ENROLLMENT

Recruitment and Screening
(Adults 18+ y.o.)

→ Recruited via flyer, email, and word of mouth.

→ Online screening survey to determine eligibility.

↓

Consent
(n = 14)

→ 7 males, 7 females
Age: 45 ± 20 y.o.
Height: 1.71 ± 0.10 m
Mass: 69.6 ± 11.0 kg

↓

INITIALIZATION

Overground Walking
(4 x 30m @ PWS)

↓

Treadmill Acclimation
(3 min @ PWS)

↓

DATA COLLECTION

Shoe Condition 1

→ Figure-8 Agility Task (5x @ PWS)

→ Treadmill Perturbation Stability Task (5 slips @ PWS)

→ Perception Ratings

↓

Shoe Condition 2

→ Figure-8 Agility Task (5x @ PWS)

→ Treadmill Perturbation Stability Task (5 slips @ PWS)

→ Perception Ratings

↓

ANALYSIS

Agility Metrics
(Figure-8)

→ Average speed
Major axis length
Minor axis width
Steps per cycle

↓

Stability Metrics
(Treadmill Slips)

→ Step width
Step length
MoS_{AP}
MoS_{ML}