

Engagement Networks in Social Music-making

Ben Swift

Dr Henry Gardner
Dr Alistair Riddell



THE AUSTRALIAN NATIONAL UNIVERSITY









social

creative

improvisational

ludic

collaborative

mobile

serendipitous

What does **engagement** mean in the context of creative collaboration?

And how should we measure it?

‘engagement’

transactional

warp drive - *engage!*

discrete, event-based

experiential

it was such an
engaging experience

ongoing, continuous

engagement is a category of user experience characterised by attributes of challenge, positive affect, endurability, aesthetic and sensory appeal, attention, feedback, variety/novelty, interactivity, and perceived user control.

O'Brien & Toms, 2008

group music-making

co-located participants

digital instruments

socially situated

group
music-making



creative
collaboration



Mobile Music

- MoPho (Wang, et. al.)
- malleable music (Tanaka)
- musical networks (Weinberg)
- lots of innovative stuff outside academia! (createdigitalmusic.com)



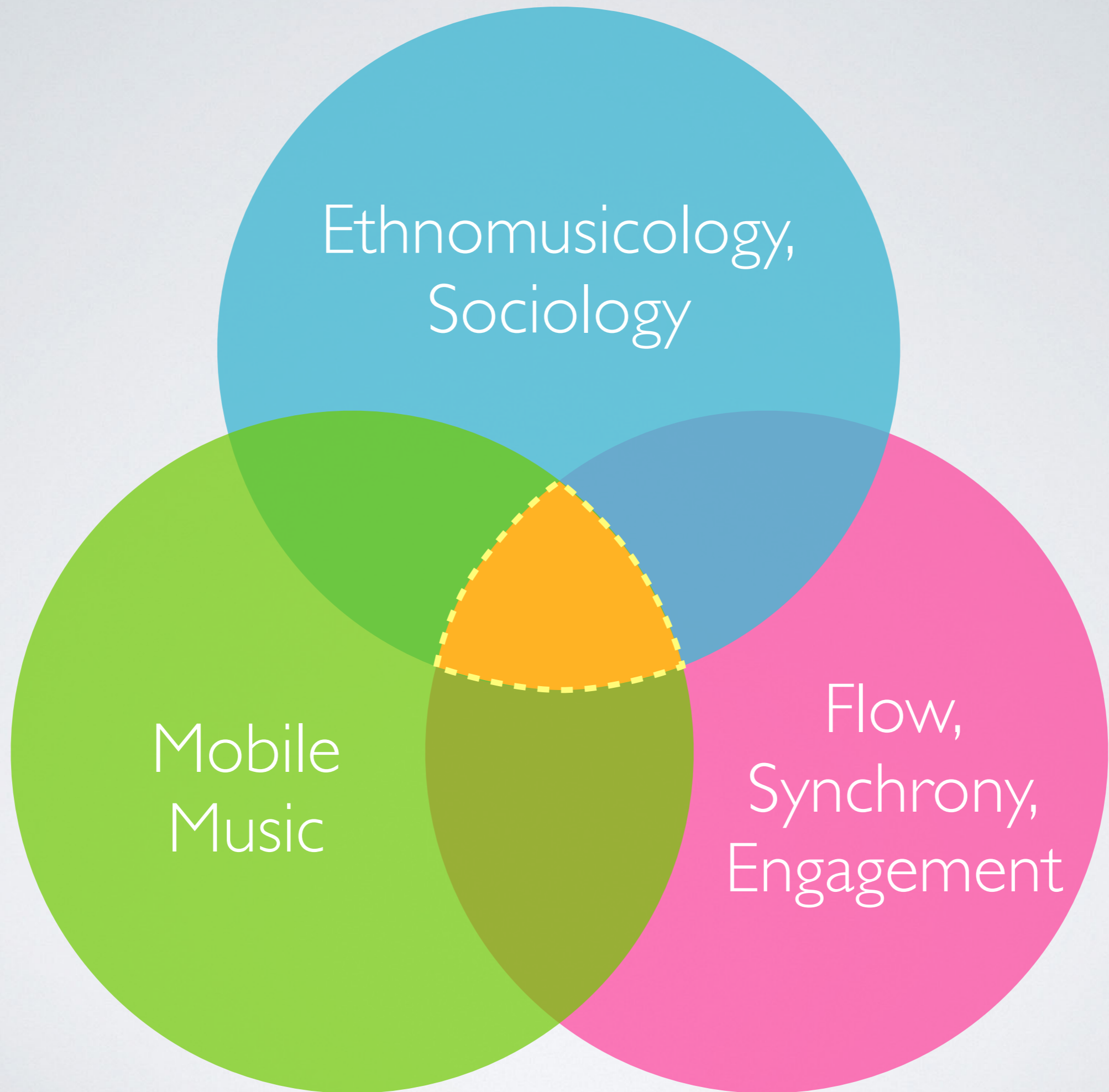
Flow, Synchrony, Engagement

- Flow (Csíkszentmihályi, Sawyer)
- Synchrony (Varni, Camurri et .al.)
- Engagement in HCI (Peters, O'Brien & Toms, ...)
- Mutual Engagement (Bryan-Kinns)



Ethnomusicology, Sociology

- Jazz improvisation (Berliner)
- Groove (Monson, Doffman)
- Conversation (Goffman)
- Group affect (Brennan)



Ethnomusicology,
Sociology

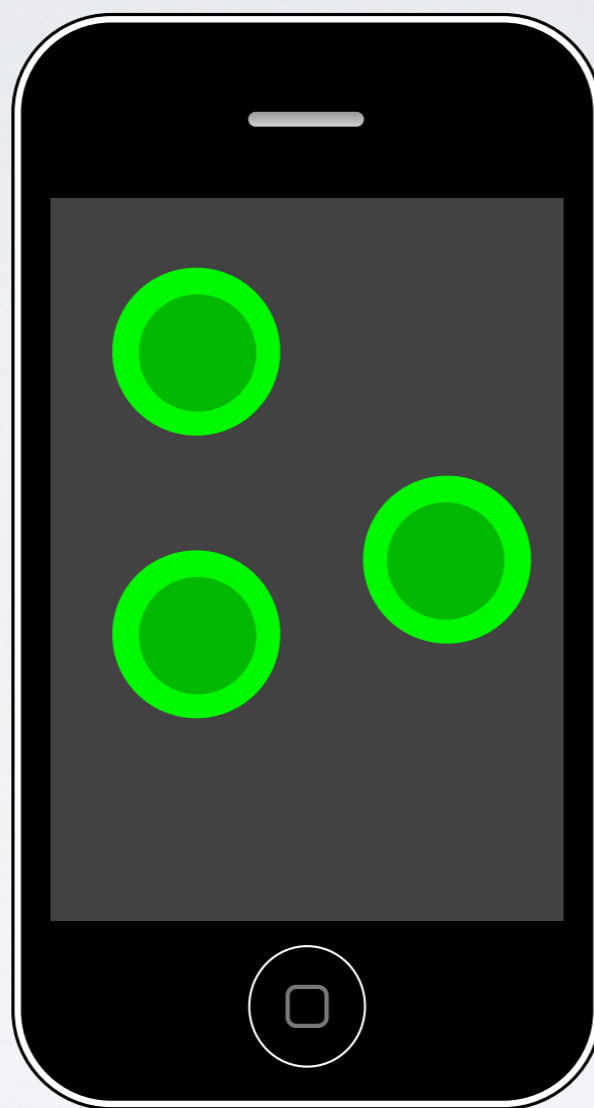
Mobile
Music

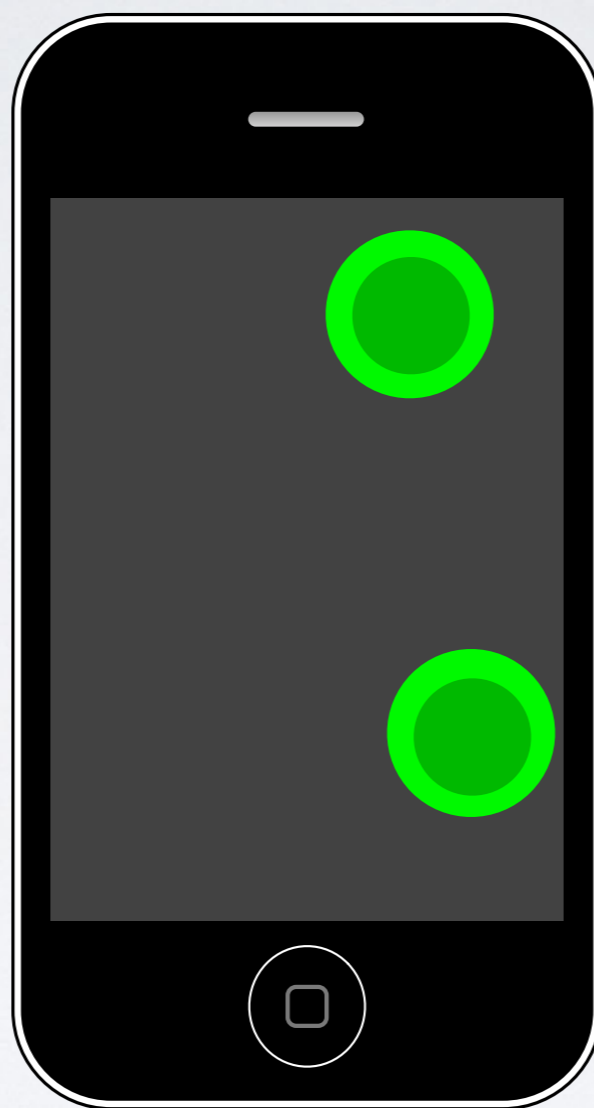
Flow,
Synchrony,
Engagement

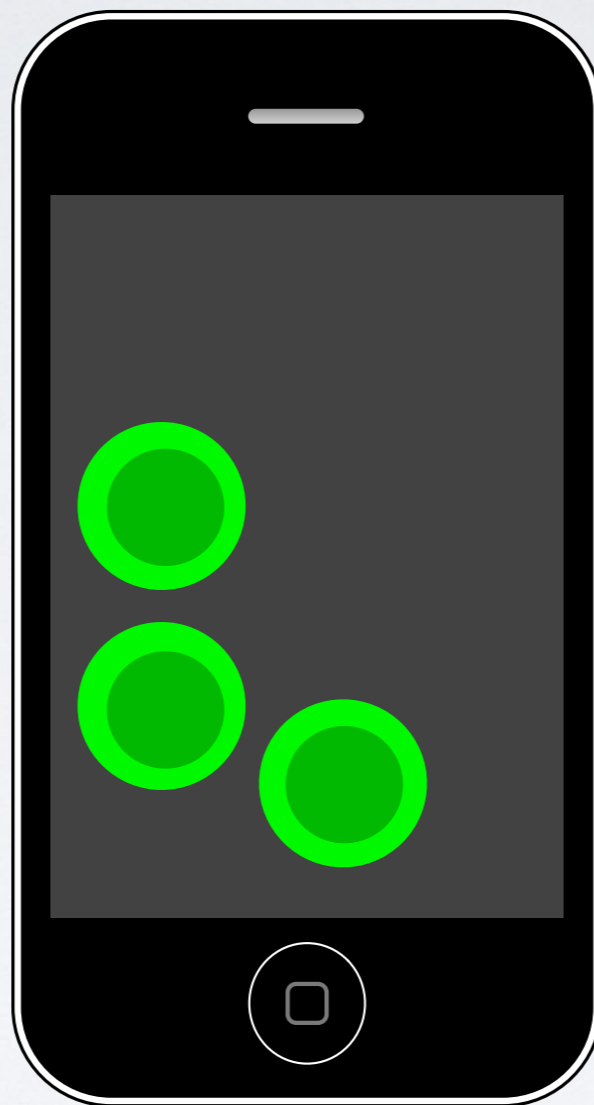
How am I studying engagement?

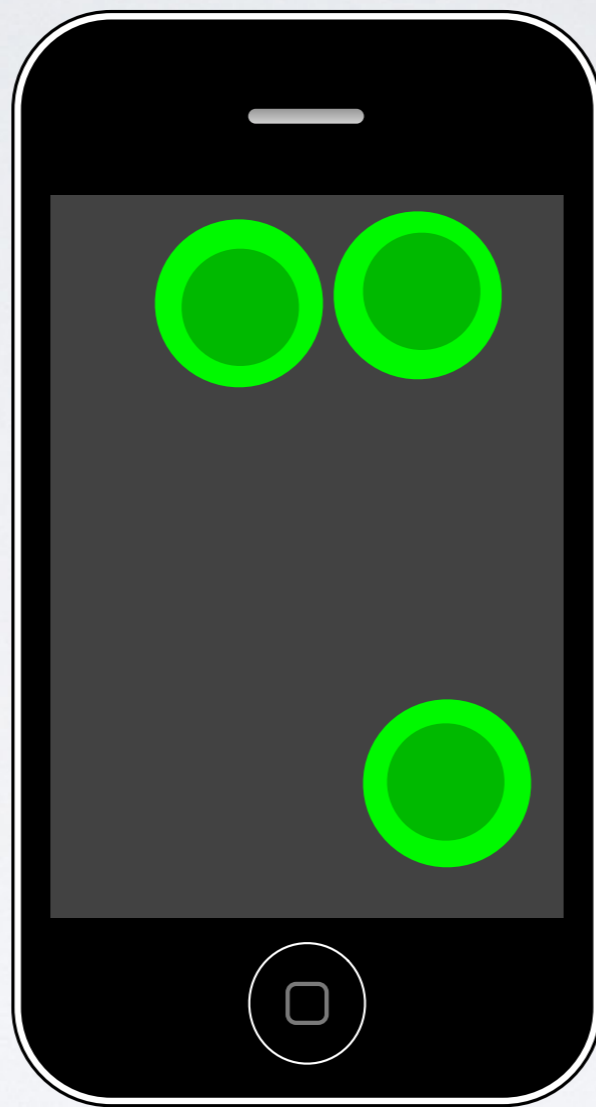
Viscotheque

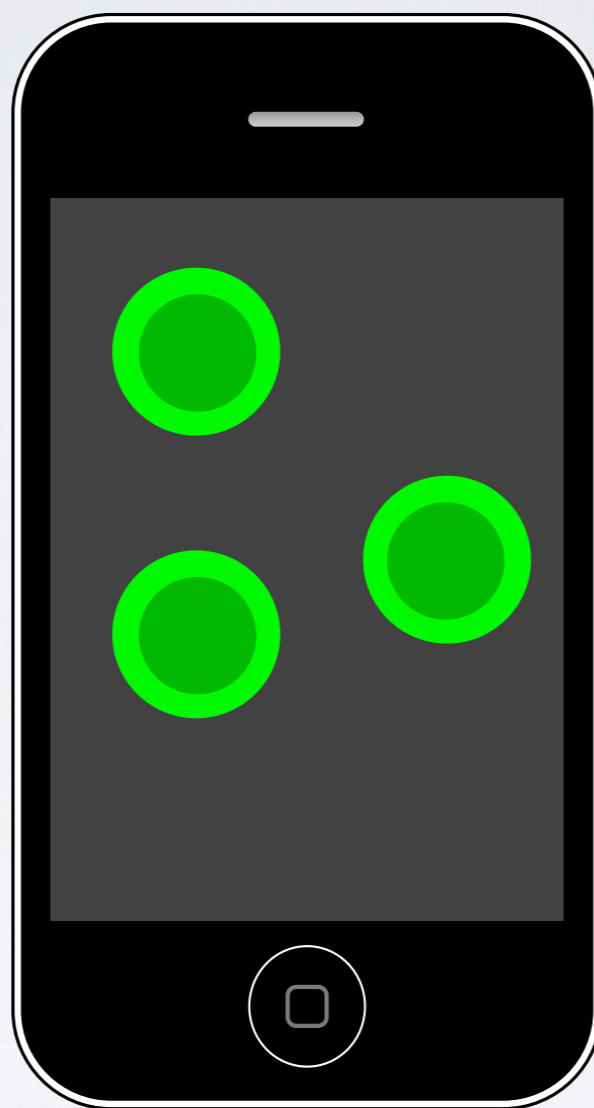
iOS group
music-making
system

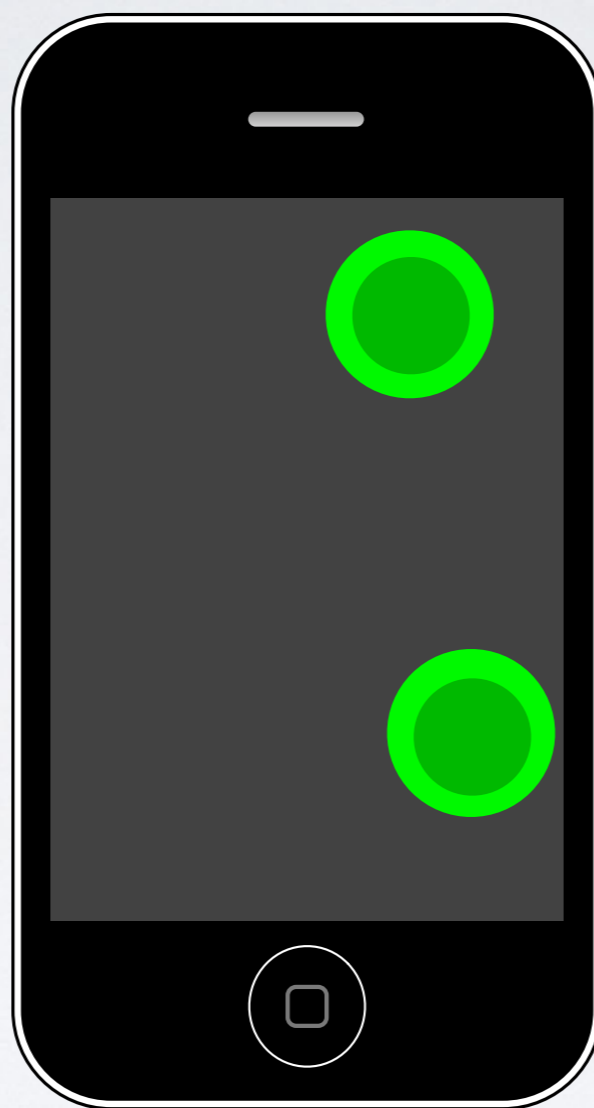


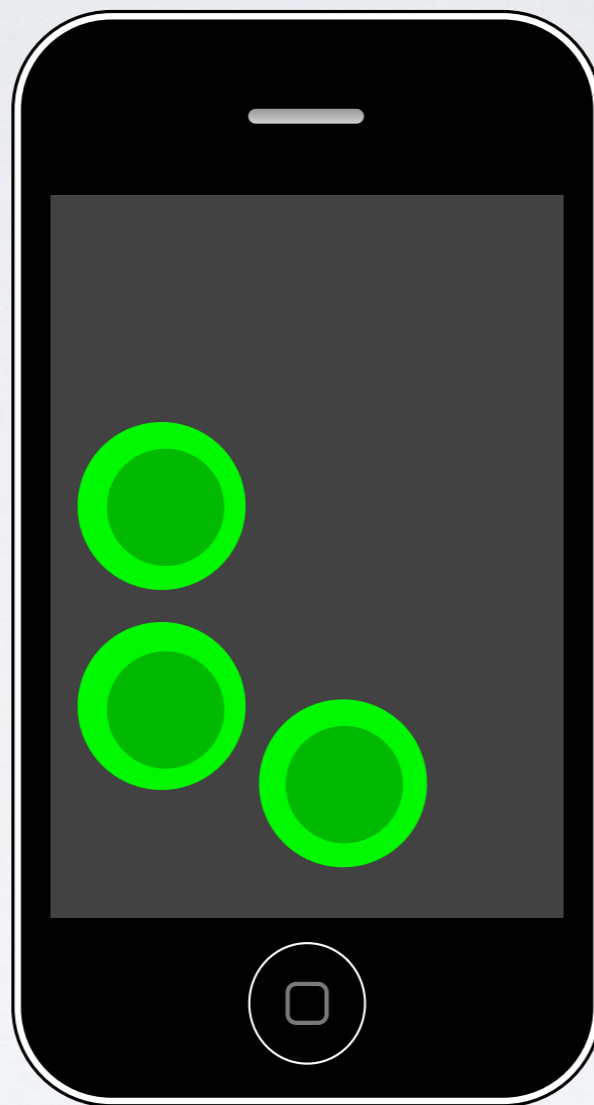


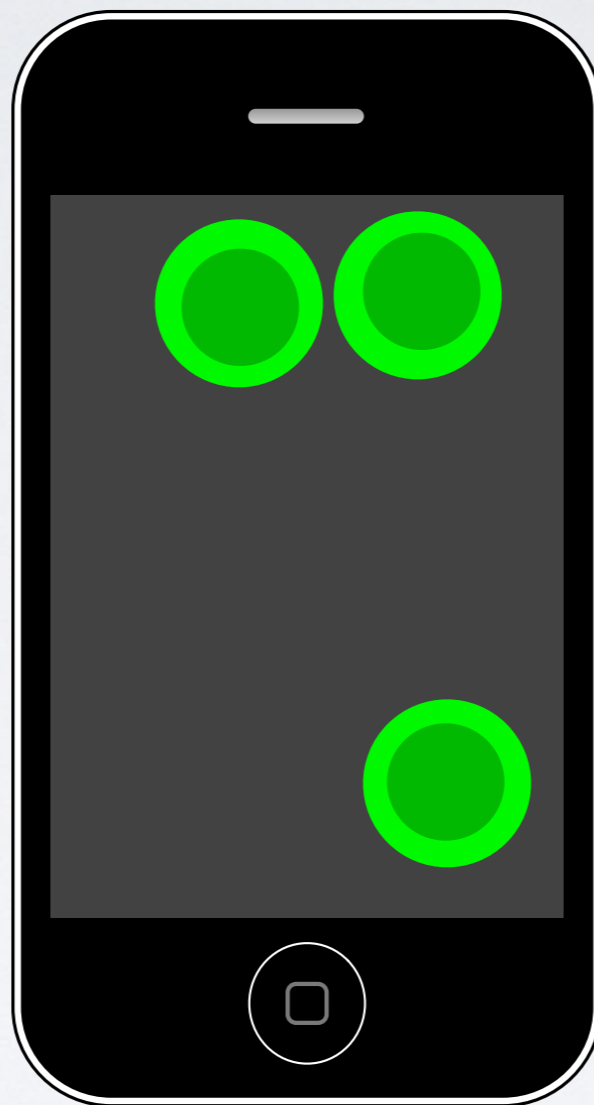












How am I studying engagement?

P1

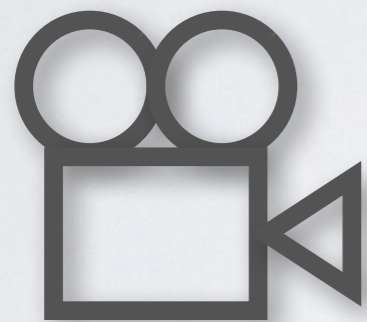
P2

P3

Viscotheque

Participants

How am I studying engagement?



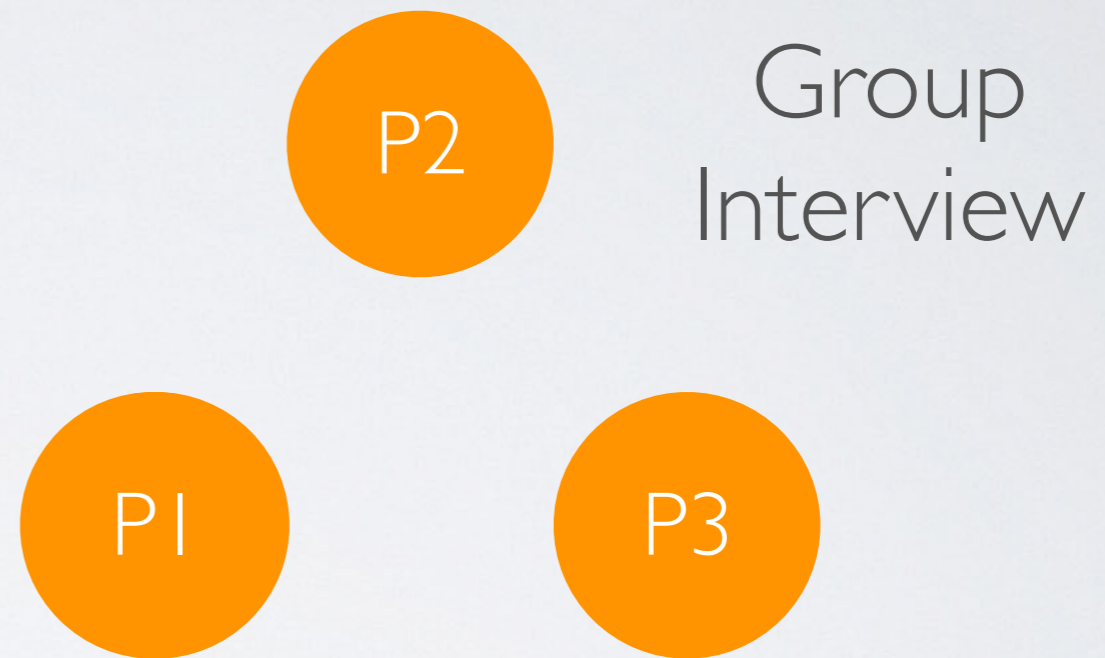
Viscotheque

P1

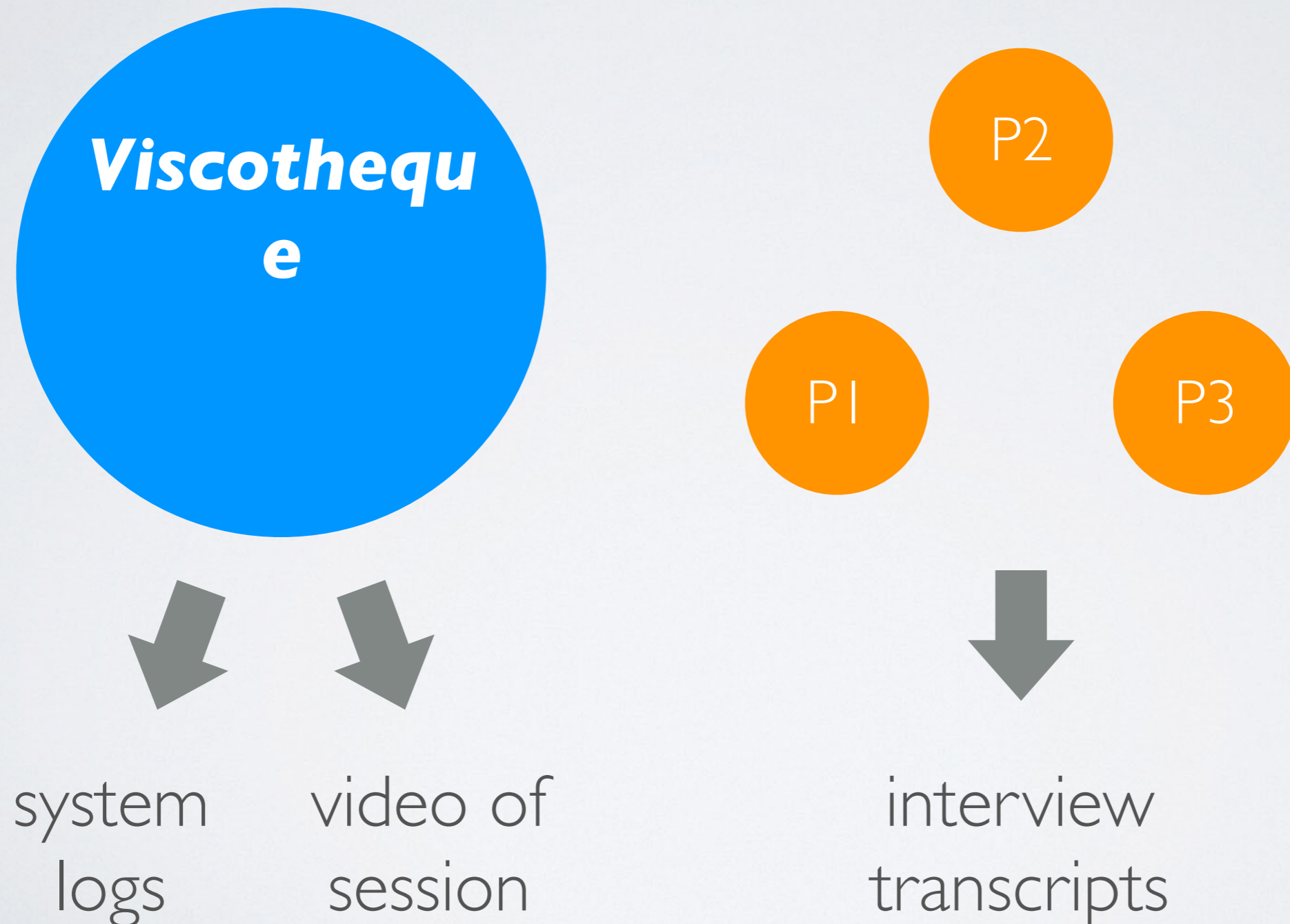
P2

P3

How am I studying engagement?



How am I studying engagement?



system
logs



quantitative
analysis

video of
session



observations

interview
transcripts



thematic
analysis

Current experiment

12 participants, in groups of 3

longitudinal study - groups came
back for 4 consecutive sessions







human, yet structured

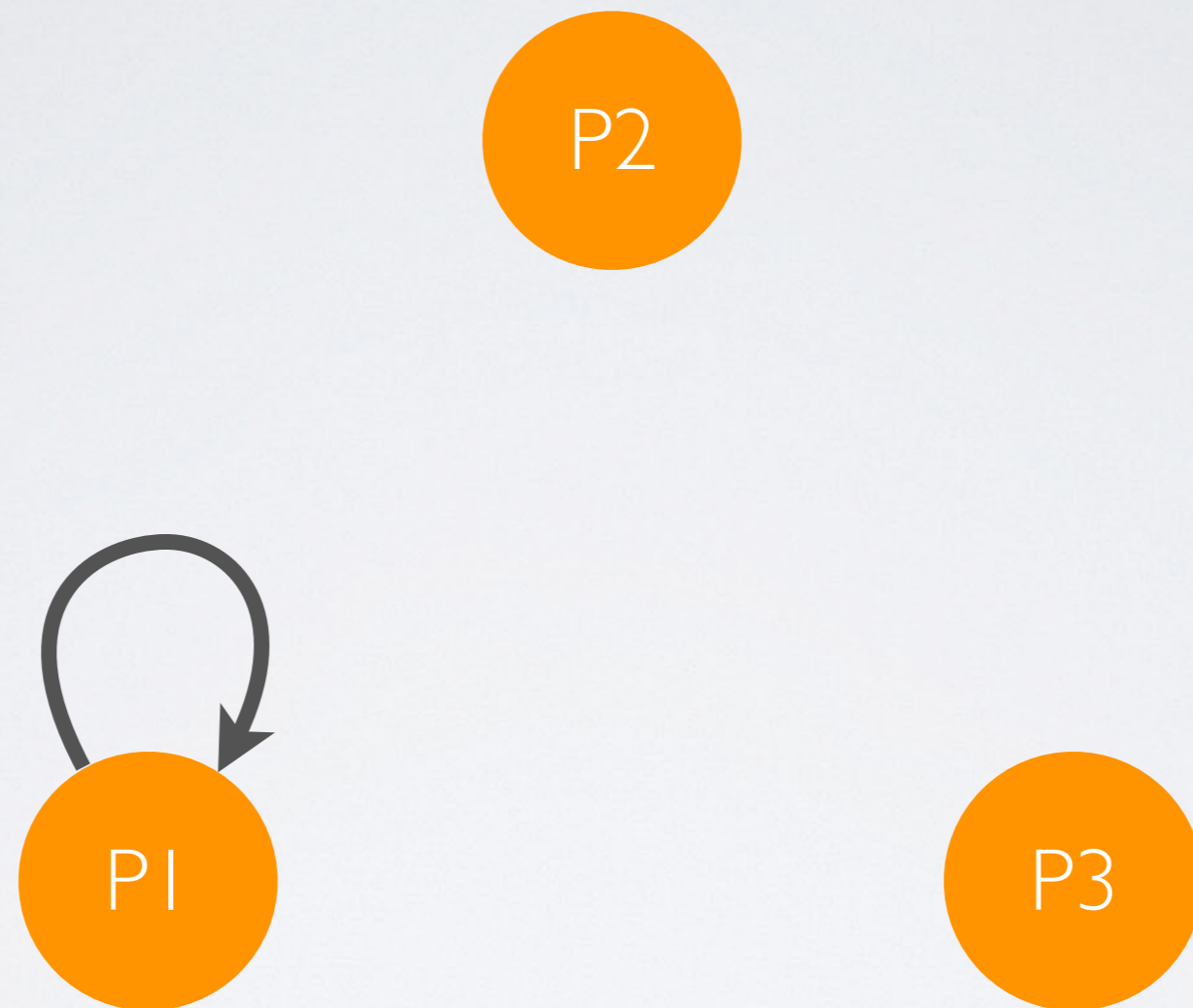
groove

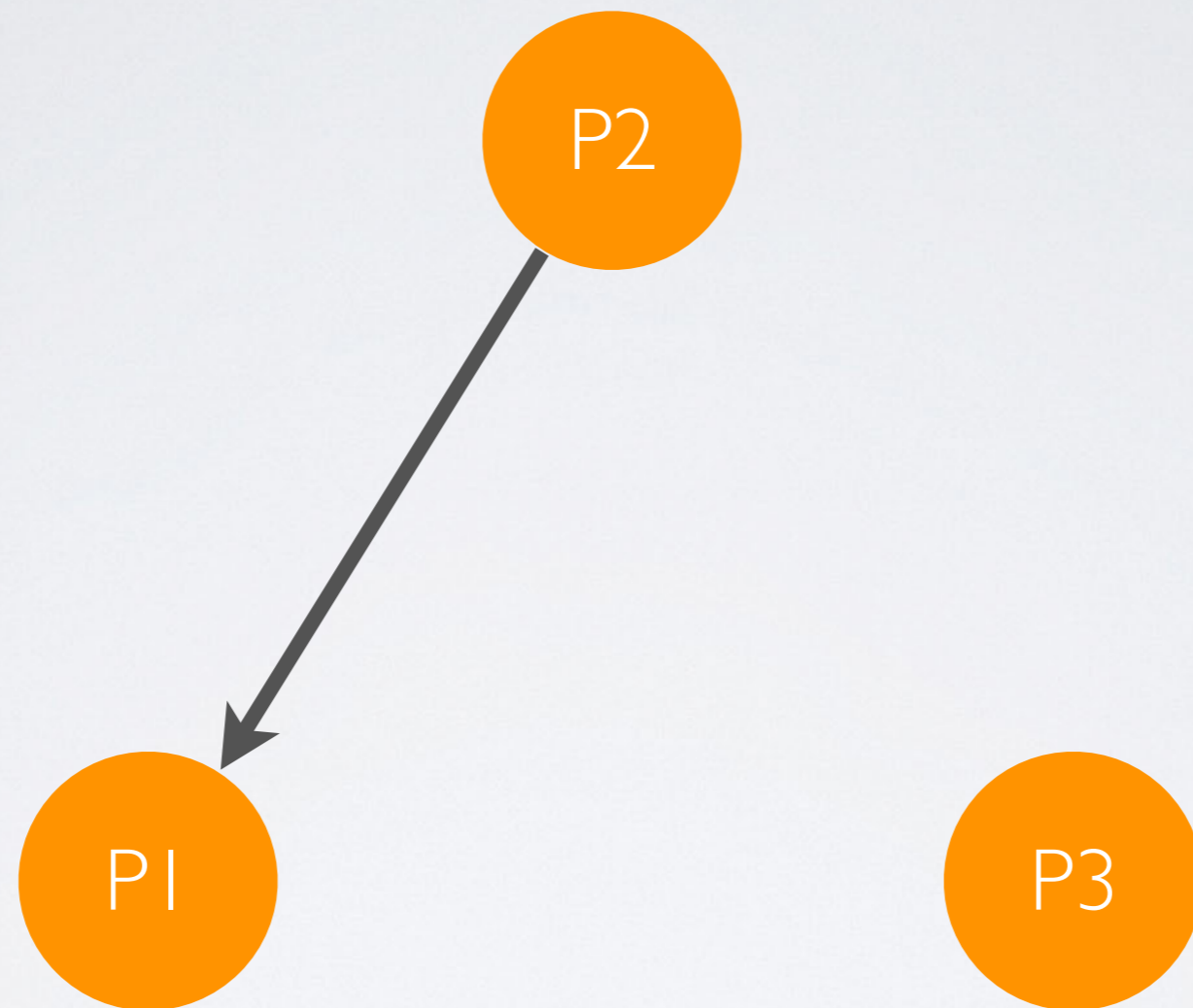
unselfishness

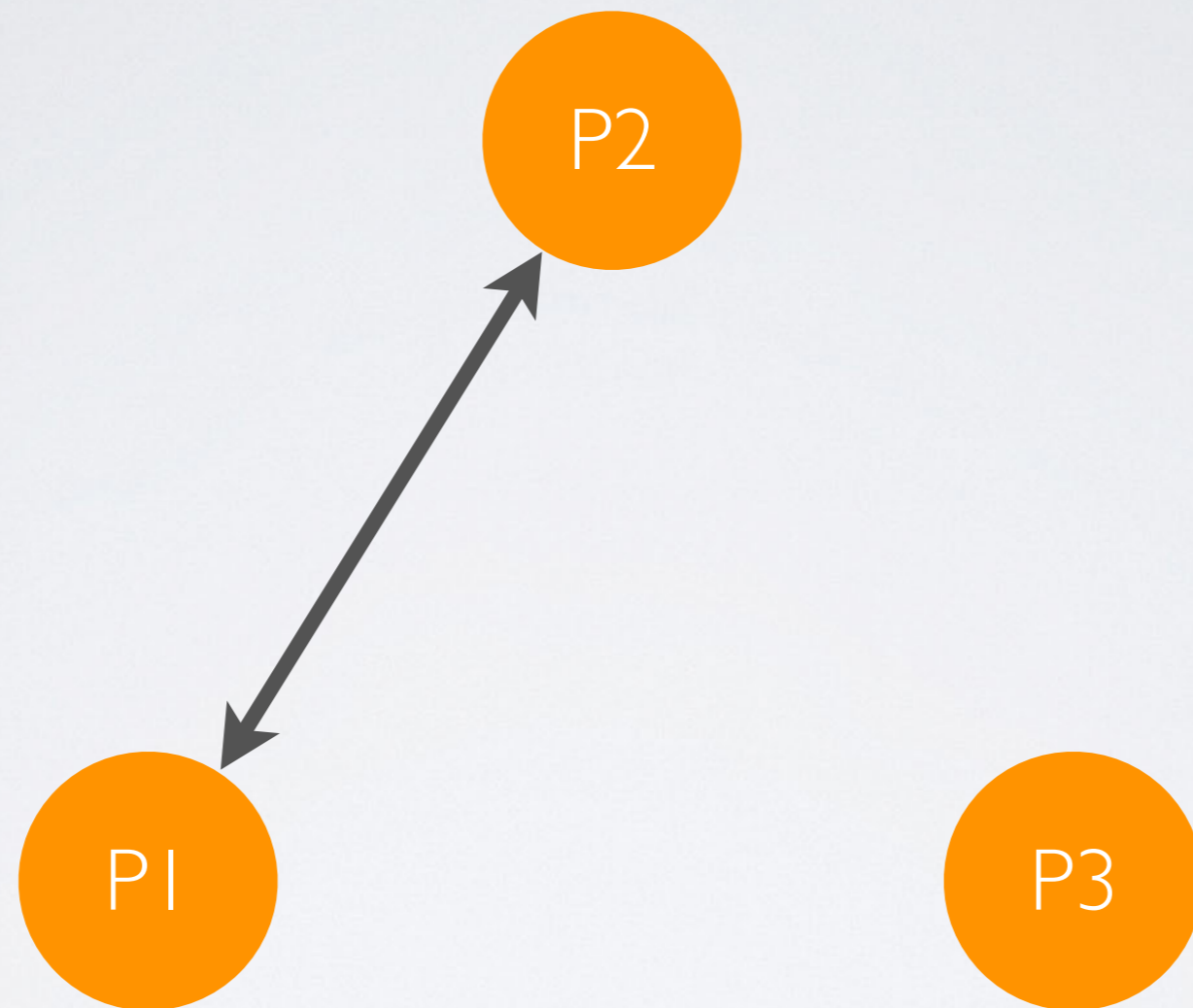
frustration

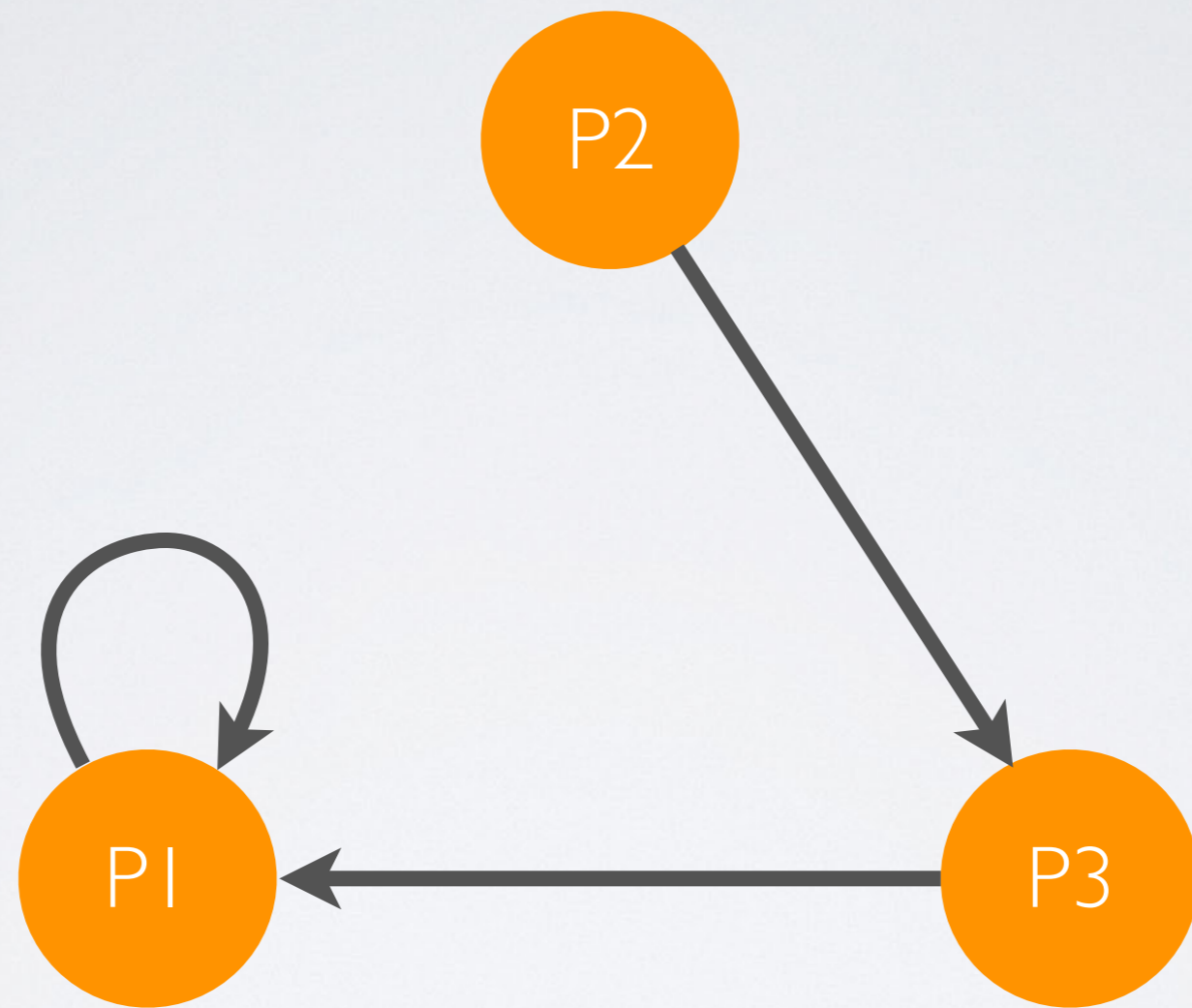
specific interactions

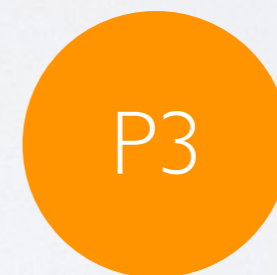
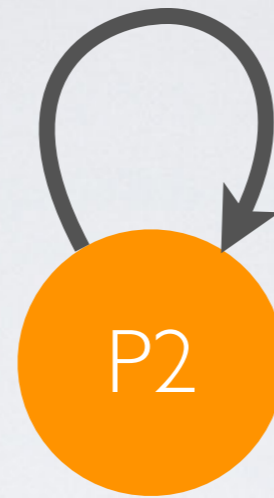




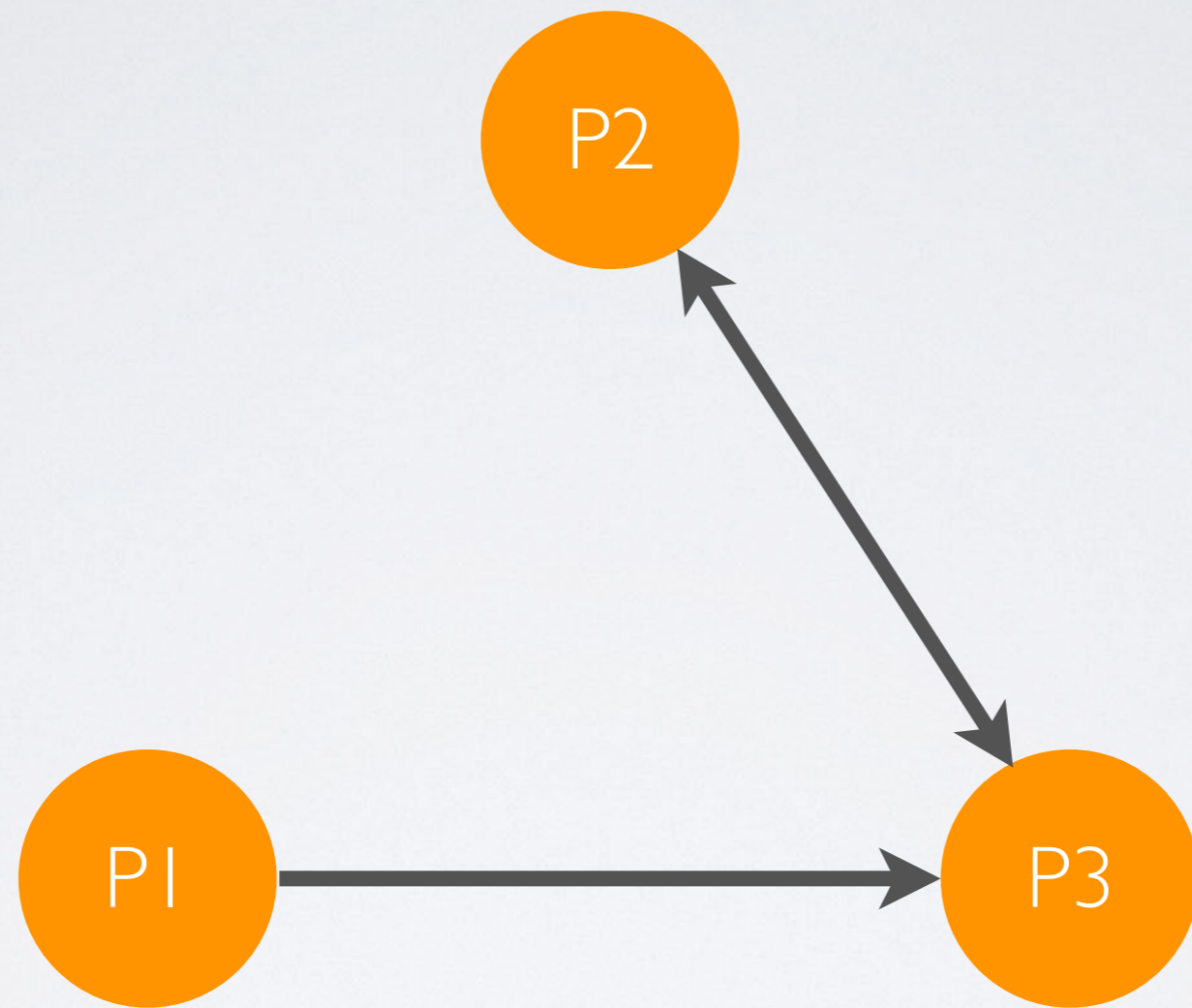


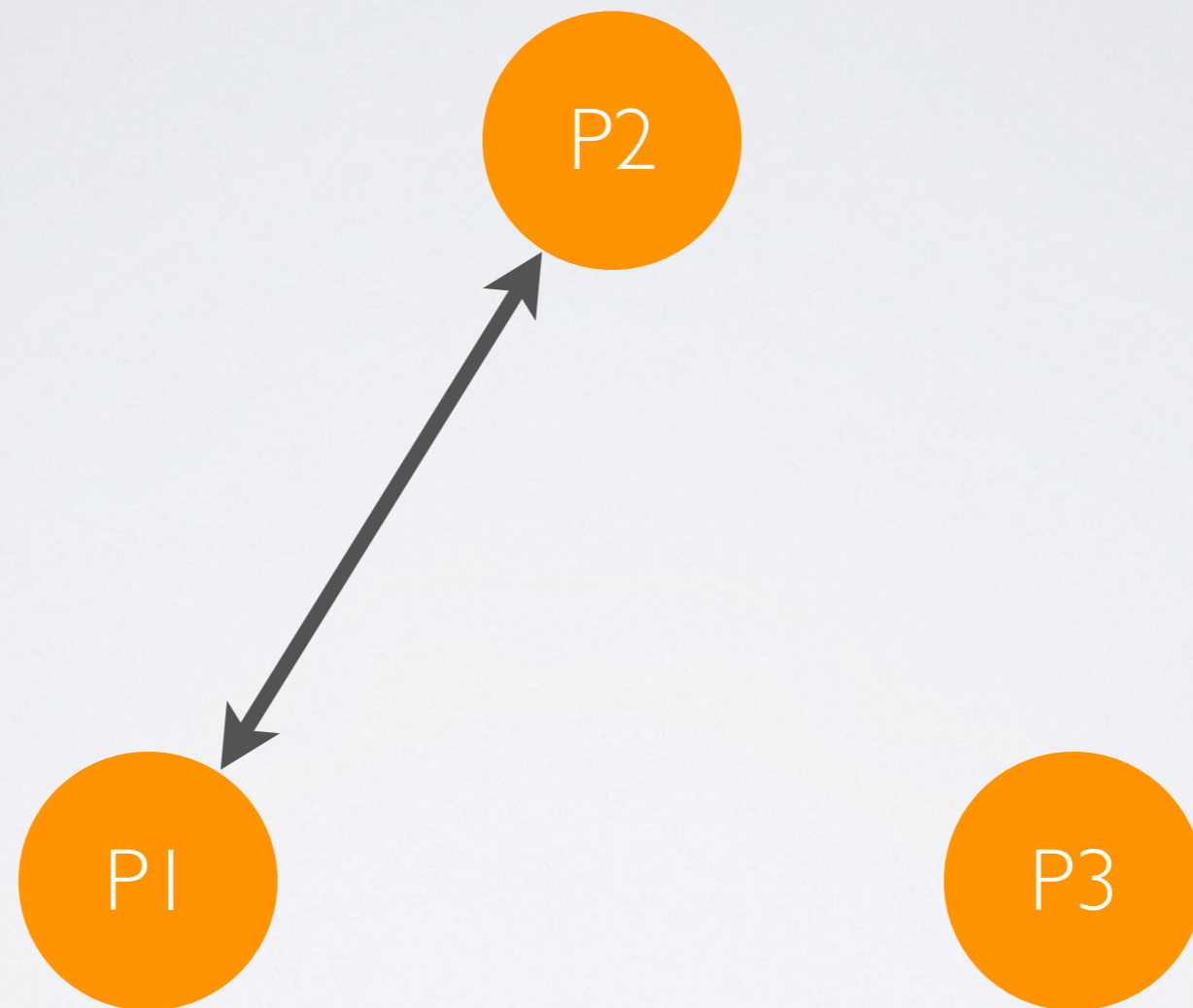


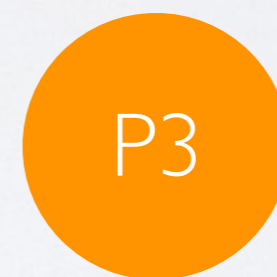


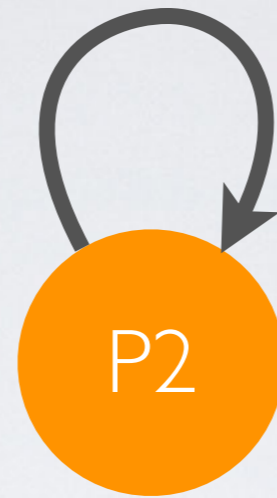


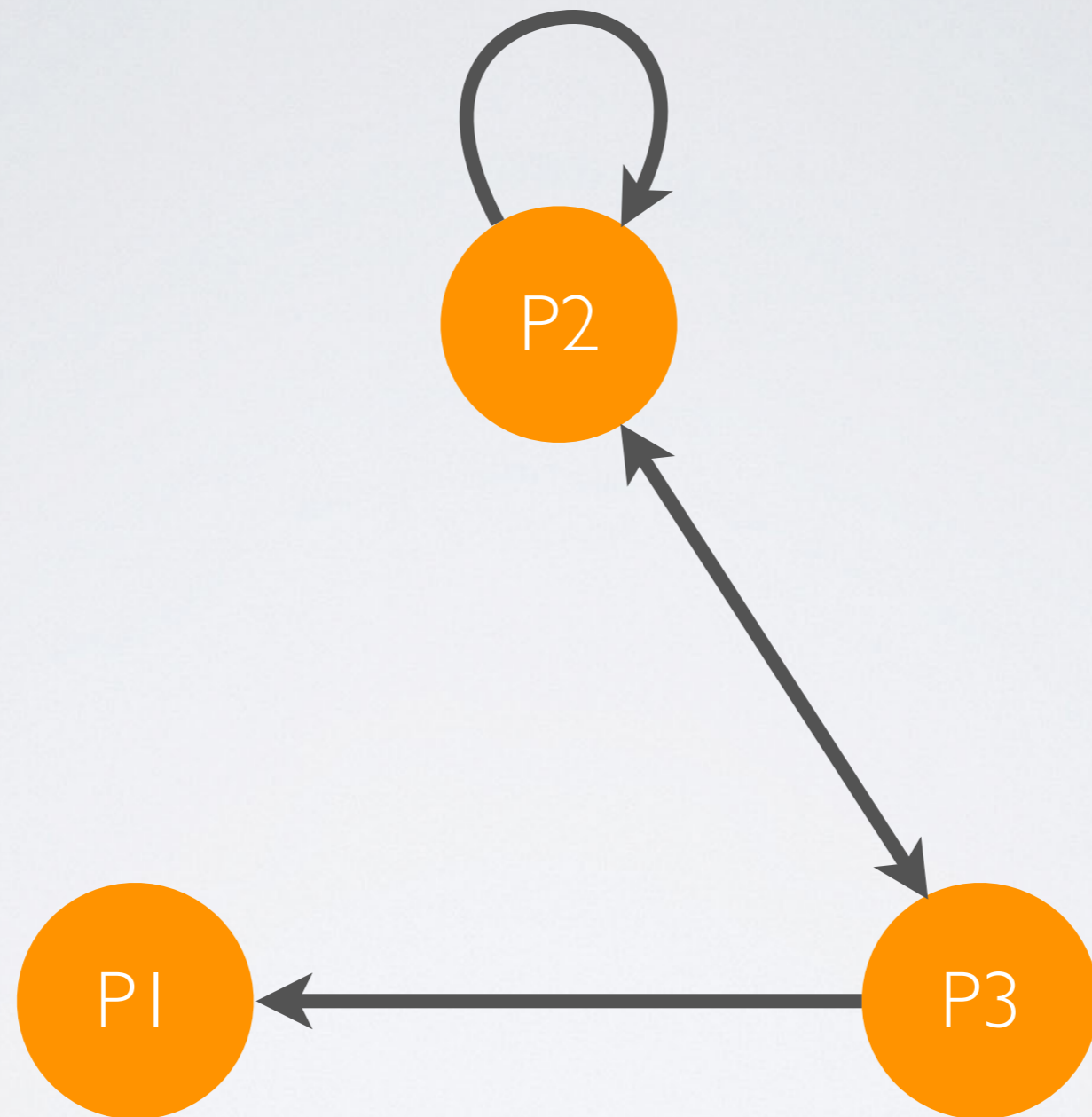


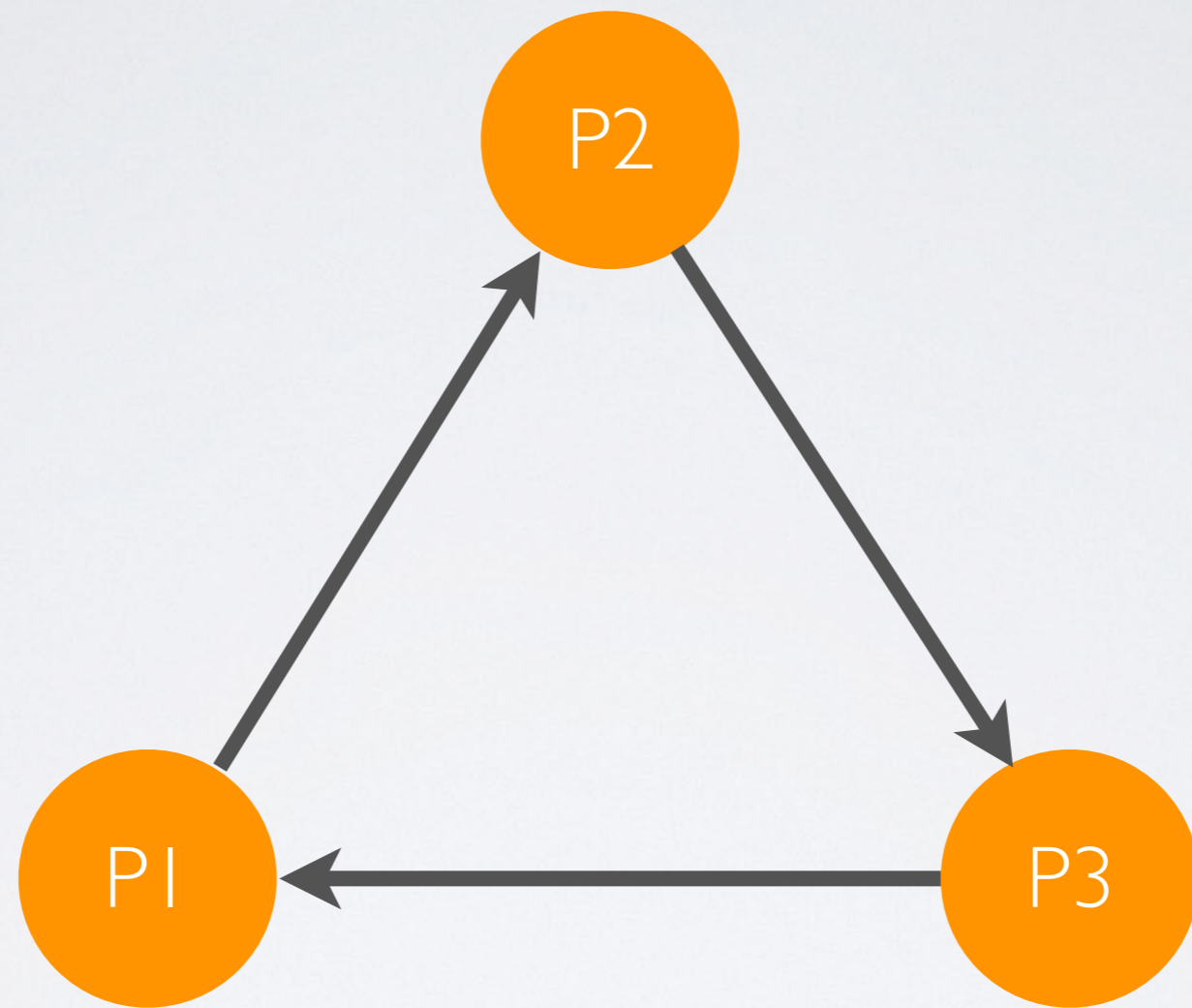












we need a nuanced, interactional,
holistic picture of engagement

so what's next?

truly context aware systems

Cheers

ben.swift@anu.edu.au

au.movember.com/mospace/1238324/

