

Annual Report

July 2019 – June 2020

GeoHealth Laboratory
Te Taiwhenua o te Hauōra

University of Canterbury
Te Whare Wānanga o Waitaha

GeoHealth Laboratory

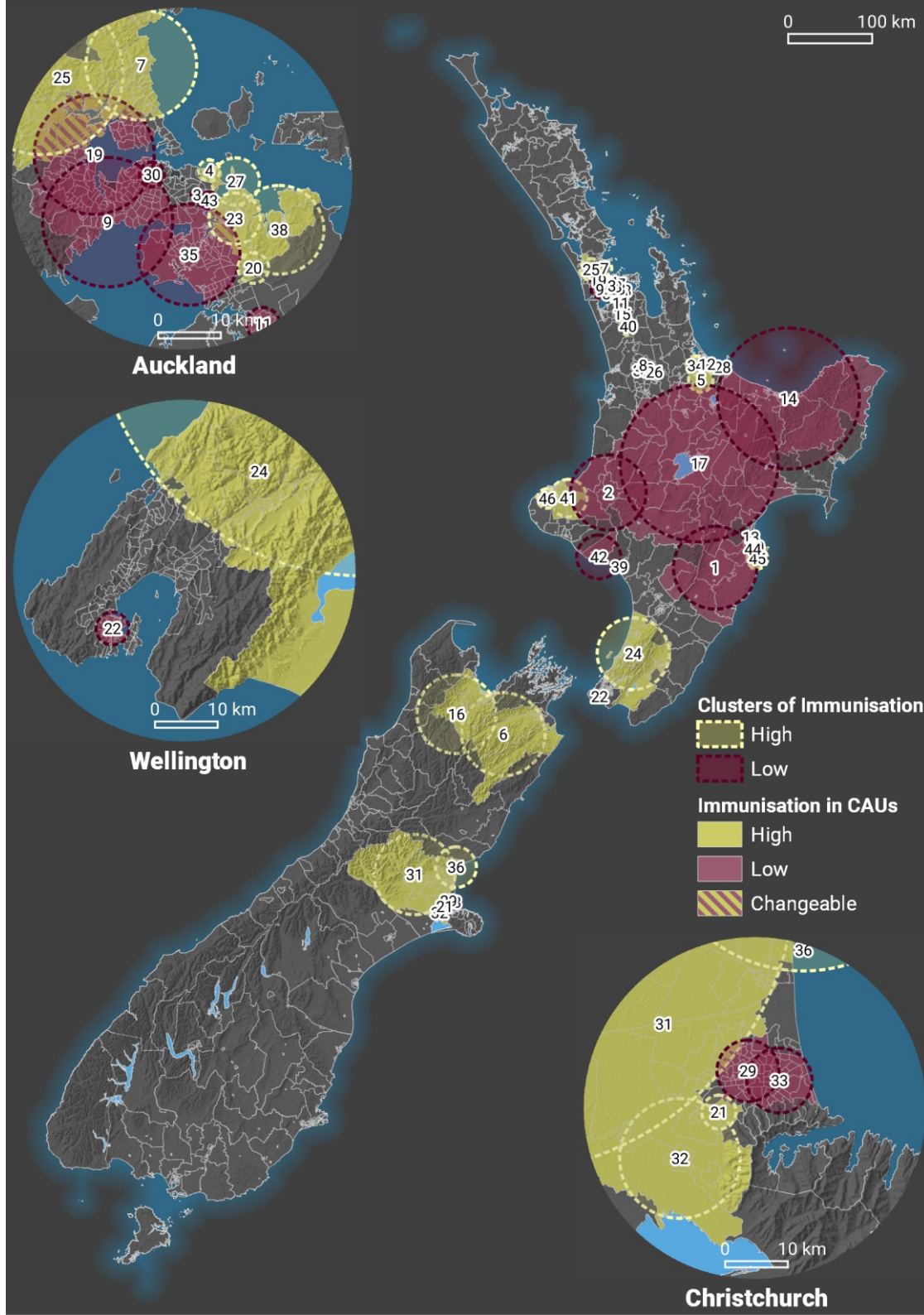
Established in 2005, the GeoHealth Laboratory (GHL) is a partnership between Health & Disability Intelligence, in the Ministry of Health, and the University of Canterbury.

The GHL seeks to advance Ministry of Health policy and the University of Canterbury's health sciences and geospatial research agenda for the mutual benefit of the New Zealand health sector.

Key aims of the GHL are to:

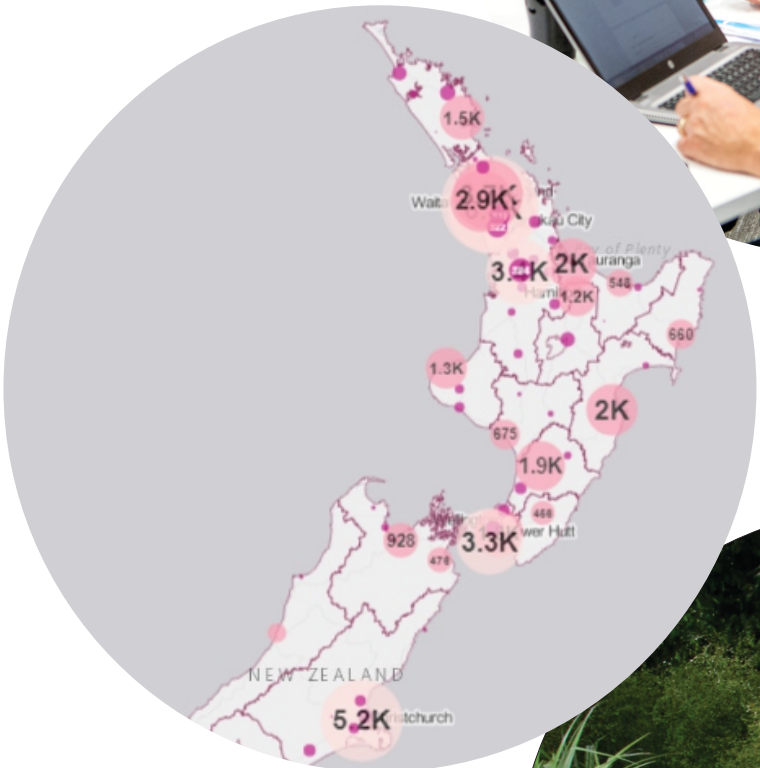
- build a strategic partnership around health geography, spatial epidemiology, and Geographical Information Systems, and
- increase research capacity and research outputs in health and geospatial science.

This is the 14th Annual Report; it describes the activities undertaken between July 2019 and June 2020.



Contents

Personnel	4
Education	5
Research	6
Publications	7
Visitors	7



Personnel



Director

Professor Simon Kingham

Deputy Director

Associate Professor Malcolm Campbell



Manager

Dr Melanie Tomintz

Postdoctoral Research Fellow

Dr Jesse Wiki



Postdoctoral Research Fellow

Dr Lukáš Marek

Postdoctoral Research Fellow

Dr Matthew Hobbs



Education

Graduated

- Briony Fanslow – Master of Spatial Analysis for Public Health (Distinction)
Supervised by Associate Professor Malcolm Campbell
- Kyle Turnbull – Master of Spatial Analysis for Public Health (Distinction)
Supervised by Professor Simon Kingham
- Jesse Wiki – Doctor of Philosophy
*Supervised by Professor Simon Kingham,
Associate Professor Malcolm Campbell and Dr Paul Beere*

Internships

- Bingyu (Susie) Deng – Professional Master of Geospatial Science and Technology
Supervised by Dr Matthew Hobbs and Dr Jesse Wiki
- Lauren Skinner – Master of Applied Data Science
Supervised by Dr Lukáš Marek

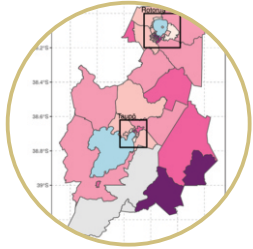
Enrolled

- Phoebe Eggleton – Master of Spatial Analysis for Public Health
- Olivia Willoughby – Doctor of Philosophy



Research

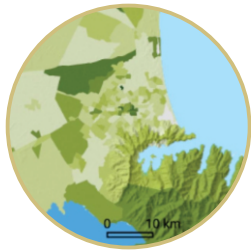
Work Programme



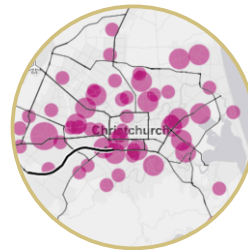
Transient populations



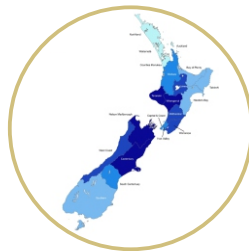
Alcohol-related harm



Population mobility

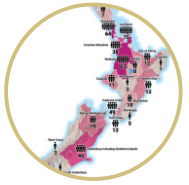


Major trauma injuries



Mental health

Responsive Analytics



Understanding client population demographics
– Disability support services, MidCentral DHB

Mapping services and area-level profiles
– Disability support services, MidCentral DHB

Mapping accessibility of hospitals
– Ministry of Health

Mapping accessibility of pharmacies and family
planning clinics
– Ministry of Health

COVID-19 case reporting and identification of
vulnerable populations
– Ministry of Health



Publications

The GeoHealth Laboratory is an established research centre within the University of Canterbury's research repository.

Please use the following link to access publications, reports and theses:
<https://ir.canterbury.ac.nz/handle/10092/16868>

Visitors

Dr Ashley Bloomfield (Director-General of Health) visited the GeoHealth Laboratory in August 2019

Ian Town, Ministry of Health Chief Science Advisor, and Vice-Chancellor Professor Cheryl de la Rey visited the GeoHealth Laboratory in November 2019

PhD student Francesca Pontin visited from Leeds Institute for Data Analytics (Leeds, UK) in February–March 2020



GeoHealth Laboratory

University of Canterbury

Ernest Rutherford Building – Room 261
Private Bag 4800
Christchurch, 8140
New Zealand



Visit our website for more information
www.geospatial.ac.nz/geohealth



GeoHealthLab@canterbury.ac.nz



[@GeoHealthLab](https://twitter.com/GeoHealthLab)