



Smarter, Faster, Safer: Cognitive Enhancement Training to improve Decision-Making Under Pressure

Jocelyn Faubert, CSO CogniSens Inc



Visual Psychophysics and Perception Laboratory Scientific collaboration



CogniSens
Athletics Inc.

Université de Montréal

Visual Psychophysics & Perception Laboratory



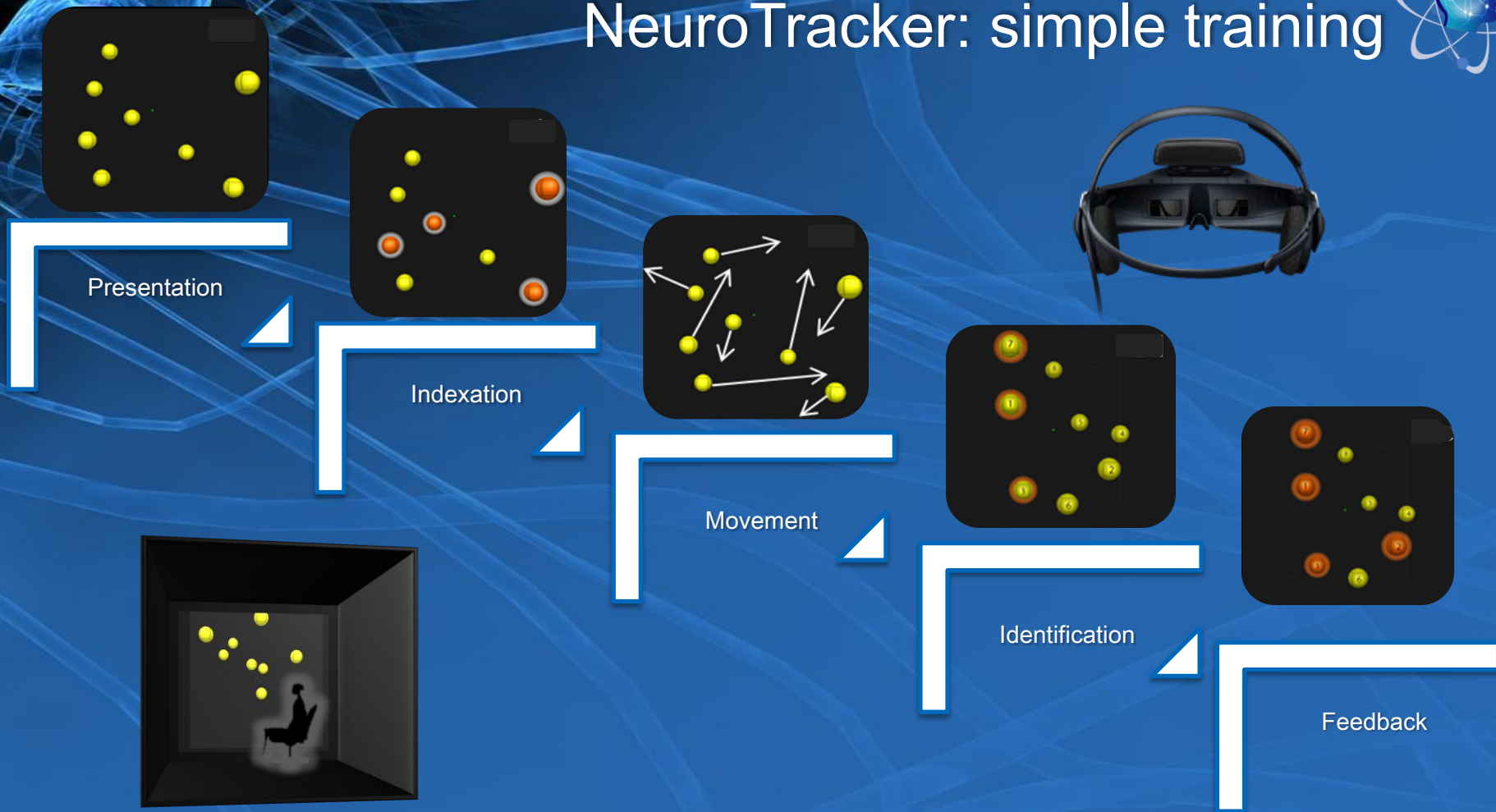
- CogniSens is the commercial platform for technologies from the lab
- Development of multi-disciplinary Human Performance technologies
- Commercialization platform for new technologies and applications
- Partnership facilitates Key Opinion Leader validation

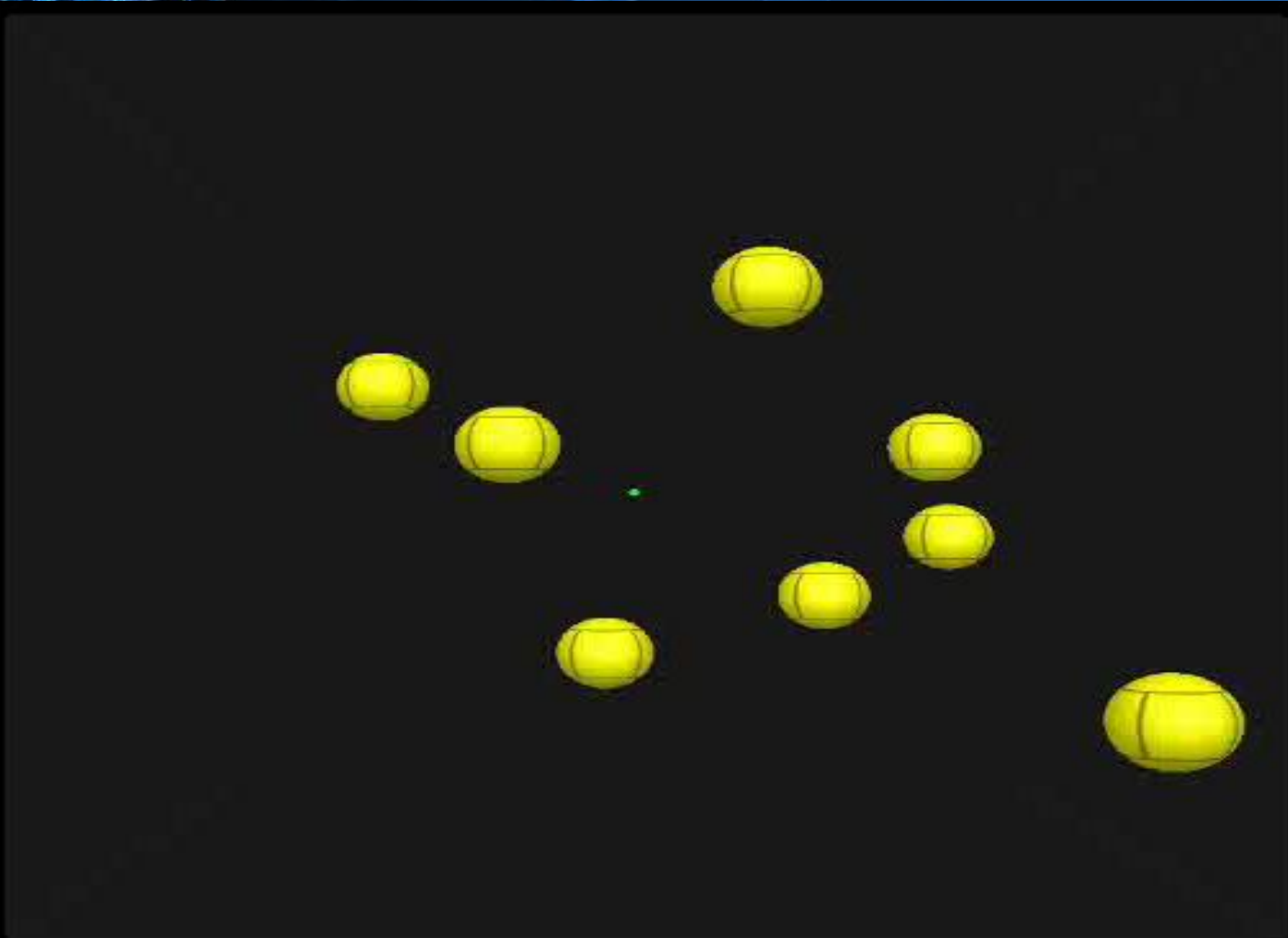


Complex dynamic environment



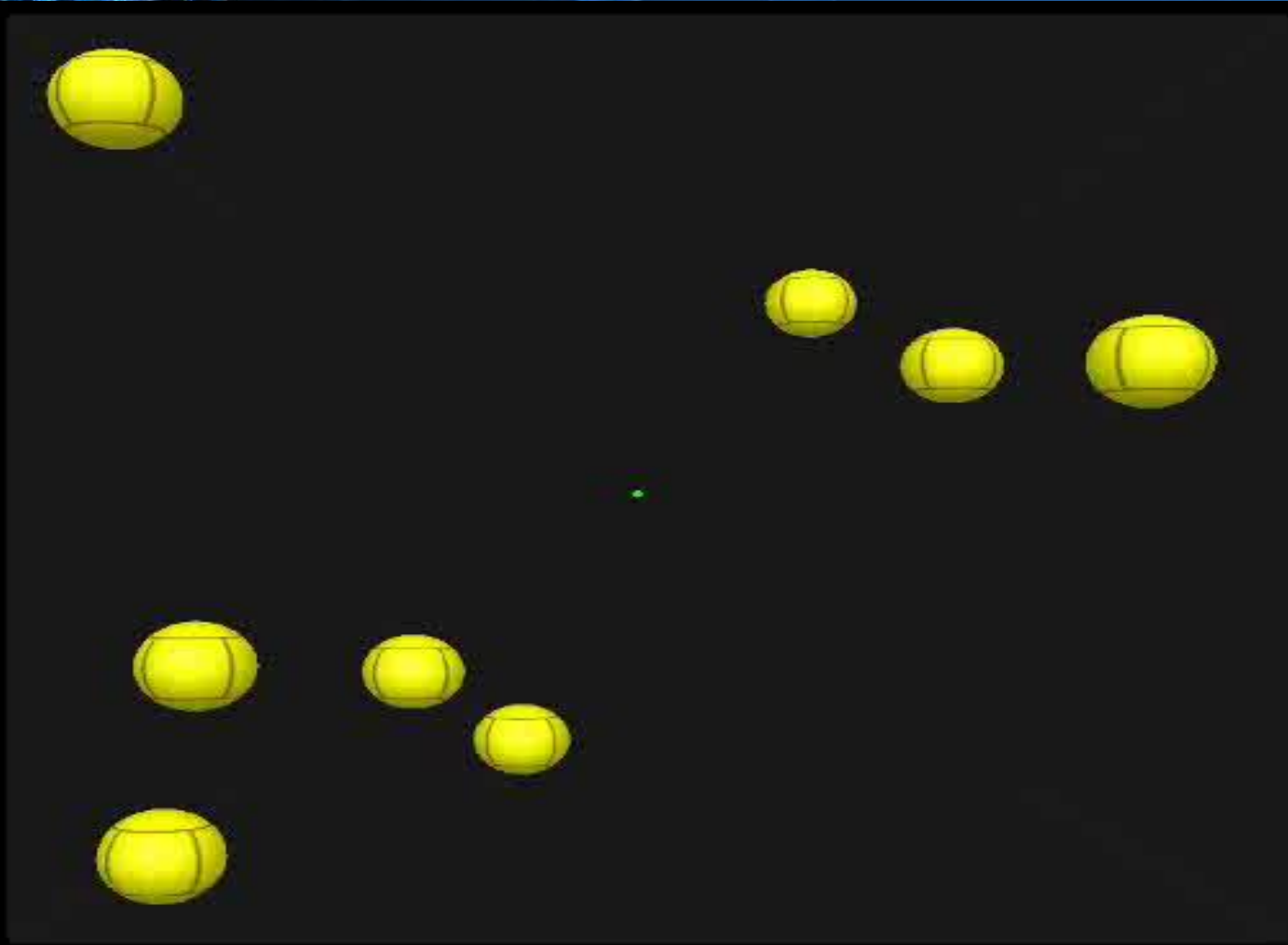
NeuroTracker: simple training





Speed= 1.00

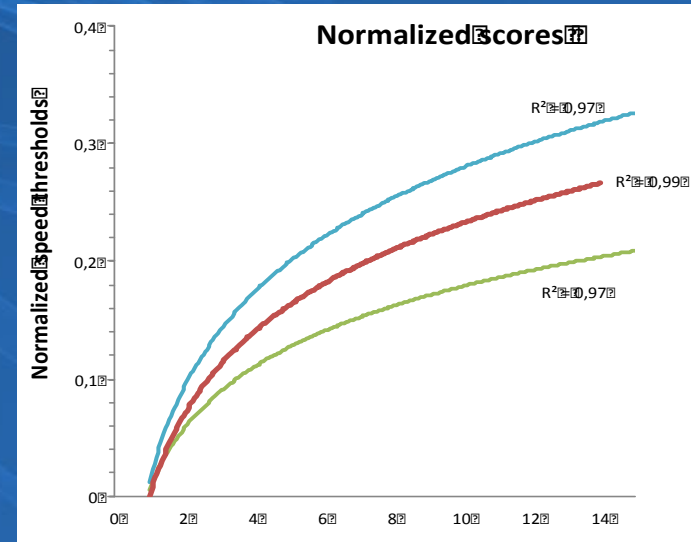
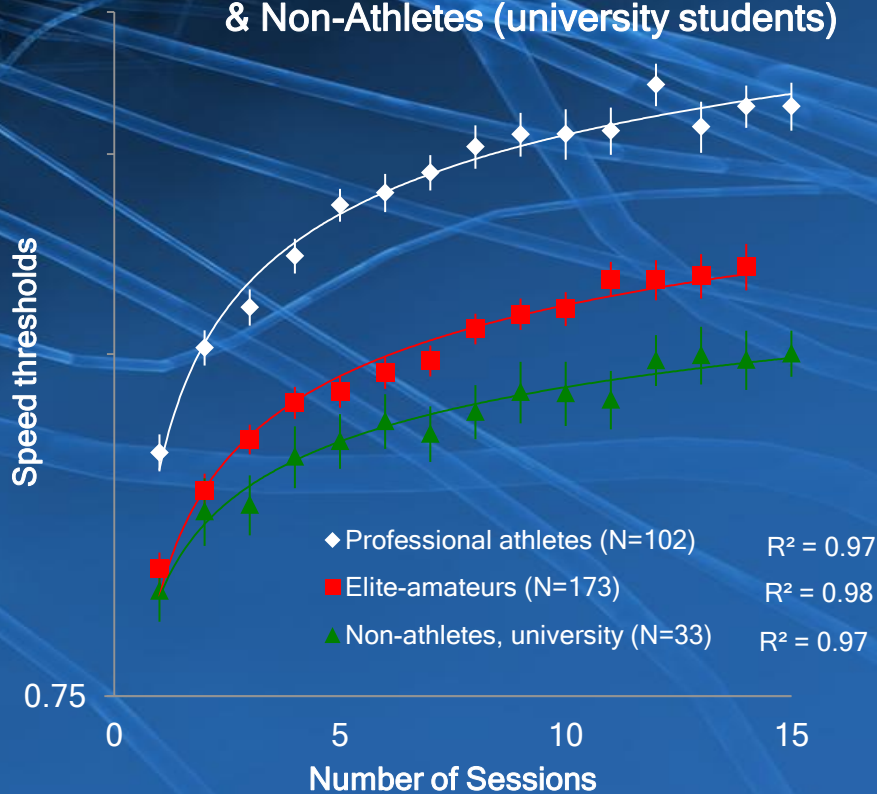




Speed= 2.00

Learning

Geometrical Mean Average for Professionals
High-level Amateur Athletes
& Non-Athletes (university students)





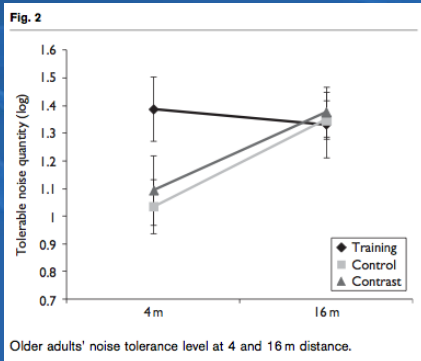
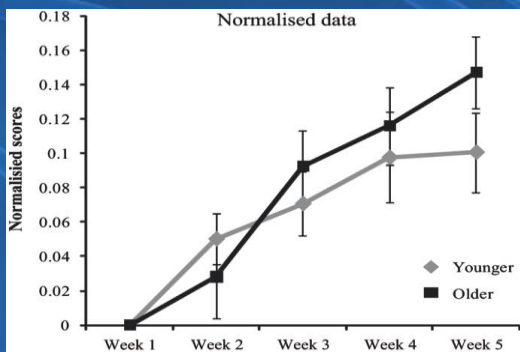
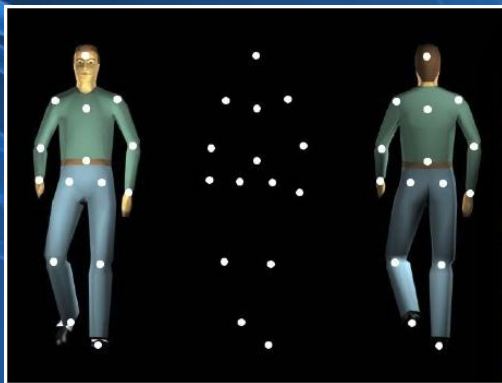
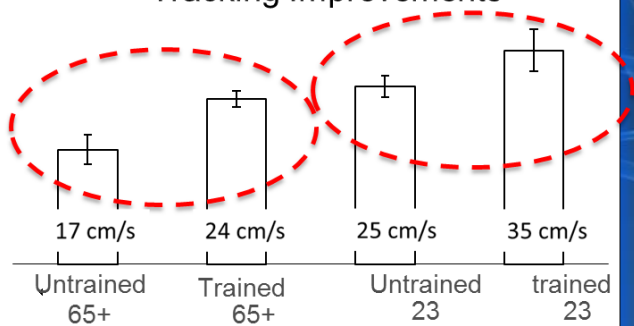
NeuroTracker Active Aging

Neuroplasticity Remains

Social Impact

Driving Improvement

Tracking Improvements



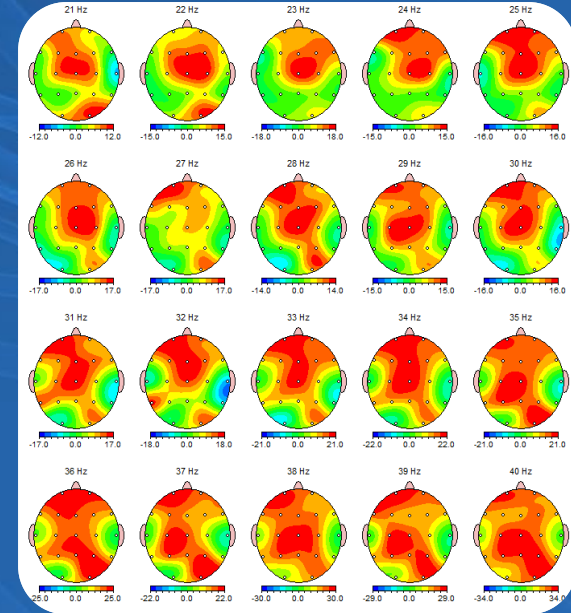
Faubert et al., 2014

NeuroTracker Enhances Cognitive Function (Published 2015)



Healthy university students

- 2 groups:
 1. NT group (trained; n=10)
 2. CON group (untrained; n=10)
- Neuropsychological tests
 1. Attention, working memory, information processing speed
 2. Functional brain scan (qEEG)
- 10 training sessions; 2x per week over 5 weeks





Thank you!

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