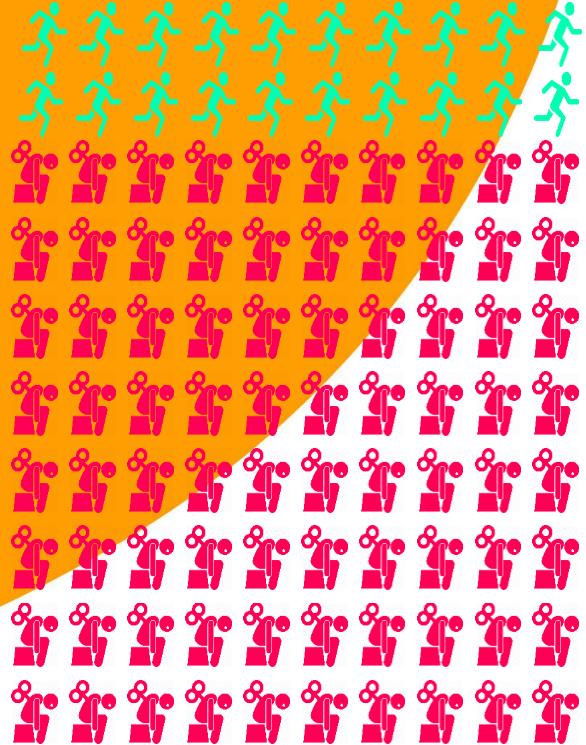


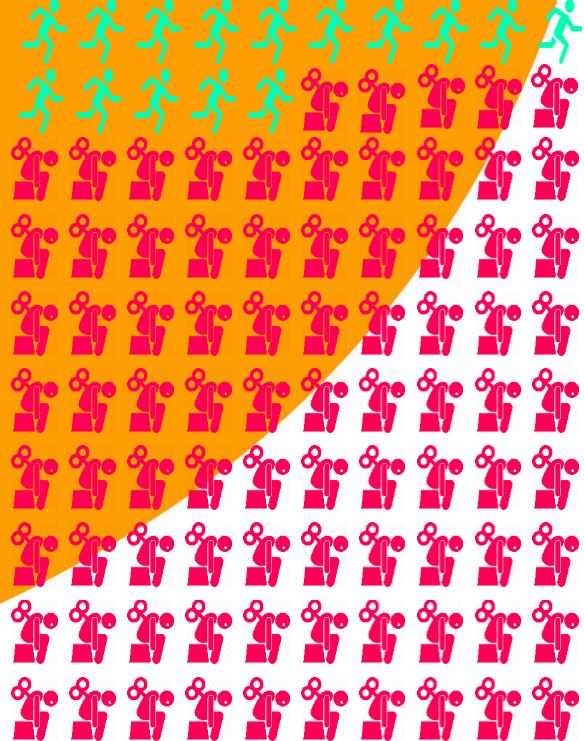
Social Network Interventions to Promote Physical Activity in Adolescents

vanwoudenberg@eur.nl
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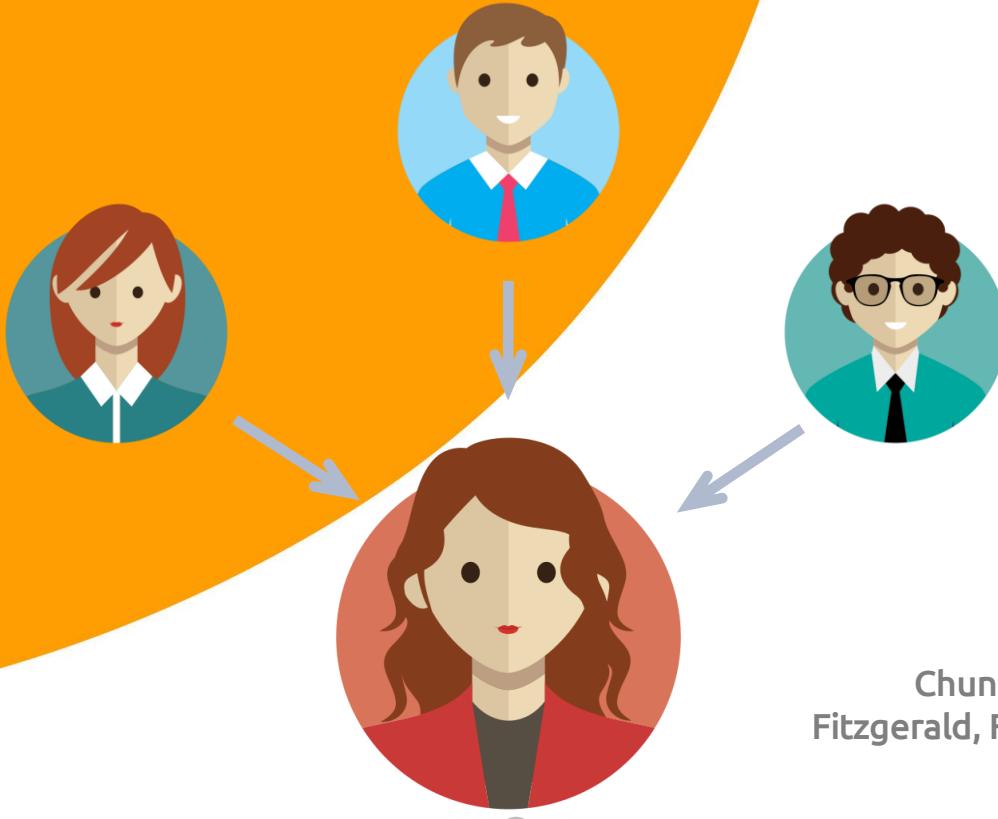




Guthold, Stevens, Riley, & Bull (2019)

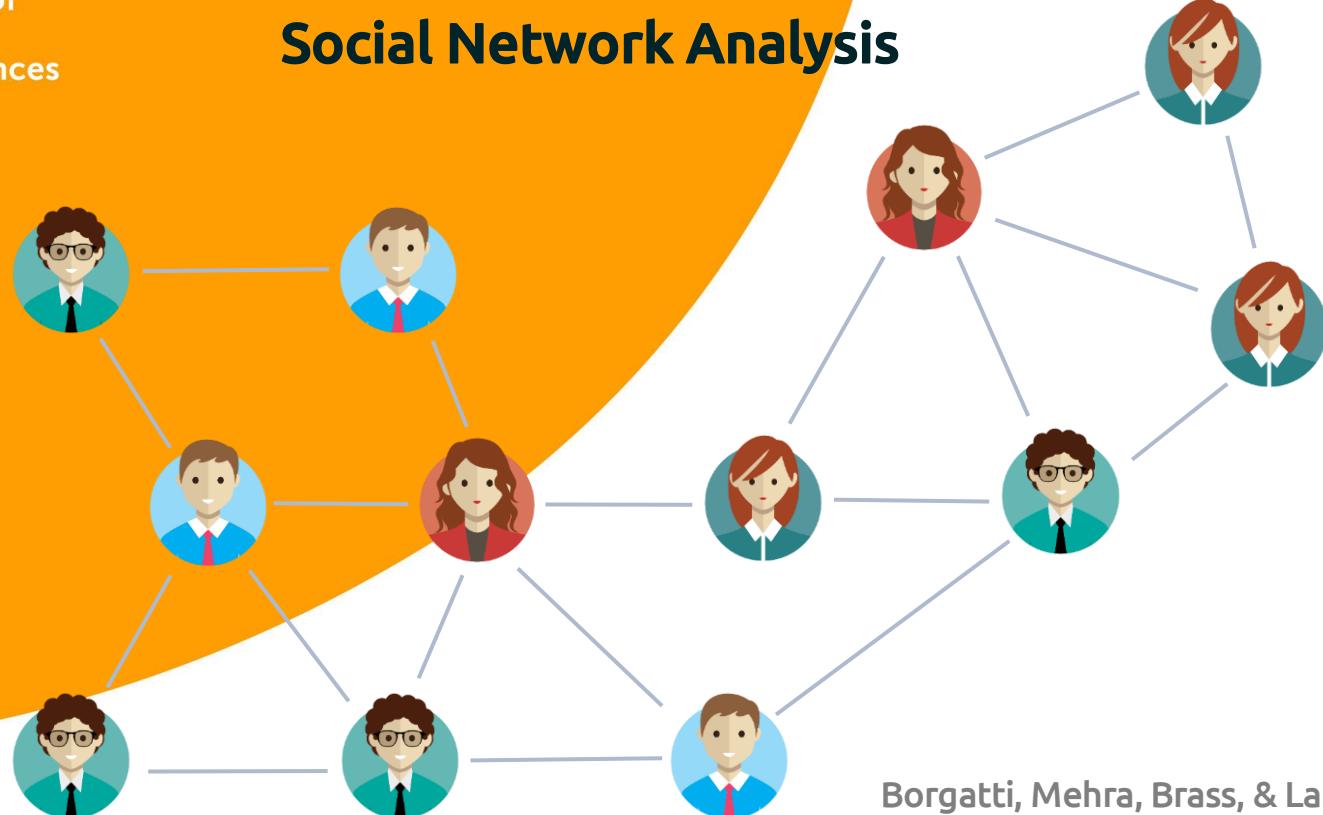


Hilbebrandt, Bernaards, & Hofstetter (2015)



Chung, Ersig, & McCarthy (2017)
Fitzgerald, Fitzgerald, & Aherne (2012)
Salvy & Bowker (2013)

Social Network Analysis



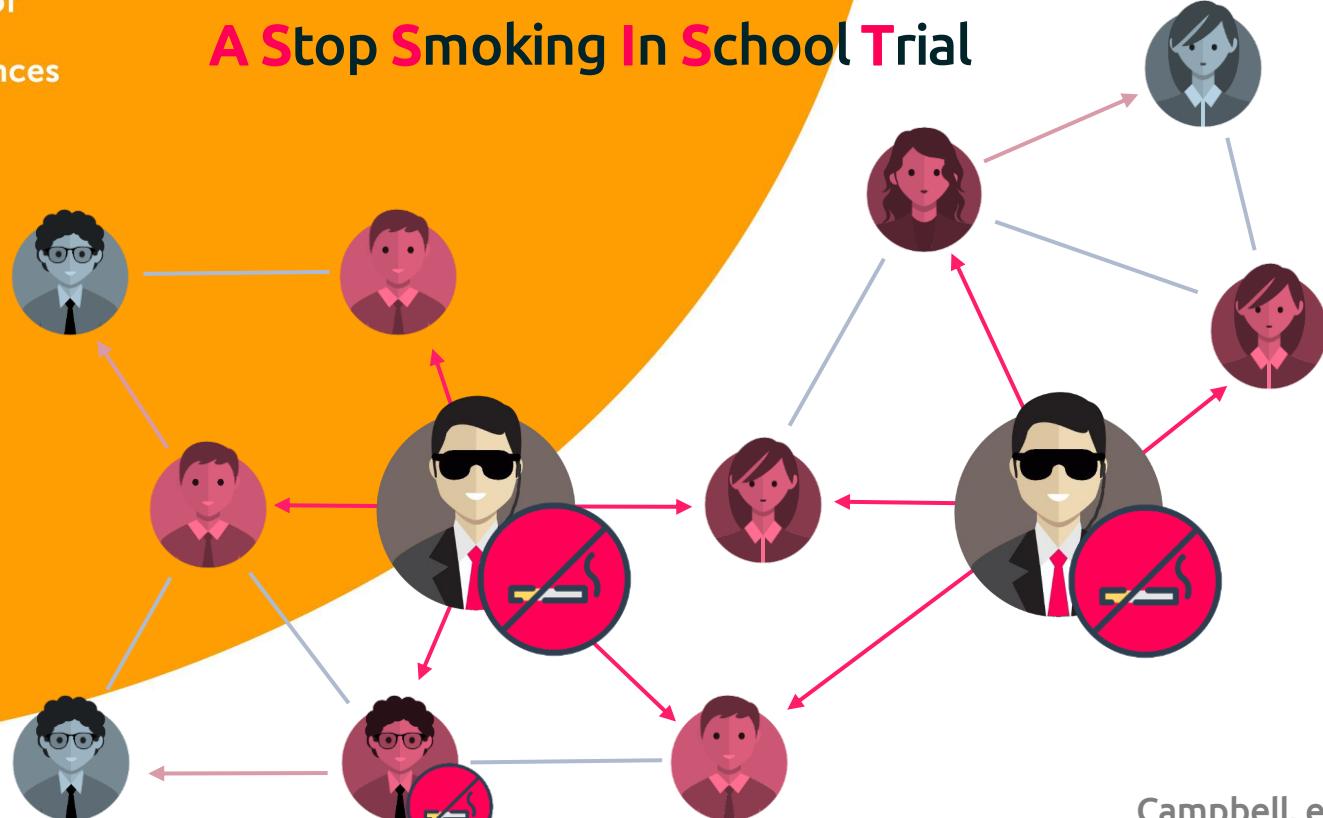
Borgatti, Mehra, Brass, & Labianca (2009)

Social Network Interventions



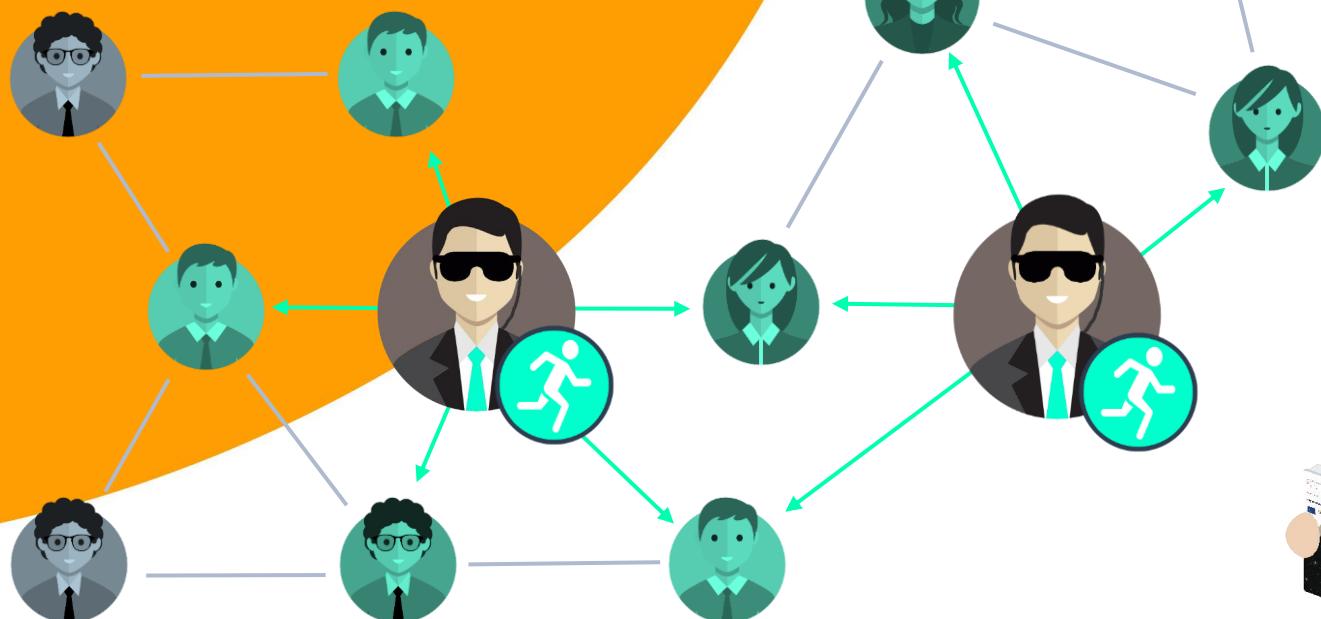
Valente, Palinkas, Czaja, Chu, & Brown (2015)

A Stop Smoking In School Trial



Campbell, et al., (2008)

my movez

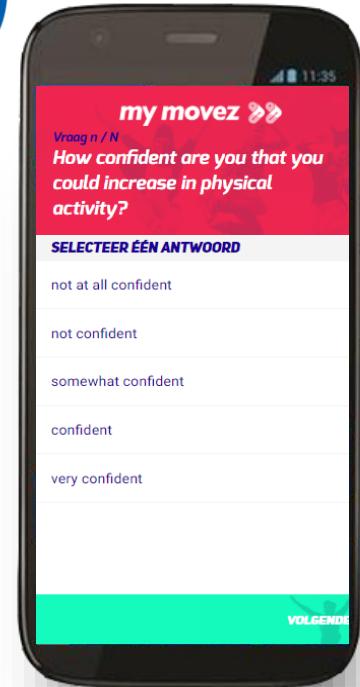


my movez

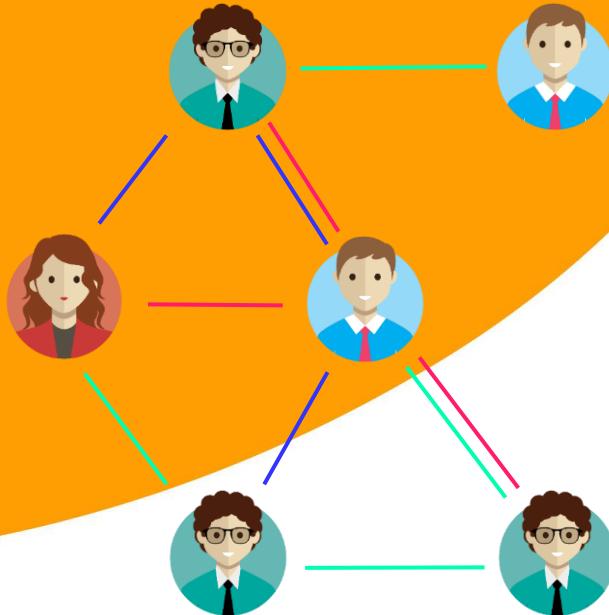
Wearable Lab



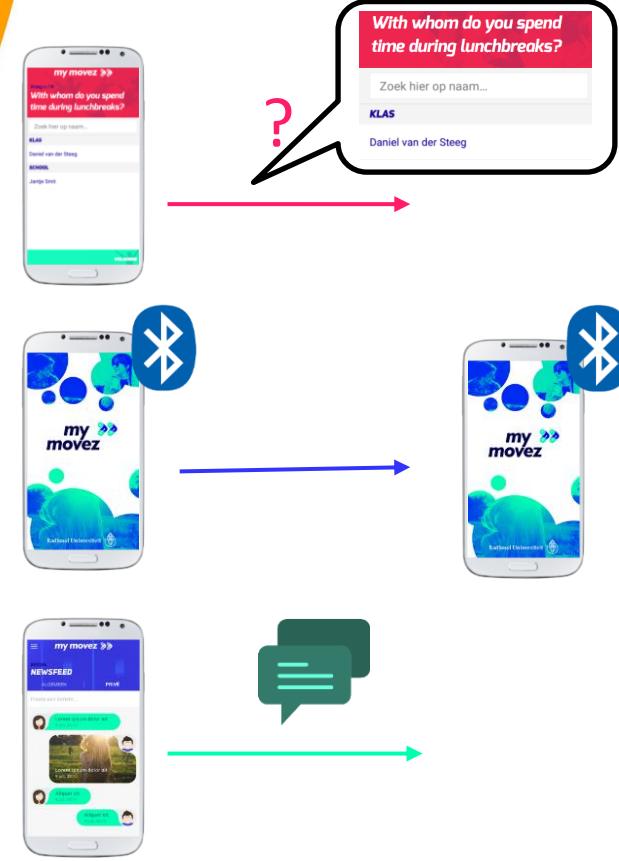
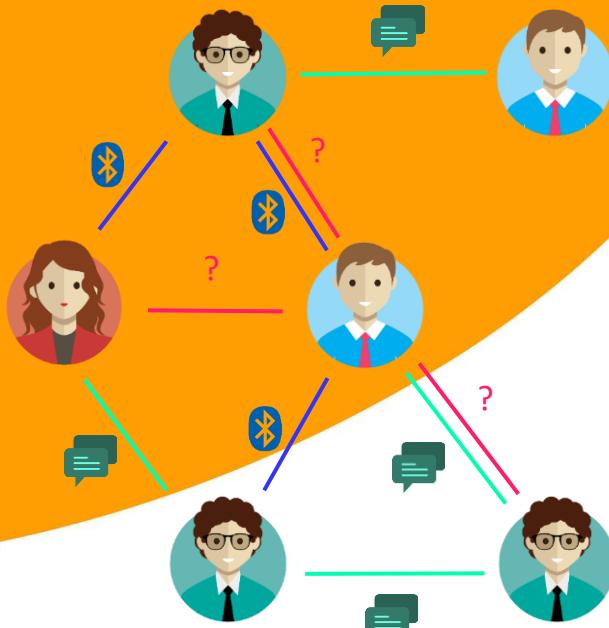
Daily questionnaires
Peer nominations
Social platform
Avatar Game



Study 1: Mapping Relationships

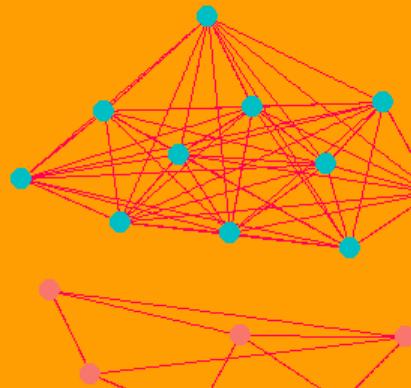


Study 1: Mapping Relationships



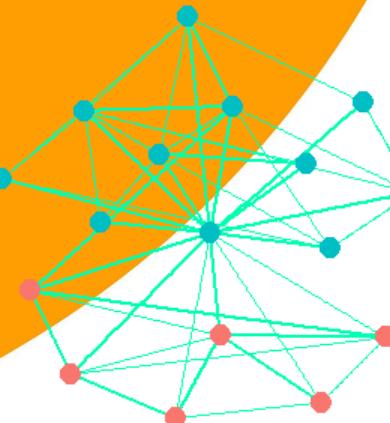
Study 1: Mapping Relationships

Nomination

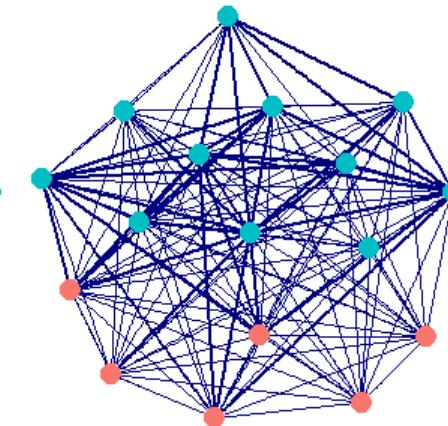


?

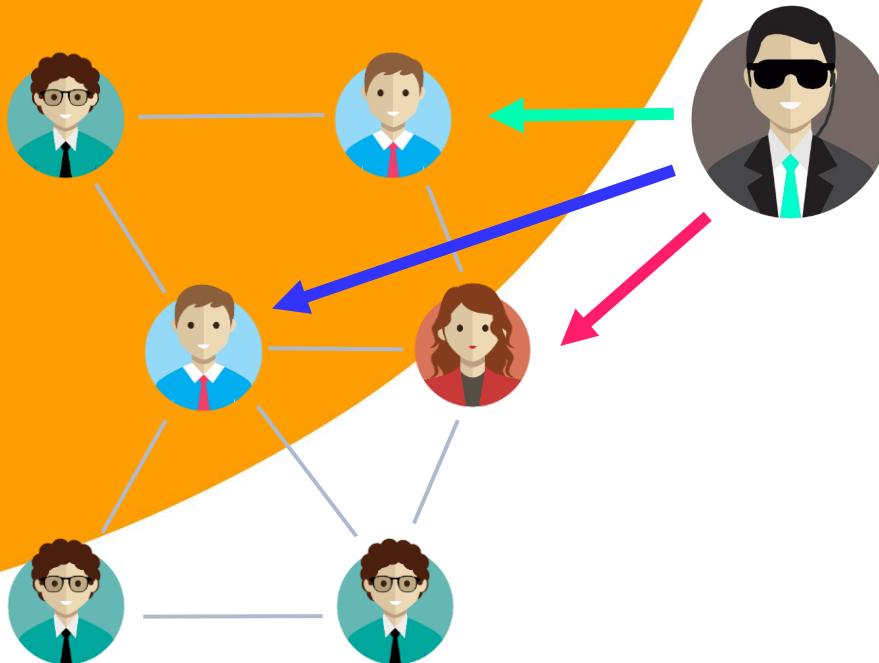
Communication



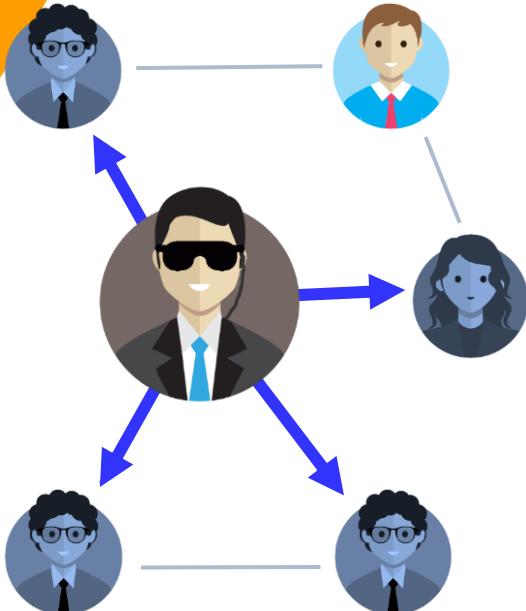
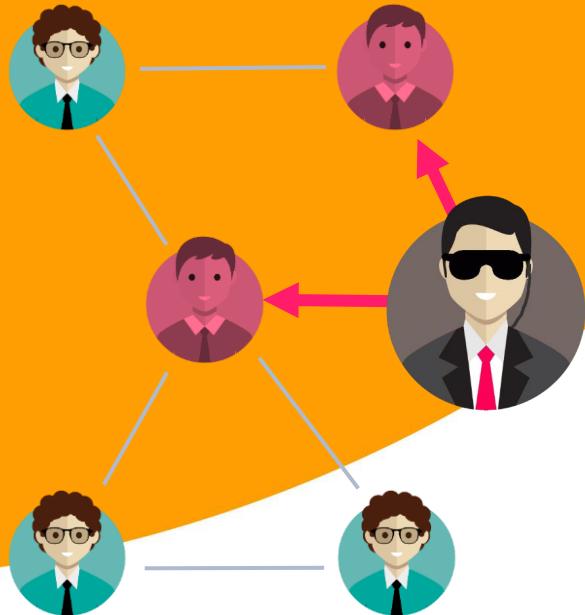
Proximity



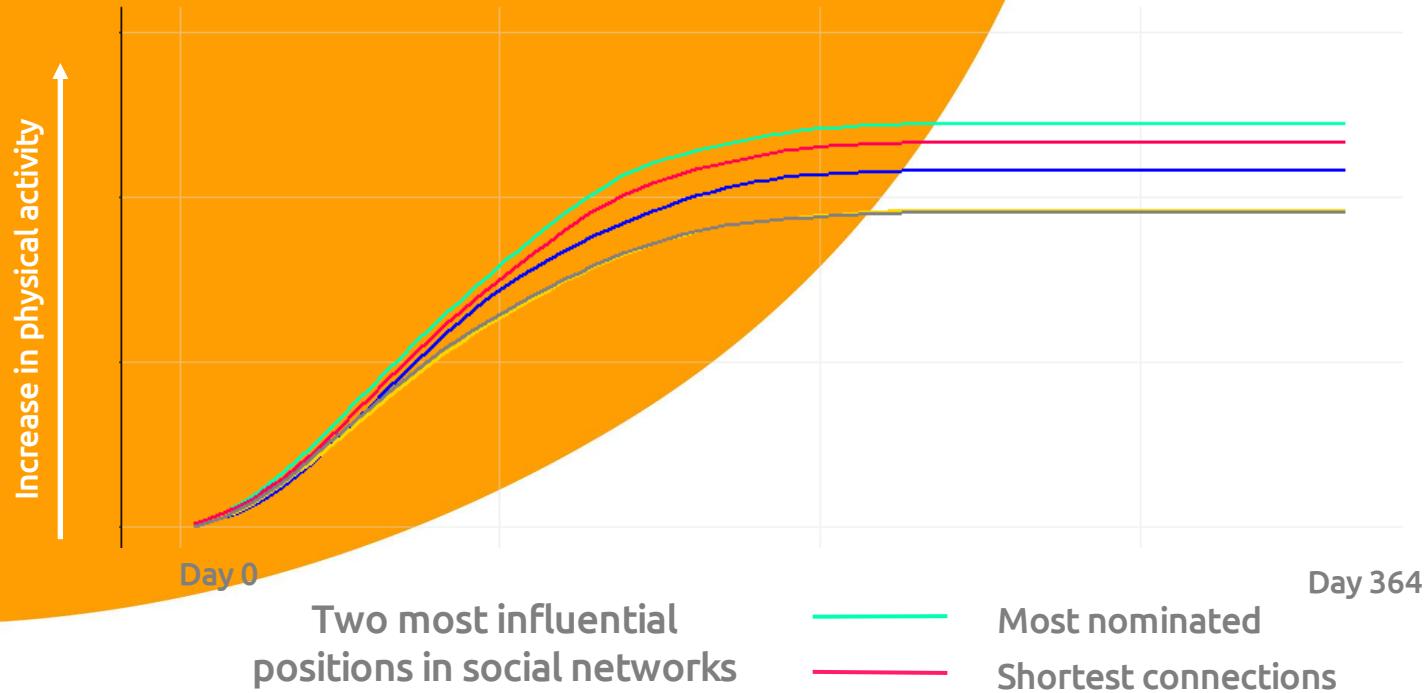
Study 2: Selecting Influentials



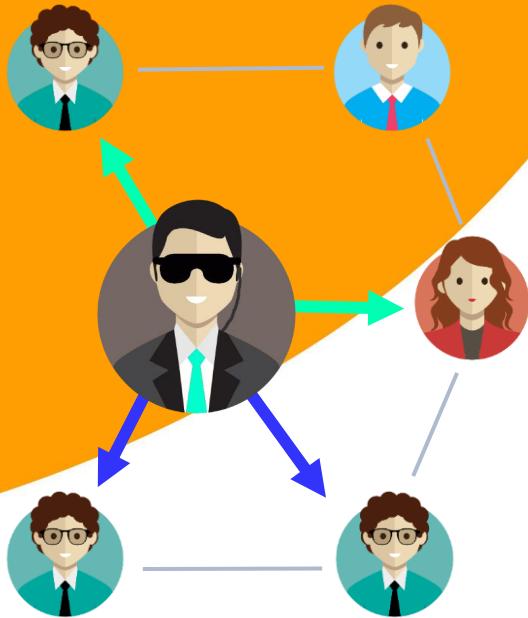
Study 2: Selecting Influentials



One-year simulations of five interventions



3: Training the influence agents



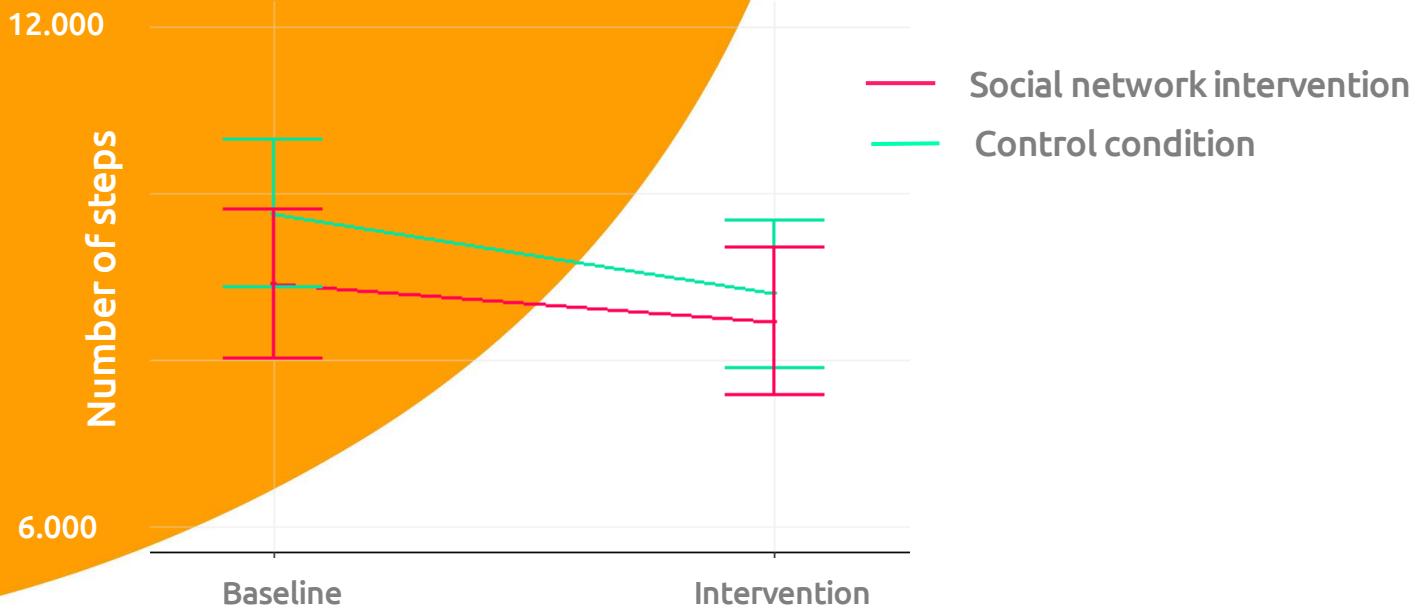
Study 3: Training Influentials on smartphones



Van Woudenberg, Bevelander, Burk, Smit, Buijs, & Buijzen (2018)
A randomized controlled trial testing a social network intervention
To promote physical activity among adolescents
BMC Public Health



No effect of the intervention

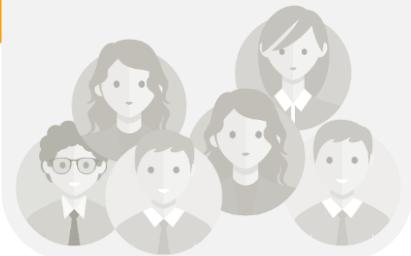


Study 4: Using vlogs

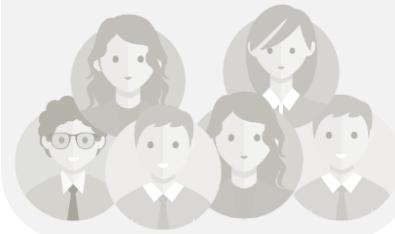
Social network intervention



Mass media intervention

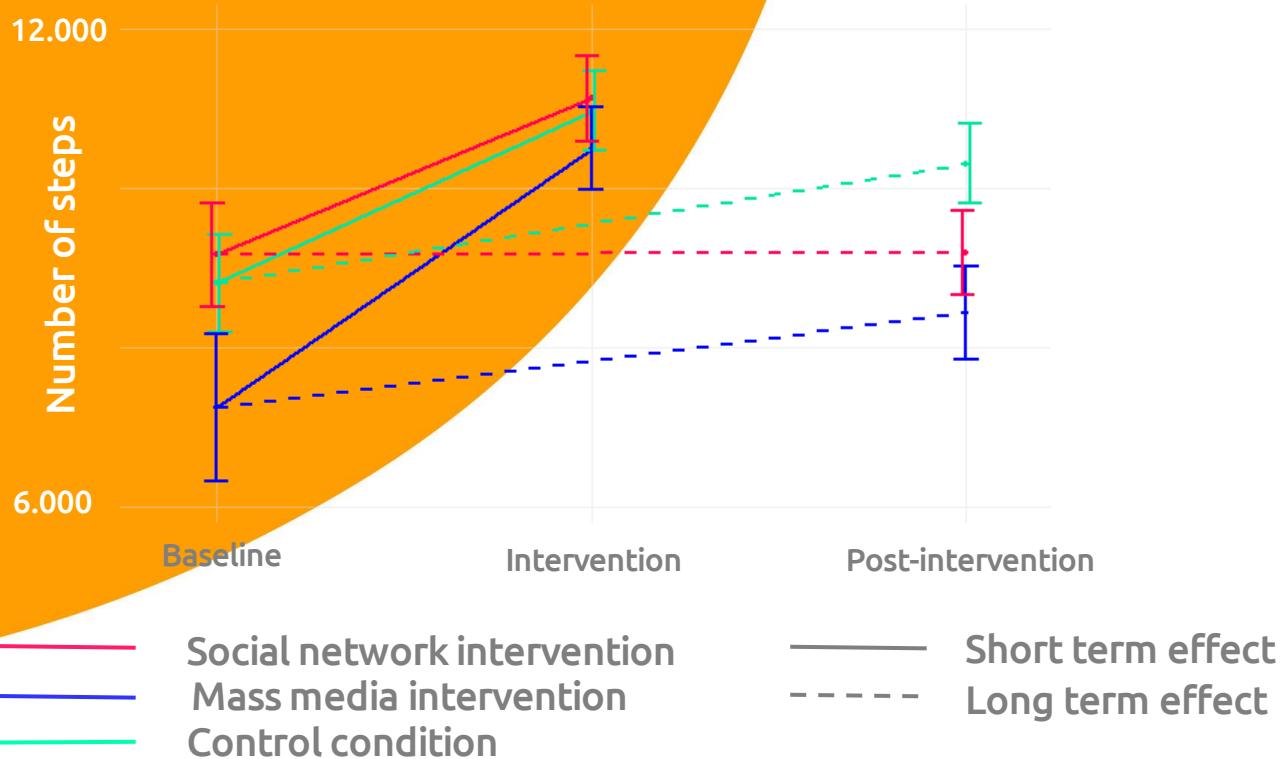


Control Condition





No effect of the intervention



- ↳ More exposure to the vlogs
- ↳ Liked the vlogs more
- ↳ Closer related to the vloggers

↳ Increases the perceptions
of the social norm



Take-home messages:

- Mapping:** Low similarity in the different ways to measure relationships in social networks.
- Selecting:** Most nominated and most close peers are the most influential adolescents in social networks.
- Training:** No evidence that these interventions can promote physical activity in adolescents, but:
- increase perceived social norm
 - positive responses to vlogs

Future studies



Social
MOVEZ

