

# AUSTRALIAN TECHNOLOGY NETWORK OF UNIVERSITIES

BUILDING PARTNERSHIPS  
FINDING SOLUTIONS



AUSTRALIAN  
TECHNOLOGY  
NETWORK  
OF UNIVERSITIES

# The ATN



- \$1bn national R&D network
- 70% of research revenue from industry
- Quarter of a million students
- 16,000 researchers
- Ranked in the global Top 50 young universities
- Focus on industry collaboration

# Data: the future of business



*The McKinsey Global Institute estimates that by 2018, the U.S. economy will have a shortage of 140,000 to 190,000 people with analytical expertise and a shortfall of another 1.5 million managers and analysts with the skills to understand and make decisions.*



*I keep saying the sexy job in the next ten years will be statisticians.*

Hal Varian – Chief Economist at Google

# Demand for Data Scientists



Job Trends from Indeed.com

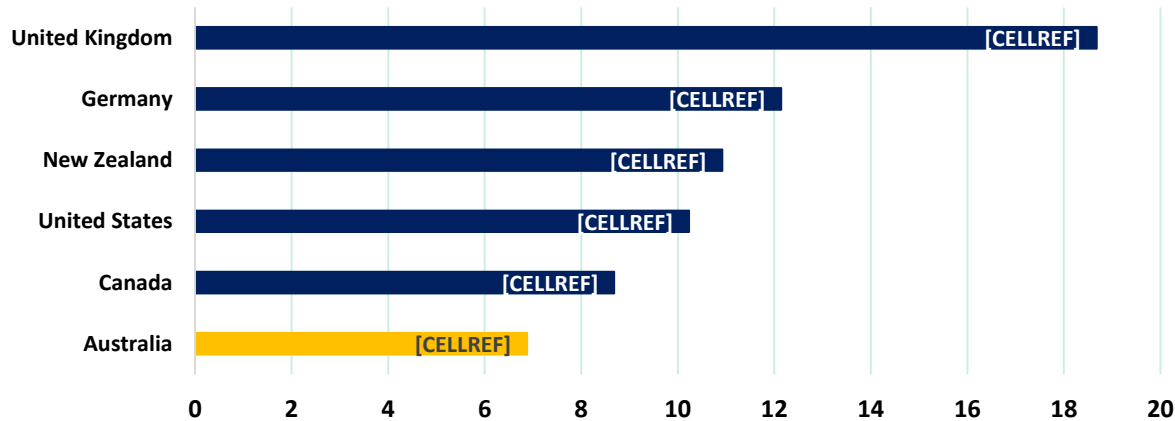
— "Data Scientist"



# Global maths & stats graduates



Annual Mathematics & Statistics Research Graduates per Million Labour Force



# IDTC projects include

- Superannuation modelling
- Credit risk modelling
- Price and risk management for commodity markets
- Data networking
- Logistic planning in the mining industry
- Scheduling optimisation in the electricity industry
- Stroke care treatment modelling
- Geospatial modelling of chronic disease
- Analysing occupational health performance in industry
- Ecological system and climate modelling
- Supercomputer cooling



## IDTC partners include

- Rio Tinto
- Cray
- Ausgrid
- NAB
- CSIRO
- ABS
- DSTO
- BoM
- Cancer Council
- Royal Australian College of GPs ...

