

NATIONAL CENTRE FOR
VOCATIONAL EDUCATION RESEARCH
CONFERENCE PAPER

Are we there yet? Overview of the Longitudinal Surveys of Australian Youth

Tom Karmel

NATIONAL CENTRE FOR
VOCATIONAL EDUCATION RESEARCH

Presented at the Longitudinal Surveys
of Australian Youth research forum:
Are We There Yet? Youth Transitions in Australia
Sydney, 2013



Are we there yet? Overview of the Longitudinal Surveys of Australian Youth

Tom Karmel

*Presented at the Longitudinal Surveys of Australian Youth research
forum: Are We There Yet? Youth Transitions in Australia*

11 April 2013, Sydney

NATIONAL CENTRE FOR VOCATIONAL
EDUCATION RESEARCH
CONFERENCE PAPER

The views and opinions expressed in this document are those of the author and do not necessarily reflect the views of the Australian Government or state and territory governments.

© National Centre for Vocational Education Research, 2013



With the exception of cover design, artwork, photographs, all logos, and any other material where copyright is owned by a third party, all material presented in this document is provided under a Creative Commons Attribution 3.0 Australia <creativecommons.org/licenses/by/3.0/au>.

This document should be attributed as Karmel, T 2013, *Are we there yet? Overview of the Longitudinal Surveys of Australian Youth*, NCVER, Adelaide.

The National Centre for Vocational Education Research (NCVER) is an independent body responsible for collecting, managing and analysing, evaluating and communicating research and statistics about vocational education and training (VET).

NCVER's inhouse research and evaluation program undertakes projects which are strategic to the VET sector. These projects are developed and conducted by NCVER's research staff and are funded by NCVER. This research aims to improve policy and practice in the VET sector.

TD/TNC 112.01

Published by NCVER, ABN 87 007 967 311

Level 11, 33 King William Street, Adelaide, SA 5000
PO Box 8288 Station Arcade, Adelaide SA 5000, Australia

P +61 8 8230 8400 F +61 8 8212 3436 E ncver@ncver.edu.au W <www.ncver.edu.au>

ABOUT THE RESEARCH

Are we there yet? Overview of the Longitudinal Surveys of Australian Youth

Tom Karmel

This presentation opened the Longitudinal Surveys of Australian Youth research forum entitled Are We There Yet? Youth Transitions in Australia held at the Australian National Maritime Museum, Sydney, on 11 April 2013. It begins with the observation that youth longitudinal surveys have a long history in Australia, dating back to the Youth in Transition study which commenced with a cohort of young people born in 1961. The latest incarnation is the Longitudinal Surveys of Australian Youth (LSAY) which has tracked cohorts of Year 9 students selected in 1995, 1998, 2003, 2006 and 2009. These young people are interviewed over a period of ten years, between the ages of 15 and 25 years.

I argue that the interest in youth transitions dates back to the 1970s when the oil price shocks increased the unemployment rate significantly. Young people leaving education are new entrants to the labour market and therefore inevitably were hit hard by the downturn in the labour market. While the overall unemployment rate has fluctuated, it has never returned to the levels of the 1960s and youth unemployment remains an issue. Hence the interest in youth transitions.

One would have thought that, with over 35 years of research, we would know everything there is to know about youth transitions. But over the past 35 years the labour market has changed fundamentally, with educational participation increasing dramatically and a paucity of 'good' jobs for those without Year 12 and, increasingly, post-school qualifications. The world facing 20-year-olds today is not the same as the world of the 1970s. Thus, understanding youth transitions is an ongoing issue and will continue to be so unless the world we live in stagnates. Researchers will not run out of topics.

In the presentation I also make an attempt to map the breadth of topics being researched and how they have changed over the past 25 years. A bonus is a long list of research papers that look at the longitudinal youth data.

Tom Karmel
Managing Director, NCVET

CONTENTS

Tables and figures	6
Are we there yet? Overview of the Longitudinal Surveys of Australian Youth	7
References	15
Appendix: List of LSAY data-based research	17

TABLES AND FIGURES

Tables

1	Cohorts of the longitudinal surveys of Australian youth	8
2	Program of Are we there yet? Youth transitions in Australia	15

Figures

1	Unemployment rate, Australia	9
2	Unemployment rate by year (August figure) 15 to 19-year-olds	10
3	Unemployment rate by year (August figure) 20 to 24-year-olds	10
4–7	Full-time education to population and full-time employment to population percentages, 15 to 19 and 20 to 24-year-olds by gender, 1986–2012	11
8	1985–1995 ‘word map’	13
9	1996–2005 ‘word map’	14
10	2006 onwards ‘word map’	14

ARE WE THERE YET? OVERVIEW OF THE LONGITUDINAL SURVEYS OF AUSTRALIAN YOUTH

The Longitudinal Surveys of Australian Youth (LSAY) follows young people from Year 9 through school and into work and life up to the age of 25 years. The program is funded by the Department of Education, Employment and Workplace Relations and is jointly managed by the Department and the National Centre for Vocational Education Research (NCVER).

The surveys provide a very rich set of data on background characteristics of the young person and his or her parents, school characteristics, educational participation and attainment and labour market activity, as well as topics such as aspirations and wellbeing. One element that makes it particularly valuable is the incorporation of reading and mathematics achievement tests at around the age of 15 years. (Since 2003 the test has been part of the Organisation for Economic Co-operation and Development [OECD] Programme for International Student Assessment [PISA] at the age of around 15 years.) The richness of the data allows the identification of the importance of various ‘treatment variables’ on various outcomes; the panel nature of the data provides an additional bonus by allowing unobserved time-invariant variables also to be taken into account. The richness of the data, its panel nature and the time element inherent in a longitudinal survey mean that analysis based on the data gives the best chance of establishing causal relationships. This is not to say that the dataset does not have its challenges. First, it is very complicated. Second, the survey suffers from substantial attrition over the various waves. The latter means that the dataset is more suited to establishing relationships than it is in providing precise point estimates of the proportion of the population with certain characteristics.

The surveys have a long heritage and can be traced back to the Youth in Transition studies beginning with a cohort of young people born in 1961. The surveys are a public treasure and are available to all researchers through the Australian Data Archive. Table 1 sets out the various cohorts. The various organisations who have played an important role should also be acknowledged, notably the Australian Council for Educational Research and the Bureau of Labour Market Research, as well as the Department of Education, Employment and Workplace Relations and its predecessors, and NCVER.

Table 1 Cohorts of the longitudinal surveys of Australian youth

Survey	Cohort(s)	Survey period	Age when first surveyed	Age range during survey period	Sample size
Youth in Transition Survey (YITS)	Born in 1961*	1978 to 1994	17 years	17 to 33 years	6 246
	Born in 1965*	1981 to 1995	16 years	16 to 30 years	6 628
	Born in 1970*	1985 to 1994	15 years	15 to 24 years	5 472
	Born in 1975	1989 to 1996	14 years	14 to 20 years	5 653
Australian Longitudinal Survey (ALS)	Long-term unemployed youth aged 15 to 24 years	1984 to 1987	15 to 24 years	15 to 24 years	≈3 000
	Young people aged 16 to 25 years	1985 to 1991	16 to 25 years	16 to 25 years	≈9 000
Australian Youth Survey (AYS)	Young people aged 16 to 19 years	1989 to 1996	16 to 19 years	16 to 26 years	5 350
	Young people aged 16^	1990	16 years		1 501
		1991	16 years		1 146
		1992	16 years		1 198
		1993	16 years		1 088
		1994	16 years		1 116
Longitudinal Surveys of Australian Youth (LSAY)	Year 9 in 1995	1995 to 2006	14.5 years	14.5 to 25.5 years (average)	13 613
	Year 9 in 1998	1998 to 2009	14.5 years	14.5 to 25.5 years (average)	14 117
	Aged 15 and participated in PISA [#]	2003 to 2014	15 years	15 to 25 years	10 370
	Aged 15 and participated in PISA	2006 to 2017	15 years	15 to 25 years	14 710
	Aged 15 and participated in PISA	2009 to 2020	15 years	15 to 25 years	14 251

Notes: *Follow-up survey of Australian Studies in School Performance samples.

^Added to original sample.

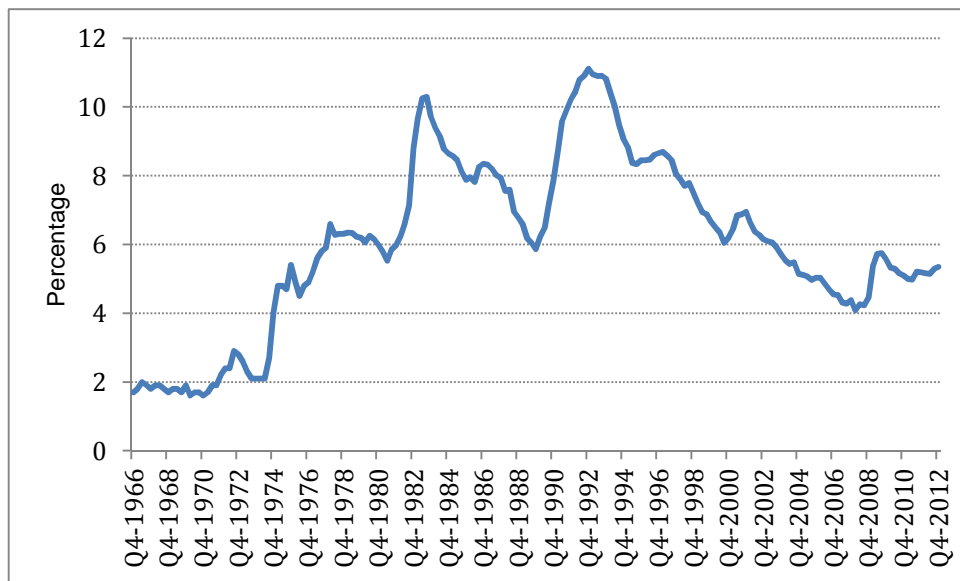
[#]Only includes those who were successfully contacted using follow-up telephone interviews at wave 1.

Sources: Australian Council for Educational Research (1997, 1996); Bureau of Labour Market Research (2005a, b); Department of Education, Employment and Workplace Relations (2013, 2012a, b, c, 2011); Nguyen et al. (2010); Thorn (2000).

The title of this forum is: Are We There Yet? Youth Transitions in Australia. Implicit in the title is a suggestion that after 35 years of research surely we understand everything there is to know about youth transitions. Nothing could be further from the truth.

I would first like to go back to the motivation behind the creation of this collection of surveys. If we go back to the 1960s the post-war experience in Australia is one of very low unemployment. The majority of young people did not complete Year 12 and jobs for school leavers were easy to obtain. Indeed, a young person could leave school before Year 12, enter a bank or the public service and begin a long and rewarding career. This all changed in the 1970s with two oil price shocks. As can be seen from figure 1, the first oil price shock caused the unemployment rate to jump from around 2% to 5%, with the rate increasing to over 6% in the second oil price shock. The point about this is that young people bear the immediate brunt of a downturn in the labour market because they are, virtually by definition, entrants into the labour market. Thus the first cohort of the Youth in Transition study were aged 15 in 1976 and the transitions of this group of young people were far more difficult than would have been the case ten years earlier.

Figure 1 Unemployment rate, Australia

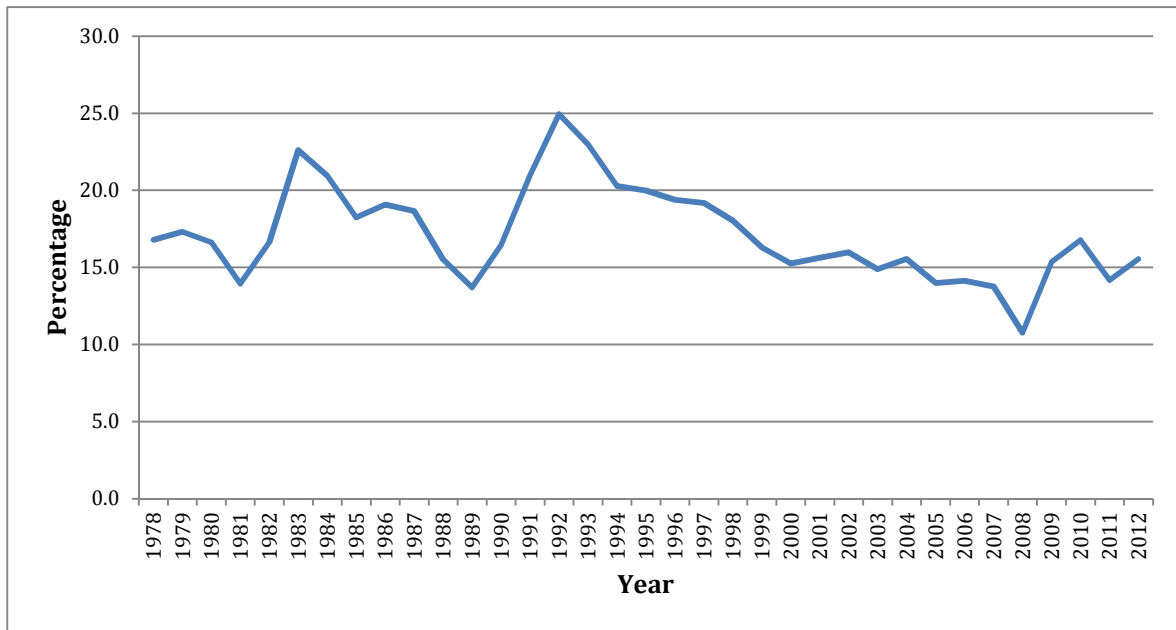


Note: Quarterly data are seasonally adjusted.
Source: OECD.StatExtract.

The recession in the early 1980s and the resulting sharp increase of the unemployment rate to over 10% in 1983 was the major driver behind the creation of the Bureau of Labour Market Research in the mid-1980s and the beginning of the Australian Youth Survey. Figure 1 also shows the impact of the recession in the early 1990s. Even a period of sustained economic growth did not reduce the unemployment rate to its levels of the 1960s. The point is that youth transitions have been occurring in unfriendly labour markets for 35 years. Hence government policy continues to struggle to address the challenges that young people have in making the transition from education to work.

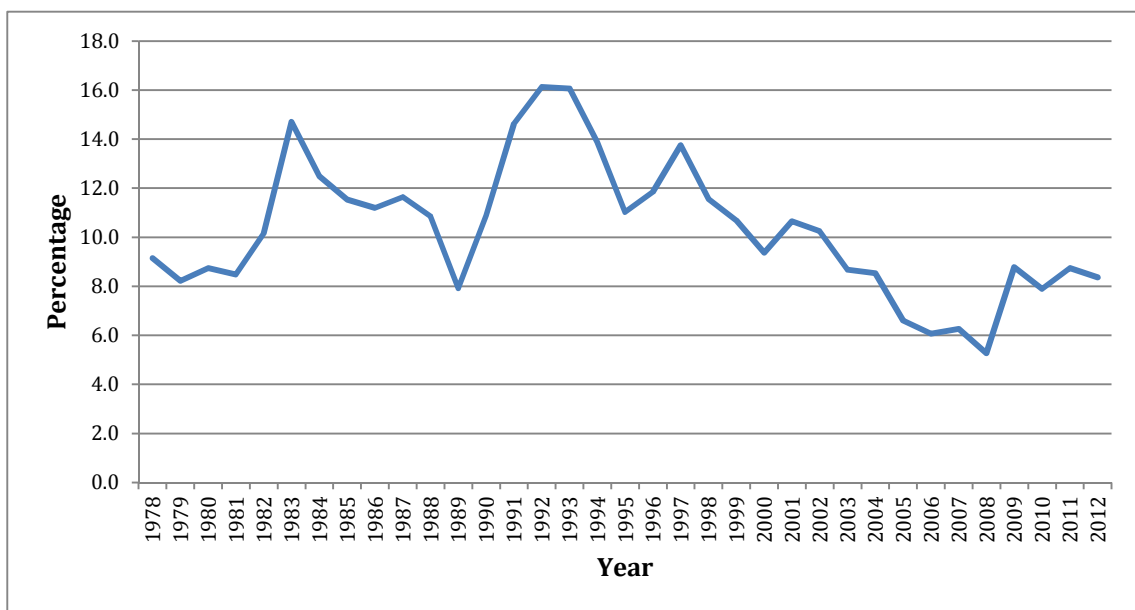
Figures 2 and 3 show that the youth unemployment rate has remained relatively high over the whole period, although there has been considerable cyclical variation. The figures also show that the peaks are amplified for young people, with the unemployment rate peaking for 15 to 19-year-olds at 25% (16% for 20 to 24-year-olds) in the early 1990s.

Figure 2 Unemployment rate by year (August figure) 15 to 19-year-olds



Source: Australian Bureau of Statistics (2013a).

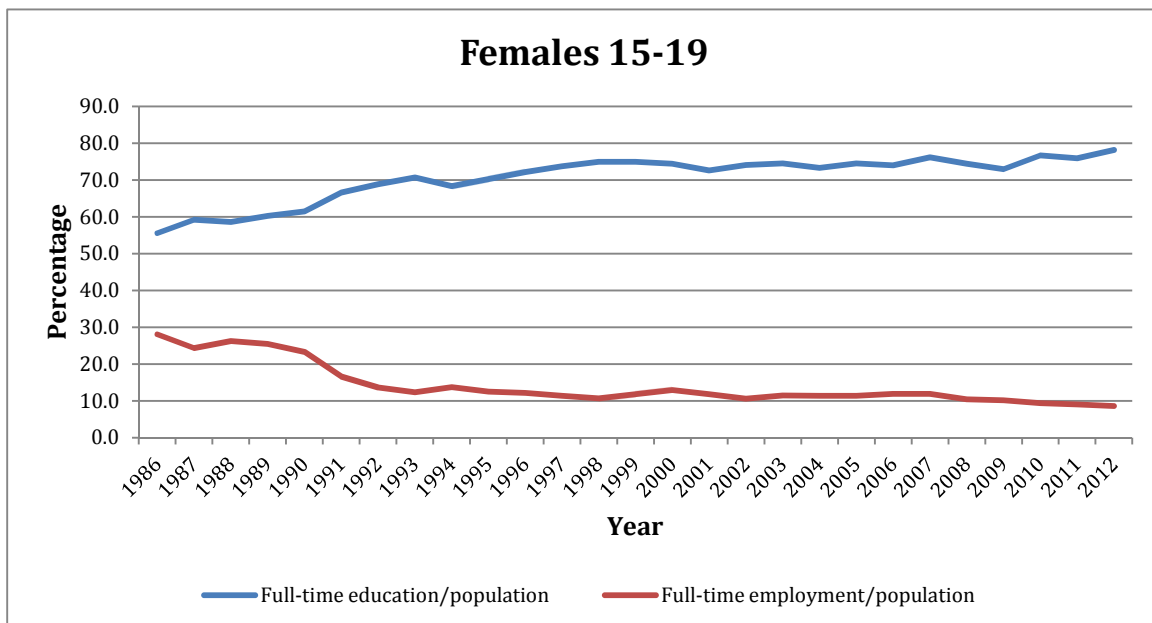
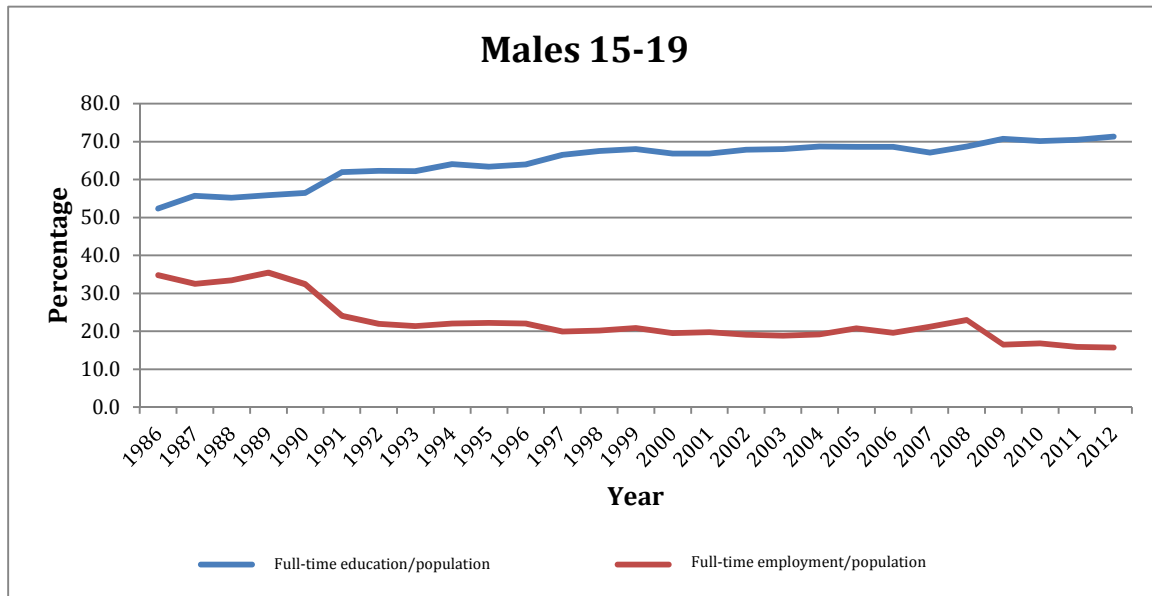
Figure 3 Unemployment rate by year (August figure) 20 to 24-year-olds

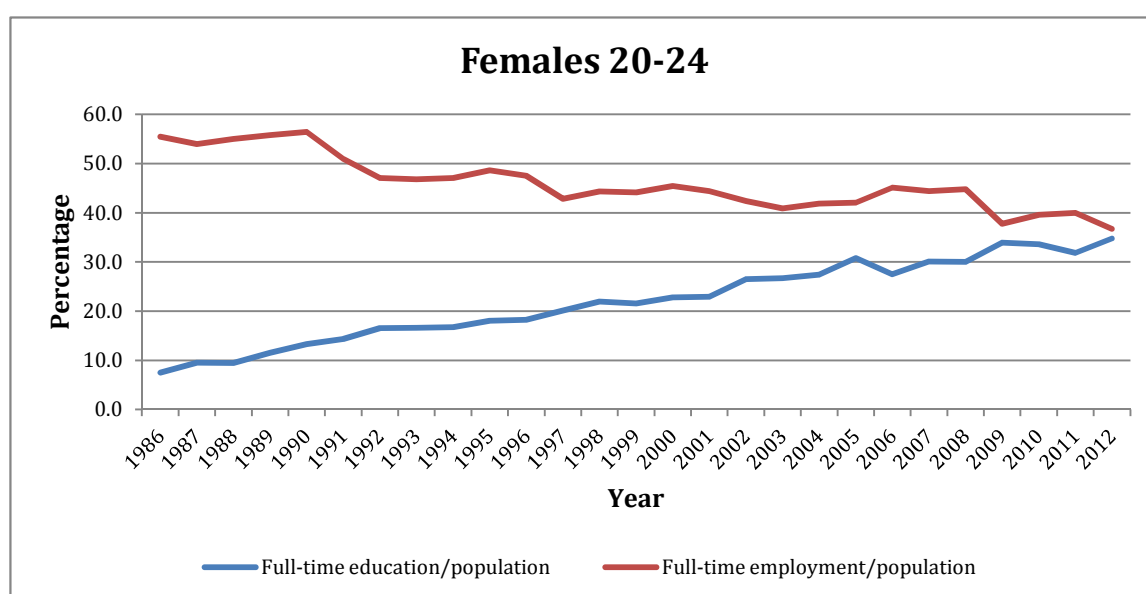
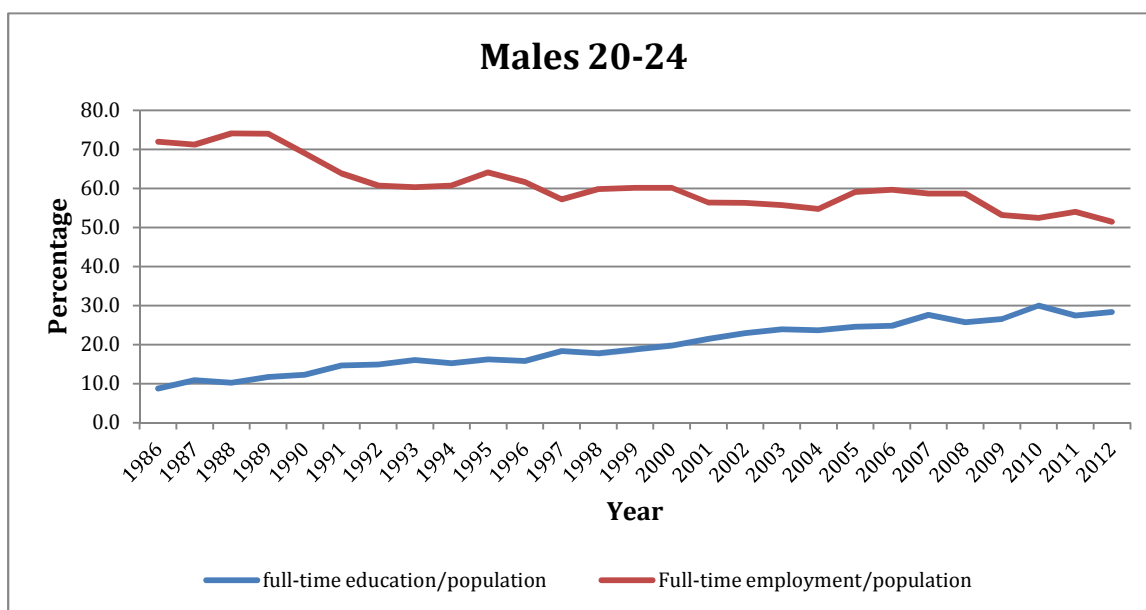


Source: Australian Bureau of Statistics (2013a).

The second reason why the issue of youth transition remains current and cannot be ‘researched out’ is that the world has changed significantly over this period. For young people, major changes include a dramatic increase in educational participation, not just to Year 12 but in post-school education, and a collapse of young people’s jobs (perhaps with the exception of jobs in the trades for young men). Figures 4–7 plot full-time educational participation rates and full-time employment to population ratios of young people.

Figures 4–7 Full-time education to population and full-time employment to population percentages, 15 to 19-year-olds and 20 to 24-year-olds by gender, 1986–2012





Source: Australian Bureau of Statistics (2013b)

Since the mid-1980s there has been a steady increase in educational participation, even though it is less marked for those aged 15–19 years. Most likely the level is getting close to saturation. Accompanying this increase is a decrease in full-time employment. We have seen that in 2012 the proportion of women aged 20–24 years in full-time education was almost at the level as the proportion in full-time work.

Other changes to occur include the increasing popularity of part-time work among full-time students and the phenomenon of gap years for those completing Year 12, not to mention the creation of traineeships in a wide range of occupations. As an aside, some of these changes have created an issue for the longitudinal youth surveys: age 25 now is really too young to consider that the transition phase in a young person's life is over. Ideally, we should now survey the cohorts until age 30 (although attrition as well as the expense is an issue).

In any case, the changing nature of education and the labour market means that many of the old issues require a fresh look, in addition to new issues that arise. Researchers do not need to fear that they will exhaust the lode.

To complete these opening remarks, and as a transition to the remainder of the forum, I thought it would be useful to examine some of the work done over the past 15 to 25 years. With assistance from the NCVER library I have obtained a list of all research papers making use of Australian longitudinal data. For the period from 1995 we extracted from NCVER's research database, VOCEDplus, all relevant papers. For the earlier period, 1985 to 1995, a Google Scholar search was undertaken to capture a sample of papers from this period. The resulting papers are listed in the appendix. While I make no claim for the list to be exhaustive, it is a pretty good sample.

From the list, I have extracted the topics of each paper and created three 'word maps' corresponding to 1985 to 1995, 1996 to 2005, and 2006 onwards. The word maps are shown in figures 8–10.

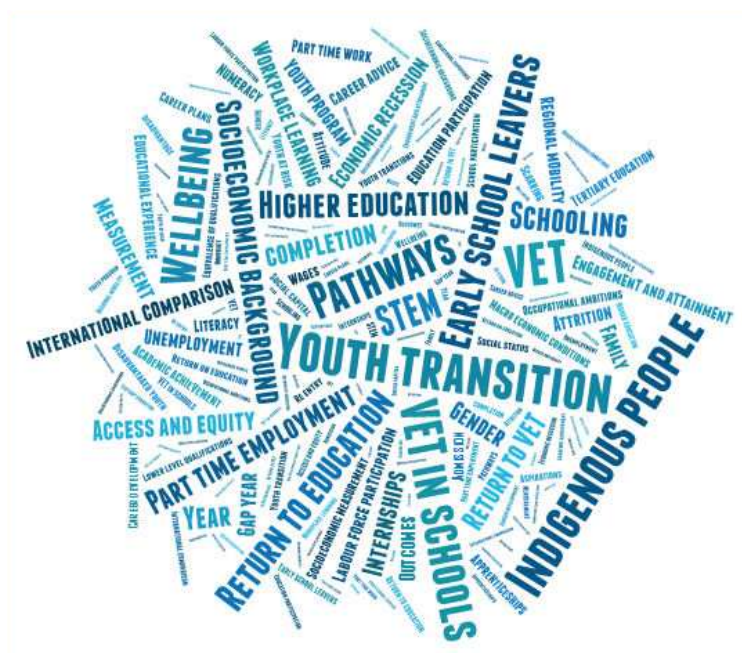
Figure 8 1985–1995 'word map'



Figure 9 1996–2005 ‘word map’



Figure 10 2006 onwards 'word map'



In the first period, unemployment and its various dimensions were particularly important. Participation in higher education was also a focus. In the second period we have a number of papers on early school leavers, youth transitions and part-time employment (generally associated with full-time education). Youth transitions remained a priority for the last period (with considerable work on pathways which has certain similarities) but there are some new focal points such as VET in schools and papers on Indigenous people. STEM (science, technology, engineering, mathematics) also featured in a number of papers. Of course, the key topics only form a small part of the overall work, and the breadth of topics is a feature in all periods. Indeed, an important creative aspect of research is looking at the obscure as well as the obvious.

This is all background to the forum, and I look forward to a spirited discussion on the rest of the program, as set out in table 2.

Table 2 Program of Are We There Yet? Youth Transitions in Australia

Session	Presenter	Discussant
Welcome and opening	Ms Nhi Nguyen, NCVER	
Are we there yet? Overview of the Longitudinal Surveys of Australian Youth	Dr Tom Karmel, NCVER	
School matters: understanding their impact	Mr Patrick Lim and Dr Sinan Gemici, NCVER	Mr Bill Scales AO, Chancellor of Swinburne University of Technology
What drives young people? Influencing student aspirations and engagement in education	Associate Professor Kristy Muir, Social Policy Research Centre, University of New South Wales Dr Sinan Gemici, NCVER	
Who takes a gap year and why?	Associate Professor David Curtis, Flinders University	Mr John Ross, <i>The Australian</i> Ms Talia Smith Mr Joshua McLarty
All about the money: young people and their financial position	Associate Professor Chris Ryan, Melbourne Institute of Applied Economic and Social Research, The University of Melbourne Ms Nhi Nguyen, NCVER	Professor Kwong Lee Dow AO, Honorary Fellow, The University of Melbourne
Panel discussion Mapping the journey to adulthood: heading in the right direction?	Facilitated by Mr Paul Barclay, ABC Radio National (session will be recorded for the ABC radio program <i>Big Ideas</i>)	Mr Bill Scales AO, Chancellor of Swinburne University of Technology Associate Professor Kristy Muir, Social Policy Research Centre, University of New South Wales Dr Tom Karmel, NCVER Professor John Buchanan, Workplace Research Centre, University of Sydney Business School
Closing remarks	Ms Nhi Nguyen, NCVER	

REFERENCES

- Australian Bureau of Statistics 2013a, *Labour Force, Australia, Detailed* – electronic delivery, February 2013, table 1, cat.no.6291.0.55.001.
- 2013b, *Labour Force, Australia, Detailed* – electronic delivery, February 2013, tables 1, 3b and 3c, cat.no.6291.0.55.001.
- Australian Council for Educational Research 1997, *The Australian Youth Survey description*, LSAY technical paper no.7, ACER, Melbourne.
- 1996, *Overview of the Longitudinal Surveys of Australian Youth Program*, LSAY technical paper no.2, ACER, Melbourne.
- Bureau of Labour Market Research 2005a, Australian Longitudinal Survey, 1984: wave 1, level 1 [computer file], Australian Data Archive, The Australian National University, Canberra.
- 2005b, Australian Longitudinal Survey, 1985: wave 1, level 2 [computer file], Australian Data Archive, The Australian National University, Canberra.

- Department of Education, Employment and Workplace Relations 2013, Longitudinal Surveys of Australian Youth, 2006 cohort, version 5.0 [computer file], Australian Data Archive, The Australian National University, Canberra.
- 2012a, Longitudinal Surveys of Australian Youth, 1995 cohort, version 3.0 [computer file], Australian Data Archive, The Australian National University, Canberra.
- Department of Education, Employment and Workplace Relations 2012b, Longitudinal Surveys of Australian Youth, 2003 cohort, version 5.0 [computer file], Australian Data Archive, The Australian National University, Canberra.
- 2012c, Longitudinal Surveys of Australian Youth, 2009 cohort, version 1.0 [computer file], Australian Data Archive, The Australian National University, Canberra.
- 2011, Longitudinal Surveys of Australian Youth, 1998 cohort, version 3.1 [computer file], Australian Data Archive, The Australian National University, Canberra.
- Nguyen, N, Cully, M, Anlezark, A & Dockery, AM 2010, A stocktake of the Longitudinal Surveys of Australian Youth, LSAY technical report no.59, NCVER, Adelaide.
- Thorn, W 2000, 'Transition Surveys in Australia', paper prepared for International Workshop on Comparative Data on Education to Work Transitions, June, Paris.

APPENDIX

List of LSAY data-based research¹

Title	Authors	Publication date	Keywords for word cloud
The Australian National Longitudinal Survey	McRae, I	1984	
The influence of unemployment duration and heterogeneity on the transition from unemployment for Australian youth	Brooks, C; Volker, P	1985	Unemployment duration
An analysis of factors influencing the probability of transition from unemployment to employment for Australian youth	Brooks, C	1986	Transition to employment
What happens to the young unemployed?: some facts from the Australian longitudinal survey	McRae, I	1986	Unemployment
Young employed and the search for work	Eyland, A	1986	Job searching
Long-term unemployed youth: who are they and do they improve their employment status?	McRae, I and Merrilees, W	1987	Long term unemployment
Participation in education	Williams, T	1987	Participation in education
Youth labour market in Australia: a survey of issues and evidence	Miller, P and Volker, P	1987	Labour market

¹ I would like to thank Radhika Naidu for compiling this list.

Title	Authors	Publication date	Keywords for word cloud
1989 Australian Youth Survey: first results	Australian Department of Employment, Education and Training, Economic and Policy Analysis Division (EPAD)	1991	Higher education; Employment; Unemployment
Labour market experience, education and training of young immigrants in Australia: an intergenerational study	Flatau, P and Hemmings, P	1991	Migration; Labour market; Immigrant; intergenerational mobility
An analysis of youth training in Australia 1985–88: technological changes and wages [paper in Youth in the eighties: papers from the Australian Longitudinal Survey research project]	Chapman, B and Tan, H	1992	Income; Technology; Training; Technological change
Career interruptions among young Australian men and women [paper in Youth in the eighties: papers from the Australian Longitudinal Survey research project]	Lewis, D and Shorten, B	1992	Career development; Career interruptions
Health consequences of employment and unemployment [paper in Youth in the eighties: papers from the Australian Longitudinal Survey research project]	Graetz, B	1992	Wellbeing; Employment; Unemployment; Health
Human capital investment and self-selection [paper in Youth in the eighties: papers from the Australian Longitudinal Survey research project]	Vella, F and Gregory, RG	1992	Workforce development; Career choice

Title	Authors	Publication date	Keywords for word cloud
Part-time employment and participation and retention in higher education [paper in Youth in the eighties: papers from the Australian Longitudinal Survey research project]	Wooden, M, Robertson, F, and Dawkins, P	1992	Part-time employment; Student retention; Participation; Higher education
Part-time employment: where does it lead? [paper in Youth in the eighties: papers from the Australian Longitudinal Survey research project]	McRae, I	1992	Part-time employment
Poverty in Australia: a study of the implications of education, household formation and the labour market experience of the young [paper in Youth in the eighties: papers from the Australian Longitudinal Survey research project]	Bell, DNF, Rimmer, R and Rimmer, S	1992	Disadvantaged; Outcomes of education and training; Socioeconomic background; Poverty; Household formation
Predicting the long-term unemployed: a primer for the Commonwealth Employment Service [paper in Youth in the eighties: papers from the Australian Longitudinal Survey research project]	Chapman, B and Smith, P	1992	Labour market; Long term unemployment
Some recent governmental uses of the National Longitudinal Surveys (NLS) [paper in Youth in the eighties: papers from the Australian Longitudinal Survey research project]	Pergamit, MR	1992	Governance; Public policy
The dynamics of underutilisation of youth labour [paper in Youth in the eighties: papers from the Australian Longitudinal Survey research project]	Ross, R	1992	Labour market; Youth transition

Title	Authors	Publication date	Keywords for word cloud
The dynamics of youth unemployment: a preliminary analysis of recurrent unemployment [paper in Youth in the eighties: papers from the Australian Longitudinal Survey research project]	Junakar, PN and Wood, M	1992	Unemployment
The effect of child care costs on women's market work [paper in Youth in the eighties: papers from the Australian Longitudinal Survey research project]	Teal, F	1992	Family; Employment; Gender; Finance; Child care; Gender
The relationship between gender roles and female labour market performance [paper in Youth in the eighties: papers from the Australian Longitudinal Survey research project]	Vella, F	1992	Gender; Labour market
Young entrepreneurs in Australia and the United States [paper in Youth in the eighties: papers from the Australian Longitudinal Survey research project]	Blanchflower, DG and Mayer, B	1992	Self employed
Youth in the eighties: papers from the Australian Longitudinal Survey research project	Gregory, RG and Karmel, T	1992	Labour market; Employment
Entering higher education in the 1980s	Williams, T, Long, M, Carpenter, P and Hayden, M	1993	Higher education
Year 12 in the 1980s	Williams, T, Long, M, Carpenter, P and Hayden, M	1993	Secondary education; Year 12 completion
Graduating from higher education	Long, M, Carpenter, P and Hayden, M	1995	Higher education; Destinations

Title	Authors	Publication date	Keywords for word cloud
Where do they go?: an evaluation of sources of data used for the monitoring of students' destinations and other educational outcomes in Australia	Lamb, S , Polesel, J, Teese, R, Davies, M and Charlton, M	1995	Outcomes of education and training; Student definitions
Completing school in Australia: trends in the 1990s	Lamb, S	1996	Student retention; Student attrition; Year 12 completion
Part-time youth employment and training: evidence from the Australian Youth Survey	Flatau, P and Simpson, M	1996	Part-time employment
School students and part-time work	Robinson, L	1996	Part-time employment
Selected data from the Youth in Transition study [paper appearing in appendix of 'Student pathways: a review and overview of national databases on gender equity']	Long, M and Perry, L	1996	Gender; Post secondary education; Articulation; Gender; Equity
Reading comprehension and numeracy among junior secondary school students in Australia	Marks, GN and Ainley, J	1997	Literacy, Numeracy
School achievement and initial education and labour market outcomes	Lamb, S	1997	Academic achievement; Outcomes; Employment; Socioeconomic background
Access and equity in vocational education and training: results from longitudinal surveys of Australian youth	Lamb, S, Long, M and Malley, J	1998	Equity; Access to education and training; Access and equity
Attitudes to school life: their influences and their effects on achievement and leaving school	Marks, GN	1998	Students; Attitude; Schooling; Attitude to schooling

Title	Authors	Publication date	Keywords for word cloud
Factors influencing youth unemployment in Australia: 1980–1994	Marks, GN and Fleming, N	1998	Unemployment
Vocational education and training in Australia: an analysis of participation and outcomes using longitudinal survey data: final report	Lamb, S, Long, M and Malley, J	1998	VET; Outcomes
Well-being among young Australians: effects of work and home life for four youth in transition cohorts	Fleming, N and Marks, GN	1998	Wellbeing
Youth earnings in Australia 1980–1994: a comparison of three youth cohorts	Marks, GN and Fleming, N	1998	Income; Employment; Earnings
Curriculum and careers: the education and labour market consequences of Year 12 subject choice	Lamb, S and Ball, K	1999	Education work relationship; Careers; Subject choice
Early school leaving in Australia: findings from the 1995 Year 9 LSAY cohort	Marks, GN and Fleming, N	1999	Socioeconomic background; Early school leavers
Initial work and education experiences of early school leavers: a comparative study of Australia and the United States	Lamb, S and Rumberger, RW	1999	Early school leavers; Youth transition
Participation in education and training: 1980–1994	Long, M, Carpenter, PG and Hayden, M	1999	Training; Education participation
The effects of part-time work on school students	Robinson, L	1999	Part-time employment
The influence of school factors on young adult life	Ainley, J and McKenzie, P	1999	Dropout; Unemployment; Income; Youth at risk; Student retention

Title	Authors	Publication date	Keywords for word cloud
The measurement of socioeconomic status and social class in the LSAY project	Marks, GN, Australian Council for Educational Research (ACER)	1999	Socioeconomic background
Work experience and work placements in secondary school education	Fullarton, S	1999	Work experience
A comprehensive framework for indicators of the transition from initial education to working life: perspectives from the OECD thematic review	Sweet, R	2000	Youth transition
Early school leaving and 'non-completion' in Australia	Marks, GN and McKenzie, P	2000	Early school leavers
Labour market experiences of Australian youth	Australian Council for Educational Research (ACER)	2000	Education outcomes
Non-completion of school in Australia: the changing patterns of participation and outcomes	Lamb, S, Dwyer, PJ and Wyn, J	2000	Early school leavers
Pathways for youth in Australia	McKenzie, P	2000	Youth transition
Subject choice by students in Year 12 in Australian secondary schools	Fullarton, S and Ainley, J	2000	Subject choice
Using longitudinal data for research on VET	McKenzie, P	2000	
Views and influences: tertiary education, secondary students and their advisers	Harvey-Beavis, A and Robinson, L	2000	Advice

Title	Authors	Publication date	Keywords for word cloud
What are the vocational pathways of Australian school leavers?: a longitudinal study of interests and occupational destinations	Athanasou, JA	2000	Pathways
15-up and counting, reading, writing, reasoning ...: how literate are Australia's students?: the PISA 2000 survey of students' reading, mathematical and scientific literacy skills	Lokan, J, Greenwood, L and Cresswell, J	2001	Literacy; Numeracy
Does VET in schools make a difference to post-school pathways?	Fullarton, S	2001	VET in schools
Early school leavers: who are they, why do they leave, and what are the consequences?	Marks, GN and McMillan, J	2001	Early school leavers
Participation and achievement in VET of non-completers of school	Ball, K and Lamb, S	2001	VET completion
Pathways from school to work	McKenzie, P and Hillman, KJ	2001	Pathways
Patterns of participation in Year 12 and higher education in Australia: trends and issues	Marks, GN, Fleming, N, Long, M and McMillan, J	2001	Education participation
Patterns of success and failure in the transition from school to work in Australia	Lamb, S and McKenzie, P	2001	Transition
School non-completers: outcomes in vocational education and training (Conference paper)	Ball, K and Lamb, S	2001	Dropout; Participation; VET

Title	Authors	Publication date	Keywords for word cloud
School non-completers: outcomes in vocational education and training (Journal article)	Ball, K and Lamb, S	2001	VET; Early school leavers
Tertiary entrance performance: the role of student background and school factors	Marks, GN, McMillan, J, Hillman, KJ	2001	Socioeconomic background; School factors
The pathways from school to further study and work for Australian graduates	Lamb, S	2001	Pathways
VET in schools: participation and pathways	Fullarton, S	2001	
Work experience, work placements and part-time work among Australian secondary school students	Hillman, KJ	2001	Work experience; Part-time employment
Youth Allowance evaluation: summaries of survey findings	Australian Department of Family and Community Services (FACS)	2001	Student allowance
Achievement in literacy and numeracy by Australian 14 year-olds, 1975–1998	Rothman, S	2002	Literacy; Numeracy
Becoming an adult: leaving home, relationships and home ownership among Australian youth	Hillman, KJ and Marks, GN	2002	Youth transition
Education participation and outcomes by geographic location	Jones, RG	2002	Regional participation
Educational attainment in Australia: a cohort analysis	Le, AT and Miller, PW	2002	Educational attainment
Firm-based training for young Australians: changes from the 1980s to the 1990s	Long, M and Lamb, S	2002	On the job training

Title	Authors	Publication date	Keywords for word cloud
Neighbourhood effects and community spillovers in the Australian youth labour market	Andrews, D, Green, C and Mangan, J, Australian Council for Educational Research (ACER)	2002	Neighbourhood effects
Pathways for youth in Australia	McKenzie, P	2002	
Rural and urban differences in Australian education	Hillman, KJ, Marks, G and McKenzie, P	2002	Regional participation
Student engagement with school: individual and school-level influences	Fullarton, S	2002	Student engagement
Submission to the House of Representatives Standing Committee on Education and Training inquiry into vocational education in Australian schools	Australian Department of Education, Science and Training (DEST)	2002	VET in schools
The national report to Parliament on Indigenous education and training, 2001.	Australian Department of Education, Science and Training (DEST)	2002	Indigenous people
Vocational education and training: participation, achievement and pathways	Fullarton, S	2002	VET in schools; Youth transition
Workplace training: the experience of young Australian workers	Long, M	2002	Workplace learning
A 'causal' estimate of the effect of schooling on full-time employment among young Australians	Ryan, C	2003	Return to schooling
Active citizenship and the secondary school experience: community participation rates of Australian youth	Brown, K, Lipsig-Mumme, C and Zajdow, G	2003	Community participation

Title	Authors	Publication date	Keywords for word cloud
Barriers to participation: financial, educational and technological: a report into the barriers to societal participation among low-income Australians	Zappala, G	2003	Access and equity
Dynamics of the Australian youth labour market: the 1975 cohort, 1996–2000	Marks, GN, Hillman, KJ and Beavis, A	2003	Youth transition
Entering higher education in Australia	Australian Council for Educational Research (ACER)	2003	Higher education
Gender differences in educational and labour market outcomes	Hillman, KJ and Rothman, S	2003	Gender
How young people are faring: key indicators 2003, an update about the learning and work situation of young Australians including an analysis of how young Indigenous people are faring	Curtain, R, Dusseldorp Skills Forum (DSF), Australia and Aboriginal and Torres Strait Islander Services (ATSIS)	2003	Youth transition; Indigenous people
Influences on achievement in literacy and numeracy	Rothman, S and McMillan, J	2003	Literacy; Numeracy
Learning experience of students from low-income families	Considine, G and Watson, I	2003	Socioeconomic background; Learning experience
Patterns of participation in Year 12	Fullarton, S, Walker, M, Ainley, J and Hillman, KJ	2003	Year 12 completion
School leavers in Australia: profiles and pathways	McMillan, J and Marks, GN	2003	Youth transition

Title	Authors	Publication date	Keywords for word cloud
Staying longer at school and absenteeism: evidence from Australian research and the Longitudinal Surveys of Australian Youth	Rothman, S	2003	Absenteeism; Year 12 completion
Student workers in high school and beyond: the effects of part-time employment on participation in education, training and work	Vickers, M, Lamb, S and Hinkley, J	2003	Part-time employment
The SES of participants in post-secondary education: report to the National Centre for Vocational Education Research	Miller-Lewis, L	2003	Access and equity
Facing the future: a focus on mathematical literacy among Australian 15-year-old students in PISA 2003	Thomson, S, Cresswell, J, De Bortoli, L	2004	Numeracy
Post-school plans: aspirations, expectations and implementation, a report prepared for The Smith Family	Beavis, A, Murphy, M, Bryce, J and Corrigan, M	2004	Aspirations
School performance in Australia: results from analyses of school effectiveness, report for the Victorian Department of Premier and Cabinet	Lamb, S, Rumberger, RW, Jesson, D and Teese, R	2004	School performance
The job finding methods of young people in Australia: an analysis of the Longitudinal Surveys of Australian Youth, Year 9 (1995) sample	Dockery, M and Strathdee, R	2004	Job searching

Title	Authors	Publication date	Keywords for word cloud
What do we know about the experiences of Australian youth?: an easy reference guide to Longitudinal Surveys of Australian Youth research reports, 1996–2003	Penman, R	2004	Youth transition
Assessing the value of additional years of schooling for the non-academically inclined	Dockery, M	2005	Return to school
Attitudes, intentions and participation	Khoo, ST and Ainley, J	2005	Attitudes; Participation; Post compulsory education; Intentions
Course change and attrition from higher education	McMillan, J	2005	Attrition from higher education
Education and labour market outcomes for Indigenous young people	Rothman, S, Frigo, T and Ainley, J	2005	Indigenous people
Have school VET programs been successful?	Anlezark, A, Karmel, T and Ong, K	2005	VET in schools
Issues in the school-to-work transition: evidence from the Longitudinal Surveys of Australian Youth	Marks, GN	2005	Youth transition
Leaving school in Australia: early career and labour market outcomes	McMillan, J and Rothman, S	2005	Transition from education and training to employment; Outcomes; Employment; Youth transition
Lessons and challenges: vocational education in schools – research overview	Barnett, K and Ryan, R	2005	VET in schools

Title	Authors	Publication date	Keywords for word cloud
Life satisfaction of young Australians: relationships between further education, training and employment and general and career satisfaction	Hillman, KJ and McMillan, J, Australian Council for Educational Research (ACER)	2005	Wellbeing; Job satisfaction
Non-apprenticeship VET courses: participation, persistence and subsequent pathways	McMillan, J, Rothman, S and Wernert, N	2005	VET
Participation in and progress through apprenticeships	Ainley, J and Corrigan, M	2005	Apprenticeships
Pathways from school to further education or work: examining the consequences of Year 12 course choices	Thomson, S, Australian Council for Educational Research (ACER)	2005	Year 12 course choice
Pathways through TAFE: entry, progress and outcomes	Rothman, S and McMillan, J	2005	VET
Post-school education and training pathways to age 20	Rothman, S	2005	Pathways
The first year experience: the transition from secondary school to university and TAFE in Australia	Hillman, KJ	2005	Transition from secondary to further education and training
Unmet demand?: characteristics and activities of university applicants not offered a place	Marks, GN	2005	Higher education; Participation; Students; Access to education and training
Year 12 subjects and further study	Ainley, J	2005	Transition from secondary to further education and training
Young people outside the labour force and full-time education: activities and profiles	Hillman, KJ, Australian Council for Educational Research (ACER)	2005	Labour force participation; Unemployed
Have school vocational education and training programs been successful?	Anlezark, A, Karmel, T and Ong, K	2006	VET in schools; Outcomes

Title	Authors	Publication date	Keywords for word cloud
How young people are faring 2006: key indicators, an update about the learning and work situation of young Australians	Long, M	2006	Youth transition
Inter-sectoral transfers: sense, status, prevalence and purpose	Curtis, DD	2006	Pathways
Post-compulsory VET sector participation: who benefits?	Curtis, DD	2006	Return to VET
The Brotherhood's Social Barometer: challenges facing Australian youth	Boese, M and Scutella, R, Brotherhood of St Laurence	2006	Access and equity
The impact of additional educational qualifications for early school leavers	Gorgens, T and Ryan, C	2006	Early school leavers; Return to education
The transition to full-time work of young people who do not go to university	Marks, GN	2006	Youth transition
Variations in VET provision across Australian schools and their effects on student outcomes	Lamb, S and Vickers, M	2006	VET in schools
VET experiences: what the Longitudinal Surveys of Australian Youth tell us	Ainley, J, Curtis, DD, Rothman, S and McKenzie, P	2006	VET
A National Internship Scheme: discussion paper	Universities Australia	2007	Internships
Are youths on income support less happy?: evidence from Australia	Lee, WS and Oguzoglu, U	2007	Wellbeing

Title	Authors	Publication date	Keywords for word cloud
Australian young people, their families and post-school plans: a research review	Bryce, J, Anderson, M, Frigo, T and McKenzie, P	2007	Family; Pathways
Comparing the cost effectiveness of Australia's Work for the Dole with the UK's New Deal for Young People	Gu, J	2007	Youth program; Unemployment
Completing university: characteristics and outcomes of completing and non-completing students	Marks, GN	2007	Higher education; Attrition
Do schools matter for early school leaving?: individual and school influences in Australia	Marks, GN	2007	Early school leavers; schools
Hoops, hurdles and high jumps: physical activity and bodyweight among 17 year-olds	Underwood, C	2007	Wellbeing
It's crunch time: raising youth engagement and attainment: a discussion paper	Australian Industry Group and Dusseldorp Skills Forum (DSF)	2007	Engagement and attainment
Lower certificates: participant profiles and outcomes	Curtis, DD	2007	VET; Socioeconomic background
Men not at work: an analysis of men outside the labour force	Lattimore, R	2007	Labour force participation; Gender
Movement of non-metropolitan youth towards the cities	Hillman, KJ and Rothman, S, Australian Council for Educational Research (ACER)	2007	Regional mobility
Pathways through vocational education and training for school leavers	Curtis, DD	2007	Youth transition; Pathways

Title	Authors	Publication date	Keywords for word cloud
Schooling and youth participation in education and society	Ainley, J and McKenzie, P	2007	Education participation
The role of VET in helping young people's transition into work: at a glance	Woods, D	2007	Youth transition
A 'formidable challenge': Australia's quest for equity in Indigenous education	Gray, J and Beresford, Q	2008	Indigenous people
A National Internship Scheme: enhancing the skills and work-readiness of Australian university graduates	Universities Australia	2008	Internships
Assessing institutional effectiveness: current practices and prospects for VET	Curtis, DD	2008	VET
Career advice in Australian secondary schools: use and usefulness	Hillman, KJ and Rothman, S	2008	Career advice
Exploring scientific literacy: how Australia measures up	Thomson, S and De Bortoli, L	2008	Literacy; Numeracy
From STEM to leaf: where are Australia's science, mathematics, engineering and technology (STEM) students heading?	Anlezark, A, Lim, P, Semo, R and Nguyen, N	2008	STEM
How young people are faring '08: an update about the learning and work situation of young Australians	Lamb, S and Mason, K	2008	Youth transition
Initial educational experiences of tertiary students	Hillman, KJ	2008	Educational experience

Title	Authors	Publication date	Keywords for word cloud
Part time employment: the Australian experience	Abhayaratna, J, Andrews, L, Nuch, H and Podbury, T	2008	Part-time employment
School experiences of 15 and 16 year-olds	Underwood, C and Rothman, S	2008	Schooling
School non-completers: profiles and initial destinations	Curtis, DD and McMillan, J	2008	Early school leavers
The occupations and earnings of young Australians: the role of education and training	Australian Council for Educational Research (ACER)	2008	Return to education
University study in Australia: persistence, completion and beyond	McMillan, J, Australian Council for Educational Research (ACER)	2008	Higher education
VET pathways taken by school leavers	Curtis, DD	2008	VET; Pathways
X, Y and Z: three decades of education, employment and social outcomes of Australian youth	Rothman, S and Hillman, KJ	2008	Youth transition
Adolescent overload?: report of the Inquiry into Combining School and Work: supporting successful youth transitions	Bird, S	2009	Part-time work
Improving selection for tertiary education places in Victoria	James, R, Bexley, E and Shearer, M	2009	Tertiary education; Admission
Jobs for youth = Des emplois pour les jeunes: Australia	Organisation for Economic Co-operation and Development (OECD)	2009	
Participation in VET in schools	Coates, H and Rothman, S	2009	VET in schools

Title	Authors	Publication date	Keywords for word cloud
Participation in vocational education and training to age 24	Rothman, S	2009	VET
The education and employment outcomes of youth in school-to-work transition	Herault, N, Kostenko, W, Marks, GN and Zakirova, R, University of Melbourne, Melbourne Institute of Applied Economic and Social Research (MIAESR)	2009	Youth transition
The university gender gap in Australia: a long-run perspective	Booth, AL and Kee, HJ, Australian National University, Centre for Economic Policy Research (CEPR)	2009	Higher education; Gender
VET pathways into science, technology, engineering and maths occupations	Lim, P, Anlezark, A, Semo, R and Nguyen, N	2009	VET; STEM
Wage transitions of apprentices	Fok, YK and Tseng, YP, University of Melbourne, Melbourne Institute of Applied Economic and Social Research (MIAESR)	2009	Wages
A new scale for measuring socioeconomic status in educational research: development and validation of the Australian Socioeconomic Index 2006 (AUSEI06)	McMillan, J and Jones, F, Australian Association for Research in Education (AARE)	2010	Socioeconomic measurement
Against the odds: influences on the post-school success of 'low performers'	Thomson, S and Hillman, KJ	2010	Academic achievement; Youth transition
Annual transitions between labour market states for young Australians	Buddelmeyer, H and Marks, GN	2010	Youth transition

Title	Authors	Publication date	Keywords for word cloud
Apprenticeships and traineeships: participation, progress and completion	Ainley, J, Holden, S and Rothman, S	2010	Apprenticeships
Attitudes, intentions and participation in education: Year 12 and beyond	Hillman, KJ	2010	Attitude; Schooling
Early post-school outcomes of Indigenous young people: the role of literacy and numeracy	Nguyen, N	2010	Indigenous people;
Education and happiness in the school-to-work transition	Dockery, M	2010	Wellbeing; Youth transition
Interview with Michael Dockery on 'Education and happiness in the school-to-work transition'	Dockery, M and Davis, S, National Centre for Vocational Education Research (NCVER)	2010	
Making career development core business	Sweet, R, Volkoff, V, Watts, AG, Keating, Helme, S, Rice, S and Pannell, S	2010	Career development
Post-school education and labour force participation in Canada and Australia	Austen, S and MacPhail, F	2010	International comparison
Returns from education: an occupational status approach	Lee, JS	2010	Return to education
Returns to ambition: the role of early career plans in the transition from education to work	Sikora, J	2010	Career plans

Title	Authors	Publication date	Keywords for word cloud
The effects of macroeconomic conditions on the education and employment outcomes of youth	Herault, N, Kostenko, W, Marks, GN and Zakirova, R	2010	Macro economic conditions
The impact of VET in Schools on the intentions and achievements of young people	Nguyen, N	2010	VET in schools
The role of VET in preventing the scarring effect of youth joblessness	Buddelmeyer, H and Herault, N	2010	Scarring
Analysis of Year 12 or Certificate II attainment of Indigenous young people – stage 1: a report prepared for the Council of Australian Governments Reform Council	Ainley, J, Buckley, S, Beavis, A, Rothman, S and Tovey, A	2011	Indigenous people
Are we there yet?: making the successful transition to adulthood	Buddelmeyer, H and Marks, G	2011	Youth transition
At risk youth: a transitory state?	Anlezark, A	2011	Youth at risk
Does combining school and work affect school and post-school outcomes?	Anlezark, A and Lim, P	2011	
From education to employment: how long does it take?	Fitzpatrick, D, Lester, L, Mavromaras, K, Richardson, S and Sun, Y	2011	Youth transition
Lost talent?: the occupational ambitions and attainments of young Australians	Sikora, J and Saha, LJ	2011	Occupational ambitions
Measuring the socioeconomic status of Australian youth	Lim, P and Gemici, S	2011	Social status; Measurement

Title	Authors	Publication date	Keywords for word cloud
Outcomes from combining work and tertiary study	Polidano, C and Zakirova, R	2011	Part time work
Second chance education: re-engagement in education of early school leavers	Black, D, Polidano, C, Tabasso, D and Tseng, YP	2011	Re-entry; Early school leavers
Sheepskin effects in the returns to education: accounting for enrolment and completion effects	Herault, N and Zakirova, R	2011	Return on education
Social capital and young people	Semo, R	2011	Social capital
Socioeconomic status and the allocation of government resources in Australia: how well do geographic measures perform?	Lim, P, Gemici, S, Rice, J and Karmel, T	2011	Socioeconomic background; Measurement
Successful youth transitions	Liu, SH and Nguyen, N	2011	Youth transition
The effect of schools in retaining disadvantaged youth in education	Buddelmeyer, H, Hanel, B and Polidano, C	2011	Disadvantaged youth; School participation
The effect of VET completion on the wages of young people	Herault, N, Zakirova, R and Buddelmeyer, H	2011	Return to VET
The impact of VET in schools on young people's intentions and achievements	Nguyen, N	2011	VET in schools
The vocational equivalent to Year 12	Lim, P and Karmel, T	2011	Equivalence of qualifications
Trends in young people's wellbeing and the effects of the school-to-work transition	Nguyen, N	2011	Wellbeing; Youth transition

Title	Authors	Publication date	Keywords for word cloud
Using longitudinal data to investigate the influence of interest in science on the uptake of science studies	Ainley, J and Ainley, M	2011	STEM
Which paths work for which young people?	Karmel, T and Lui, SH	2011	Youth transition; Pathways
Year 12 completion and youth transitions	Ryan, C	2011	Year 12 completion
Year 12 completion and youth transitions: research overview	Karmel, T	2011	Year 12 completion
Young people in an economic downturn	Anlezark, A	2011	Economic recession
A fine balance: combining study and part-time work	Wilson, S	2012	Part-time employment
A second chance at education for early school leavers	Polidano, C, Tabasso, D and Tseng, YP	2012	Early school leavers
An investigation of wellbeing questions in the Longitudinal Surveys of Australian Youth	Stanwick, J and Liu, SH	2012	Wellbeing
Bridging the gap: who takes a gap year and why?	Curtis, DD, Mlotkowski, P and Lumsden, M	2012	Gap year
Does part-time work at school impact on going to university?	Gong, X, Cassells, R and Duncan, A	2012	Part-time employment
Doing well: helping young people achieve their potential	National Centre for Vocational Education Research (NCVER)	2012	Youth transition
How did young people fare in the 1990s economic downturn?	Vu, H, Gorgens, T and Bray, JR	2012	Economic recession

Title	Authors	Publication date	Keywords for word cloud
How young people are faring 2012	Robinson, L and Lamb, S	2012	Youth transition
Impacts of COAG reforms: business regulation and VET, Productivity Commission research report	Australian Productivity Commission	2012	Youth transition
Improving data collection and identifying effective labour market interventions for Indigenous peoples: scoping study	Bretherton, T, Evesson, J and Yu, S	2012	Indigenous people
Lower-level qualifications as a stepping stone for young people	Oliver, D	2012	Lower level qualifications; Youth transition
Outcomes from workplace learning in school-based vocational education	Black, D, Polidano, C and Tabasso, D	2012	Workplace learning
Peer mentoring of students in rural and low SES schools: increasing aspiration for higher education	Curtis, DD, Drummond, A, Halsey, J and Lawson, MJ	2012	Aspirations; Disadvantage
Potential factors influencing Indigenous education participation and achievement	Biddle, N and Cameron, T	2012	Indigenous people
School completion: what we learn from different measures of family background	Homel, J, Mavisakalyan, A, Nguyen, HT and Ryan, C	2012	Socioeconomic background; Year 12 completion
Second interim evaluation of the National Partnership on Youth Attainment and Transitions	Dandolopartners	2012	Youth transition
Senior secondary workplace learning and transition success in Australia	Gemici, S and Curtis, DD	2012	Workplace learning

Title	Authors	Publication date	Keywords for word cloud
The benefits of Indigenous education: data findings and data gaps	Hunter, B and Biddle, N	2012	Indigenous people
The composition of the STEMM workforce: rationale for differentiating STEMM professional and STEMM support careers	Miller, JD and Solberg, VS	2012	STEM
University access for disadvantaged children: a comparison across English speaking countries	Jerrim, J, Vignoles, A and Finnie, R	2012	Access and equity; international comparison
Who takes a gap year and why?	Lumsden, M and Stanwick, J	2012	Gap year
Youth transitions: what the research tells us	Circelli, M and Oliver, D	2012	Youth transition



National Centre for Vocational Education Research Ltd
Level 11, 33 King William Street, Adelaide, South Australia
PO Box 8288, Station Arcade, SA 5000 Australia
Telephone +61 8 8230 8400 Facsimile +61 8 8212 3436
Website www.ncver.edu.au Email ncver@ncver.edu.au