



Communities in Numbers is a statistical advisory company that also provides training in basic statistics; mapping; applied microsimulation modelling; and programming microsimulation models. All the courses are run by Prof. Robert Tanton, a renowned Australian and International expert on sourcing and analysing data with 20 years experience at the National Centre for Social and Economic Modelling (NATSEM) at the University of Canberra and 20 years experience in the Commonwealth Public Service. He was Director of NATSEM from 2016 to 2020; and was President of the International Microsimulation Association from 2019 to 2024. At NATSEM, he led development of the Child Social Exclusion index; the Index of Wellbeing for Older Australians; the 2021 Dropping off the Edge report for Jesuit Social Services; and small area estimates of housing stress and poverty across Australia.

He conducts a number of courses in statistics, including:

- Basic statistical techniques using Excel;
- Mapping data including creating online maps.

Basic Statistical techniques using Excel

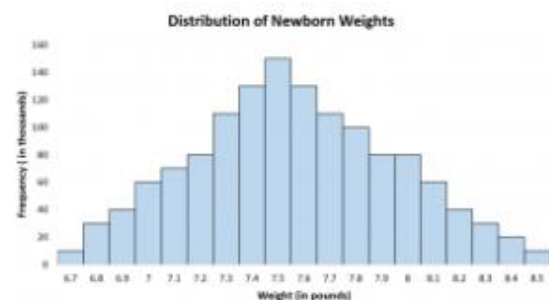
This course is a morning (2 sessions @ 1 hour each) course. It shows how to develop a research project, and then conduct basic statistical analysis in Excel, to provide the information needed to brief executives. The course includes:

- Defining your research question and planning your analysis;
- Types of data – Nominal, Ordinal, Discrete, Continuous;
- Sources of data – surveys, Census, Administrative data and qualitative data;

- Assessing the quality of data;
- What a mean, median and mode is, when to use them, and how to calculate them in Excel;
- Calculating differences – values, %, and % point;
- Basic analysis of trends, correlations and causation;
- Tests of Significance;
- How to best present your data using tables, maps and graphs;
- How to best communicate your findings.

By the end of this course, attendees will be able to plan, conduct, present and explain analysis to inform their work, and communicate their analysis to executives.

Cost: \$5,000 exc travel for up to 10 participants



Mapping data

Maps are one of the best ways to display data. People understand maps, and can relate to them on a level that cannot be achieved with a table or graph.

However, creating maps requires specialist knowledge and skills. This

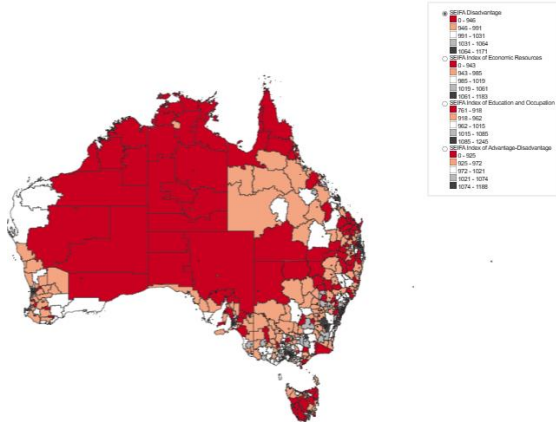
course will provide these skills to those who attend, and makes learning easy by providing all the programs and data required.

This course is two one hour sessions that show how to create maps using QGIS, an open source mapping program that is provided as part of the background material for the course. The background material also includes all the ABS Shape files required to create a map.

The first hour introduces the terminology of mapping; and uses the ABS SEIFA data to create the first map. The second session then shows how online maps can be developed, and at the end of this session the student will have created an online map.

By the end of the course, students will be able to create their own maps using their own data, and will be able to turn them into online maps for distribution on an intranet or internet.

Cost: \$5,000 exc travel costs for up to 10 participants



[More Information?](#)



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