

The role of universities in New Zealand's research system

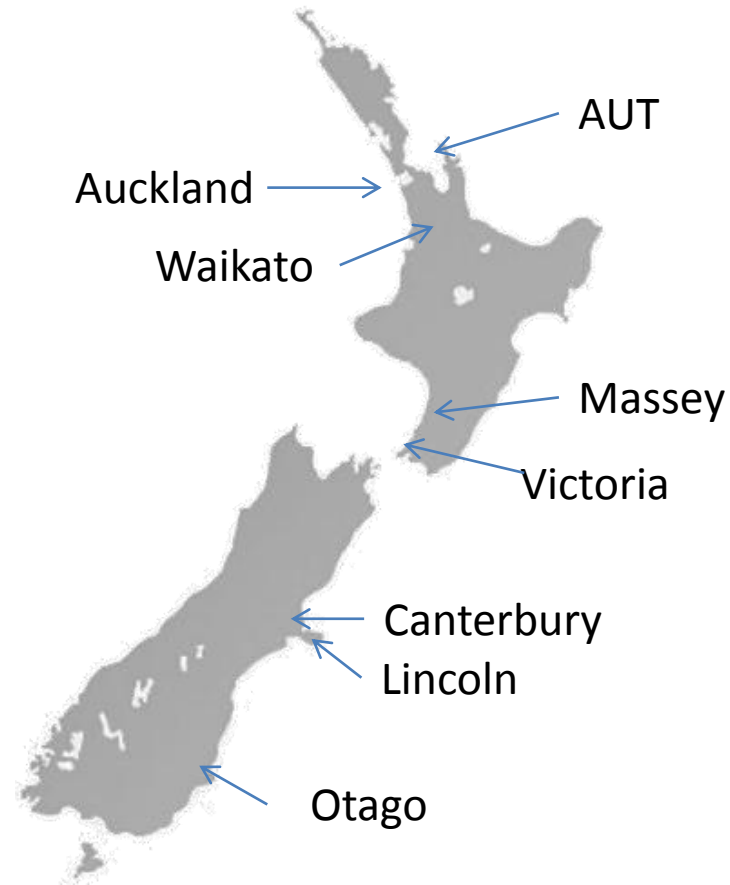
Jonathan Hughes
Universities New Zealand

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New Zealand tertiary sector

- 8 universities
- 18 Institutes of Technology and Polytechnics
- 3 wānanga
- 800 Private Training establishments

Location of NZ universities



NZ universities

| University | EFTS | FTE |
|-------------------|----------------|---------------|
| Auckland | 32,200 | 4,800 |
| AUT | 18,500 | 2,000 |
| Waikato | 10,300 | 1,500 |
| Massey | 19,500 | 3,000 |
| Victoria | 16,900 | 2,000 |
| Canterbury | 13,700 | 1,800 |
| Lincoln | 2,500 | 600 |
| Otago | 19,600 | 3,700 |
| Total | 133,200 | 19,500 |

Financial position

| | |
|-------------------------|------------------------|
| Government grants | NZ\$1.4 billion |
| Student fees | NZ\$0.8 billion |
| Research and commercial | NZ\$0.8 billion |
| Other | NZ\$0.2 billion |
| Total | NZ\$3.2 billion |
| | |
| Total assets | NZ\$6.9 billion |

Research & Development (R&D) in New Zealand

Sectors involved in R&D in New Zealand:

(a) Government

Eight **Crown Research Institutes** (CRIs)

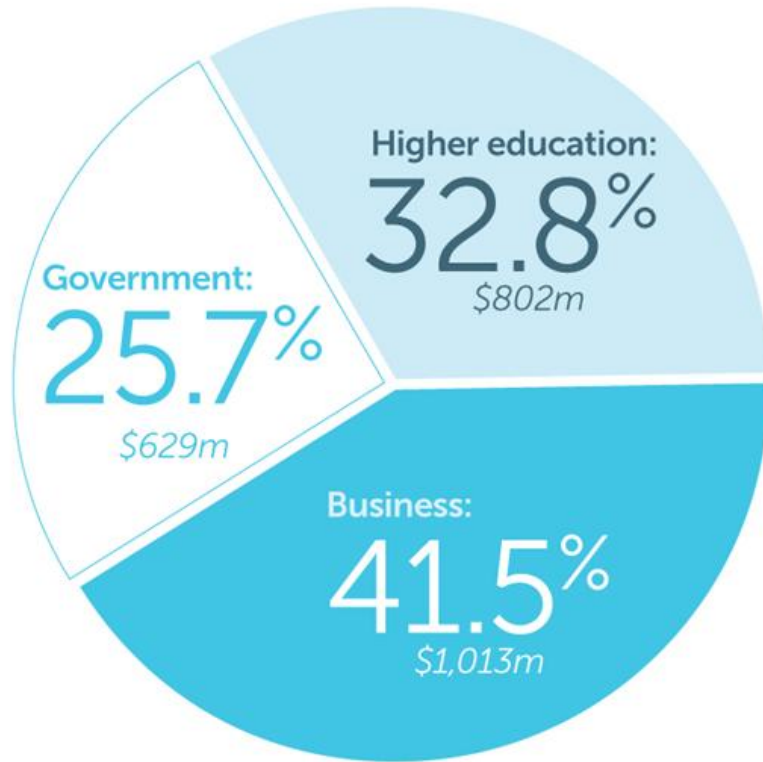
(c) Higher education (primarily universities)

NZ has eight **universities** where research and teaching are closely interdependent and teaching is done by people active in advancing knowledge

(a) Business

Includes Independent Research Association

NZ Research & Development Expenditure*



- **Total R&D expenditure** for 2010 was almost NZ\$2.5 billion (up 13% from 2008)
- **Total R&D expenditure** was 1.3% of GDP
- In 2010, universities spent NZ\$802 million on R&D (up from NZ\$653 million in 2008)

* Source: Statistics NZ "Research and Development Survey: 2010"

Universities and Research

- Universities undertake the majority of New Zealand's fundamental research and much of its applied research
- Universities employ half of all New Zealand's researchers
- Universities train nearly all New Zealand's postgraduate students - 99% of New Zealand's 8,000 PhD students
- Universities had a revenue NZ\$501 million from contract research in 2010 - 16% of total university income

Centres of Research Excellence

- The Centres of Research Excellence (CoREs) fund was established in 2001 to encourage the development of excellent tertiary education-based research that is collaborative, strategically focussed and creates significant knowledge transfer activities.
- CoREs are inter-institutional research networks, with researchers working together on commonly agreed work programmes.
- Each CoRE is hosted by a university and comprises a number of partner organisations which can include other universities, Crown Research Institutes and wānanga[#].

[#] wānanga – publicly owned tertiary institutions that provide education in a Māori cultural context

Centres of Research Excellence (CoREs)

- Allan Wilson Centre for Molecular Ecology and Evolution
- Bio-Protection Research Centre
- MacDiarmid Institute for Advanced Materials and Nanotechnology
- Maurice Wilkins Centre for Molecular Biodiscovery
- National Research Centre for Growth and Development
- Ngā Pae o te Māramatanga (Māori research excellence)
- The Riddet Institute (innovative foods)



Commercialisation of University Research

- NZ universities are **committed to commercialisation** – each university has a commercialisation office, typically in the form of a separate company.
- **University Commercialisation Offices of New Zealand (UCONZ)** brings together the university commercialisation offices to establish closer links with commercial research partners.
- In 2010-11, Universities NZ, UCONZ and Business NZ, collaborated on **events promoting university research** to business:
 - ✓ 14 events held, each focussing on a different industry
 - ✓ Due to the success of the programme, 8 more events will be held over the next two years

NZ universities and the EU

9% of international students hail from the EU
But 11% at Masters level and 20% at PhD level

All NZ universities have links with EU universities – over 300 formal agreements

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Questions