

Adults (with hearing loss) Only: making real-world connections

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Audiological Science

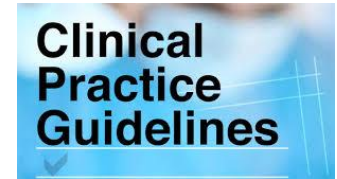
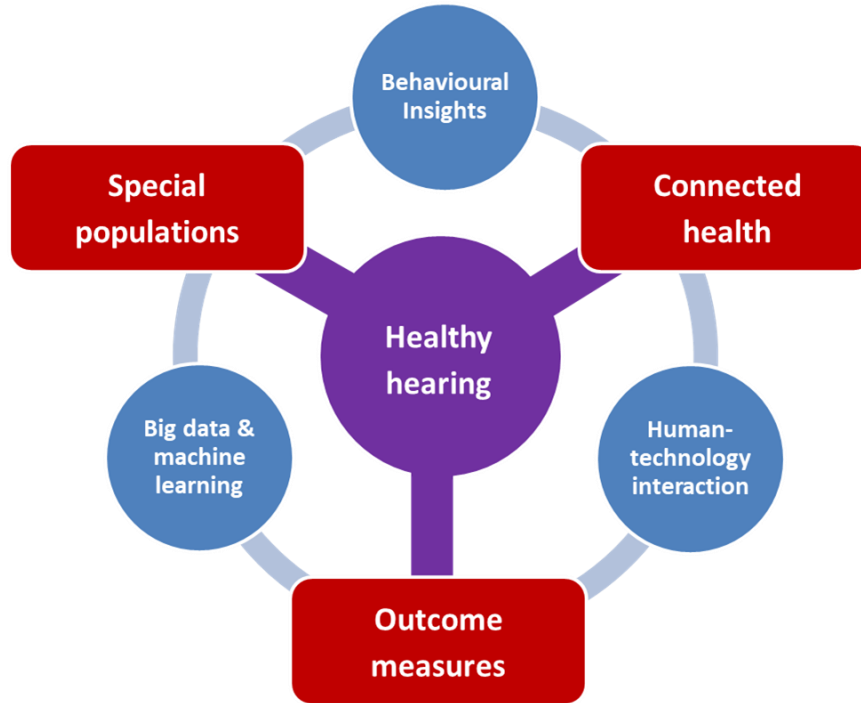


David Allen, Jess Cooper, Paola Incerti, Paul Jevelle,
Margot McLelland, Jermy Pang, Ingrid Yeend, Taegan Young



Engineering: Jorge Mejia, Nicky Chong-White, James Galloway, Humphry Qin, Ronny Ibrahim, Kyle Lui
Behavioural Science: Liz Beach, Simon Alperstein, Megan Gilliver

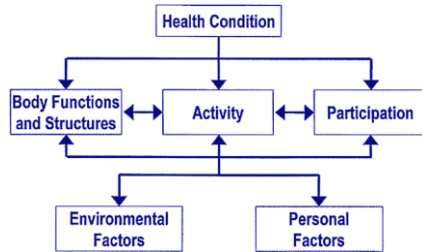
Adult Hearing Loss program



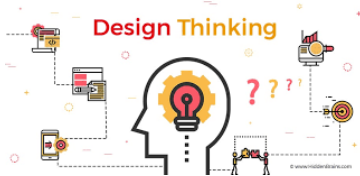
To drive outstanding people-focussed research and promote excellent evidence-based outcomes to improve quality of life for adults with hearing difficulties

Guiding principles

Underpinning theory



Research priorities



NICE
National Institute for
Health and Care Excellence



Patient-centred

Health behaviour change



Public & patient involvement



Connected Health



David Allen



Jermy Pang



Taegan Young



(Ferguson, Glista, Davies-Venn, NT Aud News, 2019; Int J Aud 2020)

Mobile tech for connected hearing healthcare and self-management

Smartphone-
connected
hearing aids

Post-fitting
motivational support

Hearing health
education

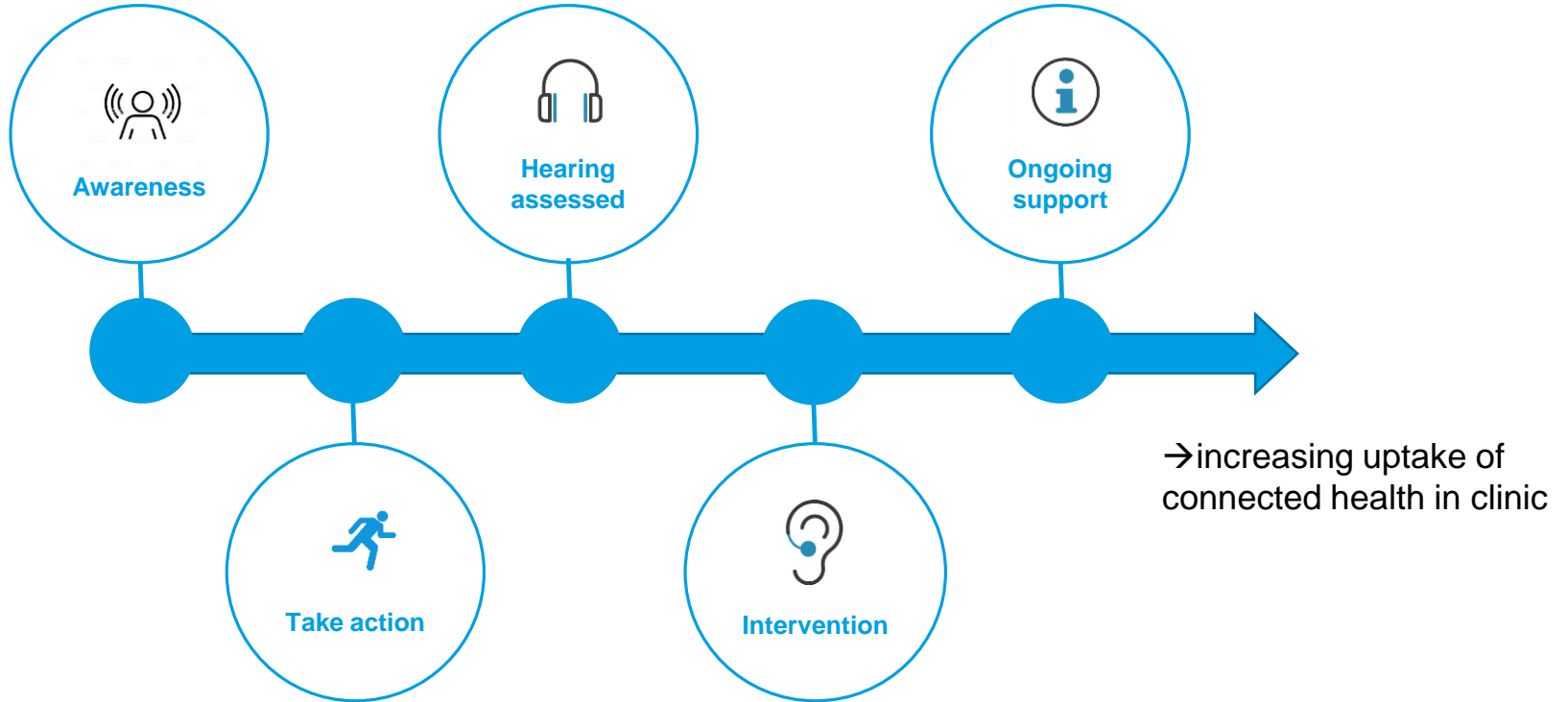
Hearables
PSAPs



Remote device
adjustment

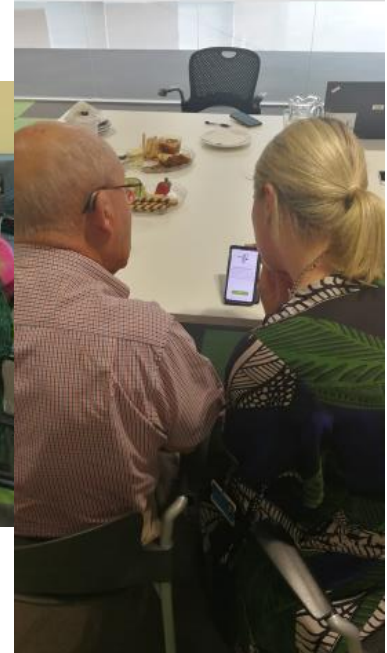
Pre-assessment/
pre-fitting preparation

Patient pathway



Patient and public involvement (PPI)

Aus: Community and consumer involvement

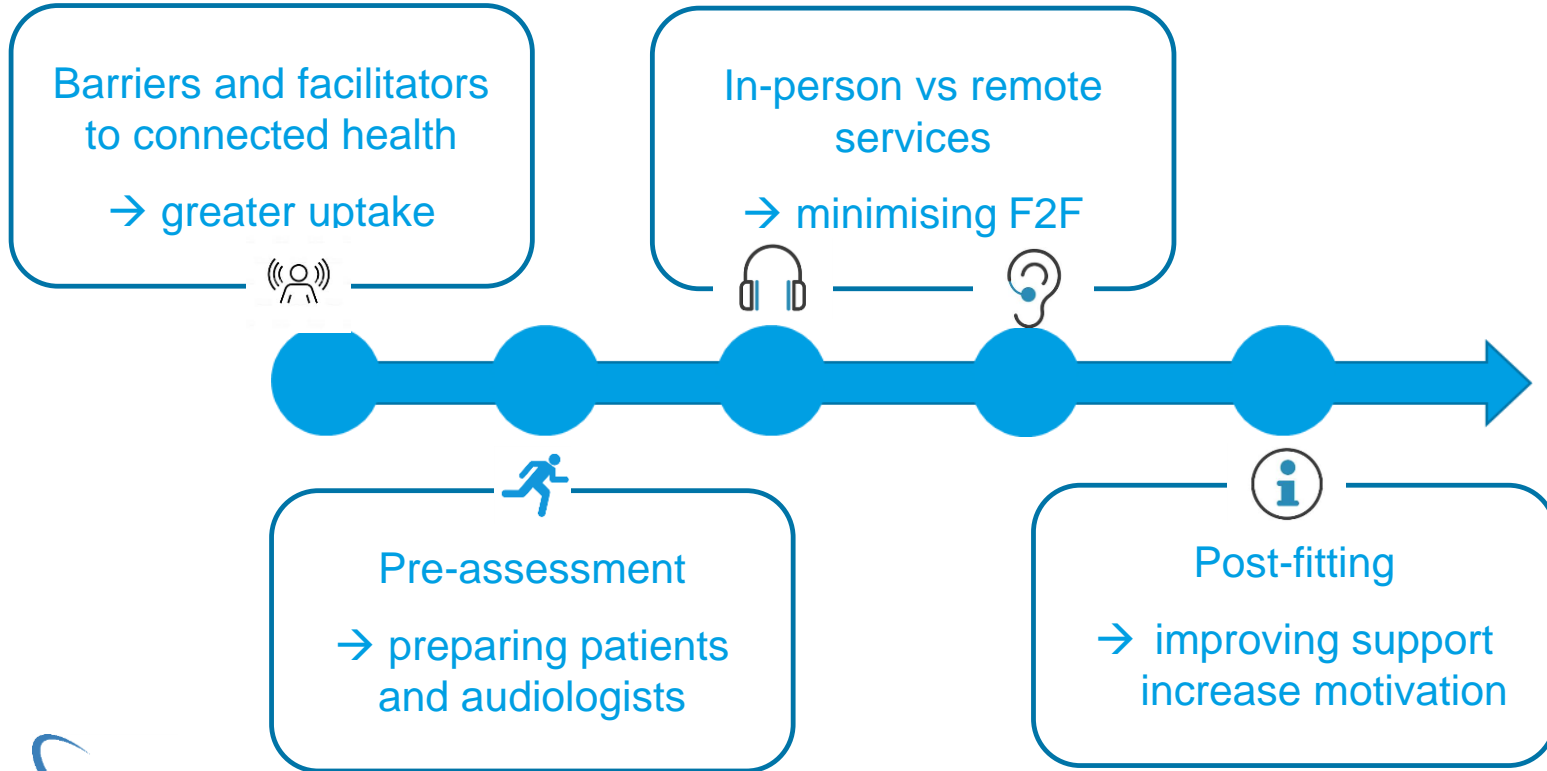


Working WITH researchers
rather than FOR researchers
"Not about us without us"



- PPI can address mismatch between the needs of the users and research agendas
- PPI ensures the research is aligned with patients' needs

What patients and audiologists want? What works?



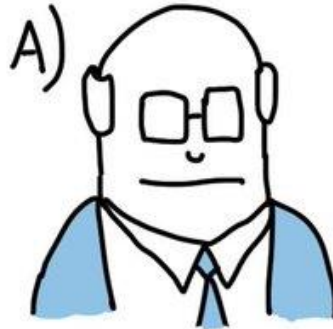
What patients and audiologists want? What works?

Barriers and facilitators
to connected health

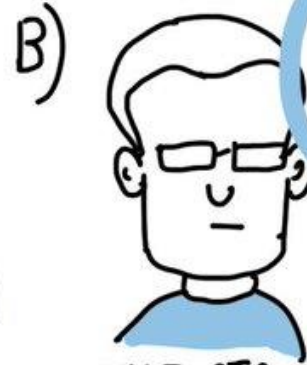
→ greater uptake



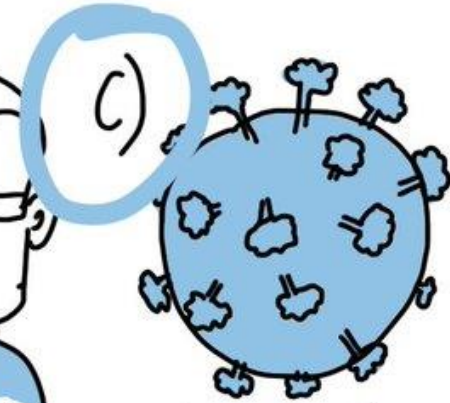
WHO LED THE DIGITAL TRANSFORMATION
OF YOUR COMPANY ?



THE CEO



THE CTO



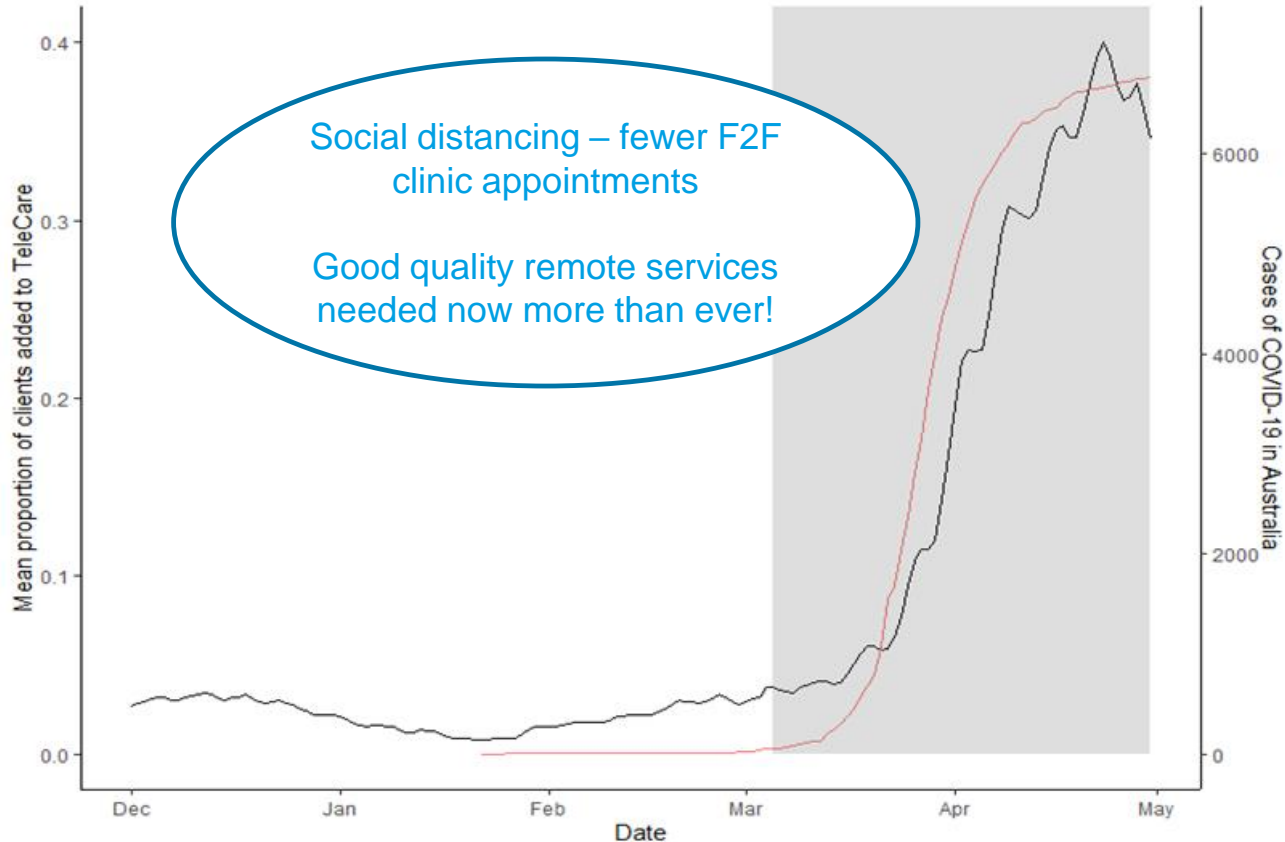
COVID-19

BUSINESSILLUSTRATOR.COM

New service models – what a difference a pandemic makes!

Telecare app

COVID19



Outcome measures



David Allen



Defining Outcomes: Hearing Services Program

- No national guidelines on what outcomes should be used, why, how and when in Australian hearing healthcare

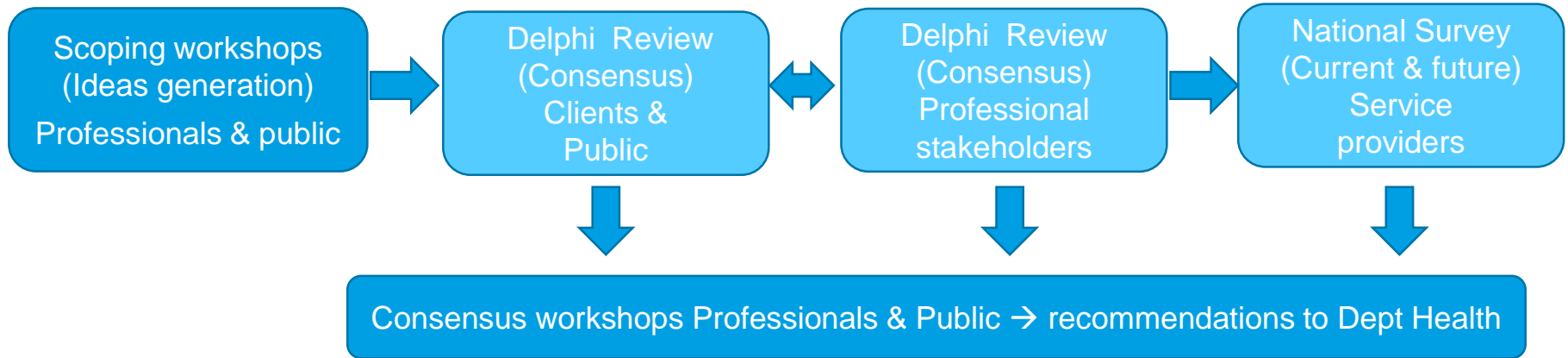


- Roadmap for Hearing health (2019)
 - standardised national reporting of hearing loss and establish national database

Overall aim:

To develop and deliver recommendations on evidence-based patient-focussed outcomes to measure the success of the HSP

Defining Outcomes: Hearing Services Program



- Many domains suggested by professionals are not currently captured by existing standard outcome measures (e.g. well-being, social isolation and loneliness)
- Although there are some similarities in domains between professionals and patients, there are some marked differences (e.g. hearing loss impacts less on family, more control over hearing)

Special populations

- Unilateral hearing loss
- Aged care



Paola Incerti

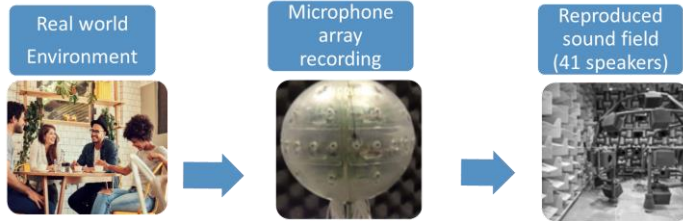


Ingrid Yeend



Special populations: characterisation of unilateral hearing loss using new methods and techniques

Realistic conversation

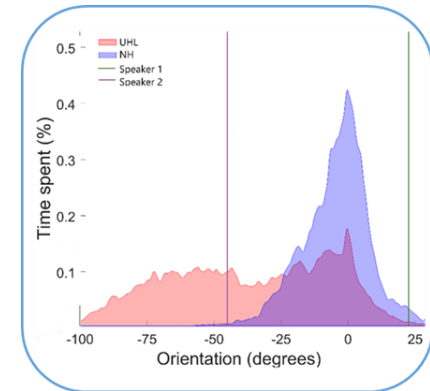


Head tracking

EMA – real-world

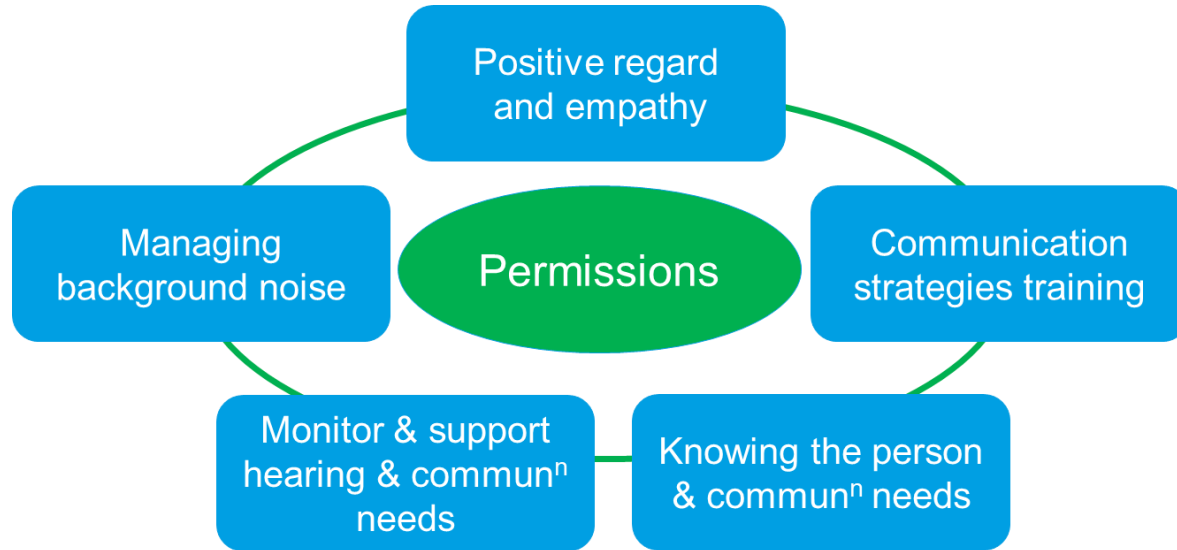


Cognition



Special populations: hearing-related communication in care homes

Identifying research priorities in this complex environment (hearing loss, dementia)

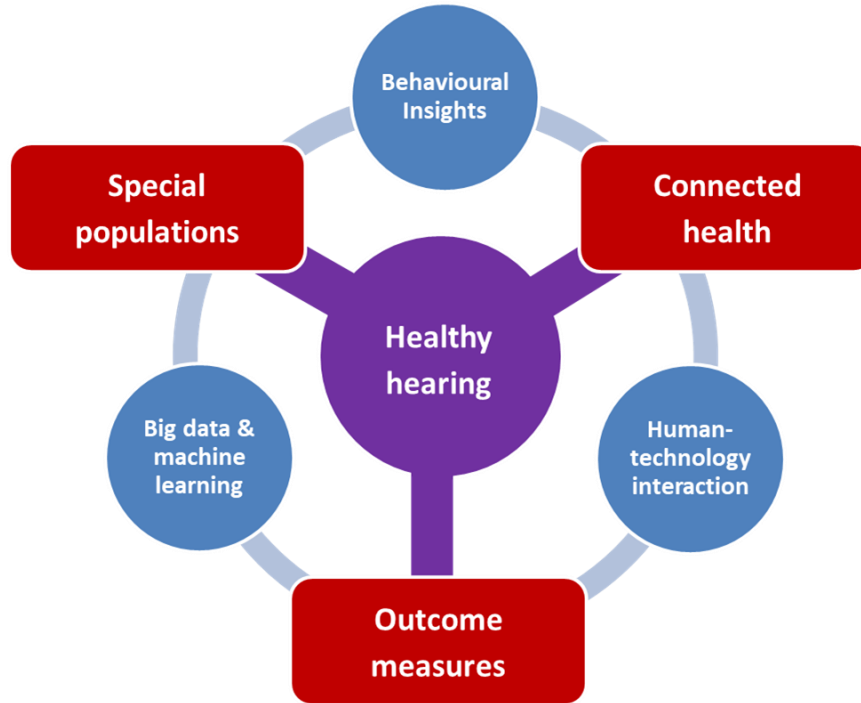


Realist
synthesis



(Crosbie et al, BMC Med, 2019)

Adult Hearing Loss program



To drive outstanding people-focussed research and promote excellent evidence-based outcomes to improve quality of life for adults with hearing difficulties

Adults only research: where next?



NAL needs you!



Paola.Incerti@nal.gov.au



Healthcare professional database



Adults only: coming up in Soundbites?



David Allen, PhD

Outcomes
Measures
Connected health
Future trends



Jermy Pang

Pre-assessment
preparation and
information



Taegan Young

Post-fitting
motivation and
information



Paola Incerti

Unilateral hearing
loss
Connected health
guidelines



Mel Ferguson, PhD

Smartphone-
connected HAs

Remote HA
assistance

Remote self-
management
program

Thanks to.....



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Hearing Australia

Q&A

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