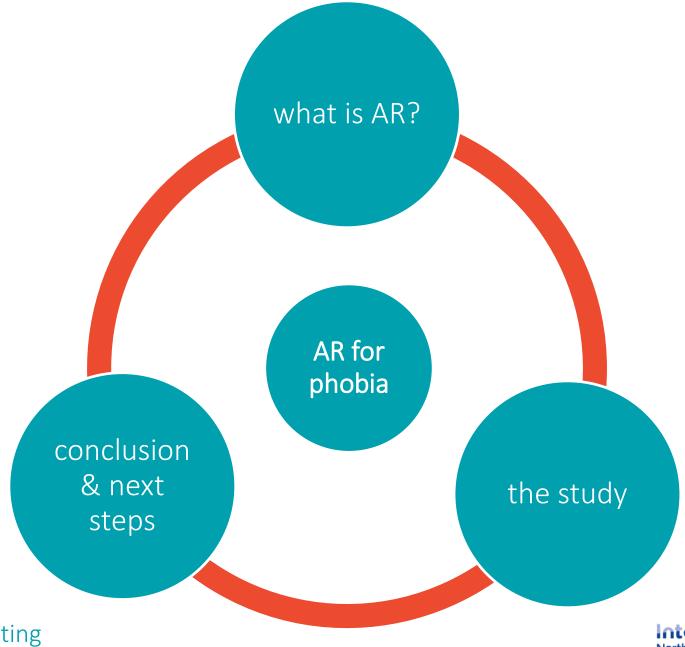


FOCUS





WHAT IS AR?

Augmented reality is a form of extended reality (XR) & aims to merge virtual elements into the view of the physical world

Similar to more established VR, yet also different

Will in time probably be replaced by mixed reality

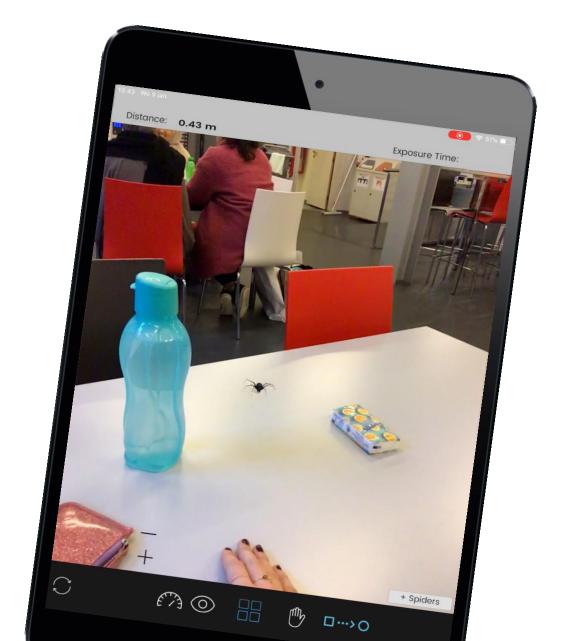








WHAT IS AR – PHOBOS AR







THE STUDY – AIMS DISCUSSED TODAY

Explore potential of iOS application Phobos AR, first markerless smartphone app for animal phobia treatment

 Evaluate whether it could elicit feelings of anxiety in a non-clinical population when performing behavioural approach tasks (BATs) hypothesis: yes ☺

2. Explore whether screen size (iPhone versus iPad) impacted self-reported anxiety severity

hypothesis: iPad > iPhone





THE STUDY – METHOD

Participants

- 111 students
- 19 (SD = 3.06, range = 17-40) years of age
 - 25 men, 85 woman, 1 non-binary

Randomly assigned to 1 of 2 conditions

- iPhone (N = 55)or iPad (N = 66)
- Animal of their choosing, for which they could not be phobic





THE STUDY – METHOD

1 week before experiment: online survey

- Specific phobia (Severity Measure for Specific Phobia-Adult; Craske et al., 2013)

Suring experiment

- Self-reported anxiety (on a scale of 1-10)

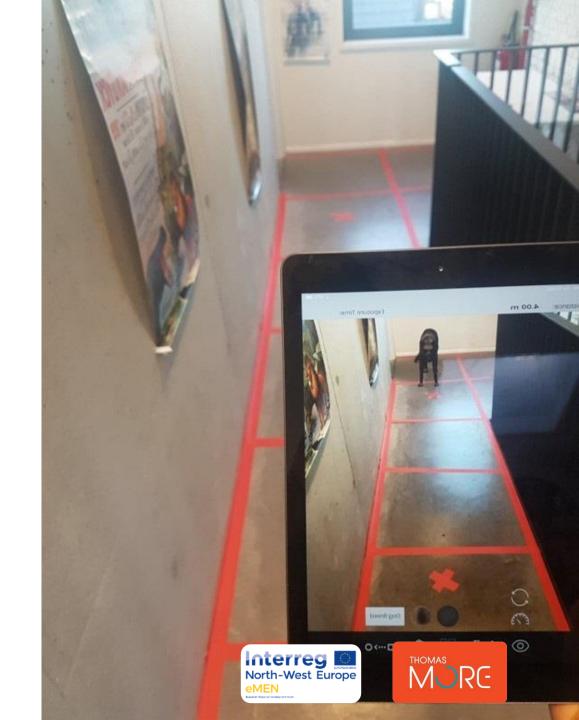


THE STUDY - PROCEDURE

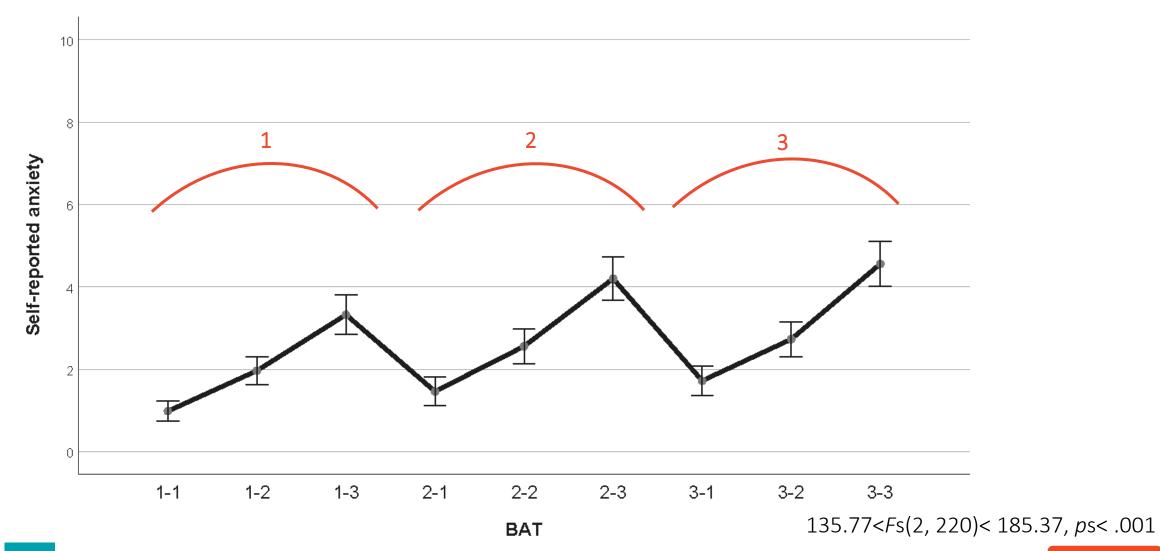
Animal of their choosing (controlled for in the analyses)

3 discrete BATs

Given the absence of specific phobia, focus on self-reported anxiety, rather than amount of successful steps



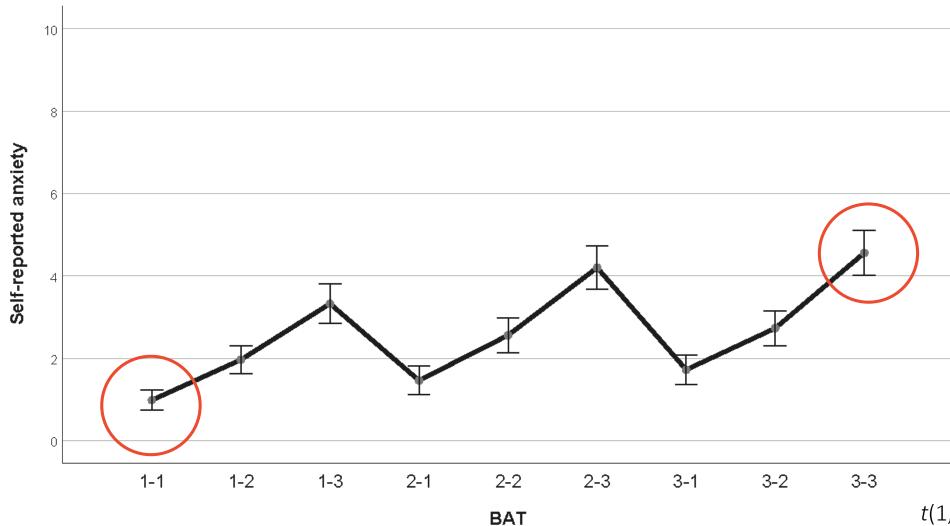
THE STUDY – RESULTS







THE STUDY – RESULTS

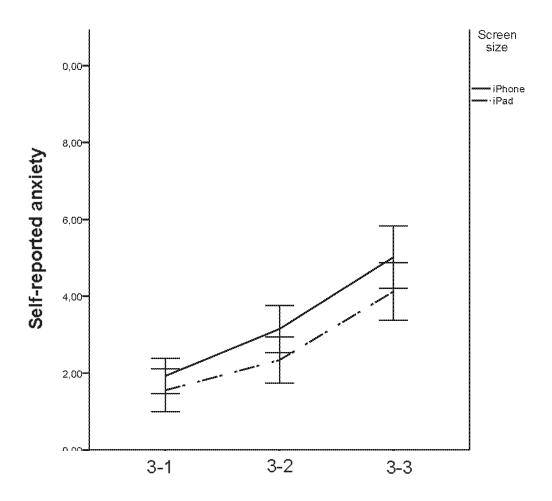


t(1,110)=16.15, p<.001





THE STUDY – RESULTS



F(1.32,216)=1.74, p = .19





CONCLUSION & NEXT STEPS

An AR application is able to induce self-reported anxiety in a non-clinical population.

Increasing screen size does not seem to (straightforwardly) influence self-reported anxiety

But distance to screen or ease of use?





CONCLUSION & NEXT STEPS

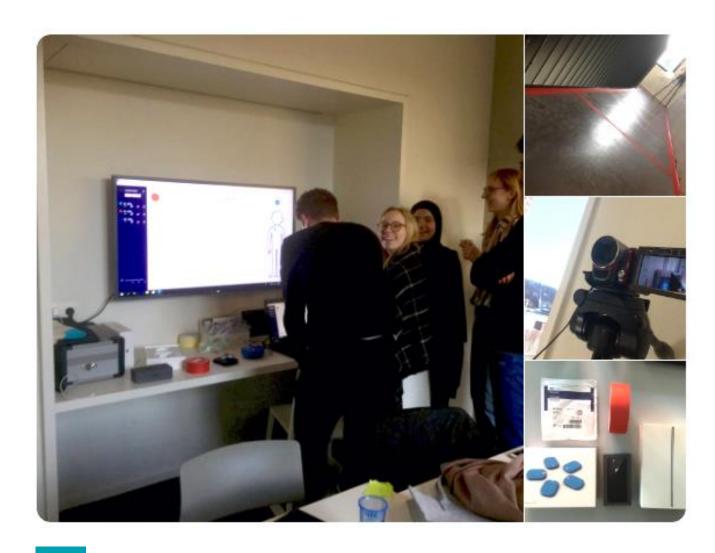
Given that basis principle seems to be valid, how does this translate to a clinical population?

And how does it compare to existing techniques?





CONCLUSION & NEXT STEPS



It's been a team effort





