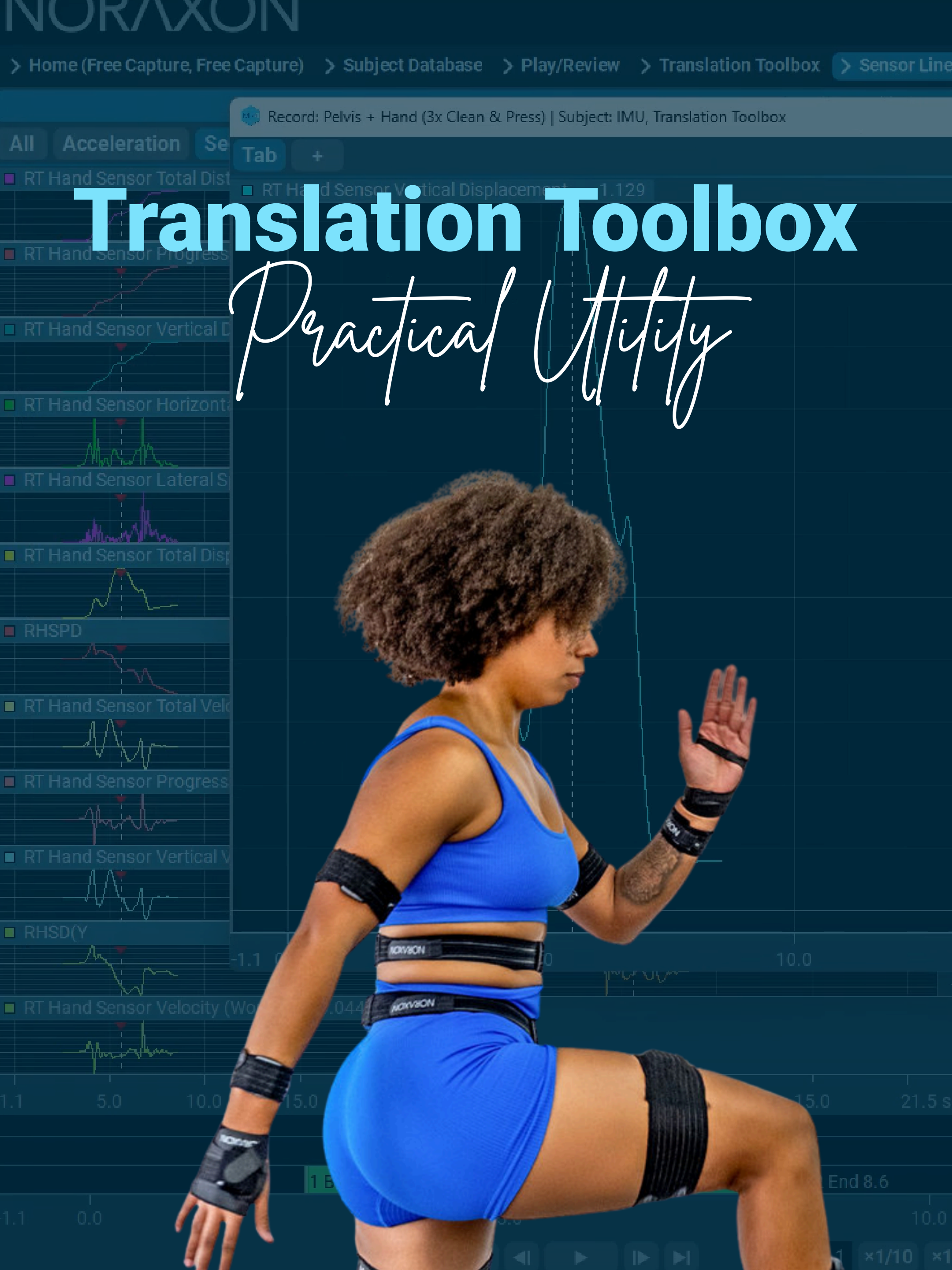
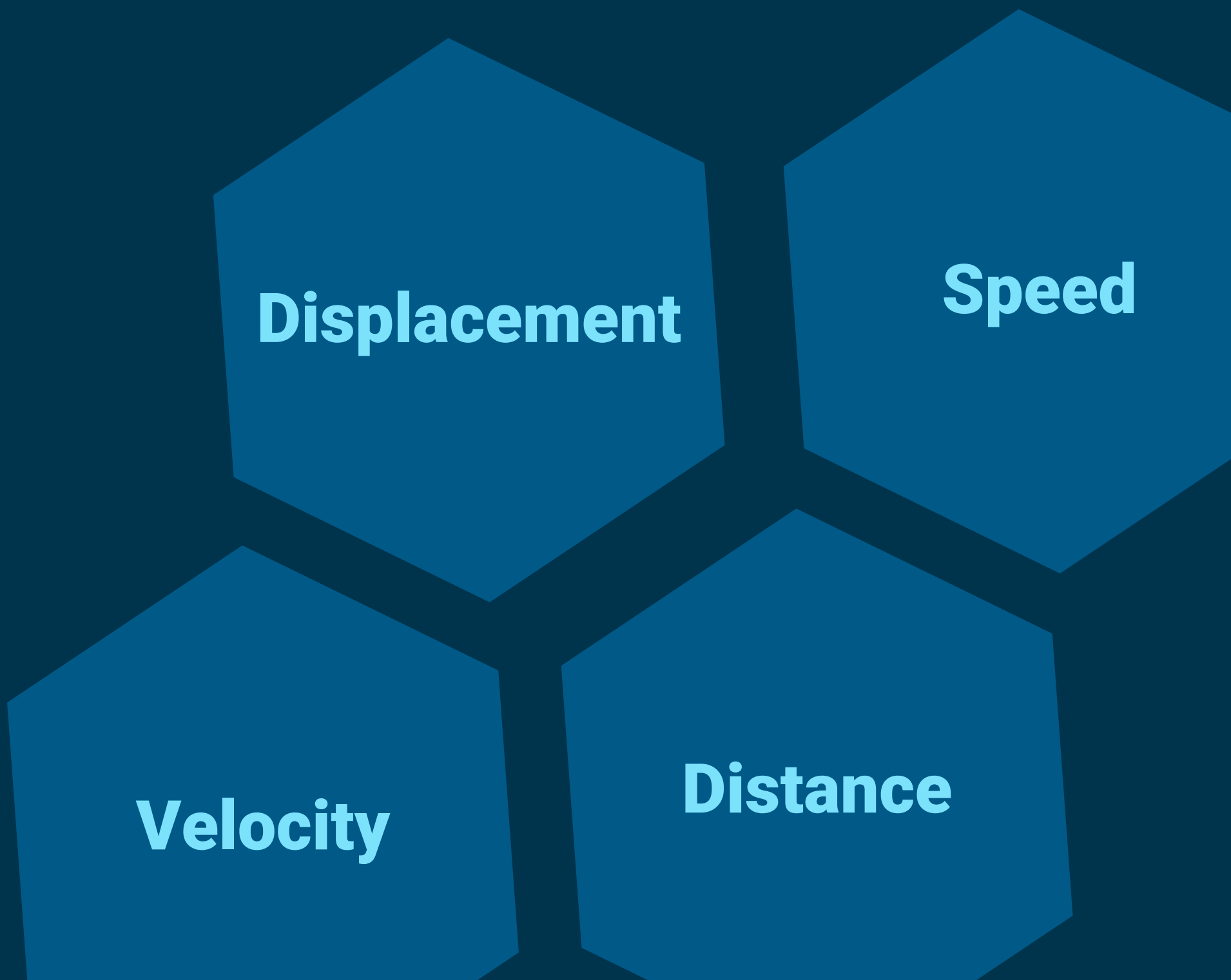
Translation Toolbox

Practical Utility



Translation Toolbox

Want to measure how far, how fast, or how much someone moves; using your IMU data? The Translation Toolbox in MR4 makes it easy to turn motion recordings into simple linear metrics like displacement, velocity, distance, and speed.



Use Case #1:

Jump Height Testing

Jump tests are a simple way to measure lower-body power and track recovery during rehab. With the Translation Toolbox, a single IMU on the pelvis can calculate jump height, takeoff velocity, and movement distance, giving clinicians clear numbers to monitor progress and guide return-to-play decisions.

Use Case #2:

Gait Analysis

Walking speed is a simple but powerful way to assess mobility, fall risk, and recovery in clinical settings. With the Translation Toolbox, clinicians can use IMU sensors to measure walking speed and movement distance during a walk test, providing objective data that is more reliable than a stopwatch.

Use Case #3:

Advanced Gait & Running Analysis

Running analysis helps clinicians track recovery, identify movement issues, and monitor performance as athletes return to sport. With the Translation Toolbox, simple IMU sensors can measure running speed, distance, and movement patterns, providing clear data to support return-to-sport decisions.

Data Into Decisions

Measure what matters:

Speed, distance, displacement, and jump height tied to real movement outcomes.

Simple Setup:

Start with 1 IMU; and then move on to add foot sensors for timing & symmetry.

Actionable Metrics:

Use jump metrics to assess power, walking speed to track mobility, and running metrics to monitor performance and recovery.

Learn More

NORAXON.COM