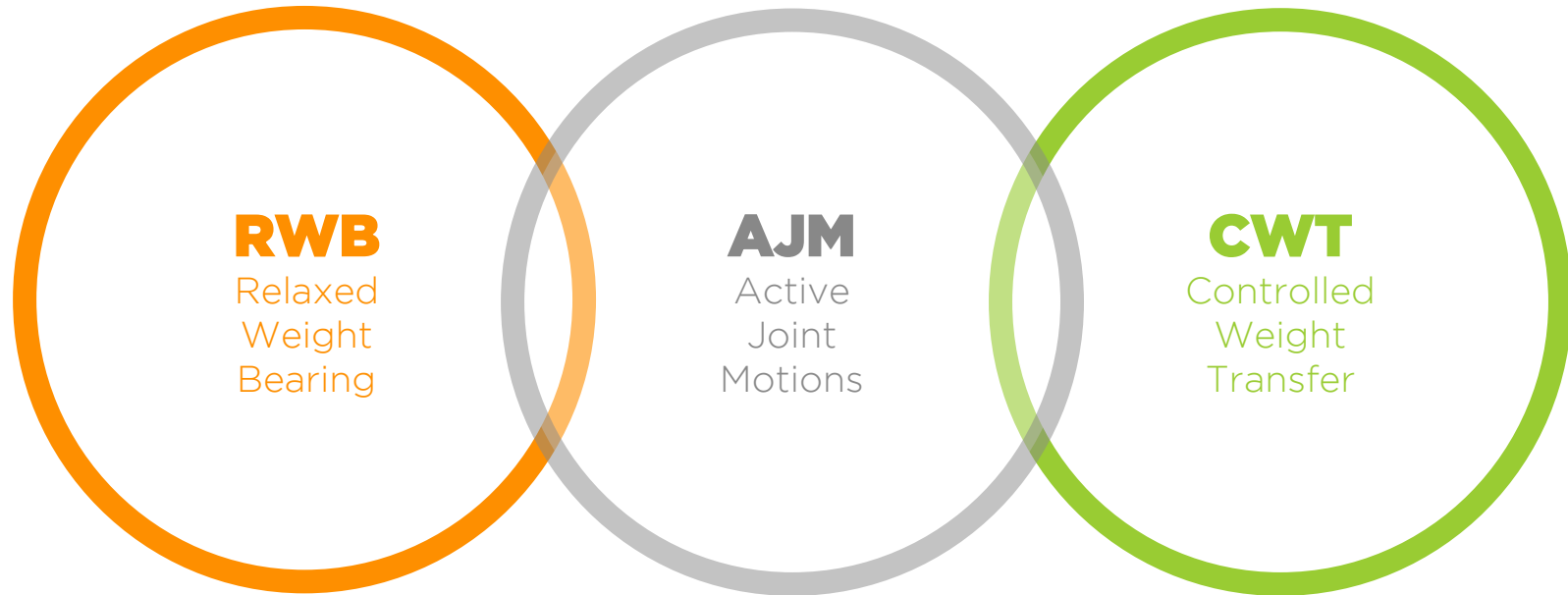


GCT Model: Measuring Performance 1

Data required from wearable sensors & predicted results



RWB

Relaxed
Weight
Bearing

AJM

Active
Joint
Motions

CWT

Controlled
Weight
Transfer

**Foot Pressure
Vertical Oscillation**

Consistent foot pressure throughout stance phase & minimal vertical oscillation indicates RWB.

**Angle of Hip Rotation
Horizontal GRF**

With AJM, hip rotation much greater & less contact friction due to circular hip motions creating wheel-like foot strike.

**Peak Vertical GRF
Impact Amplitude**

With CWT the body weight is not thrown up and down, bringing dramatically reduced vertical GRF & impact.

GCT Model: Measuring Performance 2

Potential to measure joint positions & correlate to sensor data

