



Hack 4 Good

November 2016

Australian Population

1 in 3

People have a disability or are close to someone who does

18.5%
of the **population** has
disability, that's over
4.3 million Australians



**Nearly one third
(31%)** of complaints
lodged with AHRC
are against
businesses and
related to disability

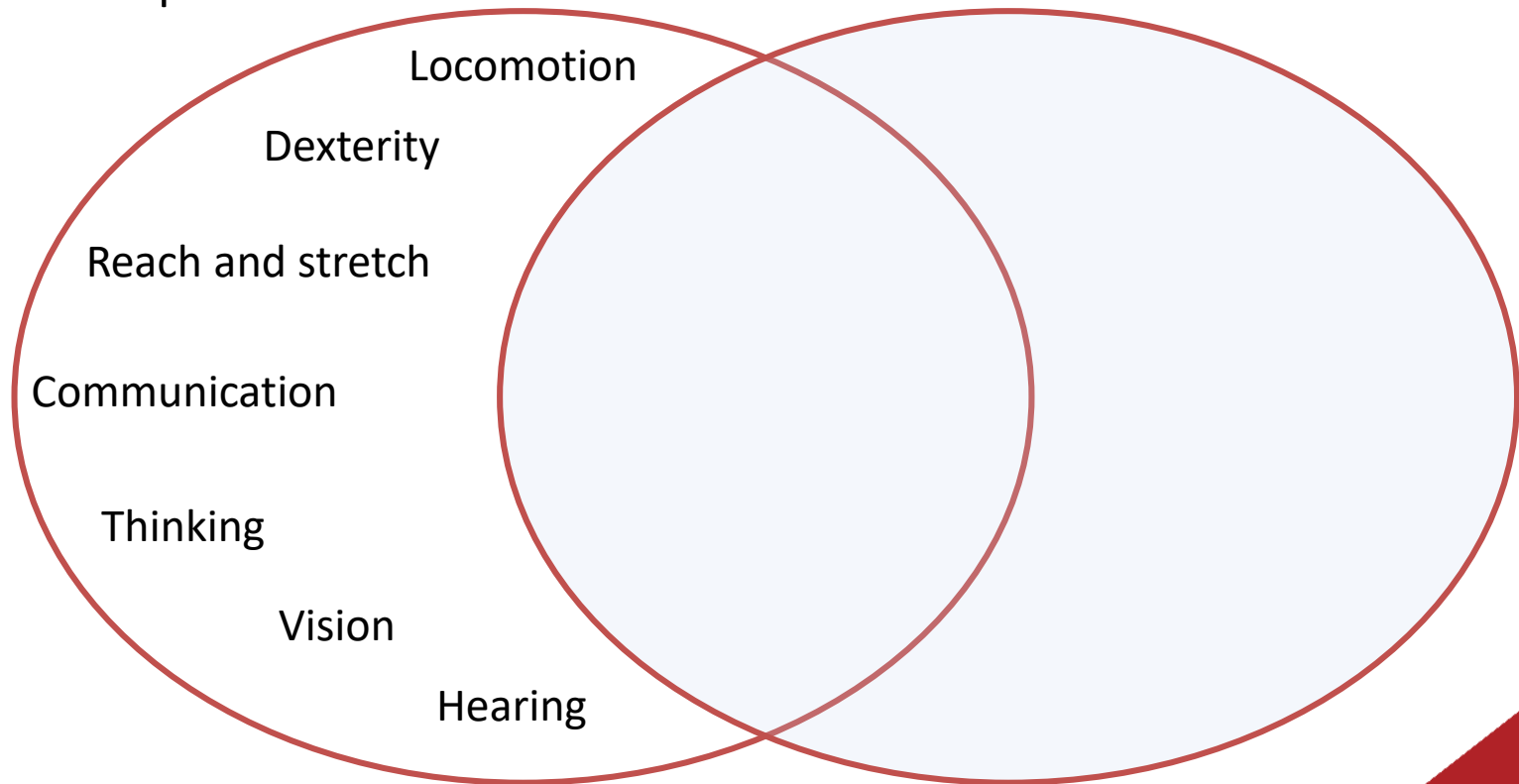
Disability is diverse and can change over time





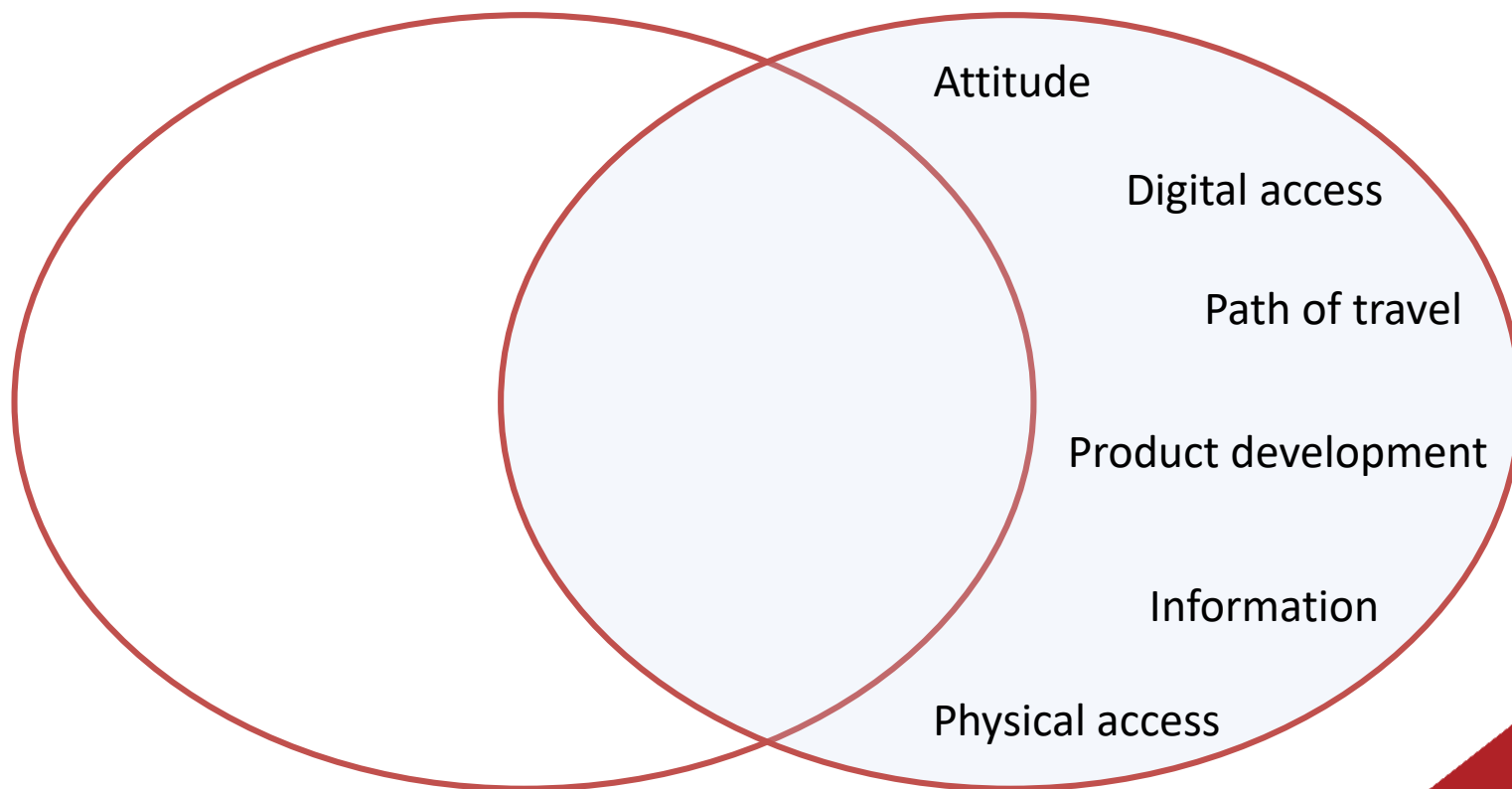
Medical Model

Medical Condition or
Impairment



Social Model

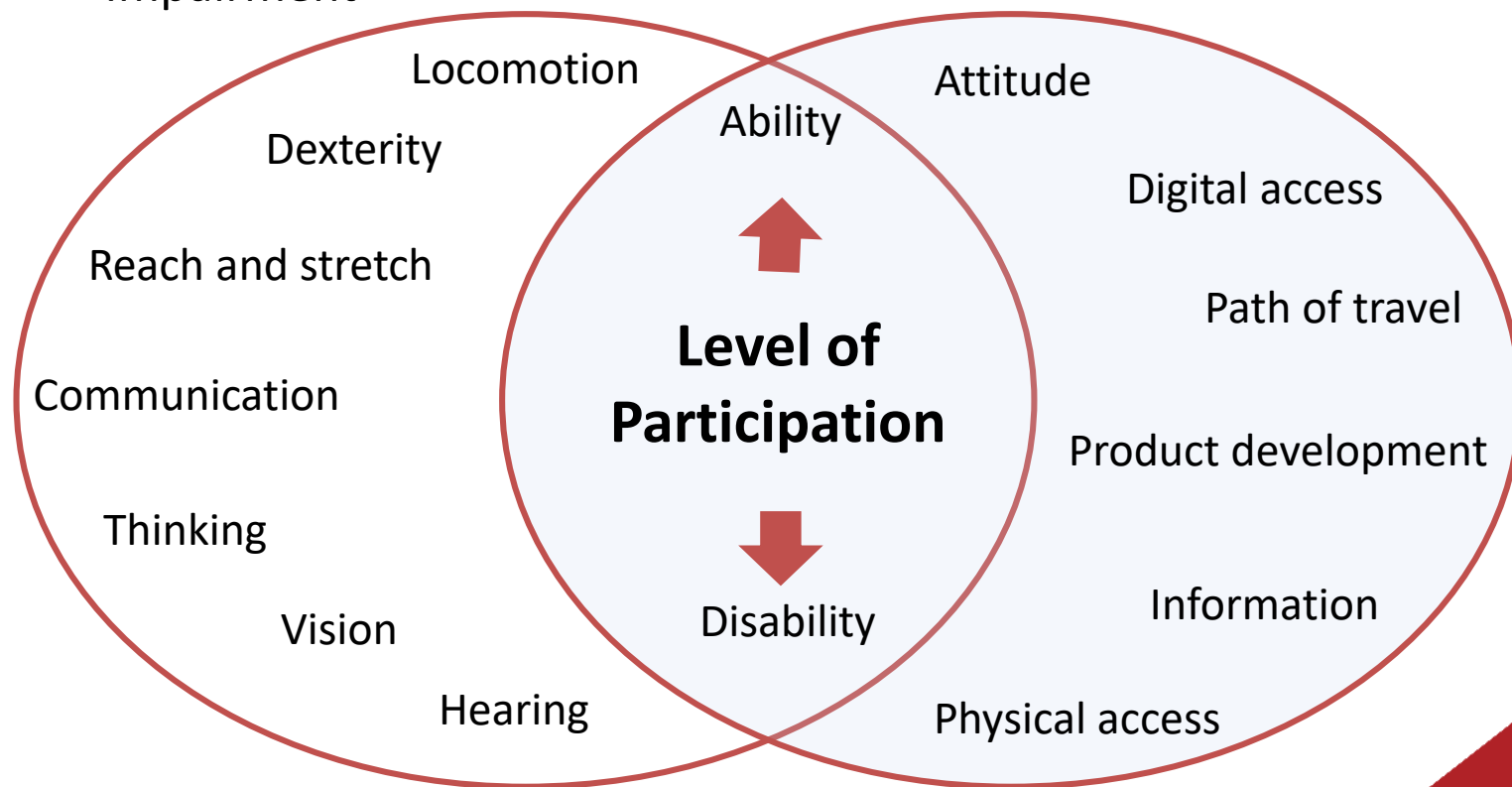
Potential Barriers



Participation

Medical Condition or
Impairment

Potential Barriers



Definition

*“Persons with disabilities include those who have **long term** physical, mental, intellectual or sensory **impairments** which, in **interaction with various barriers**, may hinder their full and effective **participation in society on an equal basis with others**”*

United Nations Convention on the Rights of Persons with Disabilities



EQUALITY VERSUS EQUITY





AUSTRALIAN NETWORK
ON DISABILITY



HELP US

#HACK4GOOD



SHARE YOUR IDEAS
FOR YOUR CHANCE TO WIN



Technology's role in accessing goods and services

How can a person who can not read be sure they have received the right change when out shopping?

How can printed information, such as menus and product information, be easily accessed in alternate formats, such as braille or audio?

Technology's role in accessing goods and services

Example:


- Liz's son has intellectual disability and can't read or write. She would like access to a piece of technology that helps him independently make purchases – technology to count change so he isn't short-changed
- Tanh and Vanessa are both completely blind. They would like to be able to quickly access printed materials, especially menus
- Erika is blind and would like to be able to 'read' everyday objects, such as home appliances, taxi-metres, bus stop signs and printers. She would also like to be able to immediately find out where she is, the size and shape of a room, and distinguish colour

Technology's role in Communication

How can a person without use of their hands use their computer and smart phone?

How can a person with hearing impairment make and receive calls on their smart phone?

How can a smart phone provide tailored audio information that reassures and prompts individuals with day to day tasks



Technology's role in Communication

Example:

- Rebecca has physical disability that inhibits use of her hands. She would like to be able to access her computer hands-free.
- Tania has physical disability and would like to be able to use her smart phone completely hands-free.
- Andrew finds it difficult to 'reading' peoples' emotions, he often thinks someone is growling at him or telling him off, when they are only trying to be kind and help.
- Nina has a hearing impairment and would like access to an app that transcribes incoming and outgoing calls in real-time, preferably not relying on internet access or a third party provider.
- Liz's son could benefit from receiving personal cues via his smartphone, for example, audio prompt with the time and reassuring comments about how long before he has to leave/get ready etc

Technology's role in Travel

How can important signs in our community, such as street signs, be accessed from our smart phone?

How can someone immediately find out which trains, buses and train stations are accessible?

Technology's role in Travel

Example:

- Gayle's father, who has dyslexia, has trouble reading wayfinding signs from a distance. She would like an easy, affordable, preferably audio-based solution.
- Lucinda is a wheelchair-user and would like an app that immediately tells her what station, trains and buses are wheelchair accessible.

Technology's role in Education

How can a single piece of technology help a person with multiple accessibility requirements participate at University?

Technology's role in Education

Example:

- Anastasia has an acquired brain injury that affects her energy levels, concentration, hearing and vision. She would like access to technology that helps her hear lectures, take notes, improve focus, enlarge print, record information and set reminders.

Technology's role in Employment

How can a person find employment based on role requirements of common job communities?

How can transcribing options distinguish different voices in meetings and conference settings?

Technology's role in Employment

Example:

- There are many common job communities with similar essential requirements for the role. Often job descriptions are not based on attributes of the role, such as requirements for stretch, lifting, communication or periods of standing. It could support job seekers with disability to be able to job search in this way
- Nina would also like access to an app that transcribes recordings in real-time that can distinguish different voices, particularly for meetings and conferences.