

Data Publishing and Discovery Service: from pilot to production



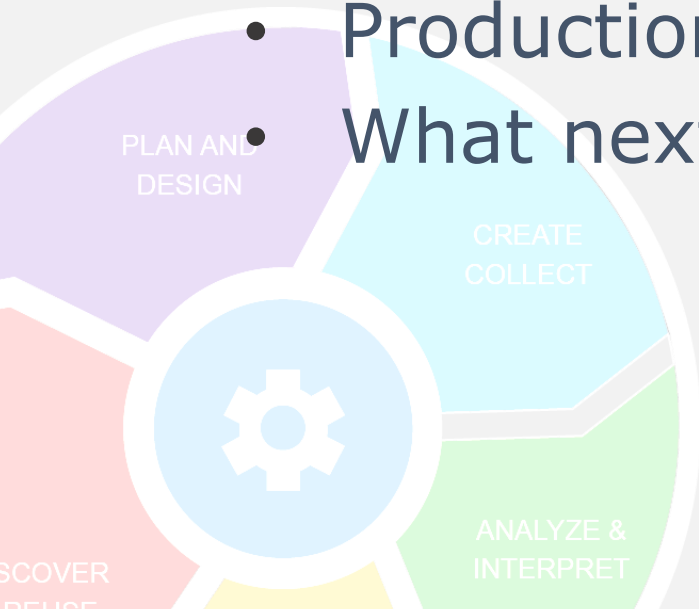
Laura Armstrong

Library and Learning Services, University of Auckland

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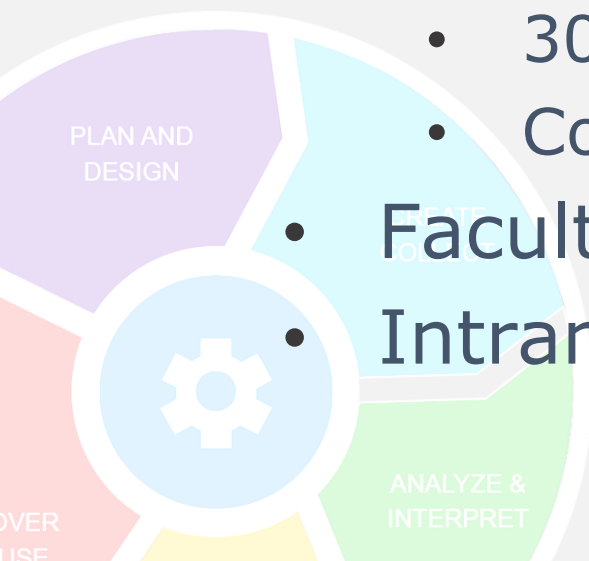

Overview

- University of Auckland
- Pilot
- Researcher benefit – key messages
- Champions
- Production - embedding
- What next?



Pilot (2015 – 2017)

- Centre for eResearch, ITS and Libraries and Learning Services - collaboration
- Storage
- Evolving RDM team
- Education and engagement
 - 30+ workshops, 400+ researchers
 - Consultations – groups, individuals
- Faculty structure
- Intranet news - VC

THE UNIVERSITY OF AUCKLAND
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NEW ZEALAND

Welcome to the Staff Intranet

News, Events and Notices

28 July 2017

Publish and share your research data

Do you want to cite your own research data in your thesis, manuscript, submission or grant application?

The University's Data Publishing and Discovery Service, or institutional research data repository, auckland.figshare.com, enables all researchers to share and publish their "research data".

Research funders and publishers are increasingly requiring researchers to publish their data; this service also supports researchers in meeting their institutional obligations for research data.

Publish your research data to increase research impact, facilitate collaboration and enable reproducibility.

auckland.figshare.com features:

- Self-service upload of files, regardless of format, for all staff and PhD candidates
- Publish publicly – Digital Object Identifier (DOI), indexed by Google
- Reserve DOIs or set embargo for future release
- Private, confidential, and metadata only record options
- Versioning – ability to update published files and support continuity of links
- Create Projects to enable sharing across research collaborations, internal and external to the University
- Collection – create a DOI for selected group of items
- 1000+ file types are supported for in-browser preview
- Social media links
- Track your impact – view, download, citation and altmetric metrics
- Integration with ORCID, GitHub
- Initial 10GB storage quota utilising ITS storage - local, secure, robust

Team effort

The auckland.figshare.com service is managed by the Centre for eResearch, hosted on storage provisioned by ITS and supported by Libraries and Learning Services.

Data publishing is part of a range of research data management services and support being developed and delivered across the research data lifecycle for the University's research community.

More information

- Staff Service Centre has a developing set of [knowledge articles about auckland.figshare.com](#), for example [What is Figshare and how do I access it?](#)
- Group presentations and demonstrations are available on request, please email researchdata@auckland.ac.nz
- Other postgraduate students may request upload access via researchdata@auckland.ac.nz

Laura Armstrong, Libraries and Learning Services, Vice-Chancellor Stuart McCutcheon, Lee Eriksen, Office of the Vice Chancellor and Yvette Wharton, Centre for eResearch.

RDM stakeholders





- Internal communication
- Understanding existing and developing services
- Identifying gaps

Retention - Code of Conduct for Research



4.4 Researchers should keep clear, accurate records of all research in ways that will allow **verification and replication** of their work by others and will evidence and support claims to and protection of intellectual property.

4.5. Researchers should **share data and findings openly** and as promptly as possible, ...

5.2 ... Researchers must comply with the University of Auckland Human Participants Ethics Committee Policy and all legal and other requirements for informed consent, privacy and confidentiality.

5.4. Researchers should **keep records** of all research in ways that will allow **verification and replication** of their work by others includes keeping clear, accessible and accurate records of the research methods, data sources (including original samples or materials where relevant) and software development, including any approvals granted, during and after the research process.

Researchers must also ensure that primary research records, such as [electronic] laboratory notebooks, are maintained and that they are kept in **safe and secure storage** even when not in current use.

Original research data should preferably be **kept indefinitely**. At an absolute minimum, research data should be kept for at least six years, but where research data form the basis of a patent, they should be kept for a minimum of 21 years from the date the patent application was filed. In cases where an ethics committee approval requires data to be kept for a specified minimum period, this must be adhered to. Data should be stored in a safe and secure location and manner.

RESEARCH ARTICLE

The New Zealand Indices of Multiple Deprivation (IMD): A new suite of indicators for social and health research in Aotearoa, New Zealand

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Abstract

For the past 20 years, the New Zealand Deprivation Index (NZDep) has been the universal measure of area-based social circumstances for New Zealand (NZ) and often the key social determinant used in population health and social research. This paper presents the first theoretical and methodological shift in the measurement of area deprivation in New Zealand since the 1990s and describes the development of the New Zealand Index of Multiple Deprivation (IMD).

We briefly describe the development before outlining the development of which uses routine datasets and indicators. We identified 28 indicators: taxation, education, police databases which represented seven Domains: Health, Education, and Geographic Domains. The Domains may be a proxy of deprivation and its associated Geographic variations in the different District Health Boards in NZ; so are inconsistent across the country. Its Domains were statistically and related to household poverty.

This IMD provides a more nuanced NZ. Our vision is for the IMD and its improved outcomes for Māori, and the social climate of NZ.

Data Availability Statement: All research outputs related to this publication including the Data Zone concordance tables and the Data Zone-level ranks of The Index of Multiple Deprivation (IMD) and its Domains are freely available for download from https://figshare.com/articles/Data_Zones_for_New_Zealand/5207884 and https://figshare.com/articles/The_Index_of_Multiple_Deprivation_IMD_/5207887 respectively, or from the IMD project's website <http://www.fmhs.auckland.ac.nz/imd>. 2013 Census Meshblock files used as the building blocks to develop Data Zones can be obtained from <http://>



OPEN ACCESS

Citation: Exeter DJ, Zhao J, Crengle S, Lee A, Browne M (2017) The New Zealand Indices of Multiple Deprivation (IMD): A new suite of indicators for social and health research in Aotearoa, New Zealand. PLOS ONE 12(8): e0181260. <https://doi.org/10.1371/journal.pone.0181260>

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Data Availability Statement: All research outputs related to this publication including the Data Zone concordance tables and the Data Zone-level ranks of The Index of Multiple Deprivation (IMD) and its Domains are freely available for download from: https://figshare.com/articles/Data_Zones_for_New_Zealand/5207884 and https://figshare.com/articles/The_Index_of_Multiple_Deprivation_IMD_/5207887 respectively, or from the IMD project's website <http://www.fmhs.auckland.ac.nz/imd>. 2013 Census Meshblock files used as the building blocks to develop Data Zones can be obtained from <http://>

DOIs for research data outputs

- Self – service
- Persistent digital object identifier
- Cite your own work
- Metrics – view, download, citation, Altmetrics

Retaining copyright to figures, images?

- Submitting a manuscript for publication?
- Copyright Transfer Agreement?
- Amend or add clause to grant publisher **non**-exclusive licence
- Clearly describe figures, images etc.
- Melanie Johnson, Copyright Officer
mf.johnson@auckland.ac.nz

Production

- Engaging research support and researchers
- Enabling self-service

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Research repositories at the University of Auckland

Institutional repositories support the management of research outputs.

Institutional repositories store research publications, creative works and research data. They support researchers with:

- Curation of research outputs
- Discovery of published materials
- Citation and reuse of research

Repositories at the University of Auckland

University of Auckland researchers have access to two repositories:

- The University of Auckland Research Repository
- The Data Publishing and Discovery Service

University of Auckland Research Repository

The University of Auckland Research Repository is an archive of **research works** including books, chapters, articles and conference papers.

- Available to all staff and doctoral candidates.
- Deposit your work using [Research Outputs](#), the University's research outputs management system.
- [Find out more](#)

Data Publishing and Discovery Service


The Data Publishing and Discovery Service is an archive of **research data**, including datasets, code, instrument data, and image or media files.

- Available to all staff and doctoral candidates and postgraduate students.
- Upload is via institutional [Figshare](#).
- Items are stored securely and levels of access can be set to:

<https://www.library.auckland.ac.nz/services/research-support/repositories>

Support

- Staff Service Centre (Intranet)
- Figshare Support
- RDM team & Research Support Services



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Gavin Brown

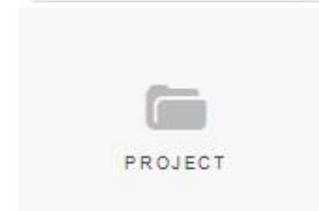
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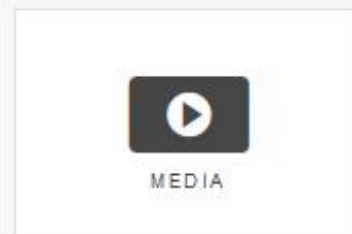
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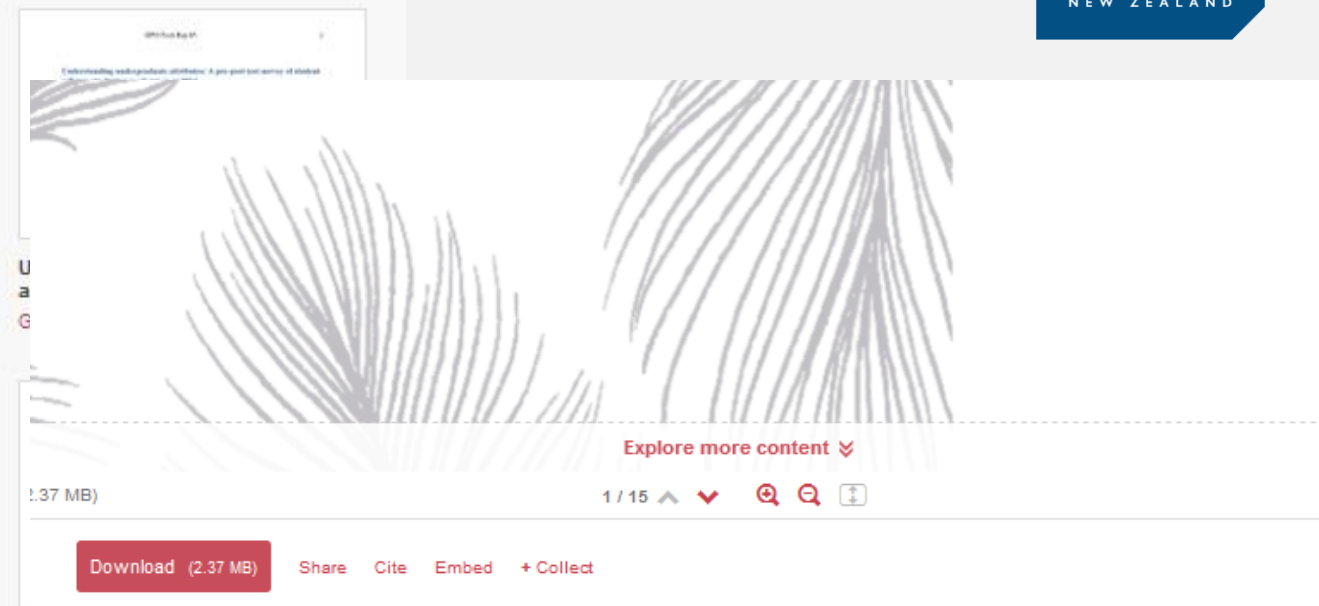
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CATEGORIES

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KEYWORD(S)

Data publishing

This document provides advice and information based on the author's experiences as a research assistant in helping sort and publish data to the University of Auckland's institutional Figshare.

The author worked on a summer scholarship working as a research assistant helping Professor Gavin Brown prepare his data for publishing via our institutional Figshare. We published two projects, Teachers' Conceptions of Assessment (TCoA-
doi:10.17608/k6.auckland.c.3690549.v1; doi:10.17608/k6.auckland.c.3690541.v1) and Students' Conceptions of Assessment (SCoA-
doi:10.17608/k6.auckland.c.3694258.v1). The TCoA project contained data that had

- HEALTH GEOGRAPHY AND DEPRIVATION
- Research themes

New Zealand Index of Multiple Deprivation (IMD)

Deprivation

Health Geography

Auckland Region Vascular Atlas

Vascular Informatics Using Epidemiology and the Web (VIEW)

Our team

Sponsors and data sources

Resources

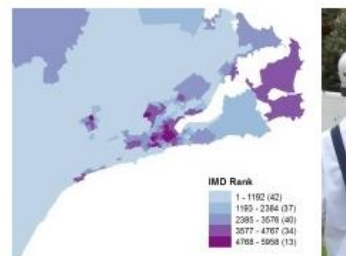
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School of Population Health

Deprivation and Health Geography within NZ

New Zealand Index of Multiple Deprivation (IMD)





Index of Multiple Deprivation

The New Zealand Index of Multiple Deprivation (IMD) is a measure of deprivation across New Zealand. It measures deprivation at the level of 712. Data zones are aggregations of small areas, typically just a few streets long and containing a few hundred households. They are just a few streets long and losing their contents to suppression.

The IMD uses routinely collected data from a range of international deprivation indices to measure deprivation across seven domains of deprivation: Employment, Income, Education, Health, Housing, Social, and Environmental. A combination of these seven domains and its association with a given health outcome is used to calculate the IMD weightings.

The Index of Multiple Deprivation was developed by Arier Chi Lun Lee and Michael Brown.



My data

search on figshare

Browse

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1

Laura Armstrong

	A	B	C	D	E
1	MB2013	DatazoneID	Waterbody	TA2013	TA2013 NAME
2	100	1	Far North District	35	Northland
3	200	1	Far North District	35	Northland
4	300	1	Far North District	35	Northland
5	400	1	Far North District	35	Northland
6	502				
7	600				
8	700				

About this spreadsheet MB2013

Meshblock2013_to_NZ_DataZone

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The Index of Multiple Deprivation (IMD)

21.07.2017, 08:32 by Daniel Exeter, Michael Browne, Arier Lee, Jinfeng Zhao, Sue Crengle

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Data

21.07.

A fileset containing excel spreadsheets allowing researchers to map area-deprivation using the IMD.



<https://www.fmhs.auckland.ac.nz/en>

<https://doi.org/10.17608/k6.auckland.5207887.v1>

<https://doi.org/10.17608/k6.auckland.5207887.v1>

Sharing, archiving, reuse, reproducibility



- A model simulation is **repeatable** when re-running it produces a consistent result.
- A model is **reproducible** when its outputs can be reproduced by a machine from an unambiguous statement of the model equations, together with specified values of the model parameters, initial conditions and boundary conditions.
- A model is **reusable** when it can be used as an independent model or as a module within another model.
- A model is **discoverable** when it has been annotated with metadata that describe the purpose and use of the model sufficiently to allow the model to be retrieved via a webservice.
- A model is **validated** when its predictions under specified conditions match experimental observations.

14



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03.10.2017, 05:32 by David Nickerson, Peter Hunter

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- FAIR

What next?

- Large photographic datasets
- Research Hub
- Increase awareness
- Conference proceedings
- Research Outputs – Data source
- ...

Thank you



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