



Evaluating policy-relevant questions using existing data

COMPASS Research Centre



**COMPASS
RESEARCH CENTRE**

FACULTY OF ARTS
THE UNIVERSITY OF AUCKLAND

Whare Wānanga o Tāmaki Makaurau

9th. Research Colloquium
Statistics NZ, Conference Room
29 July 2015



**MINISTRY OF BUSINESS,
INNOVATION & EMPLOYMENT**
HIKINA WHAKATUTUKI

Colloquium Outline



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Whare Wānanga o Tāmaki Makaurau

10.00 Introduction – Peter Davis

10.15 Current research-funded projects

- ✦ The COMPASS “social laboratory” (RSNZ)
Professor Peter Davis
- ✦ A knowledge laboratory of the early life-course (MBIE)
Roy Lay-Yee, Senior Research Fellow
- ✦ Life-course predictors of mortality inequalities (HRC)
Dr. Barry Milne, Senior Research Fellow

12.30 LUNCH BREAK

13.15 Other contributions to the COMPASS work programme

- ✦ Income return of education among Asian New Zealanders
Liza Bolton, Doctoral Scholar
- ✦ Enhancing accessibility of quantitative data analysis skills
Martin von Randow, Research Officer
- ✦ The New Zealand Election Study (1990-2014)
Professor Jack Vowles, Victoria University Wellington

14.45 CONCLUSION

COMPASS – Key Facts



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Whare Wānanga o Tāmaki Makaurau

- ❑ 2000 - Research group in being
- ❑ 2008 - COMPASS formed
 - professional social science serving research & policy
 - Focus: advanced methods, policy application
- ❑ 2015 – Faculty review being undertaken
 - Submissions welcome
- ❑ Three work streams
 - Simulation
 - Data analysis
 - Research infrastructure

COMPASS 'Simulation' Portfolio



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Whare Wānanga o Tāmaki Makaurau

Model	Year	Locality	Type	Life stage	Domain	Software	Data	Funder	Collaborators	End-users
MOSC	2005-8	NZ	ABM/MSM	Adults	Marriage market, residential segregation	NetLogo Repast Java	Census	Marsden	UOA	
PCASO	2005-8	NZ	Static discrete-time MSM	Older people	Health care	SAS	NATMEDCA NZHS ANHS	HRC	UOA NatSem	
BCASO	2009-12	NZ	Dynamic discrete-time MSM	Older people	Health & social care	R	NZHS NZDS Census	HRC	UOA NatSem	
MEL-C	2009-13	NZ		Children	Health, education, conduct	Java R	CHDS DMDHS PIFS THNR Census2006	MBIE	UOA NatSem StatCan	MOE MOH MOJ MSD Te Puni Kokiri
KNOW-LAB	2013-16	World		Children & young people	Health, education, conduct, etc.		Published literature	MBIE	UOA StatCan	SUPERU Children's Commissioner
SOCLAB	2015-17	NZ		Whole society	Social	Modgen/ OpenM++	NZLC	Royal Society	UOA	Open-source modelling community
TPM	2015-20	NZ		Whole society	Social		Census	TEC	UOA MOTU	

LEGEND

Model	Data	Funder
MOSC: Modelling social change PCASO: Primary care in an ageing society BCASO: Balance of care in an ageing society MEL-C: Modelling the early life course KNOW-LAB: Knowledge laboratory SOC-LAB: NZ social laboratory TPM CORE: Te Punaha Matatini	NATMEDCA: National Primary Medical Care NZHS: NZ Health Survey NZDS: NZ Disability Survey ANHS: Australian National Health Survey CHDS: Christchurch Health & Development Study DMHDS: Dunedin Multidisciplinary Health & Development Study PIFS: Pacific Island Families Study THNR: Te Hoe Nuku Roa NZLC: NZ Longitudinal Census	HRC: Health Research Council MBIE: Ministry of Business, Innovation & Employment Royal Society: James Cook Fellowship TEC: Tertiary Education Commission
		Collaborators
		UOA: University of Auckland NatSem: National Centre for Social & Economic Modelling, University of Canberra StatCan: Statistics Canada MOTU: Motu Economic and Public Policy Research
		End-users
ABM: Agent based model MSM: Micro-simulation model		MOE: Ministry of Education, MOH: Ministry of Health MOJ: Ministry of Justice, MSD: Ministry of Social Development

New Zealand

The University of Auckland

COMPASS 'Data Analysis' Portfolio



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Project	Year	Scale	Domain	Data collection	Funder	Collaborators	Stakeholders
NZQHS	1998-2001	National	Hospital quality of care	National survey of hospitals	HRC	UOA	MOH DHBs
NATMEDCA	2001-2	National	Primary health care	National survey of GPs	HRC	UOA	MOH PHOs
HR	2004	National	Hospital performance trends	NMDS 1988-2001	HRC	UOA	MOH
FWWP	2002-7	National	Social indicator trends	Census 1981-2006	MBIE	UOA SNZ	SNZ
EHO	2008-11	National	Hospital performance trends	NMDS 2001-2009	HRC	UOA UOtago VUW	MOH DHBs
NZSEI	2011	National	Socio-economic measurement	Census 2006	COMPASS	UOA	SNZ
MORT	2014-7	National	Health	NZLC 1981-2006, deaths	HRC	UOA UOtago	SNZ MOH
Ngai Tahu	2014-16	Iwi	Social indicators	Census 1981-2013, official data sources	MBIE	UOA TRONT	Ngai Tahu

LEGEND

Project	Data	Funder
NATMEDCA: National Primary Medical Care NZQHS: NZ Quality of Healthcare Survey HR: Hospital Restructuring FWWP: Family & Whanau Wellbeing Project EHO: Enhancing Hospital Outcomes NZSEI: NZ Socio-economic Index MORT: Life-course predictors of mortality inequalities Ngai Tahu	NMDS: National Minimum Data Set NZLC: NZ Longitudinal Census	HRC: Health Research Council MBIE: Ministry of Business, Innovation & Employment
		Collaborators
	UOA: University of Auckland UOtago: University of Otago VUW: Victoria University, Wellington TRONT: Te Runanga o Ngai Tahu	
	Stakeholders	
	SNZ: Statistics NZ MOH: Ministry of Health DHB: District Health Boards PHO: Primary Health Organisation	

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COMPASS 'Research Infrastructure' Portfolio



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NZSSDS	From 2007	Data archiving & sharing	Website	TEC COMPASS	UOA	Research community
NZSSN	From 2005	Professionalization	Short courses	COMPASS	UOA	Research community
SOCIOL701	2005, 2010-2	Teaching research methods	Postgrad courses	UOA	UOA	Postgrad students
STATS740	From 2000					
POLSTUDS769	From 2013					
STATS705	From 2015					
Colloquia	Ongoing	Outreach	Annual event	COMPASS	SNZ	Research and policy communities
Seminar series	Ongoing	Outreach	Regular event	COMPASS	UOA	Research community
Summer Scholarship	Ongoing	Workforce development	Short research projects	UOA	UOA	Undergrad students
Postgraduate	Ongoing	Workforce development	Hons, Masters, PhD projects	UOA	UOA	Postgrad students
NZES	2011, 2014	Data collection of national significance	National survey	UOA EC AUT VUW COMPASS	UOA VUW	Research community
ISSP	2013, 2015	Data collection of international significance	National survey	UOA EUCNetwork	UOA VUW	Research community

LEGEND

Project

[NZSSDS: NZ Social Science Data Service](#)
[NZSSN: NZ Social Statistics Network](#)
SOC701:
STATS740:
POLSTUDS769:
[Colloquia](#)
[Seminar series](#)
[Student projects](#)
[NZES: NZ Election Study](#)
[ISSP: International Social Survey Programme](#)

Funder

UOA: University of Auckland
 TEC: Tertiary Education Commission
 EC: Electoral Commission
 AUT: Auckland University of Technology
 VUW: Victoria University, Wellington
 EUCNetwork: European Union Centres Network

Collaborators

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 SNZ: Statistics NZ
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