Pitch Ready has provided ACL recovery benchmarking for over 1,500 athletes across Australia, New Zealand, Japan, the UK and the USA. A sub-group analysis of 235 professional athletes who tested and returned to sport identified three key kinematic features associated with elevated ACL re-injury risk: frontal-plane hip position with COD, sagittal knee position, and axial-plane hip/lower-leg relationship.



23%

Re-injury rate, athletes under 25 (Beischer et al, 2020)

17.4%

Re-injury, athletes who tested **outside** our normal range

0.86%

Re-injury, athletes who tested **within** our normal range

Data accurate at time of publication; re-injury rate includes contralateral injuries for all athletes cleared to return to sport.

CASE STUDY — 2019 NRL PRE-SEASON SCREEN

35 professional rugby league athletes were screened with Pitch Ready before the season. Risk ratings were delivered to the club, but detailed analysis and rehab recommendations were deliberately withheld to preserve a true control group.

RISK CATEGORY	ATHLETES (35)	KNEE INJURIES IN SEASON
High Risk	11	**6**
Medium Risk	14	0
Low Risk	10	0

Without intervention, **6 of the 11 high-risk athletes** sustained knee injuries across the season — every in-season knee injury occurred within the high-risk group.

GROUNDED IN PEER-REVIEWED RESEARCH FROM OUR TEAM

McGrath, T.M., Waddington, G., Scarvell, J.M., Ball, N.B., Creer, R., Woods, K., & Smith, D. The effect of limb dominance on lower limb functional performance: a systematic review. *Journal of Sports Sciences*, 2016; 34(4): 289–302.

McGrath, T.M., Waddington, G., Scarvell, J.M., Ball, N., Creer, R., Woods, K., Smith, D., & Adams, R. (2016). An Ecological Study of Anterior Cruciate Ligament Reconstruction, Part 1: Clinical Tests Do Not Correlate With Return-to-Sport Outcomes. *Orthopaedic Journal of Sports Medicine.*

McGrath, T.M., Waddington, G., Scarvell, J.M., Ball, N., Creer, R., Woods, K., Smith, D., & Adams, R. (2017). An Ecological Study of Anterior Cruciate Ligament Reconstruction, Part 2: Functional Performance Tests Correlate With Return-to-Sport Outcomes. *Orthopaedic Journal of Sports Medicine*, 5(2).

McGrath, T.M., Hulin, B.T., Pickworth, N., Clarke, A., & Timmins, R. (2020). Determinants of hamstring fascicle length in professional rugby league athletes. *Journal of Science and Medicine in Sport*, 23(5): 524–528.

05 THE PARTNERSHIP

A WORKING PARTNERSHIP

You already have the capability to capture motion data in-house. This engagement focuses on our core value-add — advanced processing, automated reporting and expert clinical interpretation — with a clear split of responsibilities between both teams.

SCOPE & ASSURANCE

Because biomechanists provide objective data but cannot issue return-to-sport clearance within their scope of practice, Pitch Ready BioMech bridges that gap: our interpretation is provided under Pitch Ready's own scope of practice and indemnity insurance, strengthening the objective basis for your treating clinicians' return-to-sport decisions.

PITCH READY PROVIDES

- ✓ **Platform access.** One user seat on the Pitch Ready SaaS platform for data submission and athlete reports.
- ✓ **Unlimited RTS testing.** Processing and report generation for an unlimited number of submitted RTS tests throughout the term.
- ✓ **72-hour clinical read.** A recorded (non-live) Zoom interpretation with Pitch Ready clinical staff within 72 hours of each completed submission, with recommendations for every athlete testing instance.
- ✓ **Testing apparel.** Pitch Ready testing skins provided as part of the agreement — male & female, various sizes.
- ✓ **Marker clusters.** Blank marker clusters for use in testing.
- ✓ **Capture templates.** All .vsk marker templates and Vicon Nexus pipelines required for athlete data capture.

YOU PROVIDE

- ✓ **Quality data capture.** Facilitate high-quality data capture, including the use of all testing equipment and consumables related to athlete data capture.
- ✓ **Data upload.** Upload raw data to the Pitch Ready platform on completion of each testing session.

IN SHORT

You own the capture environment and the athlete relationship. We supply the templates, processing engine, clinical reads and reporting that turn each session into a decision your clinicians can act on.

BIOMECH PARTNERSHIP · UNLIMITED RTS TESTING

US$10,000 / year

BILLING	TESTING VOLUME	PER-ATHLETE FEES
Annual fee	Unlimited RTS	None

One fixed fee, unlimited RTS testing, no per-athlete charges. Pricing excludes applicable taxes.

NEXT STEPS

LET'S GET YOU PITCH READY.

We'll tailor the engagement to your facility & testing volume. Get in contact to see how Pitch Ready can help your program.

PITCH READY

Dr Tim McGrath, PhD

tim@pitch-ready.com

PITCH READY

Jon McGrath, Strategic Partnerships

jon@pitch-ready.com

GET IN TOUCH

Visit our website or email

www.pitch-ready.com
admin@pitch-ready.com