

RFID and QR (2D barcodes)

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Background

Aim: develop novel methods for monitoring physical activity:

- Used everyday technology
- Low-cost
- Ease of use / objective

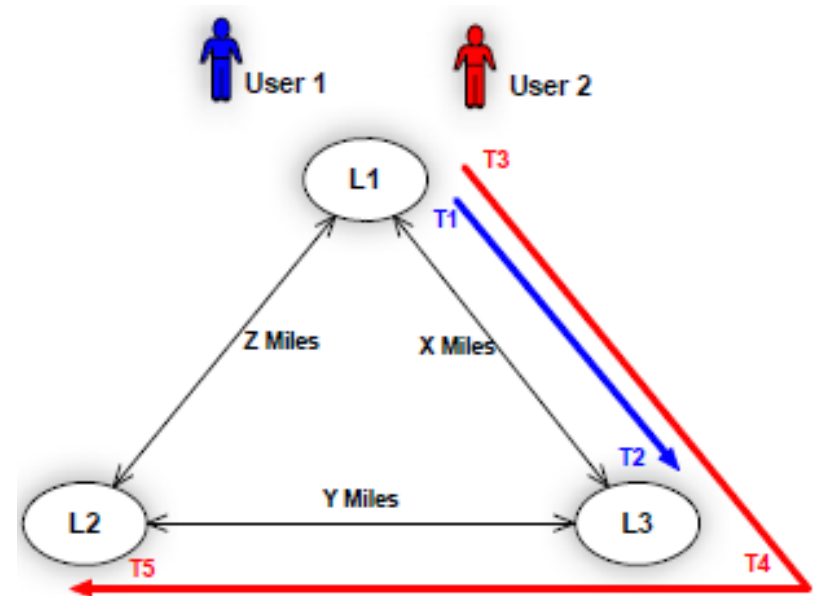


RFID tags



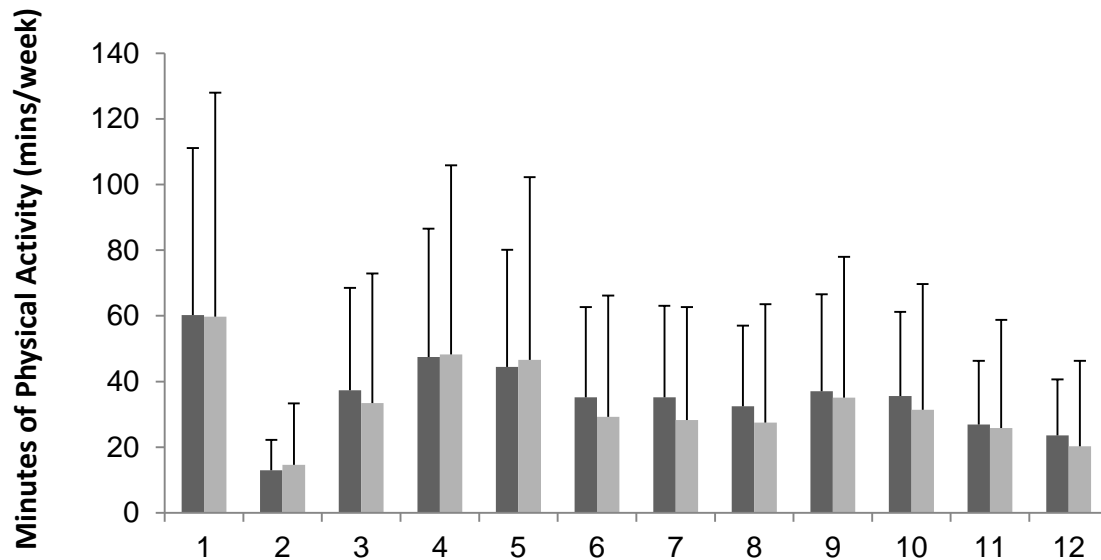
QR (2D barcodes)

Description of methods



Examples of use

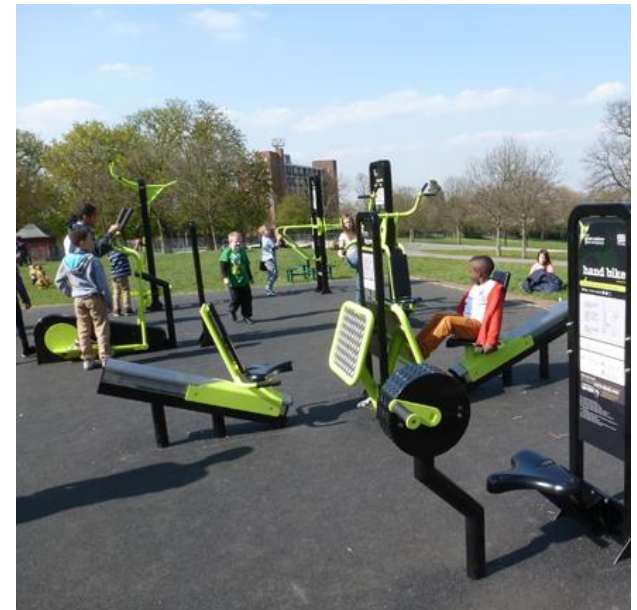
- Monitoring outdoor gym use
- Urban green space
- Physical activity interventions



Hunter RF et al, 2013: Am J Prev Med; 45(1): 56-60

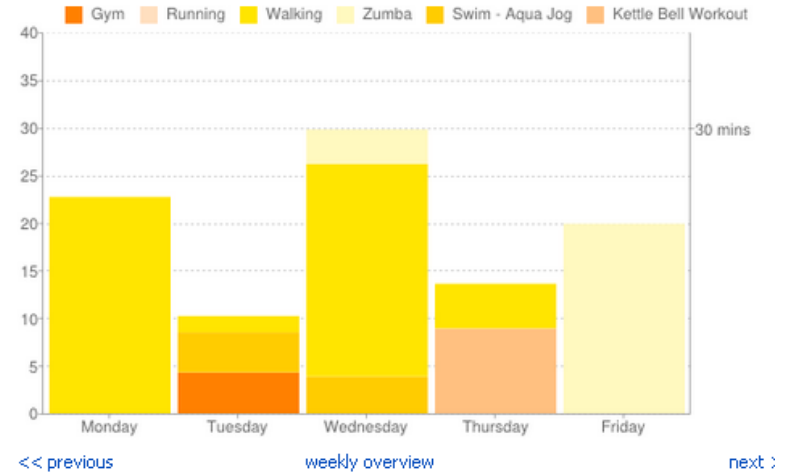
Hunter RF et al, 2015: Am J Public Health; 105(3): 513-6

Hunter RF et al, 2015: BMC Res Notes; 8: 19



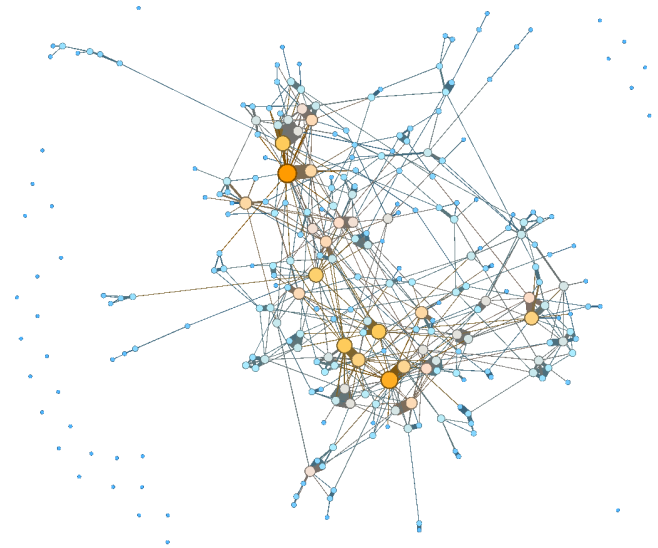
Benefits

- Low cost
- Real-time data (time-stamps)



Have you met your 150 minute goal for this week?

- Different types of physical activities using:
 - Time-stamps
 - Coding of QR codes
- Location /routes specific
- Social networks



Challenges

- Power source / wifi
- Computer science support
- 'Sensored zone'
- Missing data



Thanks for listening

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