

## Measuring outcomes and comparative value in the NDIS

Dr Andy Goodall

Director Targeted Research and Strategic Evaluation

MUCHE Seminar - March 2023





I would like to acknowledge the Traditional Owners and Custodians of the Country on which we meet today, the Gadigal people of the Eora Nation, and their continuing connection to land, sea, and community. I pay my respects to their Elders, past present and emerging.

I would like to extend that acknowledgement and respect to any First Nations peoples here today."

#### What I will talk about today



- 1. An overview of the NDIA's Research and Evaluation Branch.
- 2. How the NDIA measures outcomes for NDIS participants.
- 3. Developing new ways to analyse and report NDIS participant outcomes.
- 4. Development of a disability wellbeing index.
- 5. Working collaboratively on future NDIA research priorities.

#### The Research and Evaluation Branch



#### The Research and Evaluation Branch

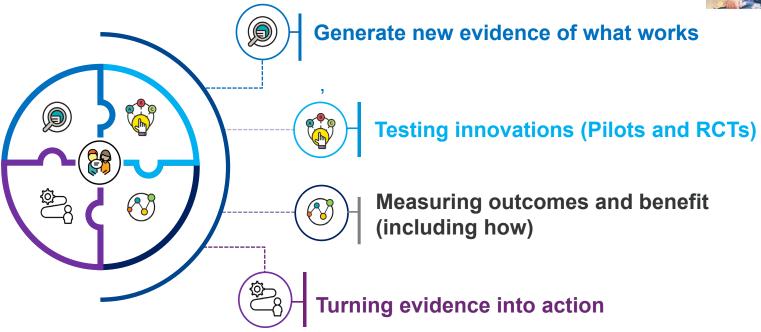
- Undertaking research and building an evidence base is contained within the NDIS Act 2013 and is integral to the insurance approach that underpins the NDIS (Insurance Principle 3).
- The Research & Evaluation Branch was established in 2019 with responsibility for ensuring that NDIA policies, practices and priorities are informed by trustworthy and robust evidence.
- Currently operating under a 5-year strategy.



NDIA Research and Evaluation Strategy

ndis





## The Research and Evaluation Strategy 2022-2027



Four major streams of work

- Information gathering for access and planning
- 2) Early Intervention and high volume cohorts
- 3) Home and living
- 4) Markets and employment

Available on our website:

Research and Evaluation Strategy | NDIS

#### ndis

NDIA Research and Evaluation Strategy

2022-2027



#### What we do



#### Data analytics and outcome measurement

Use administrative data (NDIA and other government and external sources) to understand measure and monitor outcomes, benefits and costs of the NDIS on participant and Scheme outcomes.

#### Qualitative research

Collect and analyse nonnumerical data (from participants, providers, service delivery staff) through in-depth interviews or focus groups to hear the unique stories, experiences and voices of people.

#### Synthesis and meta-analysis

Find, appraise, synthesise and communicate the best available existing evidence in a systematic way, to inform NDIA decisions. This includes systematic reviews and meta-analyses.

#### Quantitative research

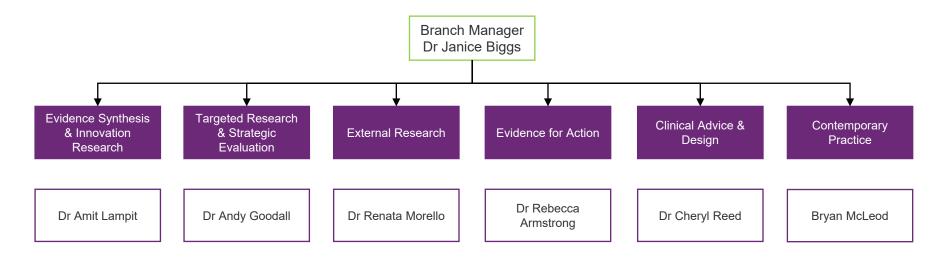
Collect and analyse numerical data to find patterns and averages, make predictions, test causal relationships, and generalise results to wider populations.

+ capacity building in research and evaluation methods& R&E governance across the Agency

#### Who we are



~ 27 FTE aligned to our main approaches



- Multidisciplinary mix of ex academic, public sector, commercial and clinical R&E experts.
- Currently working on 12 research and evaluation projects
- Partnering on 3 x tier 1 grants
- Involved in 17 external research projects (access to data, staff & NDIS participants)

## Measuring NDIS participant outcomes



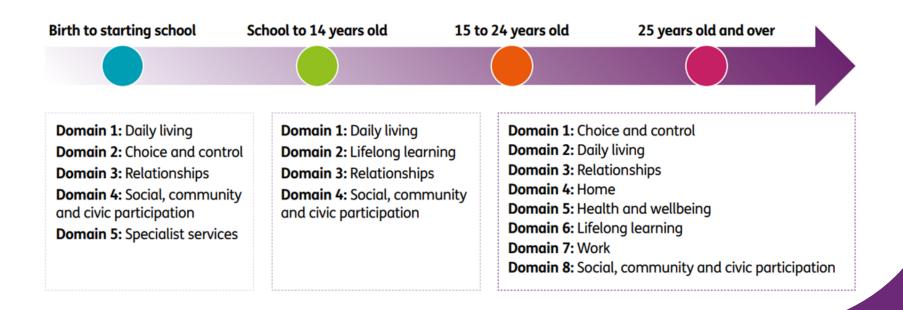
#### **Outcome measurement in the NDIS**



Since 2016, the NDIA has used a participant outcomes framework to take a long term view of the impacts of the NDIS on participants across **8 domains**.

The NDIA operationalises the outcomes framework through two surveys:

- 1) A short form questionnaire administered to all participants or their supporters during the NDIS planning and plan review process (>30 indicators).
- 2) A long form questionnaire administered annually to a longitudinal sample of participants (~50 indicators)



#### **Outcome reporting**



Participants aged 25 and over

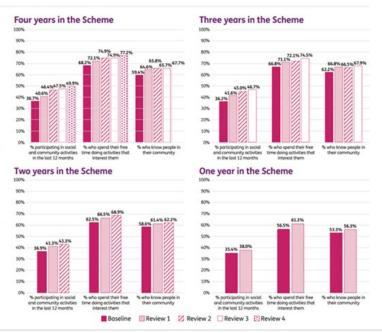
#### Social and community participation

Social and community participation outcomes have improved over time across all cohorts.

Actively involved in a community, cultural or religious group in the last 12 months – for participants in the Scheme for four years, the percentage increased by 13.2 percentage points between baseline and fourth review.

Spending free time on activities that interest them – a 9.0 percentage-point increase between baseline and fourth review for participants in the Scheme for four years.

Knowing people in their community – For participants who have been in the Scheme for four years, the percentage increased by 8.3 percentage points between baseline and fourth review.







https://data.ndis.gov.au/reports-and-analyses/outcomes-and-goals

- A strength of the outcomes framework is that it is comprehensive across areas that are important for people with disability and government.
- ...but the complexity is a limitation for evaluating NDIS effectiveness and making investment decisions.



How can we reduce this complexity?

# Measuring outcomes for participants with a psychosocial disability using latent transition analysis and growth mixture modelling

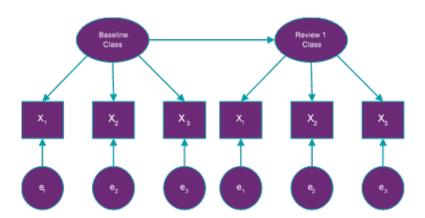
Dr Geoff Hammond



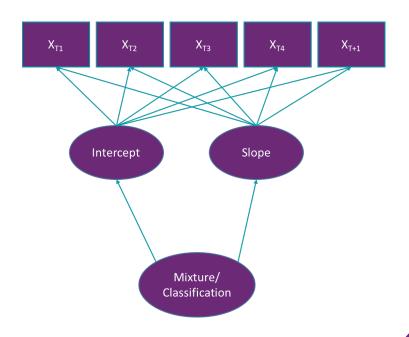
#### LTA and GMM approaches

ndis

- LTA identifies distinct (but unobservable) classes of individuals based on categorical or ordinal data about them (i.e. Xn) and then characterises transitions between classes over time.
- In our case, classes are based on the likelihood of participants giving certain responses to items in the NDIS short form outcomes questionnaire.



- GMM identifies cohorts of participants based on similarities in their longitudinal trajectories on a measure.
- In our case, trajectories are identified based on repeat WHODAS scores.



#### **Example LTA solution (15-24 year age group)**



Domain	Question	Response	Class 1 (29.5%)	Class 2 (25.0%)	Class 3 (21.0%)	Class 4 (24.4%)
Choice & Control	Who makes most decisions in your life?	l do	0.92	0.27^	0.04^	0.79
Choice & Control	Who makes most decisions in your life?	My family	0.06	0.33*	0.86*	0.14
Choice & Control	Have you ever participated in a self- advocacy group meeting, conference, or event?	Yes	0.07	0.02	0.04	0.12
Health & Wellbeing	Hospitalisation in the last 12 months?	Three or more	0.13	0.40*	0.11	0.13
Health & Wellbeing	Do you feel safe getting out and about in your community?	Yes	0.69	0.91*	0.81	0.43
Lifelong Learning	Do you currently participate in education, training or skill development?	Yes	0.77	0.87	0.60	0.68
Relationships	Are you happy with how often you see your family?	Yes	Yes <b>0.60</b>		0.73	0.67
Relationships	Are you happy with how often you see your family?	No, see them more	0.27	0.61*	0.26	0.26
Home	How do you feel in your home?	Very safe/Safe	0.69	0.30^	0.85	0.80
Home	How do you feel in your home?	Unsafe/ Very unsafe	0.09	0.37*	0.07	0.10
Social Community and Civic Participation	Do you spend time doing activities that interest you?	Yes	0.44	0.71*	0.31	0.19
Social Community and Civic Participation	Do you know people in your community?	Yes	0.93	0.71^	0.55^	0.01^
Social Community and Civic Participation	How often do you have a say in services provided to you?	All/Most of the time	0.58	0.12^	0.21^	0.63
Social Community and Civic Participation	How often do you have a say in services provided to you?	Some of the time	0.30	0.48	0.47	0.30



#### Class 1 are:

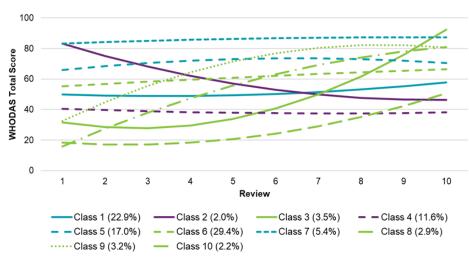
- Most likely to make decisions for themselves, know people in their community.
- Likely to participate in education and training.
- Likely to feel safe at home and in the community

...but class ordering is subjective.
Which outcomes are *most important* to NDIS participants?

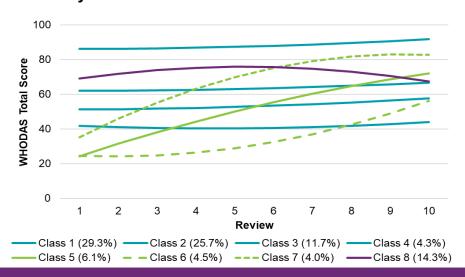
#### **GMM** trajectories are more objective



#### 15 to 24 years



#### 25 to 34 years

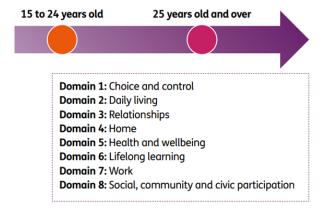


- Clearly some trajectories are better than others based on whether WHODAS scores decrease (i.e. function improves), increase (i.e. function deteriorates) or stay the same (i.e. function is maintained).
- WHODAS is also a widely used and validated measure of disability for people with a psychosocial disability (agnostic of assistive technology).

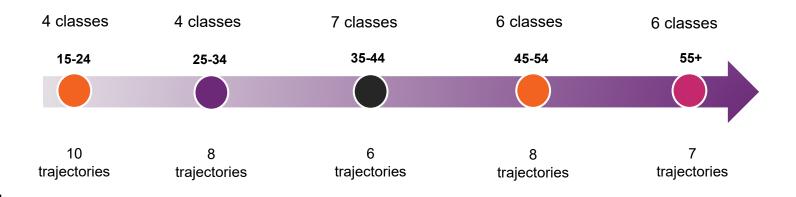
## Optimal LTA & GMM solutions show greater life course heterogeneity than the NDIS outcomes framework conceptualises



NDIS outcomes framework



#### **LTA**



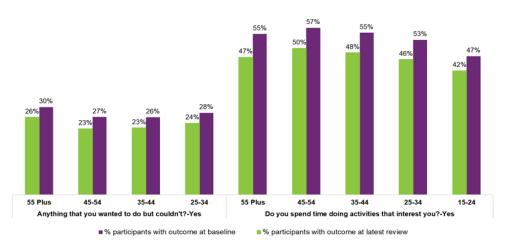
**GMM** 

### LTA and GMM improve the sensitivity and interoperability of outcome measurement



- A challenge with the NDIS outcome framework is that many items use binary scales and have low sensitivity to change (floor/ceiling effects).
- The NDIA reports longitudinal change in each individual indicator typically we see a 5-8% change over time for participants with a PSD (generally backwards).
- But some outcomes improve and some deteriorate...so how do we know if the lives
  of NDIS participants are getting better overall?

#### Participants with a psychosocial disability (25+ years)



Short form outcomes questionnaire responses

	LTA	GMM
% move into a <u>more</u> favourable class/trajectory	5.0%	16.2%
% maintain class/trajectory	89.2%	52.2%
% move into a <u>less</u> favourable class/trajectory	5.8%	31.6%

GMM is attractive but different disability cohorts complete different assessment tools.

## Can we predict trajectories to maximise the benefit of NDIS packages?



- The association between NDIS expenditure and the likelihood of attaining single outcomes typically range from 0 to +/-2% per \$1,000 per annum.
- Which outcomes are more important? Which funding mix maximises benefit?

ME of \$1,000 NDIS expenditure per annum on likelihood of class/trajectory transition (25+ years)

	Core	Capacity building
LTA		
Improvement	0%	-7.1%
Deterioration	-0.3%	+3.6%
GMM		
Improvement	+1.6%	-0.5%
Deterioration	+5.5%	+3.8%

- Clinical diagnosis, remoteness and age are all associated with the likelihood of improvement or deterioration.
- Interactions with expenditure? Life-stage specific NDIS packages?

## Development of a disability wellbeing index







Centre for Health Economics



Centre for Disability Research and Policy

Professor Emerita Gwynnyth Llewellyn Dr Kym Bulkeley



A/Professor Gang Chen



Professor Dennis Petrie



**Professor Anthony Harris** 



Caring Futures Institute
Professor Julie Ratcliffe

#### Why does the NDIS need a wellbeing index?



NDIS participant costs in 2021-22 were \$29.2 bn and projected to be \$59.3 bn in 2029-30.

The current NDIS outcomes framework does not support equitable assessment of NDIS impacts and resource allocation:

- It **is complex** >30 outcomes in the adult questionnaires
- The items have different scales and cannot be aggregated into reliable and valid measures
- Many items exhibit floor or ceiling effects
- Some 'outcomes' are **not actually outcomes** that are realistic for NDIS participants (e.g. need for the NDIS in various aspects of function)
- All items and domains are weighted equally for all participants invalid assumption.



In 2017, a paper to the NDIA Executive recommended developing a validated summary wellbeing measure and weighting to assist the NDIA assess the comparative value for money of supportive technologies and services.

#### **Project overview**



**Aim:** Develop a composite preference-weighted index of wellbeing for people with disability to support priority setting in the NDIS and disability sector (15-24 years and 25+ years).

Must be capable of quantifying the holistic change in a person with disability's life from improved access to supports in a way that is comparable across the range of available supports and disability cohorts.



1. Develop the wellbeing classification system



2. Valuation study



- 3. Implementation, testing
- & refinement

- Analysis of NDIS data.
- Lit review & review of other wellbeing classification systems
- Disability sector consultation
- Consultation with PWD
- Online validation survey (PWD)

- Discrete choice experiment (PWD and general public)
- Develop item weights (cohort and the individual?)
- Embed as part of routine NDIS data collection and priority setting
- Testing & tailoring for priority cohorts (e.g. First Nations, CALD, LGBTIQA+)
- Refine as volume of data grows
- Children?

2021-23

2023

2024+

#### Principles for wellbeing domains and items

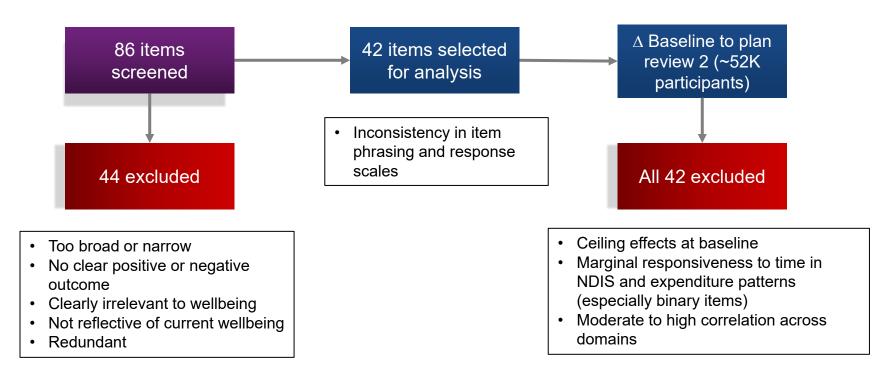


- Reflective of outcomes that are important to people with different types of disabilities, different levels of functional capacity, and reside in different regions across Australia.
- 2. Representative of domains that are public policy relevant (i.e. Australia's Disability Strategy and NDIS Outcomes Framework).
- 3. Easy to understand.
- 4. Brief and practical to collect and report over time.
- 5. Psychometrically valid and reliable.
- 6. Responsive to wellbeing differences between individuals and the services and supports they receive.

## Step 1: Identify existing NDIS outcomes framework items that are appropriate for the DWI



**Rationale:** Items are already collected from all participants (approximately annually) and would allow retrospective evaluation.



In practice, the NDIS outcome questionnaires are unlikely to be able to detect meaningful differences in important aspects of NDIS participants' wellbeing.

#### Step 2: Review other wellbeing classification systems



Australia's Disability Strategy 2021 - 2031

**Rationale:** To identify potentially relevant domains, preliminary items and response options to refine with people with disability and stakeholders.

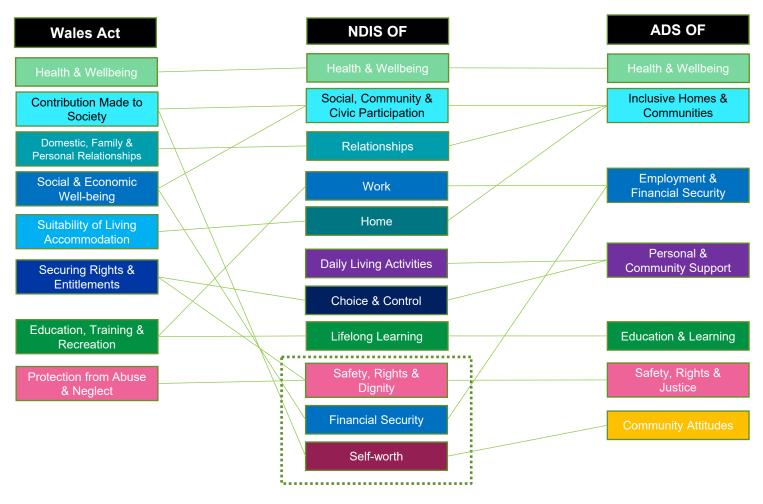
The starting point was **Australia's Disability Strategy** and the **NDIS Outcomes Framework** (considerable overlap)



- NZ Disability Strategy
- Social Services and Well-being Act (Wales)
- · Canadian Index of Wellbeing
- Irish Outcomes for Disability Services
- US National Core Indicators
- Adult Social Care Outcomes Toolkit
- EQ-HWB-S
- SF-6Dv2
- PROMIS-Preference (PROPr)
- PWI-ID
- QLI
- Brunnsviken Brief Quality of life scale
- EUROHIS-QoL-8

#### **Example domain mapping**

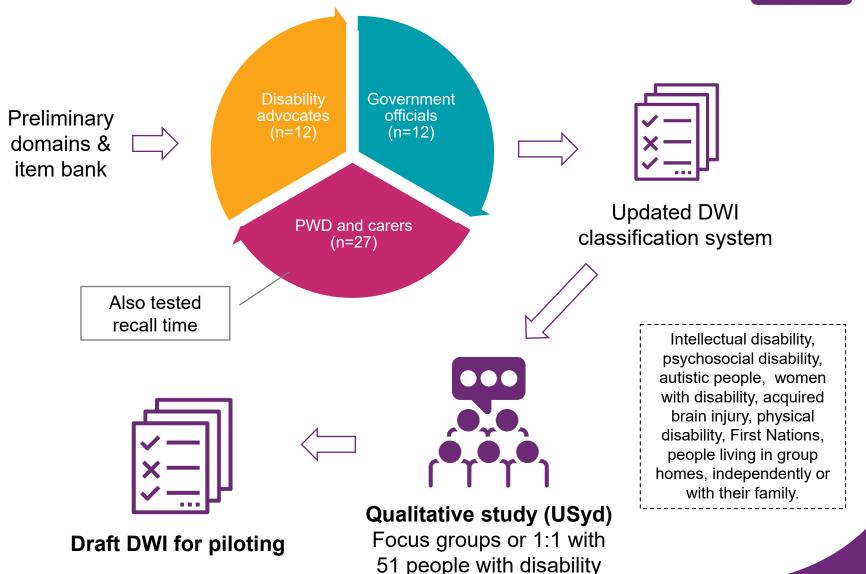




The domains of the ADS and NDIS outcomes frameworks are largely consistent with other relevant frameworks and wellbeing instruments with a few additions.

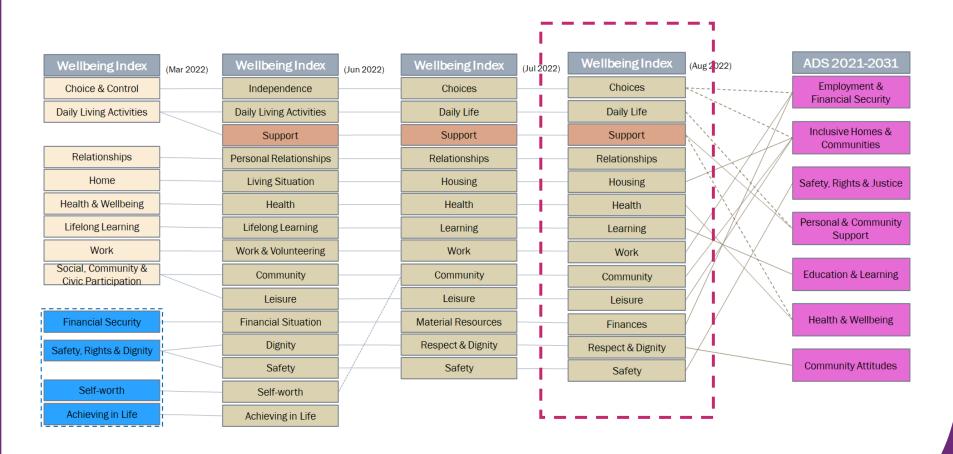
#### Step 3: Consultation and co-design





#### Wellbeing domain evolution





## Example feedback on items from people with disability

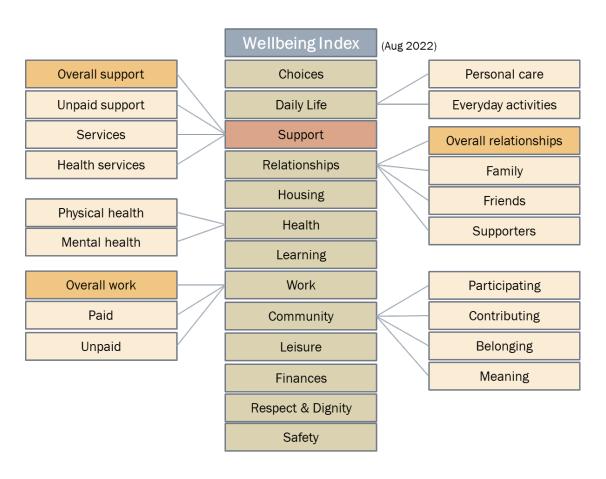


(Example – potential items in the 'Choice' domain)

- •Are the meaning and wordings of the proposed items clear and easy to understand?
- Which item(s) within each domain would you prefer?
- (#1) I feel in control of my life.
  - ('Control of life' means having the choice to do things or have things done for you as you like and when you want).
- (#2) I make my own choices about my day-to-day life (e.g. where to go, what to do, what to eat).
- (#3) "I have choices about what I do each day (e.g., where I go, what I do)." ✓
- (#4) I make decisions about my life.✓

#### **Draft DWI structure for pilot survey validation**





- 35 items (slight variation in some of the items for 25+ and 15-24 year olds).
- The items were piloted in an online survey with 28 NDIS participants and 13 sector reps for final item refinement and selection of response option.





#### Feedback on response options



Option 1 Never, Rarely, Sometimes, Mostly, Always

#### Option 2 None of the time, A little bit, Sometimes, Most of the time, All the time

Option 3 Not at all, A little, Moderately, Mostly, Completely

#### Which response option do you prefer for each life aspect?

Life Aspect	Option 1	Option2	Option3	None above
	%	%	%	%
Relationship	7.1	92.9	0.0	0.0
Daily Life	14.3	78.6	7.1	0.0
Community	7.1	78.6	7.1	7.1
Free Time	7.1	85.7	0.0	7.1
Health	7.1	78.6	7.1	7.1
Housing	14.3	64.3	14.3	7.1
Work	7.1	78.6	0.0	14.3
Learning	7.1	78.6	7.1	7.1
Respect and Dignity	7.1	85.7	0.0	7.1
Choices	7.1	85.7	0.0	7.1
Safety	7.1	85.7	0.0	7.1
Finances	14.3	71.4	7.1	7.1
Support	7.1	85.7	0.0	7.1

## **Step 4: Validation and psychometric analysis** (online survey incl. Easy Read)





- ~18,000 NDIS
   participants or their
   nominees aged 25+
- ~11,000 aged 15-24

(oversampled rarer disabilities and rural and remote)

 People with disability aged 18+ (non-NDIS participants) (via an online panel)



1,245 respondents representing participants aged 25+

397 respondents representing participants aged 15-24

501 respondents (all self-report)

- How difficult it was to answer each item.
- The importance of each life aspect to overall wellbeing.



- Satisfaction with Life Scale.
- Overall assessment of life.
- Personal Wellbeing Index.
- Demographic information including the respondent's disabilities and the impacts on their life.

(~70% proxy report but a good mix of disability types, ages and geography represented)

#### **Exploratory factor analysis (adults 25+)**

Dimensions	Items	F1	F2	F3	F4	F5	F6	F7
Relationship	Overall Relationships	0.803*	0.023	0.089	0.005	0.052	-0.053	0.014
Relationship	Friendships	0.687*	0.119*	0.011	-0.039	0.040	0.045	0.045
Relationship	Family	0.649*	0.085	0.032	0.175*	0.044	-0.151*	-0.098*
Relationship	Intimate Opportunity	0.397*	0.080	-0.090	0.083	-0.047	0.321*	0.006
Health	Physical Health	-0.021	0.899*	0.024	0.007	-0.088	-0.411*	-0.021
Health	Mental Health	0.270*	0.569*	-0.001	0.002	0.023	-0.229*	0.083*
Health	Pain Management	-0.026	0.666*	-0.012	0.101*	0.139*	-0.356*	0.033
Community	Participating	0.077	0.709*	0.064	-0.097*	0.068	0.043	0.018
Community	Important Things	0.129*	0.675*	0.092	-0.029	0.002	0.093*	0.055
Daily Life	Personal Care	0.007	0.589*	-0.145*	0.201*	0.085	0.005	0.035
Daily Life	<b>Everyday Activities</b>	0.024	0.682*	-0.070	0.087*	0.039	0.021	0.078
Leisure Time	Leisure	0.046	0.651*	0.079	0.022	0.006	0.024	0.079*
Finances	Enough Money	-0.074	0.329*	0.106	0.203*	0.305*	-0.019	-0.027
Choices	Control	-0.063	0.239*	0.011	0.089	0.066	0.593*	0.129*
Finances	Control Money	-0.083	0.154	-0.019	0.158*	0.214*	0.514*	0.007
Respect & Dignity	Speak Up	0.087	-0.032	0.023	-0.034	0.308*	0.507*	0.091
Learning	New Things	0.033	0.379*	0.292*	0.018	-0.047	0.432*	-0.056
Learning	<b>Education Opportunity</b>	0.011	0.438*	0.379*	-0.028	-0.001	0.454*	-0.144*
Support	Support	0.096*	0.198*	-0.062	0.202*	0.429*	0.031	0.081
Respect & Dignity	Overall Treatment	0.148*	-0.013	0.085	0.032	0.700*	-0.030	0.019
Respect & Dignity	Community	0.068	0.008	0.016	-0.076	0.840*	0.008	0.030
Respect & Dignity	Service	-0.009	0.054	-0.015	0.098	0.821*	-0.036	-0.124*
Community	Belonging	0.185*	0.370*	0.105*	-0.173*	0.389*	0.111*	0.010
Relationship	Support Team	0.376*	-0.033	0.007	0.146*	0.382*	0.050	0.030
Work	Overall Work	0.022	0.034	0.891*	0.016	0.040	-0.005	0.057
Work	Paid Work	-0.054	-0.062	0.959*	0.031	0.062	-0.049	0.115
Work	Unpaid Activities	0.076	0.172*	0.571*	0.063	0.040	0.045	0.046
Work	Career Opportunity	0.072	0.134	0.715*	0.005	-0.045	0.134*	0.002
Housing	Overall Living	0.004	0.083	0.185*	0.794*	0.052	-0.010	0.021
Housing	Where I Live	0.013	0.059	0.246*	0.813*	0.017	-0.025	-0.003
Housing	Who I Live With	0.266*	-0.070	0.054	0.685*	-0.082	0.209*	0.000
Respect & Dignity	Home	0.309*	-0.022	-0.049	0.419*	0.170*	0.124*	0.119*
Safety	Overall Safety	0.082*	-0.002	0.021	0.127	0.034	0.038	0.849*
·						-0.040	-0.023	0.629*
Safety	Home	0.037	0.124*	0.003	0.309*	-0.040	-0.023	0.023



#### Final item inclusion considered:

- Ceiling/floor effects (>40%)
- % NA/missing/unsure (>40%)
- Respondent rating of importance (>50% extremely/very important)
- Correlation with overall QoL rating (>0.3)
- Within factor explained variation on SWLS and PWI (lowest within each factor)
- Re-test reliability (>40% agreement & ICC >0.5)
- IRT (response disorder, poor fit)

Then (qualitative considerations):

- DWI domain coverage
- Concept overlap/parsimony
- Policy relevance
- Outcome profiling

#### **Summary item performance by latent factor**

				S	ummary	of DWI item	n performa	nce by lat	ent factor	rs (Adults)						ndis	
		Baseline	Baseline Re-test reliability									liability*	Item Resp	ry (IRT)	Include		
# DWI DOMAINS	DWI ITEMS	% All the time	% None of the time	%N.A.	% N.A., Unsure; Missing	% Extremely/ Very important	% Not important	Correlati on with QOL	% Explained variation of SWLS5		% Explained variation of QOL		ICC <sub>p</sub>	Response disorder?		OUTFIT	
FACTOR 1 - RELATIONSHIP									0.231	0.221	0.214						
D11 Relationship	Overall Relationships	16.5%	1.1%	1.2%	9.0%	72.0%	2.8%	0.35	0.067	0.066	0.054	0.57	0.57	No	0.811	0.837	
D13 Relationship	Friendships	15.2%	4.4%	7.6%	18.2%	58.3%	6.6%	0.39	0.105	0.096	0.090	0.56	0.78	No	1.157	1.214	1
D12 Relationship	Family	30.5%	1.8%	1.8%	9.9%	80.1%	3.9%	0.31	0.032	0.033	0.045	0.65	0.70	No	0.822	0.845	1
D14 Relationship	Intimate Opportunity	8.0%	33.5%	22.3%	34.5%	28.8%	39.9%	0.23	0.027	0.027	0.025	0.66	0.82	Yes	1.152	1.560	
FACTOR 2 - HEALTH & ACTIV									0.478	0.492	0.491						
D51 Health	Physical Health	7.0%	16.9%	1.9%	11.9%	69.5%	4.8%	0.55	0.077	0.082	0.092	0.62	0.77	No	1.069	1.057	1
D31 Community	Participating	10.2%	12.4%	4.9%	14.7%	51.6%	11.2%	0.52	0.060	0.058	0.061	0.54	0.71	No	0.923	0.912	
D22 Daily Life	Everyday Activities	13.1%	3.3%	4.6%	14.0%	67.4%	4.3%	0.47	0.037	0.038	0.042	0.53	0.61	No	0.924	0.903	1
D33 Community	Important Things	13.2%	3.3%	1.9%	12.4%	75.4%	3.9%	0.53	0.086	0.087	0.067	0.58	0.68	No	0.777	0.767	1
D53 Health	Pain Management	11.1%	7.8%	18.2%	28.9%	69.3%	10.9%	0.47	0.031	0.035	0.035	0.55	0.72	No	1.062	1.075	
D41 Leisure Time	Leisure	10.3%	4.5%	2.7%	11.0%	70.5%	3.7%	0.53	0.074	0.075	0.071	0.58	0.53	No	0.856	0.853	
D21 Daily Life	Personal Care	27.1%	1.8%	2.0%	10.9%	77.8%	2.2%	0.38	0.026	0.028	0.027	0.68	0.62	No	1.072	1.047	1
D52 Health	Mental Health	8.0%	11.2%	3.3%	16.2%	72.4%	4.9%	0.51	0.051	0.055	0.054	0.60	0.71	No	1.010	0.996	1
D121 Finances	Enough Money	25.2%	6.0%	3.2%	11.7%	77.4%	5.0%	0.43	0.037	0.034	0.043	0.64	0.83	No	1.258	1.433	1
FACTOR 3 - WORK	,								0.188	0.184	0.142					_	
D72 Work	Paid Work	5.7%	4.3%	65.4%	73.7%	28.9%	55.6%	0.51	0.034	0.032	0.026	0.59	0.79	No	0.757	0.756	
D71 Work	Overall Work	8.0%	5.1%	51.3%	59.4%	36.5%	43.4%	0.48	0.073	0.070	0.055	0.66	0.86	No	0.651	0.618	
D74 Work	Career Opportunity	3.8%	11.3%	59.0%	69.9%	28.3%	54.3%	0.49	0.052	0.050	0.031	0.66	0.84	No	1.202	1.493	
D73 Work	Unpaid Activities	6.8%	3.9%	52.0%	61.4%	28.6%	45.0%	0.41	0.030	0.032	0.030	0.55	0.77	No	1.239	1.286	
FACTOR 4 - HOME									0.238	0.238	0.221						
D62 Housing	Where I Live	43.9%	4.1%	0.8%	9.0%	86.5%	1.8%	0.38	0.066	0.069	0.064	0.70	0.82	No	0.746	0.709	
D61 Housing	Overall Living	38.2%	3.9%	0.7%	8.6%	87.8%	1.8%	0.41	0.097	0.095	0.087	0.64	0.72	No	0.706	0.699	1
D63 Housing	Who I Live With	40.6%	2.9%	10.0%	17.8%	84.4%	5.0%	0.24	0.034	0.031	0.022	0.67	0.79	No	1.007	0.951	
D92 Respect & Dignity	Home	32.8%	0.9%	3.8%	13.0%	89.2%	2.0%	0.31	0.041	0.042	0.048	0.68	0.70	No	1.512	1.480	
FACTOR 5 - RESPECT & SUP				-					0.306	0.300	0.294						
D93 Respect & Dignity	Community	8.8%	1.8%	2.2%	11.7%	76.2%	2.8%	0.36	0.034	0.034	0.040	0.60	0.59	No	0.813	0.773	
D94 Respect & Dignity	Service	14.7%	2.0%	3.1%	12.4%	85.6%	1.6%	0.32	0.024	0.022	0.032	0.55	0.44	No	0.952	0.937	
D91 Respect & Dignity	Overall Treatment	10.5%	1.5%	1.2%	10.4%	84.4%	1.8%	0.37	0.055	0.051	0.041	0.63	0.52	No	0.846	0.815	1
D131 Support	Support	19.0%	2.9%	2.4%	11.8%	82.7%	3.3%	0.35	0.055	0.051	0.046	0.58	0.64	No	1.134	1.163	
D32 Community	Belonging	10.5%	7.2%	5.4%	17.1%	53.9%	10.2%	0.47	0.095	0.099	0.103	0.48	0.73	No	1.091	1.113	
D15 Relationship	Support Team	19.9%	0.6%	2.4%	10.9%	76.4%	2.0%	0.31	0.044	0.042	0.032	0.64	0.52	No	1.120	1.109	1
ACTOR 6 - CHOICES									0.203	0.205	0.220						
0101 Choices	Control	14.9%	8.3%	3.4%	12.2%	73.0%	6.5%	0.31	0.048	0.046	0.054	0.55	0.70	No	0.839	0.825	
0122 Finances	Control Money	26.5%	8.6%	9.4%	17.8%	64.4%	11.3%	0.23	0.013	0.011	0.018	0.61	0.67	Yes	1.101	1.103	
95 Respect & Dignity	Speak Up	14.9%	7.8%	7.8%	17.5%	76.7%	7.4%	0.22	0.015	0.019	0.018	0.54	0.73	No	1.156	1.168	
082 Learning	Education Opportunity	6.9%	10.9%	37.9%	49.7%	28.3%	40.8%	0.45	0.065	0.059	0.056	0.35	0.66	Yes	0.925	0.896	
081 Learning	New Things	11.2%	6.7%	8.1%	18.6%	45.3%	13.9%	0.38	0.061	0.069	0.074	0.46	0.53	No	0.916	0.897	1
ACTOR 7 - SAFETY									0.232	0.234	0.251						
111 Safety	Overall Safety	28.0%	1.8%	1.0%	10.3%	89.6%	1.8%	0.46	0.090	0.091	0.100	0.58	0.65	No	0.636	0.632	1
112 Safety	Home	46.3%	1.3%	1.4%	10.0%	92.1%	1.8%	0.39	0.071	0.074	0.074	0.72	0.74	No	1.077	0.905	
113 Safety	Community	14.7%	2.6%	1.3%	10.7%	85.7%	1.6%	0.41	0.070	0.069	0.077	0.65	0.74	No	1.174	1.456	

#### **DWI** mapping ndis DWI (adult) (13 - item) **NDIS Outcomes Framework ADS** Get along with family Friendships Relationships Personal, & community support Get along with support workers Personal care **Daily Living Activities** Day-to-day activities Health and wellbeing Choice and control Doing things that are important Social, comm. & civic participation Inclusive homes & communities Physical health Mental health Health and wellbeing **Education & learning** Living situation Home Safety, rights & justice Feeling safe Learning new things Lifelong learning Community attitudes Treatment by other people Work **Employment & financial security** Enough money to do things

#### **Next steps**





- 1. Final acceptability testing with people with disability and policy makers.
- 2. Valuation study to elicit population and individual preference weights for the items from both people with disability and the general public.
  - Stated preference approach (discrete choice experiment) to elicit population preference weights.
  - Individual preferences will be elicited using either a rating or ranking task (will be determined during piloting).

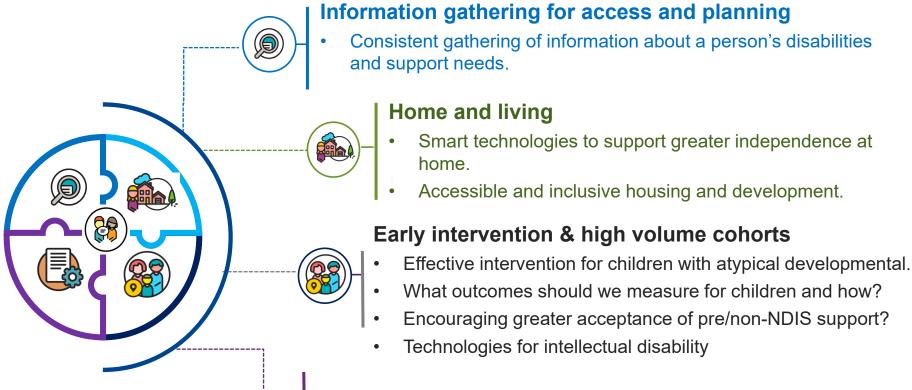
The aim is to trial the final DWI in late 2023 and then systemically incorporate implement in 2024-25.

## Working collaboratively on future NDIA research priorities



#### Future priorities to transform the NDIS





#### **Markets and employment**

- Cost effectiveness threshold for resource prioritisation.
- Further development of the DWI and outcome measurement for intersectionality groups (First Nations, CALD, LGBTIQA+).
- Tele-enabled NDIS services.
- Alternative commissioning models.

#### How we support researchers



We help researchers and the disability sector carry out work that benefits participants and relates to our corporate plan and priorities.

We support researchers through:

- Access to publicly available data
- Access tailored NDIS data (summary or individual-level data)
- Access NDIA staff (employees, contractors, and volunteers) as study subjects in research project team members, steering committee experts, working parties or similar
- Collaboration or partnering with the Agency on research or evaluation

For more information head to our website Research partnerships | NDIS

#### Accessing NDIA publicly available data



- The NDIA has made a large amount of data publicly available.
- Data includes downloadable cubes on participants, providers, plans and budgets.
- This data can be found on our "data and insights" page of our website <u>National</u>
   <u>Disability Insurance Scheme (NDIS)</u>
- Quarterly Reports | NDIS also contain publicly available data and are very useful resources.
- More features are being added all the time, including data visualisation tools which will make it easier to use the data available.
- You can explore this data and also register for notifications for when new data is released.
- Explore data | NDIS is an interactive tool to help you find information you need. The
  data can be filtered or sorted by participant type, reporting period, location or
  support class and category.

#### Thankyou for listening

#### **Questions?**

(andrew.goodall@ndis.gov.au)

