Disability Inclusion, Intersectionality, and Knowledge Translation

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KNOWLEDGE TRANSLATION FOR

DISABILITY & REHABILITATION RESEARCH







Developing a Digital Technology Evidence Toolkit and Portal for Mitigating Social Isolation and Loneliness in Older Adults

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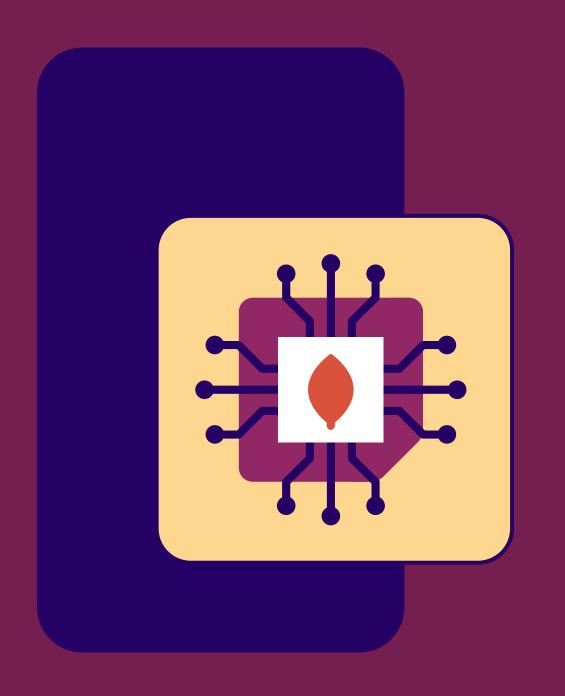
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01 BACKGROUND

What we already know

Literature Review

- Social isolation and loneliness among older adults are recognized as pressing public health issues nationally and internationally. [1—6]
- The COVID-19 pandemic exacerbated these issues, particularly among older adults due to physical distancing measures, leading to increased social isolation and loneliness. [1,2,4,7]
- Technological advancements have led to increased use of interconnected devices, making digital and remote interventions viable solutions for maintaining social connections among older adults. [8,9]
- The pandemic also accelerated the reliance on remote methods and digital technology to maintain social connections among older adults. [8,9]



THE GAP!

practical guidance for implementing digital interventions with consideration for equity and accessibility



02 OBJECTIVES

The Purpose of our Project

Objectives

Identify effective digital approaches to reduce social isolation and loneliness

- Assess and synthesize evidence on equity considerations for these technologies
- Develop and evaluate the equity-focused toolkit of effective digital interventions



03 METHODS

What we did

Methodology

Selection of Systematic Reviews

- Derived 3 intervention reviews from an existing WHO Evidence and Gap map using the following criteria: [10]
 - 1. Meta-analysis
 - 2. Highest quality
 - 3. Lowest risk of bias
- 4. Within 5 years
- 5. Older adults

2 Developing a Summary Template

- Evaluated three different summary styles:
 - 1. Evidence 4 Equity
 - 2. Youth Endowment Fund
 - 3. Disability Evidence Portal
- Acquired feedback from our advisory committee and selected the Youth Endowment Fund template as most suitable

Completing the First Draft of the Toolkit

- Created the toolkit landing page on our Ottawa Centre for Health Equity (OCHE) website
- Designed the top-level and second-level images on Canva
- Migrated all the completed summary data onto the OCHE website

Methodology

Composition of Reviewers

- Tapped into our professional and personal networks
- Created a panel of reviewers to participate in the feedback interviews, including:
 - 1. Researchers
 - 2. Practitioners
 - 3. Policymakers
 - 4. Community members

Collecting theFeedback Date

- 8 one-on-one, semistructured Zoom interviews (30 - 60 minutes each)
- Audio-recorded and transcribed with Otter.ai
- Transcripts approved by participants before use
- \$25 honorarium for members of the public

6 Identifying Strengths and Modifications

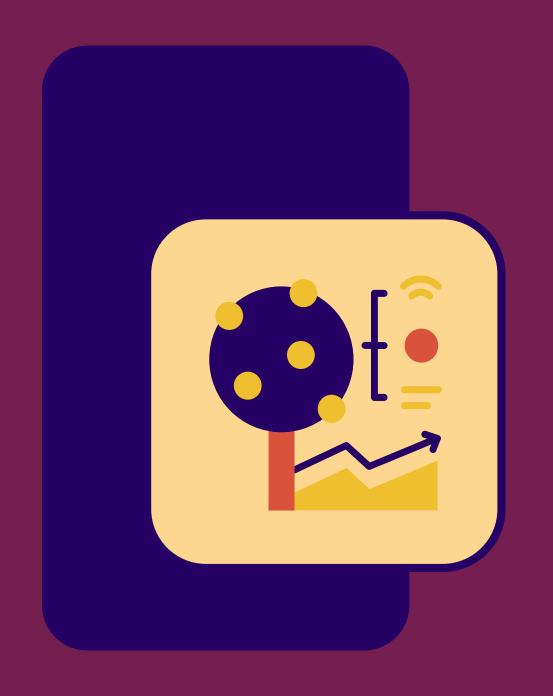
 Coded deductively using a home-made framework:

Part One: Contextual Information 6 Parent codes (e.g. *Research Familiarity*)

Part Two (a): Evaluation of the Structure
5 Parent codes (e.g. Anticipated Time Spent)

Part Two (b): Evaluation of the Content 18 Parent codes (e.g. *Equity Value*)

Part Three: Evaluation of the Exercise 1 Parent code (*Suggestions to Improve*)

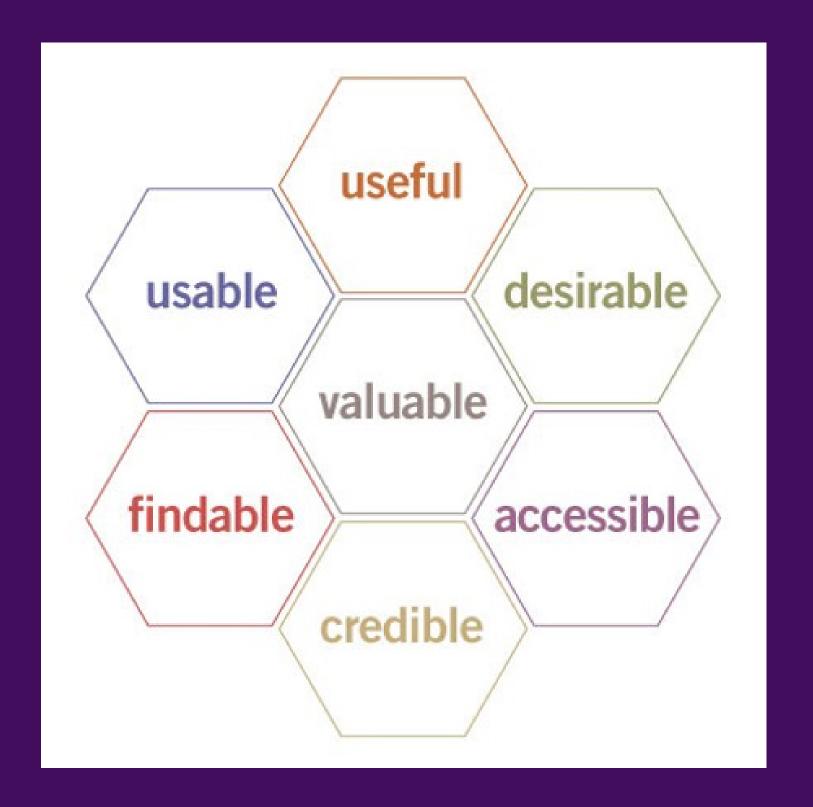


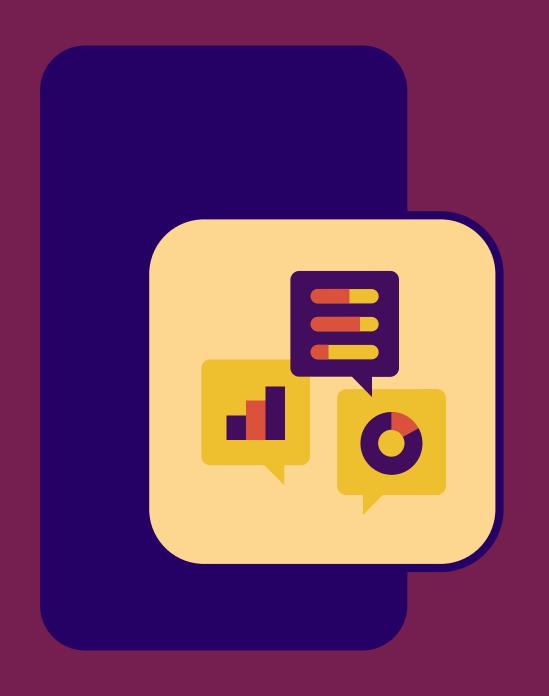
04 ANALYSIS

How we examined the data

Analysis of the Feedback Data

- Using Peter Morville's User Experience
 Honeycomb (on the right), [11] the data was analyzed across the following themes:
 - 1. Usability
 - 2. Usefulness
 - 3. Desirability
 - 4. Credibility
 - 5. Findability
 - 6. Value
 - 7. Equity Value
- Accessibility was a cross-cutting theme
- Points of improvements to the interface, content, and feedback exercise were derived from the raw data into actionable "next steps"





05 RESULTS

What we discovered

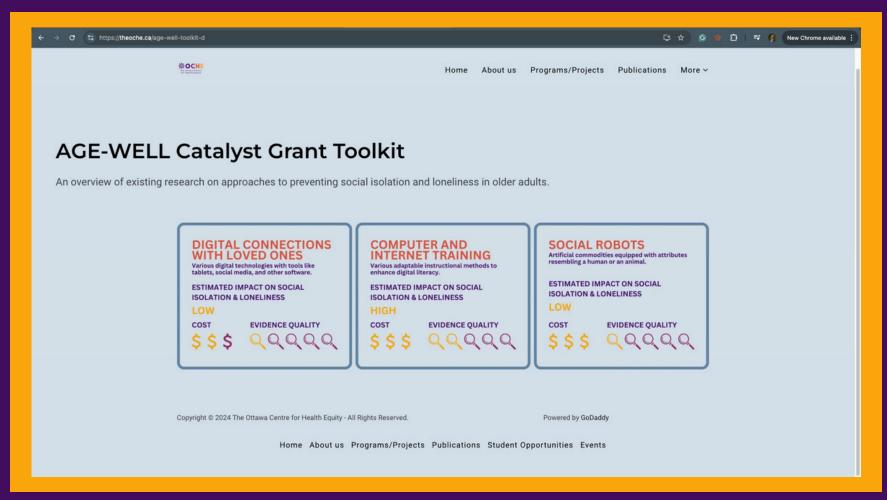
We Discovered...

- Most (87.5%) believed it was *credible*
- Most (87.5%) believed it was understandable
- Most (87.5%) believed it was useful
- Most (87.5%) believed it was desirable
- Some (75%) believed it was valuable
- Some (75%) believed it had equity value
- Few (37.5%) believed it was usable
- Few (12.5%) believed it was findable



- suggested improvements to the interface
- 28 suggested improvements to the content
- of the feedback exercise







06 CONCLUSION

The next steps

Conclusions

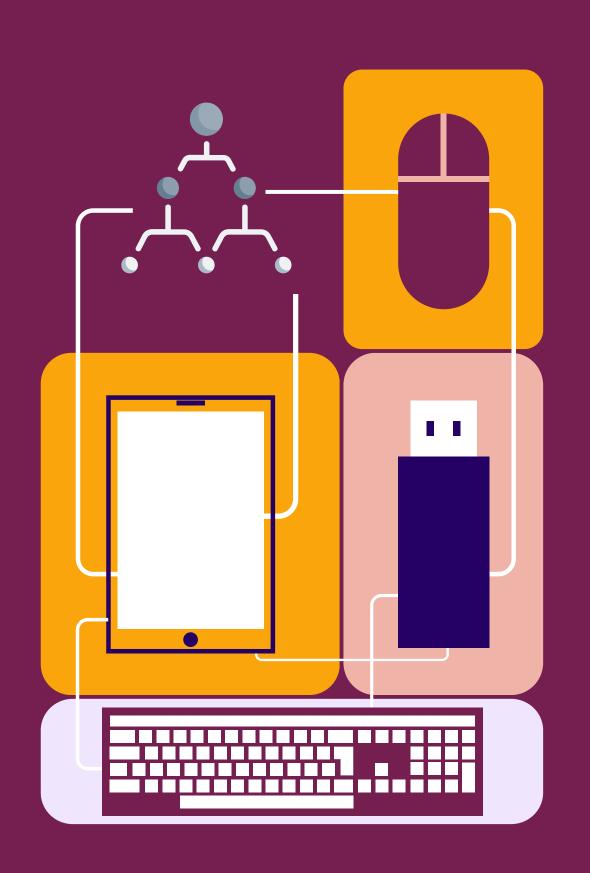
- Identified 3 effective digital approaches to reduce social isolation and loneliness
- Assessed and synthesized evidence on equity considerations for these 3 technologies
- Developed and evaluated this equity-focused toolkit across Peter Morville's User Experience Honeycomb

Next Steps ->

- Create version 2.0 (from this data)
- Scale-up the toolkit
- Disseminate to WHO and other networks

References

- [1] World Health Organization, editor. Decade of healthy ageing: The Baseline Report for the Decade of Healthy Ageing 2021–2030 [Internet]. World Health Organization. World Health Organization; 2021 [cited 2021Aug20]. Available from: https://www.who.int/publications/i/item/9789240017900
- [2] Menec VH, Newall NE, Mackenzie CS, Shooshtari S, Nowicki S. Examining social isolation and loneliness in combination in relation to social support and psychological Distress using Canadian longitudinal study of aging (CLSA) data. PLOS ONE. 2020;15(3).
- [3] Cotterell N, Buffel T, & Phillipson C. Preventing social isolation in older people. Maturitas. 2018;113:80–84.
- [4] Calderón-Larrañaga A, Dekhtyar S, Vetrano DL, Bellander T, Fratiglioni L. COVID-19: Risk ACCUMULATION among biologically and SOCIALLY vulnerable older populations. Ageing Research Reviews. 2020;63:101149.
- [5] Alonso-Lana S, Marquié M, Ruiz A, Boada M. Cognitive and neuropsychiatric manifestations of covid-19 and effects on elderly individuals with dementia. Frontiers in Aging Neuroscience. 2020;12.
- [6] Brooke J, Jackson D. Older people and COVID-19: Isolation, risk and ageism. Journal of Clinical Nursing. 2020;29(13-14):2044–6.
- [7] Leigh-Hunt N, Bagguley D, Bash K, Turner V, Turnbull S, Valtorta N, et al. An overview of systematic reviews on the public health consequences of social isolation and loneliness. Public Health. 2017;152:157–71.
- [8] United Cities and Local Governments (UCLG), Metropolis, UN-Habitat. Digital Technologies and the COVID-19 Pandemic [Internet]. UCLG. 2020. Available from: https://www.uclg.org/sites/default/files/eng briefing technology final x.pdf
- [9] Ibarra F, Baez M, Cernuzzi L, Casati F. A systematic review ON Technology-supported interventions to Improve Old-Age Social Wellbeing: LONELINESS, social isolation, and connectedness. Journal of Healthcare Engineering. 2020;2020:1–14.
- [10] Welch VA, Ghogomu E, Barbeau V, Dowling S, Doyle R, Beveridge E, et al. Digital interventions to reduce social isolation and loneliness in older adults: An evidence and gap map. 2022. https://doi.org/10.1002/cl2.1260.
- [11] Morville P: User experience Design. UX Honeycomb Model. [Internet]. Semantic Studios. 2004. Available from: http://www.semanticstudios.com/publications/semantics/000029.php



THANKYOU!

DO YOU HAVE ANY QUESTIONS?

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