

FIG Working Week 2016

CHRISTCHURCH, NEW ZEALAND 2-6 MAY 2016

Recovery

from disaster

Organised by



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Recovery

from disaster

Learning for a Geospatial Future

Professor Simon Kingham

Director of the Geospatial Research Institute Toi Hangarau

Director of the GeoHealth Laboratory

Department of Geography

University of Canterbury - Te Whare Wananga O Waitaha

Christchurch



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New institute building NZ's geospatial future

Tuesday, 26 April, 2016 - 16:49

A new research institute based at the University of Canterbury will boost New Zealand's geospatial research capability, and help improve the social, environmental and cultural well-being of New Zealand, says Land Information Minister Louise Upston.

Minister Upston helped launch the university's **Geospatial Research Institute** today, and said the Institute offered major benefits for New Zealand.

"Geospatial research delivers real benefits for real people. For example, the University of Canterbury's **GeoHealth Lab** is mapping air quality around Christchurch to better understand asthma rates, and looking at how access to parks improves the health of neighbouring communities.

<http://www.voxy.co.nz/national/5/249796>

UC **GEOHEALTH LABORATORY**



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Mapping



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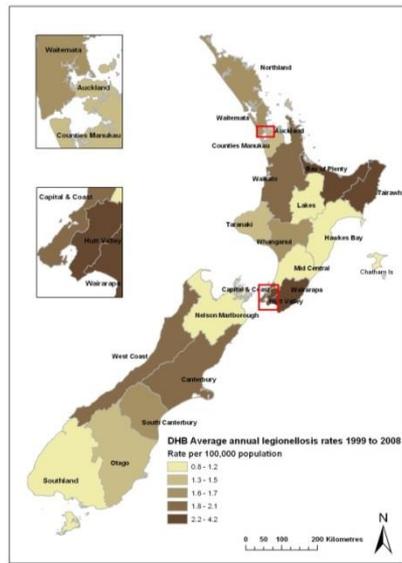
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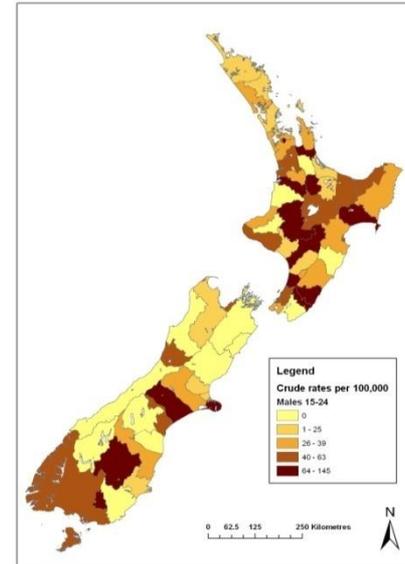
Recovery

from disaster

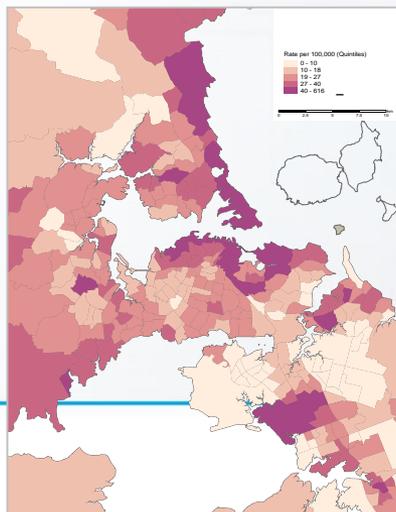
Mapping



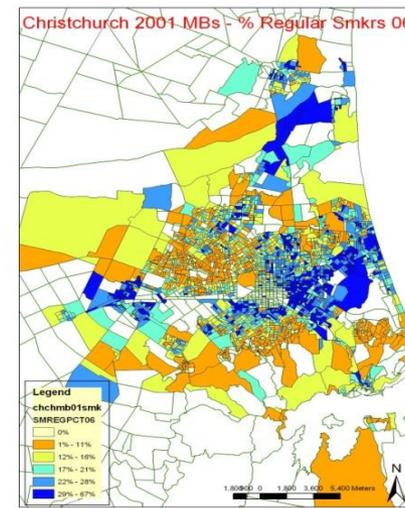
Legionnaires disease rates 15-24 yrs 2003-05



Suicide rates Males 15-24 yrs 2003-05



Melanoma rates 30-39 yrs 1995-04



% smokers 2001

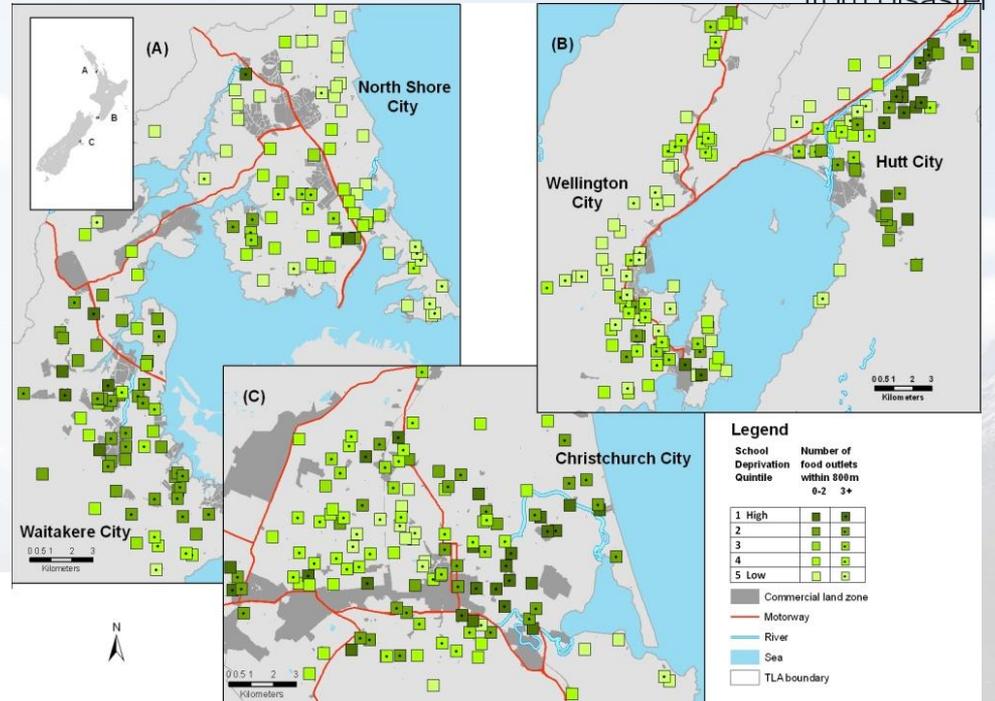
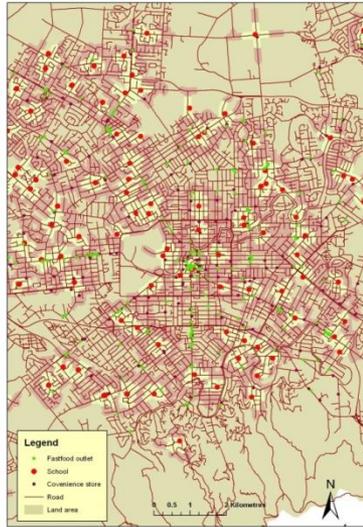


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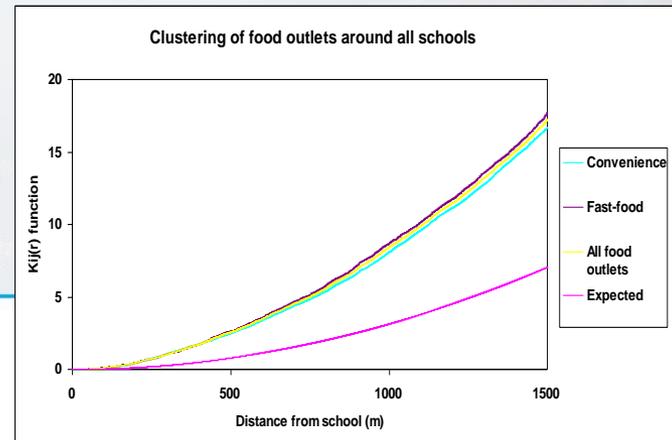
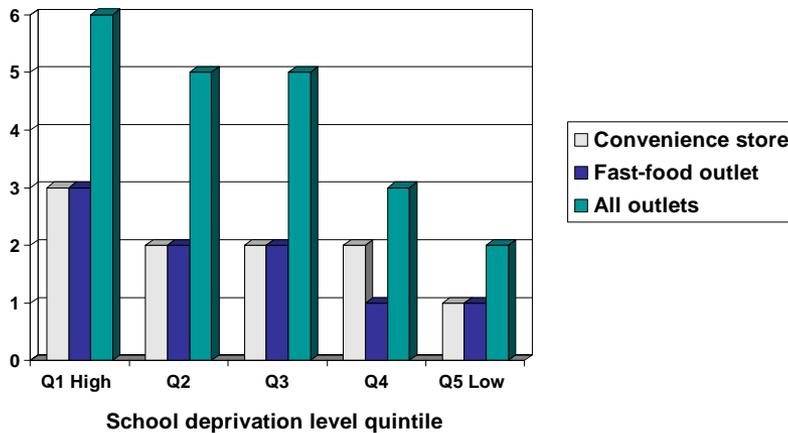
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Recovery

Analysis



Median number of food outlets within 800m of schools



Exposure to 'blue space' will boost your mental health

ecovery

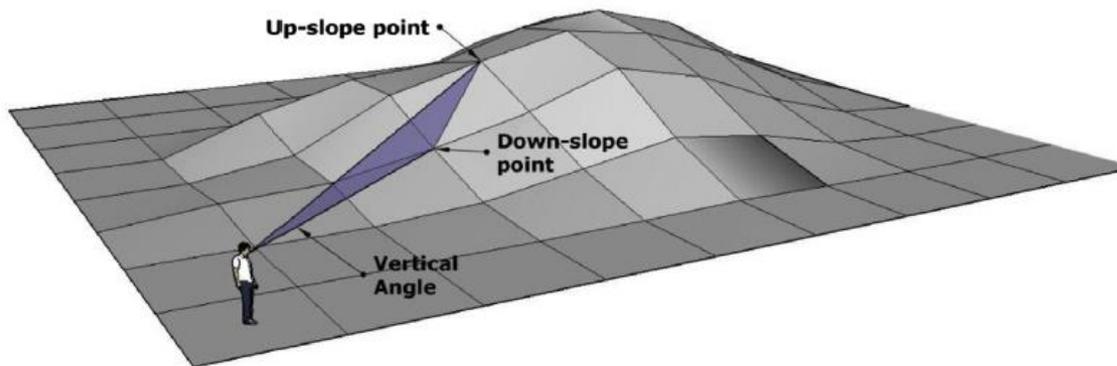
from disaster

RACHEL CLAYTON

Last updated 16:39, May 2 2016



Visualisation



Health & Place 39 (2016) 70–78

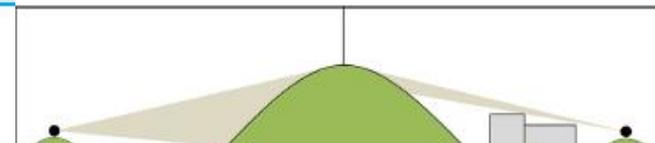
Contents lists available at ScienceDirect

Health & Place

journal homepage: www.elsevier.com/locate/healthplace



Fig. 1. Distribution of natural environments throughout Wellington City and the greater region.



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ation
d

Residential exposure to visible blue space (but not green space) associated with lower psychological distress in a capital city

Daniel Nutsford^a, Amber L. Pearson^{b,c,*}, Simon Kingham^a, Femke Reitsma^a

^a University of Canterbury, Department of Geography, Christchurch, New Zealand

^b Michigan State University, Department of Geography, 673 Auditorium Road, East Lansing, MI 48824, USA

^c University of Otago, Department of Public Health, 23A Mein Street, Wellington 6242, New Zealand



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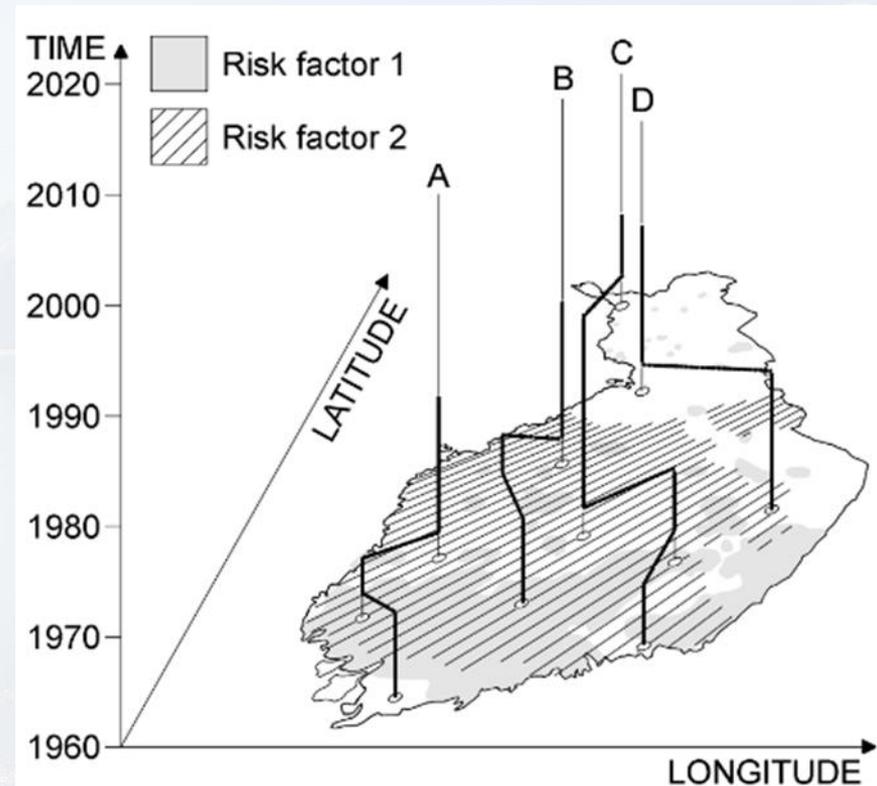
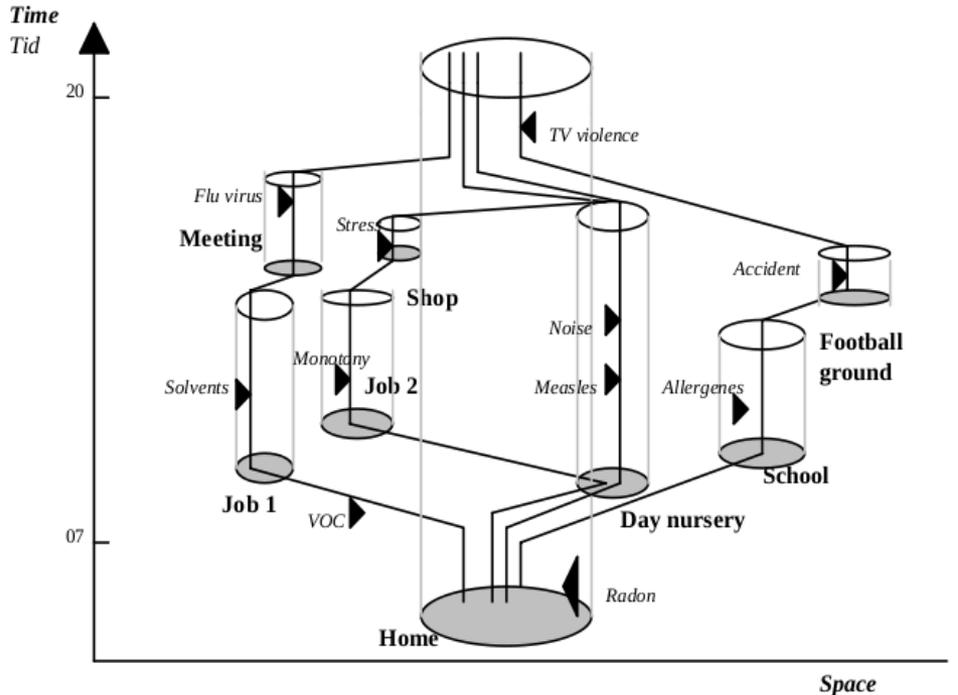
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Tracking



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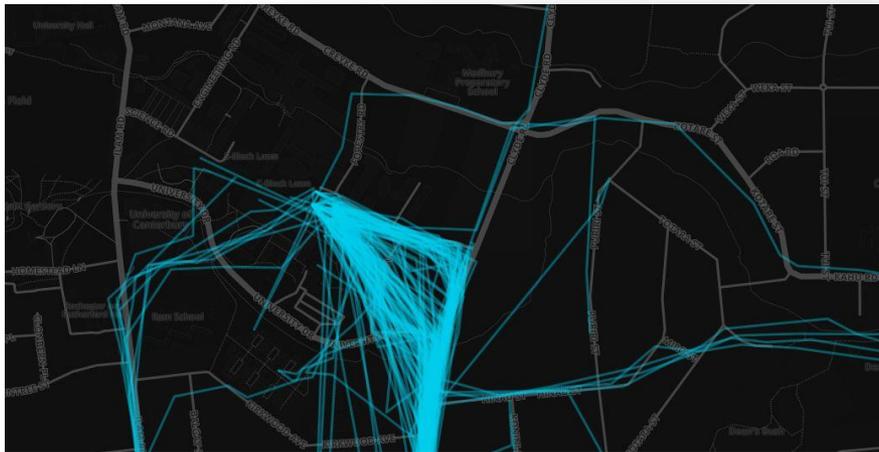
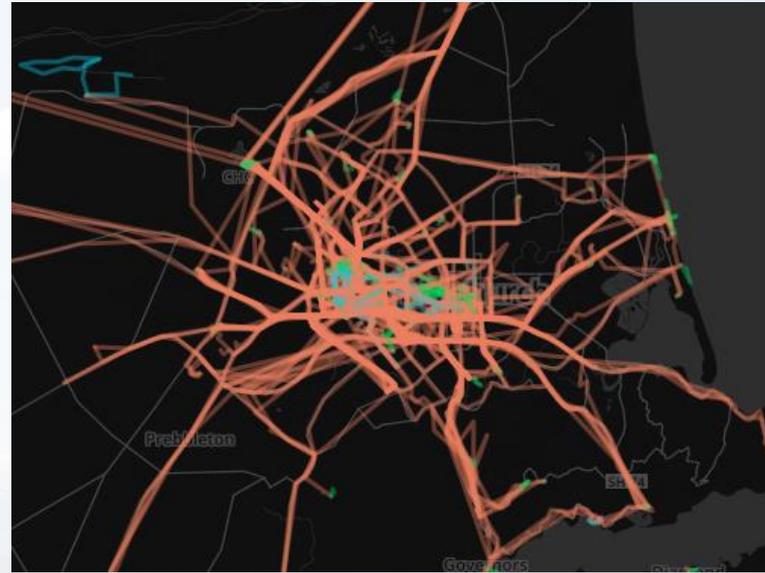
from disaster

Tracking

Orange = Motor vehicle

Blue = Cycle

Green = Walk



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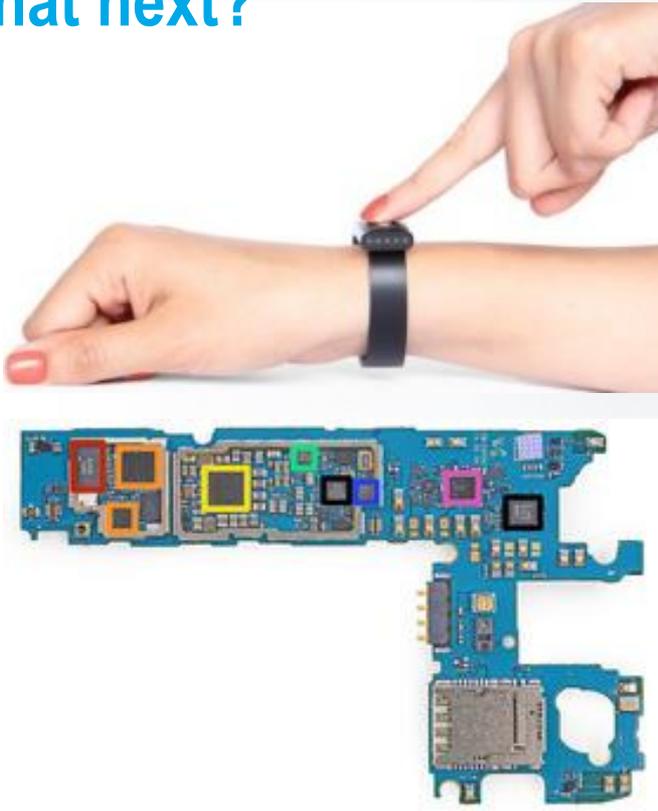


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Recovery

What next?



TIME

Never Offline.

The Apple Watch is just the start. How wearable tech will change your life—like it or not

BY LEY GROSSMAN AND MATT VELLA



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How can I be part of this geospatial future?

- Make sure you are qualified and trained for it



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University undergraduate study

- University of Canterbury Dept of Geography
 - GEOG205: Introduction to Geographic Information Systems
 - GEOG208: Remote Sensing for Geospatial Analysis
 - GEOG323: Geospatial Analysis in the Social and Environmental Sciences
 - GEOG324: Advanced GIS
- University of Otago Dept of Surveying
- University of Auckland School of Environment
- + Massey, Victoria, Waikato & AUT



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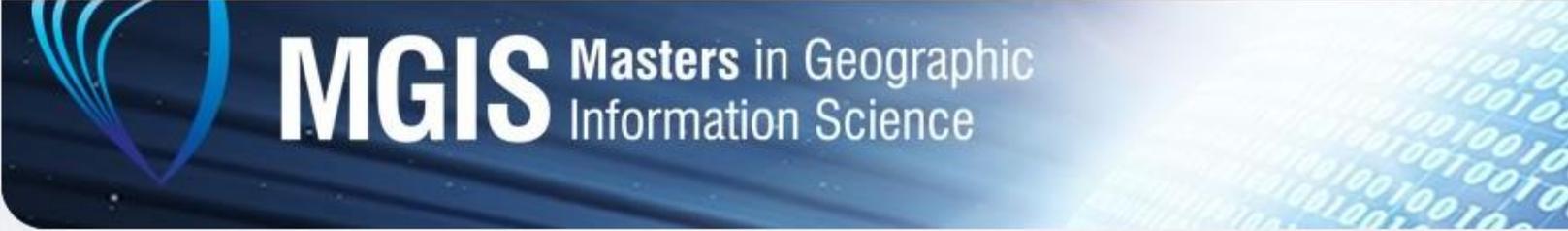
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← → ↻ 🏠 📄 www.mgis.ac.nz ☆ 📌 📧 📱



MGIS Masters in Geographic Information Science

HOME PROGRAMME COURSES PEOPLE APPLY RESEARCH CON

LATEST NEWS

CONGRATS TO MGIS SPATIAL EXCELLENCE AWARD WINNERS

November 2015
 Congratulations to Dr Mairead de Roiste, Richard Law and Hamish Kingsbury for their recent wins at the New Zealand Spatial Excellence Awards. [More...](#)

MGIS STUDENTS AWARDED ESRI YOUNG SCHOLAR PRIZE FIRST VUW MGIS STUDENT GRADUATES

14 May 2015
 Victoria University's first ever Master of Geographic Information Science (GIS) was capped at yesterday's graduation ceremony. Andrew Clouston, Geospatial Team Manager at Land Information New Zealand (LINZ), was the first graduate since the programme's inception at VUW in 2012. [More...](#)

WELCOME TO THE MASTERS IN GIS

The Masters in Geographic Information Science (MGIS) and the Postgraduate Diploma in Geographic Information Science (PGDipGIS) at the University of Canterbury, Victoria University of Wellington and the Auckland University of Technology (AUT) is a programme designed not only to equip students with strong technical skills in a range of different software environments, but also to ensure students have a solid foundation in GIS theory, knowledge and applications. These skills will allow graduates to work within, critique and build beyond any existing GIS system. The MGIS and PGDipGIS are excellent opportunities to move into an exciting and fast-growing field.



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www.linz.govt.nz

Land Information New Zealand

LINZ Data Service

Geodetic Database

Landonline



About LINZ

Contact us

Land

Sea

Data

Crown Property

Regulatory

‘The power of where’ drives New Zealand’s success

Land Information New Zealand (LINZ) makes a significant contribution to the smooth running and development of New Zealand.

So many decisions involve information about location– from finding the best use for farmland, to deciding where to build a school, to planning underground infrastructure maintenance, to deciding which route to take to work. This is information that LINZ provides.

Decisions using location information already add \$1.2 billion to New Zealand’s economy. LINZ’s vision is to increase this value by tenfold over the next decade. We call this ‘the power of where’.

cera.govt.nz/maps

To Mana Haumanu ki Waitaha

Home My Property Recovery Strategy

Support and assistance

Property information

CBD Rebuild Zone

About CERA

News

Questions and answers

Demolitions

Library

Annual Report

Better Business Cases

Cabinet papers

The Cathedral File

Chief Executive expenses

Economic indicators

Government response to draft Central City Plan

Legislation

Maps

- CERA map viewer
- Planning and Community Toolset

Photos

Science and data

Statement of Intent

Video gallery

Wellbeing Survey

Youth Wellbeing Survey

CERA online maps
The CERA Map

- The CERA Map >
- More Information about the CERA map viewer

This easy-to-use map viewer will run on any device. It contains the following layers of information:

- Land zone status and technical categories
- Demolition status and section 45 notices
- Prioritised routes for different travel modes from the Accessible City chapter of the Recovery Plan
- Aerial images of the city over time (including aerial pre-September 2010)
- Central City (CCDU) Blueprint and Anchor Projects.



Planning and Community Toolset (PACT)

A multi-layered desktop tool showing the changes across greater Christchurch providing a raft of information including land use and zoning, transport routes, and population figures to help with future planning in the region.

The aim is to give community groups and organisations easy access to information that will help them plan their own future facilities.

- PACT map viewer >
- More information about the Planning and Community Toolset (PACT)



Christchurch Central: Anchor Projects and Private Sector Prog

This map highlights the Christchurch Central Development Unit (CCDU) Anchor Projects cost sharing split between Crown and Local Government, and features private sector recovery development happening within the



Week 2016

www.doc.govt.nz/about-doc/role/maps-and-geospatial-services/

Department of Conservation Te Papa Atawhai

Home Parks & recreation Conservation Getting involved Our work About DOC Publications

Role

You are here: About DOC > Role > Maps and geospatial services

Maps and geospatial services

In this section:

- Maps and geospatial services
- Geospatial data - Terms and conditions
- Natural Resource Group GIS network
- Download DOC GeoSpatial Data

DOC is one of New Zealand's leading organisations in geospatial technology. Geospatial data is location-based data, and GIS (Geographic Information Systems) is a tool to manage, store, view and edit this data.

DOC has developed for public use, the following mapping tools to view and access DOC's spatial data.

DOC Maps

DOC Maps is designed for a broad audience including scientists, planners, Governmental agencies and teachers. It displays information on:

- DOC land, activities and facilities
- general land classifications
- property and cadastral information

Desktop Tablet Mobile

ecan.govt.nz/pages/home.aspx

Related websites Metro Info Civil Defence

Publications Quick Answers A-Z Index Glossary Sitemap

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Search the Environment Canterbury website.. SEARCH

Environment Canterbury Regional Council
Kaunihera Talao ki Waitaha

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Annual Report 2013/14

Our latest Annual Report and Annual Report Summary are now available online.

1 2 3 4 5

GET IT DONE ONLINE

- Contact us
- Work for us
- Consent search
- GIS mapping**
- River flows (Latest)
- Irrigation restrictions



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CHRISTCHURCH, NEW ZEAL

www.seek.co.nz/jobs/in-new-zealand/#dateRange=999&workType=0&industry=&occupation=&graduateSea

Active filters:

GIS

All New Zealand



Date Listed

Sort by date

www.seek.co.nz/jobs/#dateRange=999&workType=0&industry=&occupation=&graduateSearch=false&salaryFro

Active filters: GIS

Sort by date

Date Listed

Keywords

Location

Classification

Salary

Work Type

Clear all

Junior CAD Consultant (Abbotsford, VIC)
Coffey International Limited

2:00 PM
Melbourne

- Pivotal support role to the Spatial team
- Global professional services consultancy firm
- Abbotsford, Victoria

Real potential is uncovered only when you scratch beneath the surface

Engineering > Environmental Engineering

★ Add to shortlist



Assets Engineering Officer
North Sydney Council

1:38 PM
From \$73548-\$87822pa + super + 3.5% CLA + car
Sydney
North Shore & Northern Beaches

We are seeking a suitably qualified individual to effectively and efficiently assist in the management of Council's assets.

Government & Defence > Government - Local

★ Add to shortlist

GIS Analyst
AECOM

1:05 PM
Sydney
CBD, Inner West & Eastern Suburbs

- Join a global Fortune 500 organisation
- Sydney CBD location
- Supportive environment

Excellent opportunity for a Professional Spatial Information Specialist to join our Geographic Information Systems team.

Information & Communication Technology > Other

★ Add to shortlist



Arborists - Edinburgh
Transfield Services (Aust) Pty Ltd

11:17 AM
Adelaide

We are seeking an Arborist to conduct all tree inspections, mapping, reporting, trimming and felling of trees on the Defence sites.

Trades & Services > Gardening & Landscaping

★ Add to shortlist

Business Analyst | GIS | CBD location
Talent International - SARA Winner Large Recruitment Agency 2014 - SEEK

Mon 24 Nov
Melbourne
CBD & Inner Suburbs

- Supportive work environment

Data Analyst

Hudson New Zealand

- Permanent Role
- SQL focus
- CBD Location

Permanent Data Intelligence Analyst, SQL Databases, knowledge of web applications and GIS, CBD location

Information & Communication Technology > Database Development & Administration

★ Add to shortlist

Mon 24 Nov
Wellington
Wellington Central



Spatial Intelligence Analyst

Hudson New Zealand

- Permanent Role
- CBD Location
- Enterprise GIS environment

Permanent Spatial Intelligence Analyst, GIS, ESRI and Integraph, enterprise analysis and modelling, some knowledge of SQL a bonus

Information & Communication Technology > Business/Systems Analysts

★ Add to shortlist

Mon 24 Nov
Wellington
Wellington Central



SPATIAL INTELLIGENCE ANALYST

New Zealand Fire Service

Exciting role within the NZ Fire Service, opportunity to utilise your knowledge within a supportive team and make a real difference to the business!

Information & Communication Technology > Business/Systems Analysts

★ Add to shortlist

Fri 21 Nov
Wellington
Wellington Central

14/1175 - Senior Geospatial Consultant

Statistics New Zealand

- Christchurch or Wellington - Permanent
- Flexible working hours
- Internal & external training programmes on offer

A key part of this role involves engaging with internal stakeholders to ensure statistical requirements and geospatial solutions are meeting needs.

Government & Defence > Government

★ Add to shortlist

Fri 21 Nov
Canterbury
Christchurch



COMPUTERWORLD



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Cloud

Mobile

Social

Data

Spatial experts added to Immigration's skills shortage list

Immigration New Zealand has responded favourably to an industry request to ease a shortage of geospatial knowledge

Stephen Bell (Computerworld New Zealand) on 12 February, 2013 20:39



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