

# TECHNICAL REPORT 1 , 2013



CENTRE FOR  
DISABILITY  
RESEARCH AND  
POLICY



THE UNIVERSITY OF  
SYDNEY

**LEFT BEHIND: 2013**  
MONITORING THE SOCIAL INCLUSION  
OF YOUNG AUSTRALIANS WITH SELF-REPORTED  
LONG TERM HEALTH CONDITIONS, IMPAIRMENTS  
OR DISABILITIES 2001 – 2011

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MONITORING THE SOCIAL INCLUSION OF YOUNG AUSTRALIANS WITH SELF REPORTED LONG TERM HEALTH CONDITIONS, IMPAIRMENTS OR DISABILITIES 2001 - 2011

## TECHNICAL REPORT 1, 2013

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# SUMMARY

Disabled Australian adolescents and young adults are more likely to experience social exclusion than their non-disabled peers. Social exclusion in adolescence leads to poor outcomes, such as lower educational achievement and unemployment in adulthood. It affects not only the health and wellbeing of the individual; it also impacts on their family and the wider community. The inability of people with disabilities to participate socially and economically is a loss to the whole of society.

This report maps the extent of social inclusion or exclusion of young disabled Australians, aged between 15 and 29, over the years 2001 to 2011. It found that although the social inclusion of young disabled Australians increased on a number of key indicators, the gap between disabled and non-disabled young Australians actually increased over the 11 year period.

On 13 key indicators of social inclusion including employment, living in a jobless household, having support from family or friends in times of crisis and feeling safe, young disabled Australians are now more disadvantaged compared to their non-disabled peers than they were in 2001.

## IN 2011

Young disabled Australians were **five times more likely** than their non-disabled peers to experience long-term unemployment and entrenched multiple disadvantage. (Entrenched multiple disadvantage is defined as experiencing disadvantage in at least three areas - income, work, education, safety and support and health - for two years or more).

Compared to their non-disabled peers, young disabled Australians in 2011 were significantly **less likely** to:

- Be employed
- Be fully engaged in education or work
- Attain Year 12 or equivalent educational qualification
- Obtain non-school qualifications
- Feel they have someone to turn to in time of crisis
- Have a voice in the community
- Have social contact with family or friends

Compared to their non-disabled peers, young disabled Australians in 2011 were significantly **more likely** to:

- Live in a jobless household
- Experience long-term unemployment
- Have lower economic resources and to experience financial stress and material deprivation
- Have mental illness
- Have fair or poor health

- Have a lower satisfaction with their life
- Feel unsafe in their local community
- Report being a victim of personal crime

## OVER THE PAST DECADE

Between 2001 and 2011 the gap between the inclusion of disabled and non-disabled young Australians has **widened markedly** in 13 critical areas:

- Employment
- Long-term unemployment
- Living in a jobless household
- Economic resources
- Being fully engaged in work or education
- Volunteering
- Mental illness
- Subjective well-being
- Having a voice in the community
- Support from family/friends in time of crisis
- Feeling safe
- Multiple disadvantage
- Entrenched multiple disadvantage

Multiple disadvantage is defined as experiencing disadvantage in at least three of the following areas: income, work, education, safety and support.

The gap has **narrowed** in only three areas:

- Attaining Year 12 or equivalent qualifications
- Participation in community groups
- Being a victim of personal crime

Despite social policy interventions, such as employment schemes for those in long-term unemployment and policies to include people with disabilities in community activities and organisations, the aspiration for young disabled Australians to become more socially included appears even further out of reach. Australia is a prosperous nation, committed to redressing the profound social disadvantages people with disability experience and to promoting their participation in society. But it has yet to redress the significant and pervasive social exclusion faced by Australian adolescents and young adults with a disability.

# TECHNICAL REPORT

## INTRODUCTION

The social inclusion of people with disabilities is attracting increasing attention. Most countries in the world have ratified the *UN Convention on the Rights of Person with Disabilities* (UNCRPD). Ratification obliges nations to work to redress the “profound social disadvantage of persons with disabilities and promote their participation in the civil, political, economic, social and cultural spheres with equal opportunities, in both developing and developed countries”.<sup>1</sup> Countries are also obligated to report to the UN at regulated intervals on their progress towards the equalisation of opportunity and social inclusion of disabled people.

On June 9<sup>th</sup> 2011 the World Health Organization and World Bank presented to the United Nations the first-ever *World Report on Disability*; a report which aims to draw recommendations from a synthesis of the best available scientific information in order to promote the well-being, dignity, social inclusion and human rights of people with disabilities around the globe.<sup>2</sup>

The aim of this *Technical Report* is to present information on the social inclusion of young disabled Australian adults over a ten year period leading up to and following Australia’s ratification of the optional protocol of UNCRPD on 21/08/2009. It is accompanied by a Policy Bulletin that can be downloaded from <http://sydney.edu.au/health-sciences/cdrp/publications/>

## BACKGROUND

The relationship between being disabled, socially excluded and poor is well documented.<sup>2,3</sup> Historically, negative social outcomes associated with disability were typically regarded as inevitable consequences of health conditions or impairments. Current understanding of the nature of disability suggests otherwise. Increasingly over the past three decades, disability has come to be seen as the result of the dynamic interplay between discriminatory social and environmental processes that perpetuate the social exclusion of people with particular health conditions or impairments.<sup>2-5</sup>

Adolescents and young adults with disabilities are particularly vulnerable to these exclusionary processes.<sup>6</sup> They are engaged in the transition to adulthood, marked in our society primarily by educational attainment, employment, family formation and having a voice in the community. Sitting on the margins of or excluded from reaching satisfying outcomes in these important domains of adulthood can further entrench the disadvantage experienced in childhood, multiplying the likelihood of socially excluded status in adulthood.<sup>6</sup>

*“The Australian Government’s social inclusion agenda aims to make sure every Australian has the capability, opportunity and resources to participate in the economy and their community while taking responsibility for shaping their own lives”*

*(From A Stronger, Fairer Australia)*

Current Australian government policy is to build a stronger, fairer nation.<sup>7</sup> In order to measure progress toward this goal, Australia has developed an **Indicator Framework for Social Inclusion**.<sup>8</sup> This tool contains 27 headline and 23 supplementary indicators. It is designed to identify where there may be significant shortfalls in achieving social inclusion and to monitor ongoing progress toward a more socially inclusive Australia.

This *Technical Report* describes the social inclusion of young disabled Australians using the above indicator framework for social inclusion in Australia.

## METHOD

We analysed data extracted from Waves 1 (2001) to 11 (2011) of the annual survey of *Household Income and Labour Dynamics in Australia* (HILDA: <http://melbourneinstitute.com/hilda/>). Full details of HILDA are available in a series of technical reports and annual reports.<sup>9 10</sup> Briefly, HILDA is a panel survey originating from a national probability sample of approximately 7,500 Australian households in 2001 (Wave 1). Continuing panel members include all panel members of Wave 1 households, any children subsequently born to or adopted by panel members and all new entrants to a household who have a child with an existing panel member. In addition, information is collected on temporary panel members (people who share a household with a continuing panel member in wave 2 or later) as long as they share a household with a continuing panel member. All household members aged 15 or above are invited to participate in a personal interview. The sample was replenished in 2011 with the inclusion of an additional 2,153 households.

### IDENTIFICATION OF PARTICIPANTS WITH A SELF-REPORTED LONG-TERM HEALTH CONDITION, IMPAIRMENT OR DISABILITY

Participants were identified as having a long-term health condition, impairment or disability if they answered in the positive to a question ‘*Do you have any impairment, long-term health condition or disability such as these [shown list] that restricts you in your everyday activities and has lasted or is likely to last for 6 months or more?*’

The examples provided are listed in Table 1.

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**Table 1: Examples provided of “long-term condition, impairment or disability”**

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|  |
|--|
| Sight problems not corrected by glasses / lenses   |
| Hearing problems   |
| Speech problems  |
| Blackouts, fits or loss of consciousness   |
| Difficulty learning or understanding things  |
| Limited use of arms or fingers   |
| Difficulty gripping things   |
| Limited use of feet or legs  |
| A nervous or emotional condition which requires treatment  |
| Any condition that restricts physical activity or physical work (e.g., back problems, migraines)                             |
| Any disfigurement or deformity   |
| Any mental illness which requires help or supervision  |
| Shortness of breath or difficulty breathing  |
| Chronic or recurring pain  |
| Long term effects as a result of a head injury, stroke or other brain damage   |
| A long-term condition or ailment which is still restrictive even though it is being treated or medication being taken for it |
| Any other long-term condition such as arthritis, asthma, heart disease, Alzheimer’s disease, dementia etc                    |

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## INDICATORS

The **Monitoring and Reporting Framework – Headline and Supplementary Indicators of Social Inclusion** consists of 12 Domains under the three broad headings of Participation, Resources and Multiple Entrenched Disadvantage.<sup>8</sup> For each of the first two broad headings there are a number of domains, each with at least one headline indicator and a varying number of supplementary indicators. Under Participation, there are four domains. These are: work; learn; engage (social participation); have a voice (political, civic, community participation). The domains within the Resources section are: material/economic resources; health and disability; education and skills; social resources; community and institutional resources; housing; and personal safety. In the final section, Multiple and Entrenched Disadvantage, there is only one domain of the same name.

Following the approach we developed using the UN Convention on the Rights of Persons with Disabilities to understand the well-being of young disabled Australians,<sup>11 12</sup> we identified items contained within Waves 1-11 of HILDA that could be employed as indicators of social inclusion identical to or very similar to the headline and supplementary indicators of social inclusion in the **Monitoring and Reporting Framework**. We identified 22 indicators in all, 12 of which correspond to headline indicators, 10 to supplementary indicators. Two indicators (multiple disadvantage and entrenched multiple disadvantage) include self-assessed health as one component in an overall index. Given the inherent association between health conditions or impairments and disability, we have presented two versions of these indicators, one including the health component, the other excluding it.

## MEASURING SOCIAL INCLUSION OVER TIME

Our judgements of the social significance of trends in social inclusion over time were based on the strength of the non-parametric correlation coefficient between the year and group scores on the relevant indicator. To measure trends in the absolute social inclusion of both disabled and non-disabled Australians we use the percentage score for that particular group on each indicator. To measure trends in the relative social inclusion between disabled and non-disabled Australians we used a measure of the **relative** risk or disadvantage (the odds ratio) experienced by disabled people when compared to non-disabled people on each indicator. We followed convention by designating correlation coefficients greater than +0.4 or lower than -0.4 as evidence of ‘strong’ effects over time.<sup>13</sup> It should be noted that these effects are not necessarily ‘statistically’ significant. That is, we cannot necessarily rule out with confidence that these changes could not have occurred due to chance fluctuations resulting from measurement or sampling error. However, it is being increasingly recognised in the health and social sciences that the social significance of patterns and associations are best estimated by consideration of their ‘effect sizes’ (as we have done here) than by their statistical significance.<sup>13 14</sup>



# RESULTS

Detailed results are provided in Table 2 (see Appendix).

## THE EXTENT OF SOCIAL INCLUSION OF YOUNG DISABLED AUSTRALIANS IN 2011

Relative to their non-disabled peers, young disabled Australians in 2010 were significantly less likely to do well on indicators of **participation**. Full results are presented in Table 2 in the Technical Appendix.

They were less likely to:

- Be employed
- Be fully engaged in education or work
- Attain Year 12 or equivalent educational qualification
- Obtain non-school qualifications

They were more likely to:

- Live in a jobless household
- Experience long-term unemployment
- Experience low economic resources and financial stress/material deprivation

Relative to their non-disabled peers, young disabled Australians in 2011 were significantly less likely to do well on indicators of **resources**.

They were less likely to:

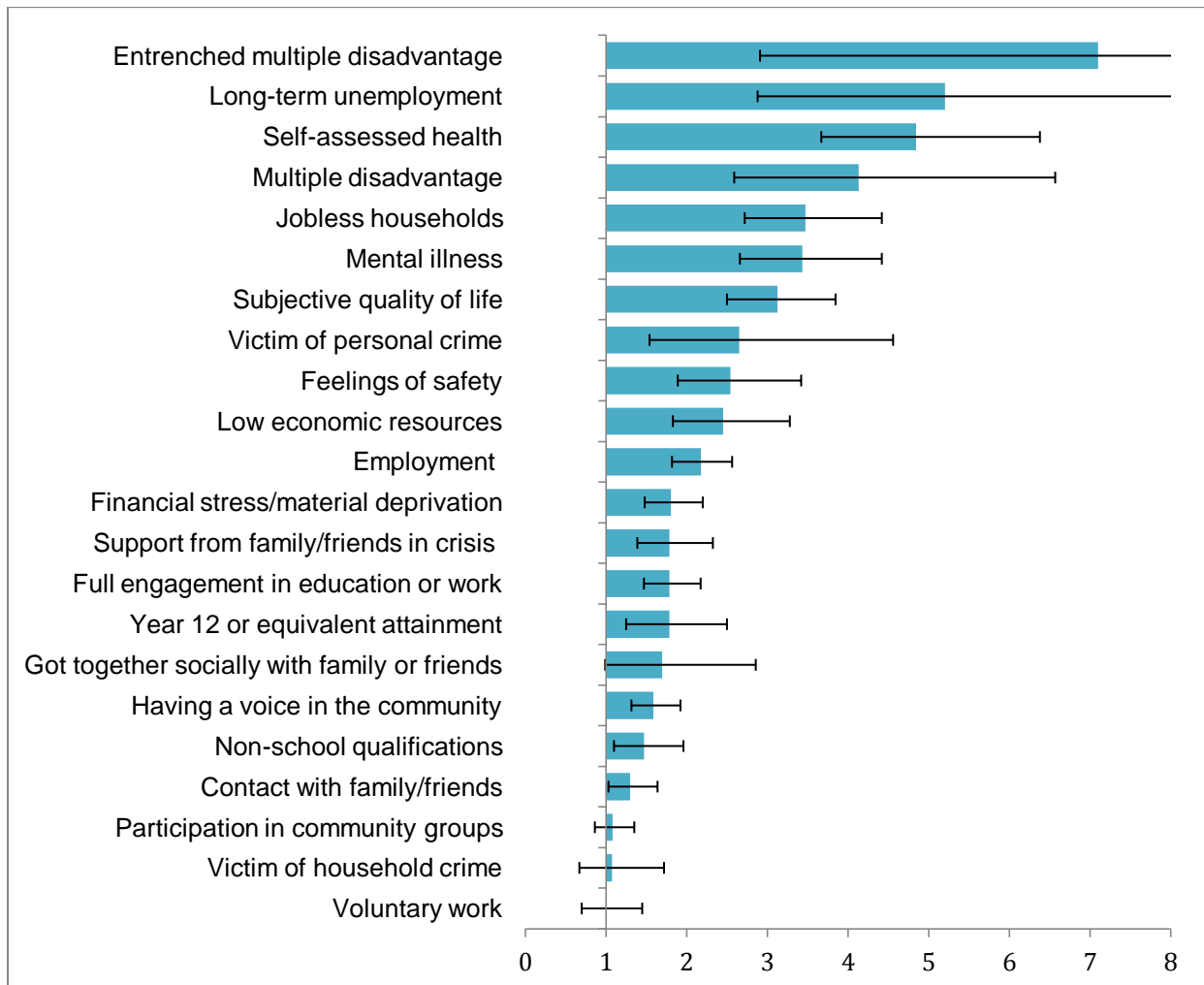
- Feel they have someone to turn to in time of crisis
- Have a voice in the community
- Have social contact with family or friends

They were more likely to:

- Have mental illness
- Have fair or poor health
- Have a lower subjective quality of life
- Feel unsafe in their local community
- Report being a victim of personal crime

The standout finding is that in 2011 young disabled Australians were *five times more likely* than their non-disabled peers to experience **long-term unemployment** and **entrenched multiple disadvantage**.

To demonstrate visually what this means for the situation of disabled young Australians in 2011, the extent of relative *social exclusion* is shown below in Figure 1 for the 22 indicators.<sup>1</sup>



**Figure 1:** Social Exclusion of Disabled Young Australians 2011

<sup>1</sup> **Reading Figure 1:** The bars in Figure 1 show the risk for social exclusion experienced by disabled young Australians when compared to their non-disabled peers. The measure of risk used is the *odds ratio* (OR). An OR of one indicates that there is no difference between disabled and non-disabled young Australians. An OR of *less than one* indicates that disabled young Australians are *less* excluded than their non-disabled peers. An OR of *more than one* indicates that disabled young Australians are *more* excluded than their non-disabled peers. An odds ratio of five, for example, indicates that the odds (chances) of exclusion are five times greater for disabled young Australians when compared to their non-disabled peers. The 'T' lines show the 95% confidence intervals for each risk estimate. That is, in 95% of instances the true level of risk will lie within these T-lines. If the T lines do not cross 1 (no difference) then the difference between disabled and non-disabled young Australians is considered *statistically significant*.

## CHANGES IN THE LEVEL OF SOCIAL INCLUSION OVER TIME FOR YOUNG DISABLED AUSTRALIANS

It is obviously important to determine whether the social inclusion of disabled young Australians is increasing or decreasing over time. Between 2001 and 2011, the social inclusion of young disabled Australians **increased** over time on 10 of the 22 indicators including five headline indicators (in bold):

- Not living in a jobless household
- **Achieving Y12 or Certificate II at school**
- **Not experiencing low economic resources and financial stress/ material deprivation**
- Not experiencing low economic resources and financial strain
- **Having better self-rated health**
- **Feeling safe in the community**
- Not being a victim of household crime
- Not being a victim of personal crime
- **Not experiencing multiple disadvantage**
- Not experiencing entrenched multiple disadvantage.

At the same time, the social inclusion of young disabled Australians **decreased** over time on two of the 22 indicators including one headline indicator (in bold):

- Volunteering
- **Having less contact with family and friends in the past week**

While these improvements are to be welcomed, it was also the case that the social inclusion of non-disabled young Australians also increased on 14 (and decreased on 2) of the 22 indicators. Therefore we need to examine changes in *relative* social inclusion over time.

## CHANGES IN THE GAP BETWEEN YOUNG DISABLED AUSTRALIANS AND THEIR NON-DISABLED PEERS OVER TIME

Did the gap in the social inclusion between disabled and non-disabled young Australians narrow or widen between 2001 and 2011? Over this period the **gap in social inclusion** between disabled and non-disabled young Australians **widened** on 13 indicators (including 8 of the 12 headline indicators):

- **Being employed**
- Living in a jobless household
- Being long-term unemployed
- **Being fully engaged in work or education**
- Volunteering
- **Having low economic resources and financial stress**
- **Having mental illness**
- Having lower subjective well-being
- **Having someone to turn to in times of crisis**

- **Having a voice in the community**
- **Feeling safe in the community**
- **Multiple disadvantage**
- Entrenched multiple disadvantage.

It narrowed in just three areas (including 2 of the 12 headline indicators):

- **Attaining Y12 qualifications**
- **Being a member of a community organisation**
- Being a victim of personal crime.

We have summarised Australia's progress in promoting the social inclusion of young Australians with disabilities between 2001 and 2011 in the following scorecard.

## A SCORECARD OF AUSTRALIA'S PROGRESS IN PROMOTING THE SOCIAL INCLUSION OF YOUNG AUSTRALIANS WITH DISABILITIES: 2001-2011

| Social Inclusion Domain   | Indicator (Shaded Cells = Headline Indicator)                         | D | ND | Gap |
|---|---|---|----|-----|
| <b>Work</b>   | 1. Employment rate  |   |    | ↑   |
|   | 2. Jobless households   | ✓ | ✓  | ↑   |
|   | 3. Long-term unemployment   |   | ✓  | ↑   |
| <b>Learn</b>  | 4. Young people fully engaged in education or work                    |   |    | ↑   |
|   | 5. Year 12 or equivalent attainment                                   | ✓ |    | ↓   |
| <b>Engage</b>   | 6. Contacted family/friends   | ✗ | ✗  |     |
|   | 7. Participation in community groups                                  |   | ✗  | ↓   |
| <b>Engage</b>   | 8. Got together socially with family or friends                       |   |    |     |
|   | 9. Voluntary work   | ✗ |    | ↑   |
| <b>Material &amp; Economic Resources</b>  | 10. Low economic resources and financial stress/ material deprivation | ✓ | ✓  | ↑   |
|   | 11. Financial stress/material deprivation                             | ✓ | ✓  |     |
| <b>Health</b>   | 12. People with mental illness  |   | ✓  | ↑   |
|   | 13. Self-assessed health  | ✓ | ✓  |     |
|   | 14. Subjective quality of life  |   | ✓  | ↑   |
| <b>Education &amp; Skills</b>   | 15. Non-school qualifications   |   | ✓  |     |
| <b>Social Resources</b>   | 16. Support from family/friends in time of crisis                     |   | ✓  | ↑   |
|   | 17. Autonomy—having a voice in the community                          |   | ✓  | ↑   |
| <b>Personal Safety</b>  | 18. Feelings of safety  | ✓ | ✓  | ↑   |
|   | 19. Victim of personal crime  | ✓ |    | ↓   |
|   | 20. Victim of household crime   | ✓ | ✓  |     |
| <b>Multiple &amp; entrenched disadvantage</b>                                     | 21. Multiple disadvantage   | ✓ | ✓  | ↑   |
|   | 22. Multiple disadvantage (excluding health)                          | ✓ | ✓  | ↑   |
|   | 23. Entrenched multiple disadvantage                                  | ✓ | ✓  | ↑   |
|   | 24. Entrenched Multiple disadvantage (excluding health)               |   | ✓  | ↑   |
| ✓ marked progress    ✗ marked deterioration    ↑ gap increased    ↓ gap decreased |   |   |    |     |

## CONCLUSIONS

While it is heartening to observe some trends in increasing social inclusion over time for young disabled Australians (e.g., in relation to being exposed to multiple disadvantage), the extent of their social inclusion over time *relative to their non-disabled peers* presents a different story. Despite social policy interventions with greater attention given to employment schemes for people in long-term unemployment, income support benefits for those experiencing financial hardship, and disability inclusive policies in community activities and organizations, the aspiration for young disabled Australians to become more socially included appears even further out of reach, with a widening gap between their life conditions and those of their non-disabled peers on eight of the twelve headline indicators:

- Being employed
- Being fully engaged in work or education
- Having low economic resources and financial stress
- Having mental illness
- Having someone to turn to in times of crisis
- Having a voice in the community
- Feeling safe in the community
- Multiple disadvantage

On only two of the headline indicators did the gap narrow:

- Attaining Y12 qualifications
- Being a member of a community organisation.

It is notable that the narrowing of the gap on being a member of a community organisation resulted from a more rapid decline in social inclusion on this indicator among non-disabled young Australians, rather than any evidence of increasing social inclusion.

Building on our previous analyses,<sup>12</sup> the analyses presented here confirm that despite the implementation of policies and services related to disability (and at a time when Australia led by example in the development and ratification of the UN Convention on the Rights of Persons with Disabilities which promotes social inclusion), this economically prosperous nation has yet to redress the significant and pervasive social exclusion founded on multiple and entrenched disadvantage faced by Australian adolescents and young adults with a self-reported long term health condition, disability or impairment.

The approach taken in this study utilized the social indicators framework developed by the Australian Social Inclusion Board. We successfully aligned indicators with items in HILDA, an easily accessible, robust national longitudinal panel survey of Australian households. Given the commitment of the Australian government to the equalization of opportunities for people with disabilities, this framework provides a useful tool to assist in monitoring the effectiveness of policy and service initiatives introduced under the social inclusion program to progress toward a

stronger and fairer Australia. The framework also offers an approach to monitor Australia's progress toward meeting the nation's obligations under the UNCRPD.

The results demonstrate how the common set of drivers of social exclusion noted in many studies worldwide play out in the lives of young Australians with a long term health condition, impairment or disability and at a critical point in their lives as they emerge into adulthood. These drivers include poverty, low income and income inequality, lack of access to the job market, poor educational outcomes, poor health and wellbeing, lack of access to social supports and networks, exclusion from services and discrimination. As noted in *A Stronger, Fairer Australia* report .... "These drivers are often inter-related. When they combine, they can have a compounding effect, deepening disadvantage and creating a vicious cycle that undermines people's resilience and reduces their ability to participate" (p. 5).

### ACKNOWLEDGEMENTS

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## APPENDIX: TABLE 2 - TRENDS IN SOCIAL INCLUSION

| <i>Social Inclusion Domain</i> | <i>Indicator (Shaded Cells = Headline Indicator)</i>                              |      | 2001<br>n=3,903<br>14.2%<br>disabled | 2002<br>n=3,532<br>11.1%<br>disabled | 2003<br>n=3,455<br>14.9%<br>disabled | 2004<br>n=3,419<br>15.7%<br>disabled | 2005<br>n=3,519<br>16.9%<br>disabled | 2006<br>n=3,632<br>14.1%<br>disabled | 2007<br>n=3,640<br>13.5%<br>disabled | 2008<br>n=3,643<br>13.3%<br>disabled | 2009<br>n=3,954<br>15.3%<br>disabled | 2010<br>n=3,867<br>13.5%<br>disabled | 2011<br>n=5,249<br>13.6%<br>disabled |
|--------------------------------|---|------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Work                           | <b>Employment rate:</b>   | D    | 57%                                  | 58%                                  | 61%                                  | 58%                                  | 64%                                  | 62%                                  | 61%                                  | 63%                                  | 58%                                  | 57%                                  | 54%                                  |
|                                |   | Not  | 69%                                  | 71%                                  | 72%                                  | 74%                                  | 74%                                  | 73%                                  | 75%                                  | 74%                                  | 71%                                  | 72%                                  | 72%                                  |
|                                | Employment /<br>population ratio<br>(15–29 years) <sup>1</sup>                    | OR/p | 0.60***                              | 0.57***                              | 0.60***                              | 0.47***                              | 0.62***                              | 0.61***                              | 0.51***                              | 0.58***                              | 0.56***                              | 0.53***                              | 0.46***                              |
|                                |   | CI   | 0.49-<br>0.72                        | 0.46-<br>0.71                        | 0.49-<br>0.73                        | 0.39-<br>0.57                        | 0.51-<br>0.76                        | 0.49-<br>0.75                        | 0.42-<br>0.61                        | 0.47-<br>0.72                        | 0.46-<br>0.68                        | 0.43-<br>0.64                        | 0.39-<br>0.55                        |
|                                | <b>Jobless households:</b>  | D    | 18%                                  | 17%                                  | 17%                                  | 16%                                  | 13%                                  | 14%                                  | 13%                                  | 15%                                  | 16%                                  | 14%                                  | 16%                                  |
|                                |   | Not  | 8%                                   | 8%                                   | 8%                                   | 7%                                   | 7%                                   | 6%                                   | 5%                                   | 5%                                   | 6%                                   | 5%                                   | 5%                                   |
|                                | Percentage of<br>persons living in<br>jobless households                          | OR/p | 2.68***                              | 2.27***                              | 2.33***                              | 2.38***                              | 2.17***                              | 2.74***                              | 2.86***                              | 3.38***                              | 3.10***                              | 2.95***                              | 3.47***                              |
|                                |   | CI   | 2.10-<br>3.43                        | 1.71-<br>3.02                        | 1.80-<br>3.02                        | 1.83-<br>3.11                        | 1.64-<br>2.87                        | 2.04-<br>3.67                        | 2.19-<br>3.72                        | 2.48-<br>5.59                        | 2.36-<br>4.07                        | 2.20-<br>3.96                        | 2.72-<br>4.42                        |
|                                | <b>Long-term unemployment:</b>  | D    | 5%                                   | 6%                                   | 3%                                   | 6%                                   | 4%                                   | 3%                                   | 4%                                   | 2%                                   | 4%                                   | 4%                                   | 5%                                   |
|                                |   | Not  | 2%                                   | 2%                                   | 2%                                   | 1%                                   | 1%                                   | 1%                                   | 2%                                   | 1%                                   | 2%                                   | 1%                                   | 1%                                   |
|                                | Percentage of<br>labour force<br>continuously<br>unemployed for<br>last 12 months | OR/p | 2.74***                              | 2.77***                              | 2.01*                                | 4.04***                              | 3.04**                               | 3.13**                               | 2.36**                               | 3.21*                                | 2.99**                               | 2.99**                               | 5.20***                              |
|                                |   | CI   | 1.58-<br>4.74                        | 1.62-<br>4.76                        | 1.01-<br>4.03                        | 2.21-<br>7.40                        | 1.56-<br>5.92                        | 1.51-<br>6.49                        | 1.33-<br>4.20                        | 1.22-<br>8.42                        | 1.61-<br>5.57                        | 1.55-<br>5.80                        | 2.88-<br>9.41                        |



|        |   |           |           |           |           |           |           |           |           |           |           |           |           |
|--------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Engage | <b>Contacted family/friends:</b><br><br>Percentage of people aged 18 years and over who contacted family/friends in past week                             | D         | 76%       | 72%       | 71%       | 71%       | 70%       | 66%       | 69%       | 72%       | 74%       | 62%       | 68%       |
|        |   | Not       | 79%       | 79%       | 80%       | 77%       | 76%       | 77%       | 77%       | 75%       | 78%       | 73%       | 73%       |
|        |   | OR/p      | 0.82      | 0.68**    | 0.60***   | 0.74*     | 0.76*     | 0.59***   | 0.68**    | 0.83      | 0.80      | 0.62***   | 0.77*     |
|        |   | CI        | 0.64-1.06 | 0.51-0.91 | 0.47-0.78 | 0.57-0.97 | 0.59-.097 | 0.45-0.76 | 0.54-0.86 | 0.62-1.12 | 0.61-1.05 | 0.49-0.80 | 0.61-0.97 |
|        | <b>Participation in community groups:</b><br><br>Percentage of people aged 18 years and over who were involved in a community group in the last 12 months | D         | 36%       | 31%       | 36%       | 30%       | 28%       | 30%       | 35%       | 36%       | 33%       | 29%       | 34%       |
|        |   | Not       | 38%       | 39%       | 39%       | 39%       | 38%       | 34%       | 35%       | 38%       | 38%       | 31%       | 36%       |
| OR/p   |   | 0.90      | 0.71*     | 0.88      | 0.69**    | 0.65**    | 0.80      | 0.97      | 0.92      | 0.81      | 0.92      | 0.93      |           |
| CI     |   | 0.72-1.13 | 0.53-0.93 | 0.69-1.12 | 0.53-0.89 | 0.50-0.83 | 0.61-1.04 | 0.78-1.21 | 0.69-1.21 | 0.63-1.04 | 0.71-1.19 | 0.74-1.16 |           |

|        |   |      |           |           |           |           |           |           |           |           |           |           |           |     |
|--------|---|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
| Engage | <b>Got together socially with family or friends:</b><br>Percentage of people who get together socially with friends or relatives not living with at least once every three months <sup>ii</sup> | D    | 95%       | 96%       | 95%       | 96%       | 98%       | 95%       | 96%       | 97%       | 98%       | 95%       | 95%       |     |
|        |   | Not  | 98%       | 98%       | 98%       | 97%       | 97%       | 98%       | 99%       | 98%       | 98%       | 98%       | 98%       | 97% |
|        |   | OR/p | 0.39***   | 0.53      | 0.48*     | 0.64      | 1.61      | 0.31***   | 0.31***   | 0.59      | 0.93      | 0.50*     | 0.59      |     |
|        |   | CI   | 0.23-0.66 | 0.27-1.03 | 0.27-0.85 | 0.35-1.18 | 0.68-3.80 | 0.17-0.60 | 0.17-0.59 | 0.26-1.36 | 0.41-2.11 | 0.27-0.90 | 0.35-1.01 |     |
|        | <b>Voluntary work:</b><br>Percentage of people aged 18 years and over who undertook voluntary work in past 12 months  | D    | 15%       | 11%       | 14%       | 9%        | 10%       | 10%       | 11%       | 9%        | 10%       | 10%       | 10%       |     |
|        |   | Not  | 13%       | 9%        | 12%       | 11%       | 9%        | 11%       | 9%        | 10%       | 11%       | 11%       | 10%       |     |
|        |   | OR/p | 1.16      | 1.16      | 1.12      | 0.87      | 1.07      | 0.96      | 1.25      | 0.88      | 0.90      | 0.85      | 0.99      |     |
|        |   | CI   | 0.85-1.58 | 0.75-1.79 | 0.79-1.61 | 0.56-1.35 | 0.73-1.56 | 0.64-1.43 | 0.89-1.75 | 0.56-1.41 | 0.60-1.36 | 0.56-1.28 | 0.69-1.43 |     |

|                               |  |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |     |                          |
|-------------------------------|--|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-----|--------------------------|
| Material & Economic Resources | <b>Low economic resources and financial stress/material deprivation:</b> | D  | 17%                      | 22%                      | 17%                      | 19%                      | 16%                      | 12%                      | 17%                      | 15%                      | 13%                      | n/a | 14%                      |
|                               |  | Not  | 12%                      | 11%                      | 9%                       | 9%                       | 8%                       | 7%                       | 7%                       | 6%                       | 5%                       | n/a | 6%                       |
|                               |  | OR/p<br>CI   | 1.58**<br>1.22-<br>2.04  | 2.47***<br>1.85-<br>3.29 | 2.14***<br>1.61-<br>2.84 | 2.36***<br>1.77-<br>3.15 | 2.04***<br>1.52-<br>2.73 | 1.72**<br>1.22-<br>2.44  | 2.64***<br>2.00-<br>3.84 | 2.60***<br>1.81-<br>3.74 | 2.66***<br>1.88-<br>3.74 | n/a | 2.45***<br>1.83-<br>3.28 |
|                               | <b>Financial stress/material deprivation:</b>                            | D  | 55%                      | 47%                      | 45%                      | 40%                      | 38%                      | 38%                      | 42%                      | 36%                      | 33%                      | n/a | 37%                      |
|                               |  | Not  | 40%                      | 32%                      | 30%                      | 27%                      | 26%                      | 26%                      | 25%                      | 22%                      | 23%                      | n/a | 25%                      |
|                               |  | OR/p<br>CI   | 1.82***<br>1.50-<br>2.20 | 1.84***<br>1.46-<br>2.32 | 1.86***<br>1.51-<br>2.29 | 1.77***<br>1.42-<br>2.20 | 1.77***<br>1.43-<br>2.19 | 1.75***<br>1.39-<br>2.19 | 2.23***<br>1.83-<br>2.72 | 2.05***<br>1.59-<br>2.65 | 1.72***<br>1.37-<br>2.16 | n/a | 1.80***<br>1.48-<br>2.20 |
|                               |  | Percentage of population in income poverty (< 60% median equivalised household income) and hardship (one or more out of seven possible items) <sup>iii</sup> |                          |                          |                          |                          |                          |                          |                          |                          |                          |     |                          |
|                               |  | Percentage of population with one or more out of seven possible financial stress / deprivation items <sup>iv</sup>   |                          |                          |                          |                          |                          |                          |                          |                          |                          |     |                          |



|                    |  |           |           |           |           |           |           |           |           |           |           |           |           |
|--------------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Education & Skills | <b>Non-school qualifications:</b><br><br>Percentage of people aged 25–29 years with non-school qualifications  | D         | 62%       | 61%       | 66%       | 49%       | 55%       | 56%       | 66%       | 63%       | 63%       | 64%       | 62%       |
|                    |  | Not       | 62%       | 68%       | 68%       | 68%       | 67%       | 70%       | 66%       | 69%       | 67%       | 70%       | 71%       |
|                    |  | OR/p      | 1.01      | 0.73      | 0.93      | 0.45***   | 0.59**    | 0.56**    | 0.98      | 0.77      | 0.86      | 0.77      | 0.68**    |
|                    |  | CI        | 0.74-1.39 | 0.52-1.03 | 0.66-1.31 | 0.32-0.64 | 0.42-0.81 | 0.40-0.79 | 0.72-1.34 | 0.52-1.12 | 0.62-1.19 | 0.54-1.08 | 0.51-0.91 |
| Social Resources   | <b>Support from family/friends in time of crisis:</b><br><br>Percentage of people aged 18 years and over who feel that they have someone to turn to in crisis <sup>vii</sup>         | D         | 75%       | 80%       | 78%       | 78%       | 77%       | 74%       | 79%       | 75%       | 81%       | 78%       | 76%       |
|                    |  | Not       | 83%       | 84%       | 86%       | 87%       | 85%       | 84%       | 86%       | 88%       | 87%       | 86%       | 85%       |
|                    |  | OR/p      | 0.63***   | 0.78      | 0.61**    | 0.54***   | 0.60***   | 0.54***   | 0.60***   | 0.41***   | 0.67*     | 0.58***   | 0.56***   |
|                    | CI   | 0.49-0.81 | 0.56-1.08 | 0.46-0.82 | 0.40-0.73 | 0.45-0.79 | 0.41-0.72 | 0.46-0.79 | 0.30-0.57 | 0.49-0.92 | 0.43-0.77 | 0.43-0.72 |           |
|                    | <b>Autonomy—having a voice in the community:</b><br><br>Percentage of people aged 18 years and over who report being satisfied in belonging to their local community <sup>viii</sup> | D         | 50%       | 57%       | 59%       | 59%       | 57%       | 61%       | 57%       | 49%       | 59%       | 56%       | 59%       |
|                    |  | Not       | 61%       | 64%       | 65%       | 66%       | 64%       | 65%       | 68%       | 69%       | 66%       | 69%       | 69%       |
| OR/p               |  | 0.66***   | 0.73**    | 0.76*     | 0.73**    | 0.75**    | 0.84      | 0.62***   | 0.42***   | 0.72**    | 0.56***   | 0.63***   |           |
| CI                 | 0.53-0.81  | 0.57-0.93 | 0.61-0.95 | 0.58-0.91 | 0.61-0.93 | 0.67-1.06 | 0.51-0.76 | 0.33-0.54 | 0.58-0.89 | 0.45-0.69 | 0.52-0.76 |           |           |

|                 |   |         |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|-----------------|---|---------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Personal Safety | <b>Feelings of safety:</b><br><br>Percentage of people aged 18 years and over who feel unsafe in their local community <sup>x</sup>                         | D       | 22%                  | 19%                  | 13%                  | 13%                  | 12%                  | 14%                  | 11%                  | 12%                  | 10%                  | 11%                  | 14%                  |
|                 |   | Not     | 11%                  | 9%                   | 7%                   | 6%                   | 7%                   | 6%                   | 5%                   | 5%                   | 4%                   | 4%                   | 6%                   |
|                 |   | OR/p CI | 2.33***<br>1.79-3.05 | 2.32***<br>1.69-3.19 | 2.02***<br>1.44-2.82 | 2.51***<br>1.76-3.59 | 1.84***<br>1.32-2.58 | 2.69***<br>1.88-3.84 | 2.19***<br>1.58-3.03 | 2.87***<br>1.94-4.26 | 2.76***<br>1.89-4.04 | 3.12***<br>2.14-4.55 | 2.54***<br>1.89-3.42 |
|                 | <b>Victim of personal crime:</b><br><br>Percentage of people aged 18 years and over who report having been the victim of violence in last year <sup>x</sup> | D       |                      | 10%                  | 7%                   | 7%                   | 5%                   | 6%                   | 6%                   | 7%                   | 3%                   | 4%                   | 5%                   |
|                 |   | Not     |                      | 3%                   | 2%                   | 2%                   | 3%                   | 2%                   | 3%                   | 3%                   | 2%                   | 2%                   | 2%                   |
|                 |   | OR/p CI |                      | 3.55***<br>2.17-5.80 | 3.20***<br>1.91-5.36 | 2.89***<br>1.68-4.95 | 1.74*<br>1.02-2.97   | 2.88***<br>1.64-5.04 | 2.36**<br>1.43-3.89  | 2.47**<br>1.40-4.35  | 1.51<br>0.77-2.96    | 2.43*<br>1.30-4.56   | 2.65***<br>1.54-4.56 |
|                 | <b>Victim of household crime:</b><br><br>% of people aged 18+ reporting being victim of property crime in last year <sup>xi</sup>                           | D       |                      | 12%                  | 10%                  | 7%                   | 7%                   | 6%                   | 8%                   | 6%                   | 7%                   | 4%                   | 5%                   |
|                 |   | Not     |                      | 10%                  | 8%                   | 8%                   | 7%                   | 6%                   | 5%                   | 5%                   | 5%                   | 5%                   | 5%                   |
|                 |   | OR/p CI |                      | 1.29<br>0.86-1.92    | 1.16<br>0.78-1.72    | 0.81<br>0.50-1.31    | 1.02<br>0.66-1.59    | 0.94<br>0.56-1.57    | 1.61*<br>1.05-2.45   | 1.09<br>0.61-1.95    | 1.40<br>0.87-2.27    | 0.77<br>0.42-1.42    | 1.07<br>0.67-1.72    |



|   |   |      |           |           |            |           |            |            |            |            |            |            |            |
|---|---|------|-----------|-----------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|
| <b>Multiple &amp; entrenched disadvantage</b> | <b>Multiple disadvantage:</b>   | D    | 16%       | 16%       | 13%        | 12%       | 14%        | 14%        | 10%        | 17%        | 7%         | 8%         | 12%        |
|   |   | Not  | 5%        | 4%        | 4%         | 4%        | 3%         | 3%         | 3%         | 2%         | 2%         | 2%         | 2%         |
|   | Three or more of six selected areas of disadvantage (covering income, work, health, education, safety & support) <sup>xii</sup> | OR/p | 3.65***   | 4.54***   | 3.21***    | 3.31***   | 4.93***    | 5.03***    | 4.40***    | 8.88***    | 3.44***    | 5.12***    | 5.39***    |
|   |   | CI   | 2.62-5.10 | 3.03-6.81 | 2.18-4.72  | 2.19-5.01 | 3.30-7.38  | 3.31-7.66  | 2.92-6.63  | 5.61-14.06 | 2.05-5.76  | 8.62       | 3.65-7.97  |
|   | <b>Multiple disadvantage (excluding health):</b>  | D    | 11%       | 10%       | 8%         | 8%        | 8%         | 10%        | 6%         | 12%        | 6%         | 4%         | 8%         |
|   |   | Not  | 4%        | 3%        | 3%         | 4%        | 2%         | 2%         | 2%         | 1%         | 2%         | 1%         | 2%         |
|   | Three or more of five selected areas of disadvantage (covering income, work, education, safety & support, but excluding health) | OR/p | 2.70***   | 3.30***   | 2.70***    | 2.39***   | 3.41***    | 4.89***    | 3.22***    | 9.07***    | 3.82***    | 3.34**     | 4.13***    |
|   |   | CI   | 1.85-3.96 | 2.04-5.31 | 1.70-4.31  | 1.49-3.85 | 2.08-5.60  | 2.98-8.03  | 1.97-5.28  | 5.22-15.78 | 2.09-6.99  | 1.73-6.47  | 2.59-6.57  |
|   |   | D    |           | 9%        | 7%         | 8%        | 12%        | 16%        | 6%         | 14%        | 8%         | 4%         | 5%         |
|   |   | Not  |           | 2%        | 2%         | 2%        | 2%         | 1%         | 1%         | 2%         | 1%         | 1%         | 1%         |
|   |   | OR/p |           | 4.81***   | 4.93***    | 4.24***   | 7.19***    | 12.62***   | 6.68***    | 9.77***    | 5.89*      | 5.87***    | 6.87***    |
|   |   | CI   |           | 2.57-9.00 | 2.42-10.05 | 1.96-9.14 | 3.37-15.35 | 5.19-30.70 | 2.11-21.12 | 3.14-30.40 | 1.28-27.06 | 2.56-13.45 | 3.14-15.03 |
|   |   | D    |           | 4%        | 5%         | 5%        | 7%         | 8%         | 3%         | 14%        | 7%         | 3%         | 4%         |
|   |   | Not  |           | 2%        | 1%         | 2%        | 2%         | 1%         | 1%         | 1%         | 1%         | 1%         | 1%         |
|   |   | OR/p |           | 2.44*     | 3.90**     | 2.75*     | 4.15**     | 9.96***    | 3.85       | 14.73***   | 5.92*      | 5.62**     | 7.10***    |
|   |   | CI   |           | 1.08-5.51 | 1.71-8.91  | 1.16-6.65 | 1.71-10.05 | 3.19-31.15 | 0.91-16.34 | 4.14-52.38 | 1.29-27.19 | 2.15-14.69 | 2.91-17.30 |

|                                    |   |      |           |            |           |            |            |            |            |            |            |            |
|------------------------------------|---|------|-----------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|
| Multiple & entrenched disadvantage | <b>Entrenched multiple disadvantage:</b><br><br>As above for 2 consecutive years                    | D    | 9%        | 7%         | 8%        | 12%        | 16%        | 6%         | 14%        | 8%         | 4%         | 5%         |
|                                    |   | Not  | 2%        | 2%         | 2%        | 2%         | 1%         | 1%         | 2%         | 1%         | 1%         | 1%         |
|                                    |   | OR/p | 4.81***   | 4.93***    | 4.24***   | 7.19***    | 12.62***   | 6.68***    | 9.77***    | 5.89*      | 5.87***    | 6.87***    |
|                                    |   | CI   | 2.57-9.00 | 2.42-10.05 | 1.96-9.14 | 3.37-15.35 | 5.19-30.70 | 2.11-21.12 | 3.14-30.40 | 1.28-27.06 | 2.56-13.45 | 3.14-15.03 |
|                                    | <b>Entrenched Multiple disadvantage (excluding health):</b><br><br>As above for 2 consecutive years | D    | 4%        | 5%         | 5%        | 7%         | 8%         | 3%         | 14%        | 7%         | 3%         | 4%         |
|                                    |   | Not  | 2%        | 1%         | 2%        | 2%         | 1%         | 1%         | 1%         | 1%         | 1%         | 1%         |
|                                    |   | OR/p | 2.44*     | 3.90**     | 2.75*     | 4.15**     | 9.96***    | 3.85       | 14.73***   | 5.92*      | 5.62**     | 7.10***    |
|                                    |   | CI   | 1.08-5.51 | 1.71-8.91  | 1.16-6.65 | 1.71-10.05 | 3.19-31.15 | 0.91-16.34 | 4.14-52.38 | 1.29-27.19 | 2.15-14.69 | 2.91-17.30 |

D = Disabled young people

Not = Non-disabled young people

OR = Odds ratio

CI = Confidence interval

\* p<0.05, \*\* p<0.01, \*\*\* p<0.001

- i. ASIB indicator is age range 15-64
- ii. ASIB indicator is 'in the last three months'
- iii. ASIB indicator yet to be defined
- iv. ASIB indicator based on 5 or more out of 15 items
- v. ASIB indicator also based on employment rate of people with mental health problems
- vi. ASIB indicator uses variety of scales and reporting methods
- vii. ASIB indicator based on support from 'persons living outside the household'
- viii. ASIB indicator based on people reporting that 'they have a say in the community on issues that are important to them'
- ix. ASIB indicator based on 'feeling unsafe at home alone or in their local community at night (excluding family violence)'
- x. ASIB indicator based on set of specific crimes
- xi. ASIB indicator based on set of specific crimes
- xii. Some minor changes made to two of the constituent indicators

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## FACULTY OF HEALTH SCIENCES



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