

SAFEGUARDING INCLUSION WHEN USING GESTURES IN MICROTASK CROWDSOURCING

How can using gestures as an alternative input modality for microtask crowdsourcing lead to the exclusion of different groups?

WHAT?

- Microtask crowdsource workers are negatively influenced, mentally as well as physically, by the repetitive nature of the tasks they perform.
- Research is ongoing on whether using a gesture-based input technique could mitigate these negative effects.
- Because different solutions impact people in different ways we research the inclusivity of using gestures as an alternative input modality for microtask crowdsourcing.

WHY?



- Ensuring inclusivity in the workplace leads to greater job satisfaction and increased innovation. [1]
- With crowdsourcing platforms often being used for research, it is important that they can continue to offer a diverse participant pool.

HOW?



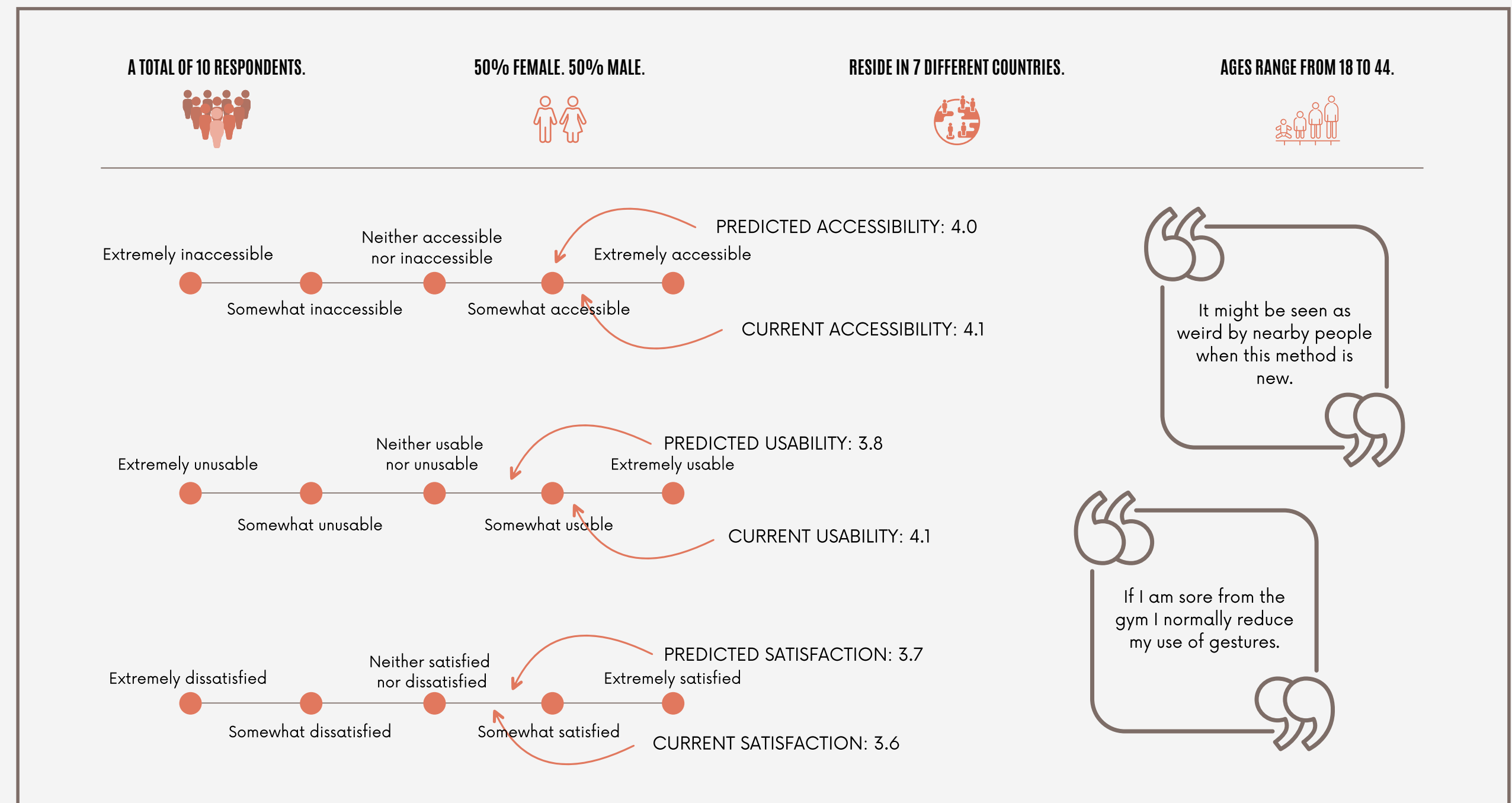
A survey distributed through Prolific [2].

Open-ended questions aimed at finding reasons for gestures not being inclusive, split by categories **physical**, **economic**, **conceptual** and **cultural**.



Likert scale questions about **accessibility**, **usability** and **satisfaction** in the current scenario and in a scenario with gesture based input.

RESULTS.



FUTURE.



- Repeat the research on larger number of people; include older people and people from low income countries.



- Conduct focus groups to elicit response and get people to bounce of each others ideas.

DELFT UNIVERSITY OF TECHNOLOGY

GET IN TOUCH

Research Project by Sanne Veringa
Supervisor: Garrett Allen
Responsible Professor: Ujwal Gadiraju

s.h.veringa@student.tudelft.nl
g.m.allen@tudelft.nl
u.k.gadiraju@tudelft.nl

REFERENCES

[1] Brimhall, Kim & Mor Barak, Michalle. (2018). The Critical Role of Workplace Inclusion in Fostering Innovation, Job Satisfaction, and Quality of Care in a Diverse Human Service Organization. Human Service Organizations: Management, Leadership & Governance.

[2] "Prolific academic." Available from: <https://prolific.ac/>.