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Hi everyone,

Today I will be telling you about a new way to access the Priority Investment Approach research dataset.

In the first session I will provide a short background on the data that is available and briefly introduce one way of accessing the data using TableBuilder. In the second session I will show you a few ways you can use TableBuilder by working through some examples. The second session is for those of you who are interested in a short demonstration of how to use the dataset. You are welcome to leave after the first session if that doesn't interest you.

The notes from these presentations will be available afterwards on the community grants hub website for your reference, so please don't feel that you need to remember everything!

We think the Tablebuilder tool will be very useful to a wide number of researchers as well as those applying for TTL Fund grants. I hope that this presentation will enable you to make use of this data yourself.

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How might this be relevant to your grant application for the TTL Fund?

The assessment criteria outlined in the Try Test and Learn Fund grant opportunity guidelines encourages you to provide 'evidence'

- provide evidence that the people targeted by your project are at risk of long-term welfare dependence (e.g. evidence may include **Priority Investment Approach data**, research, government reports, empirical evidence, etc.);
- provide evidence of the need for your project among those it would support (e.g. evidence may include **Priority Investment Approach data**, research, government reports, empirical evidence, etc.)

The assessment criteria outlined in the Try Test and Learn Fund grant opportunity guidelines encourages you to provide 'evidence'.

- Both of these examples refer to the Priority Investment Approach data as one source of evidence that you might use. Your evidence is likely to include your own information and data from your experience, however this can be given greater context and supported by the data that is now available to you from the Priority Investment Approach.

So what is the Priority Investment Approach?

The Australian Priority Investment Approach to Welfare (PIA) policy initiative was established as part of the 2015-16 Budget

What is it?

- The Priority Investment Approach, or PIA, uses data analysis to identify groups at risk of long-term welfare dependence and uses insights from the data to find innovative ways to help more Australians live independently, reducing their need for welfare.
- The PIA data includes administrative data collected for the purpose of recording eligibility for benefits, service delivery activities and payments.

What is it?

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The PIA data includes 14 years of information about payment recipients over 56 quarterly snapshots

What is in it?

- The data is a series of quarterly snapshots taken from the July-September 2001 quarter to the April-June 2015 quarter.
- The data contains information about those people who have received one of 21 benefits including Aged Pension, Disability Support Pension, Newstart Allowance and Carer Payment.
- The de-identified information includes demographic and geographical information, as well as information relating to accommodation, primary medical conditions, education and income.
- Demographic variables of the partner are also available for some of the recipients.

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Part of the PIA policy is to provide access to the data to help improve the lives of Australians who are receiving welfare

Where is it?

- In September 2016, Minister Porter announced a plan to allow limited access to PIA data.
- There are three points of access that differ by level of information provided, as well as cost and ease of access.
- For example, those researchers who have a high level of skill and need more detailed information for their research, can apply for access to the secure enclave (SURE).
- For others, TableBuilder provides non-restricted access to less detailed information with free registration

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Three Access Points to PIA

	PIA in SURE	TableBuilder	Synthetic Data
Accessibility	Applications are considered and approval based on user expertise and need for the data in context of a specific project.	Unrestricted access.	Unrestricted access.
User Access	User pays an access fee.	Free registration.	Free registration.
User Experience	Once approved, access is within a secure enclave and users will see unit record data. All analyses are run remotely within the secure enclave. Output must be approved before being taken out of SURE.	Once users log in, they are able to construct tables of aggregate data freely, without constraint. These tables can then be downloaded as .csv files without review. Users do not see the unit level record data at any stage.	Users can download the complete dataset of unit level record data to use on their own system.
Sources	AIHW secure environment	ABS Tablebuilder site	Dataverse.
Number of Variables	60	38	31
Format of Date of Birth	Rounded to the month	Rounded to the year	Rounded to the decade
Geographic Information	Country (Birth, Residence and Citizenship), State, Postcode	Country by Region (Birth and Residence), State, Postcode, Address at SA3 level	Country (Birth and Residence), Postcode.

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This table is a very brief overview of the three access points for the PIA data. It shows the range of access types we have developed, to reflect the range of possible uses and users we expect to be interested in the PIA data. I would like to point out the relative accessibility of the Tablebuilder

- (i.e., free registration and unrestricted access) and also some of the key differences in how the data has been made confidential for privacy purposes. For example, you can see there are
- less variables in TableBuilder compared to the PIA data that is available in the Secure Enclave of SURE and that the date and geographic information is less specific. For example,
- country of birth is only shown by region in TableBuilder whereas the specific country is shown in SURE.

PIA in TableBuilder

As this data is publicly accessible, a number of steps have been taken to ensure privacy is maintained.

What is not in it?

- Fewer Variables
 - 38 variables (not 60)
- Less Detail
 - Some variables have been modified (e.g., month and Year to Year only)
- Fewer people
 - A 5% sample of the population

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As this data is publicly accessible, a number of steps have been taken to ensure privacy is maintained. So let's look at what is NOT in it.

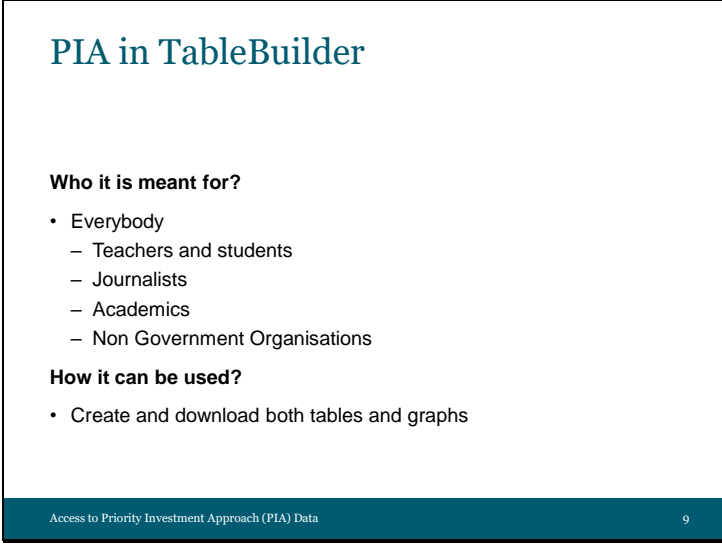
- There are Fewer Variables. There are 38 variables in TableBuilder as opposed to the 60 that are available in the secure environment of SURE.
- There is Less Detail. Some variables have been modified, for example a date might be available as year only in TableBuilder where it is available as month and year in the secure enclave.
- There are Fewer People. TableBuilder uses a 5% sample of the original PIA dataset. This is large enough to provide a representative subsample of the whole population while maintaining individual privacy. One implication of this is that if you are reporting population estimates in your grant application, you will need to multiply the figures in the table by 20.

Why you might be interested in using TableBuilder to access the PIA data

- TableBuilder is good for a wide range of data analysis expertise; from beginner to advanced
- TableBuilder allows for population estimates

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- TableBuilder is good for a wide range of data analysis expertise. Some people here are likely to be analysts or researchers and have experience in working with population data, perhaps even have experience with TableBuilder using other datasets
 - Some people here are likely to have no research experience and not be familiar with working with population data at all.
 - Due to it's user interface, TableBuilder suits both of these populations.
- While the 5% serves to protect individual privacy, it does allow for reportable estimates that can be used in reports and grant applications.



PIA in TableBuilder

Who it is meant for?

- Everybody
 - Teachers and students
 - Journalists
 - Academics
 - Non Government Organisations

How it can be used?

- Create and download both tables and graphs

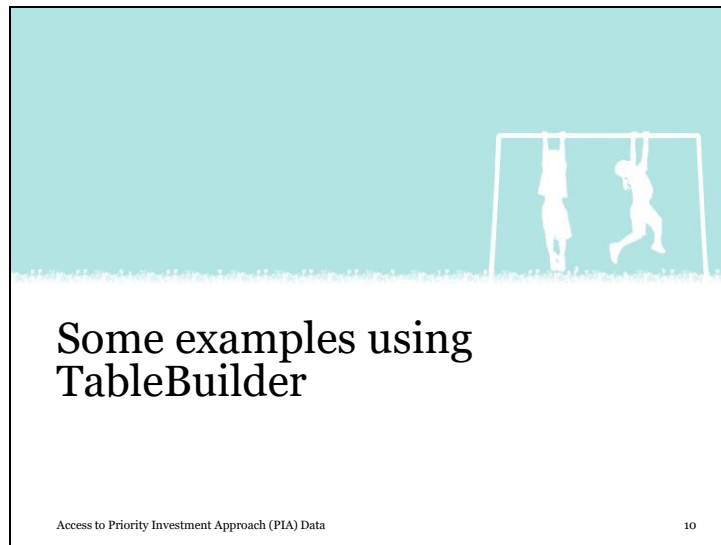
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Who it is meant for?

Users are expected to include teachers and students in an educational context, journalists preparing data for reports, as well as academics and NGO's looking for data to use in their grant applications.

- We will look at some examples of both tables and graphs at the end of this session and we will work through how to create and download both tables and graphs in the next session.

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For now, I will show you just a few examples of how you might use TableBuilder.

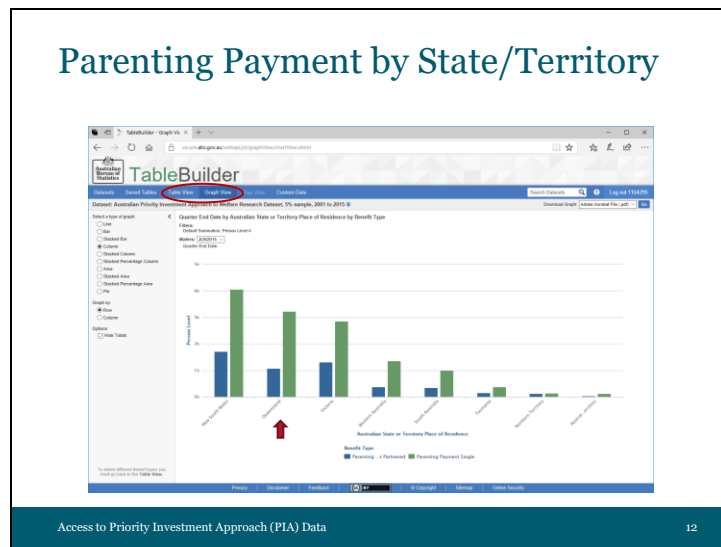
Parenting Payment by State/Territory

State/Territory	Parenting Payment Partnered	Parenting Payment Single	Total
New South Wales	1,731.9	4,014.4	5,746.3
Queensland	1,804.9	3,230.1	4,935.0
Victoria	1,518.4	3,084.4	4,602.8
Western Australia	891.4	1,380.8	2,272.2
South Australia	264.0	1,068.0	1,332.0
Tasmania	107.9	189.9	297.8
Northern Territory	146.9	151.4	298.3
Northern Capital Territory	42.9	112.4	155.3

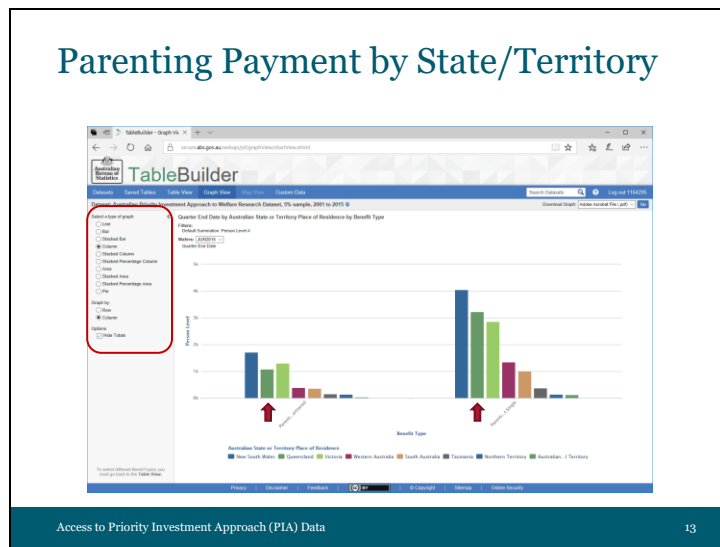
Everything you can see with TableBuilder is *always* group level or aggregate data. You will never see the individual unit level data that sits ‘behind’ the tables.

Here, we have a table that displays the number of recipients of two benefit types (Parenting Payment Partnered and Parenting Payment Single)

- Across the top in Columns, and the states and territories,
- Down the left in Rows,
- for June 2015.



- Switching between Table View and Graph View allows you to visualise the data
- Here we can see the count of the two parenting payments for each state.
- We have Queensland listed here because of the order in the table.



- By using the options on the left we can now see the same data displayed as the number of recipients across the states for each payment.
- In this graph, Queensland is represented by the dark green.

Newstart by State/Territory by Age

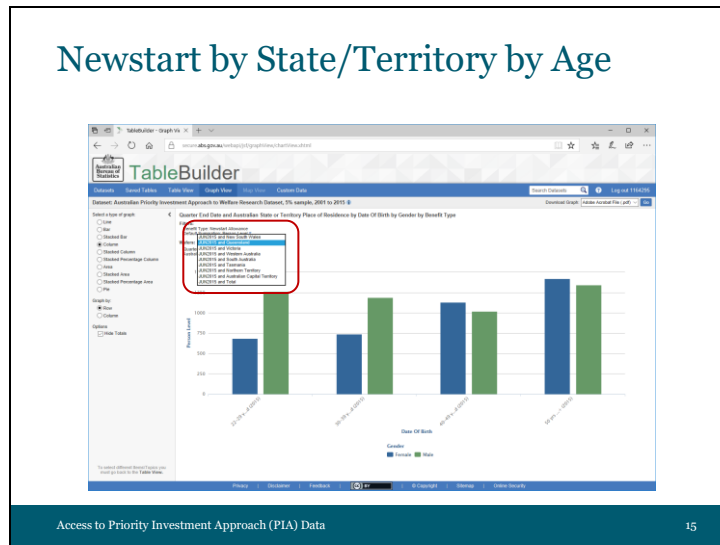
The screenshot shows the TableBuilder interface with the following table data:

State of Birth	18-24	25-34	35-44	45-54	55-64	65-74	75+	Total
New South Wales	4273	14734	14224	14255	13274	14223	14253	14244
Queensland	4674	14214	14214	13214	13214	13214	13214	13214
Victoria	4674	14214	14214	13214	13214	13214	13214	13214
Western Australia	4674	14214	14214	13214	13214	13214	13214	13214
South Australia	4674	14214	14214	13214	13214	13214	13214	13214
Tasmania	4674	14214	14214	13214	13214	13214	13214	13214
ACT	4674	14214	14214	13214	13214	13214	13214	13214
Total	4273	14734	14224	14255	13274	14223	14253	14244

Let's say I am interested in looking at recipients of Newstart Allowance and I want to see the age distribution of these recipients. In this table I have

- Newstart Allowance benefit in the filter. This means that only those records or people who were receiving Newstart Allowance in this quarter will be included in the table. So here I have a nested table with both
- Gender and
- age groups for each of the states. For each variable you also have the option of
- showing or hiding totals. In this case we can see the
- total count for recipients regardless of gender as well as
- the count regardless of state.

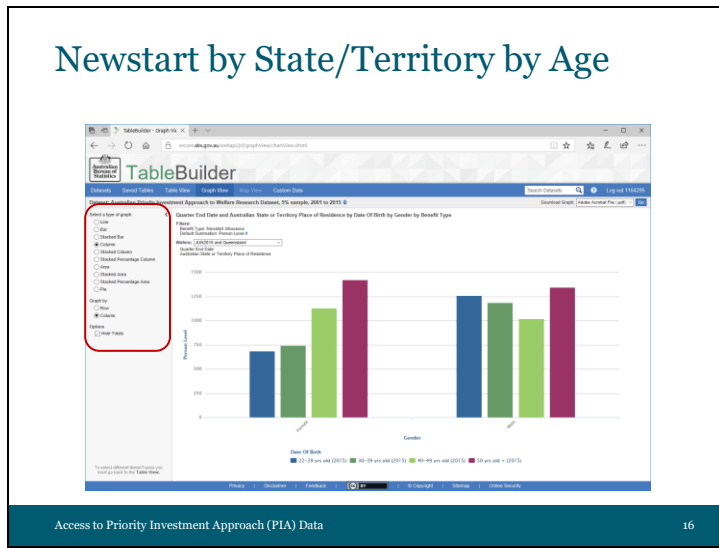
Newstart by State/Territory by Age



Let's say I am really only interested in looking at the age groups of recipients in my state. Here I have moved the states into the Wafer (this is a way of making a 2D table into a 3D cube with layers. Here I am looking at gender and age with the states in my layers.

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Newstart by State/Territory by Age



Again, depending on what I am interested in comparing I can use the options on the left to display the data differently.

Work Capacity Assessment before and after an Intervention

TableBuilder - Table View

Table: Australian Priority Investment Approach to Welfare Research Dataset, % sample, 2011 to 2015

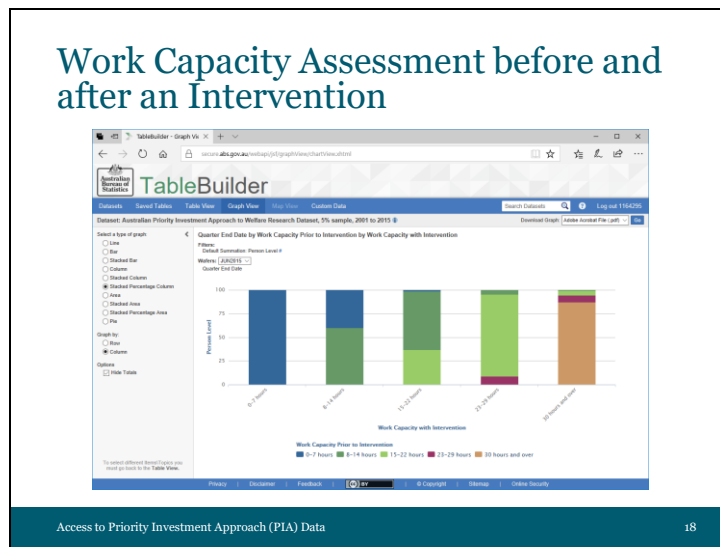
Table Title: Quarter End Date by Work Capacity Prior to Intervention by Work Capacity with Intervention

Columns: Work Capacity with Intervention, Work Capacity Prior to Intervention, Total

Work Capacity with Intervention	0-7 hours	8-14 hours	15-22 hours	23-29 hours	30 hours and over	Total
Work Capacity Prior to Intervention						
0-7 hours	11,538.0	8,203.0	32.0	18.0	19.0	17,209.0
8-14 hours	52.0	1,000.0	1,020.0	271.0	46.0	14,416.0
15-22 hours	0.0	7.0	3,189.0	5,307.0	378.0	9,447.0
23-29 hours	0.0	0.0	7.0	602.0	104.0	1,416.0
30 hours and over	0.0	0.0	4.0	13.0	10,905.0	10,922.0
Total	11,412.0	14,844.0	8,480.0	6,785.0	12,027.0	53,808.0

Access to Priority Investment Approach (PIA) Data

- In this table I have chosen to compare recipient's work capacity prior to an intervention and after an intervention. That is, the number of hours per week a recipient is assessed as being able to work. These will include those recipients who have partial working capacity and have had a Job Capacity Assessment or Employment Services Assessment where there are barriers to work.
- In this case, where a recipient was assessed as having 8-14 hours capacity prior to an intervention and assessed as having the same 8-14 hours capacity with an intervention, they are represented here
- Where a recipient was assessed as having 8-14 hours capacity prior to an intervention and then assessed as having 15-22 hours capacity with an intervention, they are represented here



- Using a different graphing option we can visually represent the trend of an increasing number of hours assessed for work capacity with an intervention.
- For example you can see that of those who were assessed as being able to work 15-22 hours after an intervention, a large proportion were able to work 8-14 hours prior to an intervention (dark green).
- Similarly, a large proportion of those who were assessed as being able to work 23-29 hours after an intervention were able to work 15-22 hours prior to an intervention (light green).

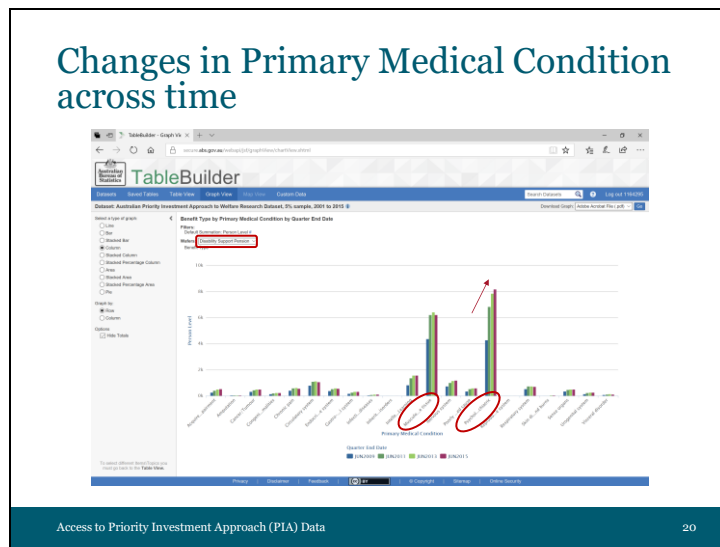
That is we can see an increase in capacity as assessed from a Work Capacity Assessment after an intervention.

Changes in Primary Medical Condition across time

The screenshot shows the TableBuilder interface with a pivot table titled "Result Types by Primary Medical Condition by Quarter End Date". The table displays data for four quarters: JUNE2010, JUNE2011, JUNE2012, and JUNE2013. The rows list various medical conditions, and the columns show the count for each quarter, along with a total column.

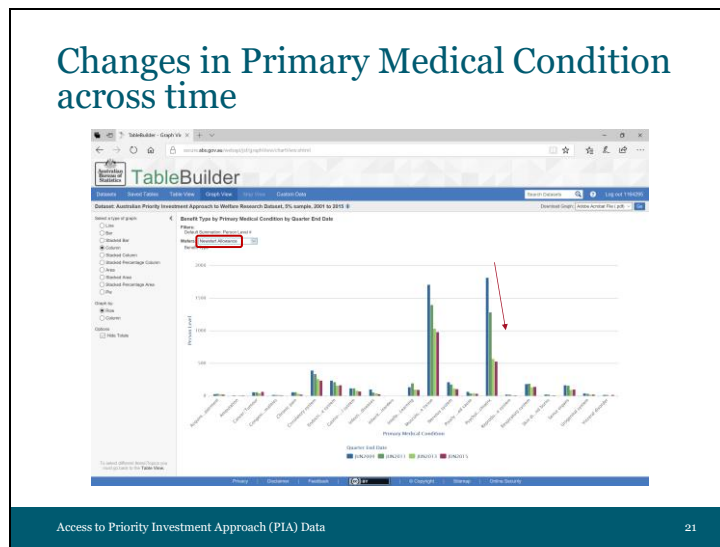
Primary Medical Condition	JUNE2010	JUNE2011	JUNE2012	JUNE2013	Total
Acquired Brain Injury/trauma	207.0	418.0	507.0	555.0	1,727.0
Alcoholism	86.0	73.0	71.0	68.0	298.0
Cardiovascular	322.0	647.0	968.0	1,048.0	2,985.0
Cognitive/Behavioral	111.0	218.0	293.0	20.0	642.0
Chronic pain	498.0	868.0	612.0	188.0	2,166.0
Chronic respiratory	822.0	1,900.0	1,793.0	1,810.0	6,325.0
Chronic substance use	275.0	593.0	581.0	580.0	2,029.0
Chronic traumatic brain injury	19.0	27.0	28.0	18.0	112.0
Diabetes Mellitus	45.0	82.0	110.0	180.0	367.0
Intellectual disability	13.0	23.0	30.0	20.0	86.0
Intelligence/Learning	862.0	1,250.0	1,277.0	1,580.0	5,969.0
Mental/Behavioral and Cognitive Issues	4,362.0	4,213.0	4,491.0	4,270.0	17,336.0
Seizure disorder	720.0	1,010.0	1,180.0	1,120.0	4,030.0
Phenytoin/antiepileptic	560.0	510.0	580.0	540.0	2,190.0
Psychiatric/PTSD/Anxiety	4,298.0	4,940.0	7,017.0	4,170.0	21,425.0

Now to look at changes in primary medical condition across time, this table presents the primary medical condition in the rows and the April-June quarters across four different years across the top in the columns.



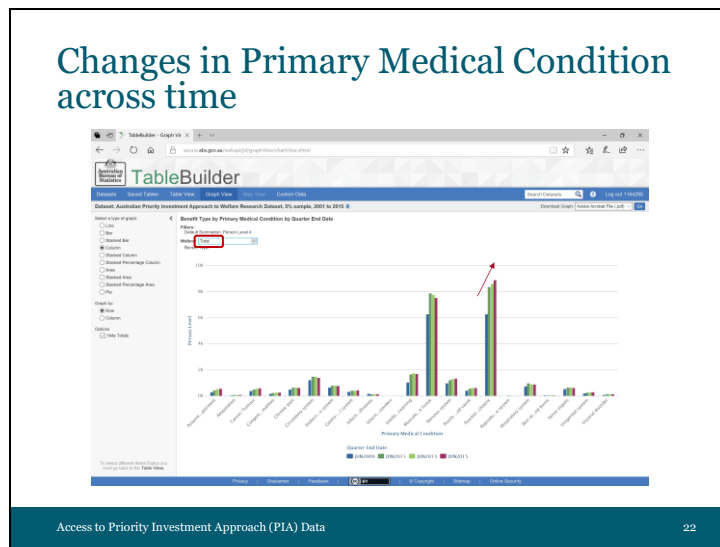
We can see here that both

- musculoskeletal conditions and psychological or psychiatric conditions are the two main primary medical conditions. In this case we are looking at
- people receiving Disability Support Pension. By comparing across the four years, we can also see that this number is increasing
- for psychological or psychiatric conditions.



We can use

- this drop box to compare medical condition to recipients of other benefit types, in this case we are looking at those receiving Newstart Allowance. In this case, the number of recipients with psychological or psychiatric condition as their primary medical condition is
- decreasing across the years.



By looking at all recipients, regardless of the type of benefit

- (using 'total' figures), we can see that **overall** the number of people whose primary medical condition is psychological or psychiatric in nature, is increasing across the years.

Other Data

- Household, Income and Labour Dynamics in Australia (HILDA) Survey
- The Longitudinal Study of Australian Children (LSAC)
- The Longitudinal Study of Indigenous Children (LSIC)
- Building a New Life in Australia (BNLA); The Longitudinal Study of Humanitarian Migrants

Living in Australia: Household, Income and Labour Dynamics in Australia (HILDA)
• Department of Social Services, Age 15 plus, annual household survey
• 13000 respondents, 7000 households across Australia
• 14 waves of data released

Growing up in Australia: The Longitudinal Study of Australian Children (LSAC)
• Department of Social Services, 0 and up biennial cohort study
• 10000 children across Australia
• 6 waves of data released

Footprints in Time: The Longitudinal Study of Indigenous Children (LSIC)
• Department of Social Services, 0 and up annual cohort study
• 1700 children in 13 sites across Australia (includes remote)
• 6 waves of data released

Building a New Life in Australia: Longitudinal Study of Humanitarian Migrants (BNLA)
• Department of Social Services, Age 15 plus annual household survey
• 1509 households, 2399 participants
• 1 wave of data released: 5 waves planned. (Wave 1 in 2013).

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Before we break, I would just like to note that there are a number of other datasets that may be of interest. The National Centre for Longitudinal Data runs four longitudinal research studies. These datasets contain information that might also be relevant to you particularly if you are looking for information around children, indigenous families or refugees. There is information at the sign in table for you to take with you. I am also happy to talk with you about the potential data available from these studies that might help you in your application.

Any Questions?

Thank you.

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Policy Research Officer
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The following session will provide some basic instructions on how to use TableBuilder, including some of the features and formatting options, using a number of research questions as examples. This session runs for approximately 15-20 minutes. I also have a list of the available variables and categories in the dataset for you to refer to in the break if you like. Are there any questions from this session?

Before we break, we are looking to understand the demand for a service that connects organisations in the community to researchers and data analysts. We will be sending you a link to invite you to take part in a survey that asks you what you would want that service to look like. If you don't want to receive this invite, please come and let me know.