TRAZER®

ALIGNED PERFECTLY AT THE POINT WHERE
BIOLOGY, TECHNOLOGY & DATA INTERSECT.

Everybody moves.

TRAZER makes every *body* move better.

About TRAZER

Founded in 2012 just outside of Cleveland in Westlake, Ohio as a research and development company, TRAZER, Inc. is a leading innovator in technology that enhances and improves human performance at any age or physical capability.

Conceived by movement science pioneer, Barry French, Sr. and developed in concert with his wife MaryEllen and son Barry Jr., the first scalable TRAZER® (Tracking + Laser) system was introduced in 2017. Through collaboration with leading researchers, practitioners, and professionals from healthcare, senior care, and elite performance, the company has developed and refined game-changing technology to help *every* body move better.

Multi-patented and HIPAA-compliant, TRAZER is perfectly aligned at the point where biology, technology, and data intersect. Featuring applications across the continuum of an individual's history of movement, the Neuromechanical functionality of TRAZER has also proven invaluable in stroke, Parkinson's and recovery from mTBI/blast concussions and orthopedic injuries.

Today, hundreds of TRAZER units are deployed helping to assess, rehabilitate, strengthen, and mitigate risk while creating better outcomes for users, practitioners, and organizations.

Contact

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TRAZER, Inc.

Across the Continuum of Movement

Designed for physical rehabilitation, strengthening, and enhancing athletic performance, TRAZER engages the **brain + body™** to provide insights that are predictive, prescriptive, and preventative.

Applicable for work with patients, athletes and seniors whether enhancing performance, avoiding surgery, recovering from injury or managing condition-related issues, TRAZER tracks, measures and records metrics for **Balance**, **Kinematics, Dynamic Movement**, and **Neuromechanics**.

Activities are delivered in an interactive and engaging environment free of any sensors or wearables to allow more natural movement resulting in more accurate data. In addition, the system allows for the use of assistive devices such as walkers, wheelchairs, canes, and/or human assistance.

Balance

Increases strength and coordination and reduces fall risk.

Kinematics

Improves performance through better understanding of the body's position, velocity, and momentum.

Dynamic Movement

Identifies and monitors movement asymmetries and reaction times to help prevent injury, improve recovery, and enhance performance over time.
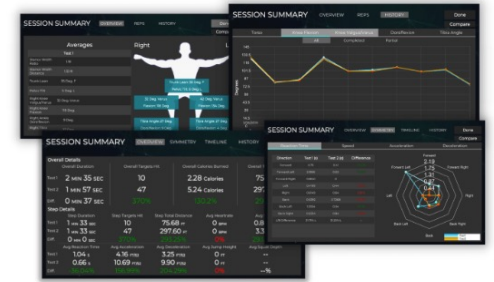
Neuromechanics

Assess the combined roles of the skeletal, muscular, and nervous systems and how they interact to produce the motion required to complete a motor task.

Better Outcomes

Predictive

TRAZER identifies areas of weakness creating the ability to predict risk.
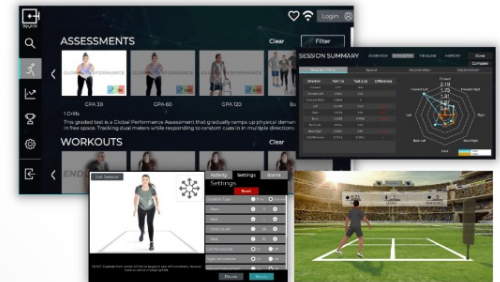
Prescriptive

TRAZER delivers activities that strengthen the **brain + body** connection to enhance performance and enable better rehabilitation.

Preventative

TRAZER generated data allows for more effective evaluation of neuromechanical function – key in preventing injury (or re-injury) and/or poor performance.

TRAZER XP®

REACTION-BASED CHALLENGES + IMMERSIVE SIMULATION + MOTION CAPTURE

+ DATA ANALYTICS = BETTER OUTCOMES

✓ High-powered depth sensing camera captures 32 key points on the body while proprietary algorithms process millions of data points in real-time.

✓ HIPAA-compliant web-based Application with robust reporting and control via TRAZER Portal.

✓ 100+ Reaction-based immersive activities – Assessments, Rehabilitation, Drills, Workouts, and Games.

✓ Immediate post-activity on-screen performance reporting.

✓ Detailed reporting and comparisons to print or PDF.

✓ Aligned with relevant Part B CPT Codes.

✓ Simple to implement. Easy to use. Game changing.

TRAZER INC.

POWERED BY

TRAZER

CLICK TO ENTER   1.0.6

"One of the greatest strengths of TRAZER is data that allows better analysis of cognitive function. By measuring movement, TRAZER helps find things we can actually fix to improve performance, health, and quality of life."

— **Dr. Randy Cohen**, AT, DPT
and TRAZER VP Elite Performance & Clinical Education
| Retired Associate AD for CATS Medical, University of Arizona

"I have seen the future of athlete development and it is called the TRAZER sport simulator!"

- Barry Sanders, NFL Legend

THE IMPACT OF FALLS

36 Million
Older Americans experience a fall each year.

$67 Billion
Expected cost of care for falls in 2020.

HIP FRACTURES:
95%
Of all hip fractures are caused by falls.

SERIOUS INJURY:
20%
Of falls result in a serious injury, such as head injuries and broken bones.

Every
0:00:11
seconds an older adult is treated in the ER for a fall.

Every
0:00:01
second an older adult falls.

Every
0:19:00
minutes an older adult dies from a fall.

1 OUT OF 4
Adults 65+ fall in the U.S. each year.

#1 CAUSE
Of injury-related death in people of 65 years old is falls.

2 X
Falling once doubles the chances of falling again.

SOURCES
Centers for Disease Control and Prevention. (n.d.). Important Facts About Falls.
National Council on Aging. (n.d.). Fall Prevention Facts.
Centers for Disease Control and Prevention. (2016). Falls are the Leading Cause of Injury and Death in Older Americans.
Patient Safety Center of Inquiry (PSCI) Research Patient Falls

Point of Proof

Leveraging objective brain + body data, TRAZER delivers Better Outcomes

- ✓ Reaction Time to Visual Cues
- ✓ Heart Rate
- ✓ Multi-directional Asymmetries
- ✓ Sway (Balance)
- ✓ Acceleration & Deceleration
- ✓ Speed & Distance Traveled
- ✓ Progression & Degradation
- ✓ Targets Hit
- ✓ Kinematic Joint Angles

Fall Prevention

In a baseline assessment using the the TRAZER Lateral Agility Screen (LAS 90), 65 Participants in 25 Senior Living Communities participated in a 5.5 Week Therapy Intervention Study.

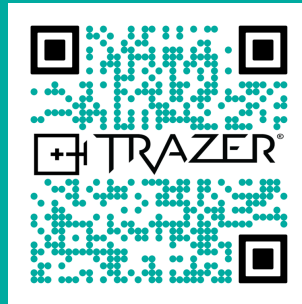At the onset, the average gait speed among the group was 0.89 feet per second.

- ✓ 36% reduction in Falls
- ✓ 80% increase in targets achieved
- ✓ 77% increase in distance covered
- ✓ 63% increase in gait speed
- ✓ 53% improvement in deceleration
- ✓ 52% increase in acceleration
- ✓ 21% faster reaction times

TRAZER, Inc.

Everybody Moves

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Watch: TRAZER in Action