Australian Government

Australian Research Council

ICT research in the Australian Research Landscape
7 July 2015

Professor Aidan Byrne

CEO, Australian Research Council

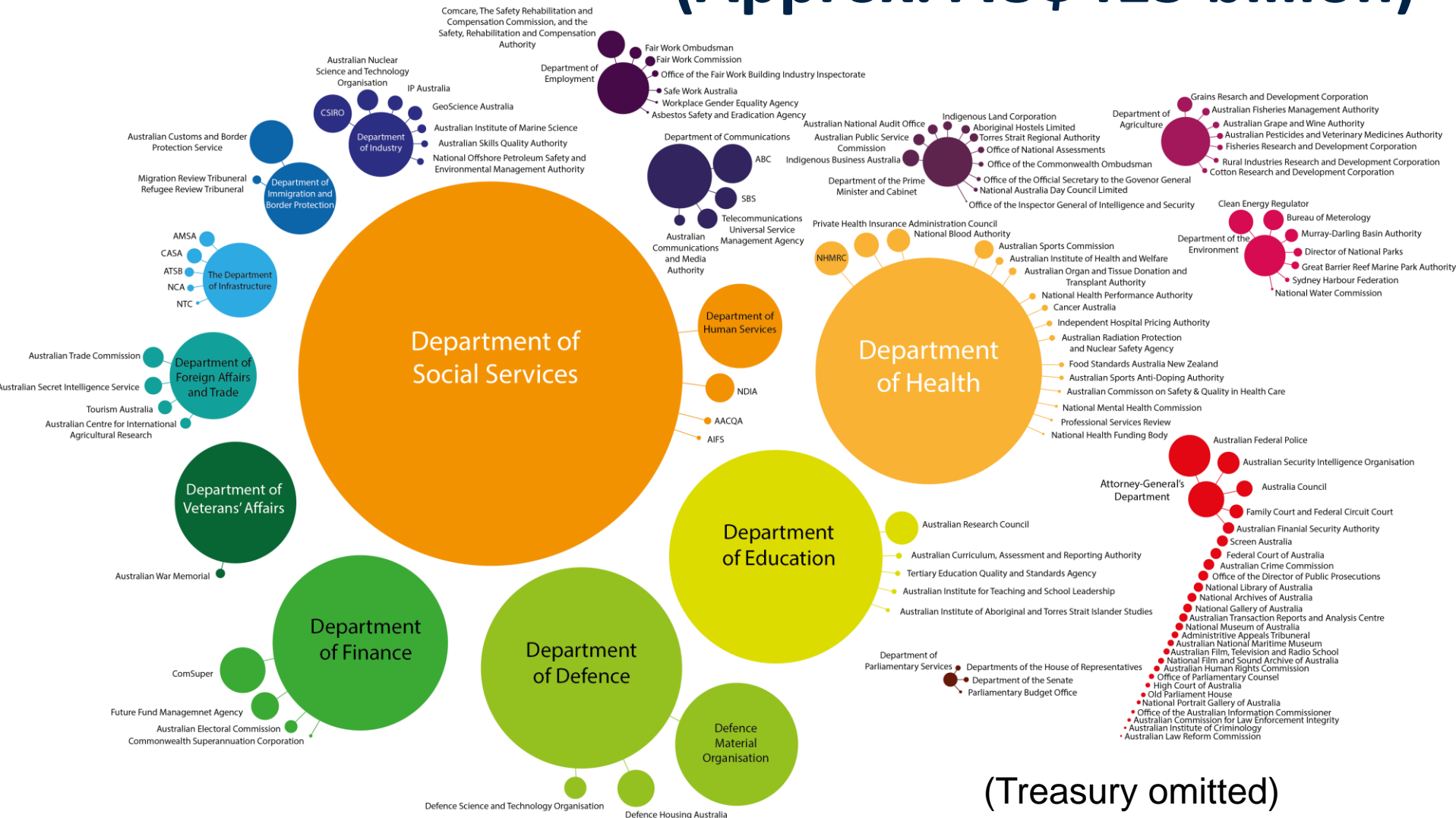RESEARCH *for a creative, innovative and productive Australia*

Outline

- **Current Funding Landscape**
- ARC Grants Search
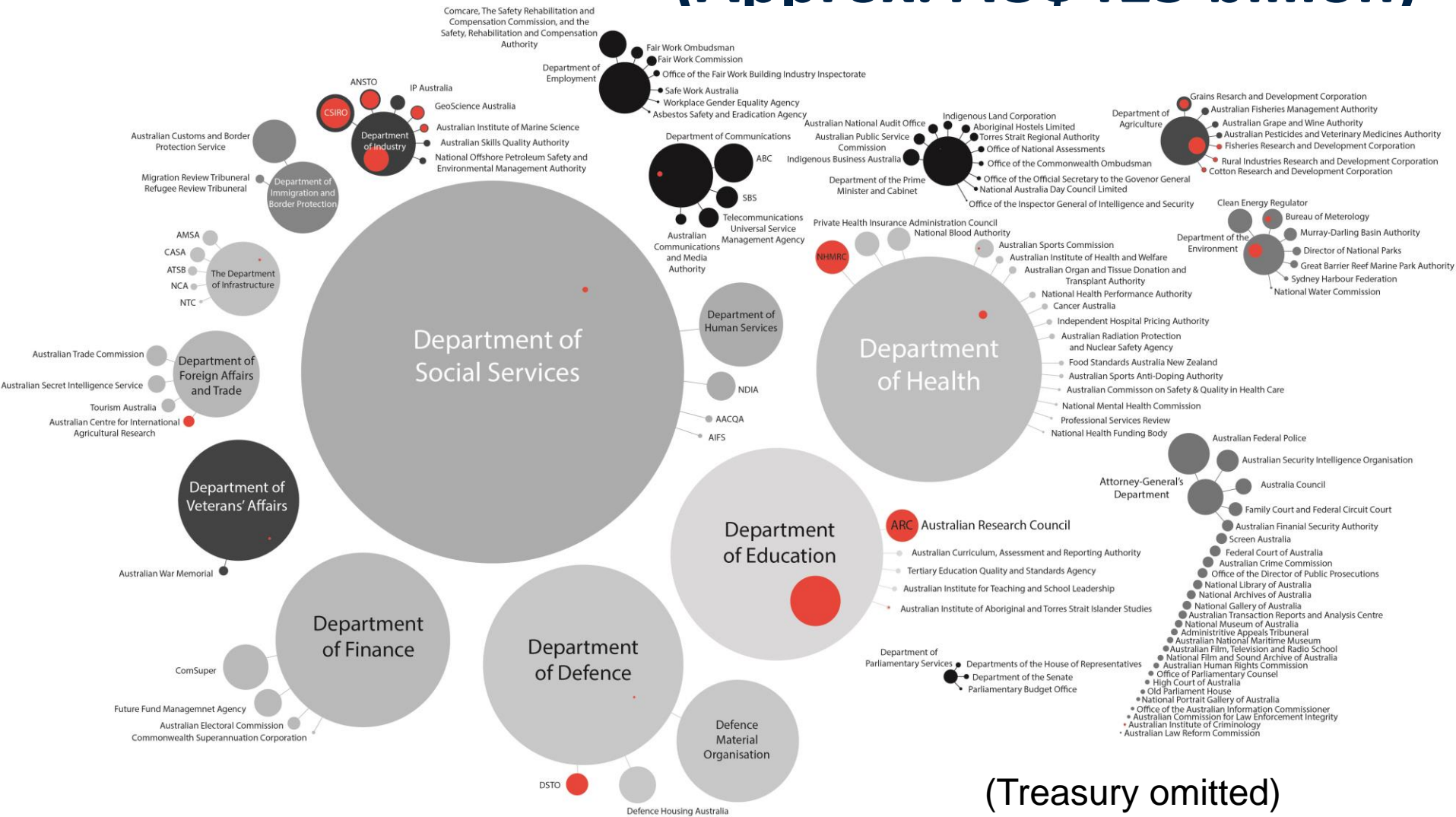- ICT and NICTA in the grants mix
- Network mapping ICT grants
- ERA
- ATSE

2014–15 Federal Budget (Approx. AU$415 billion)
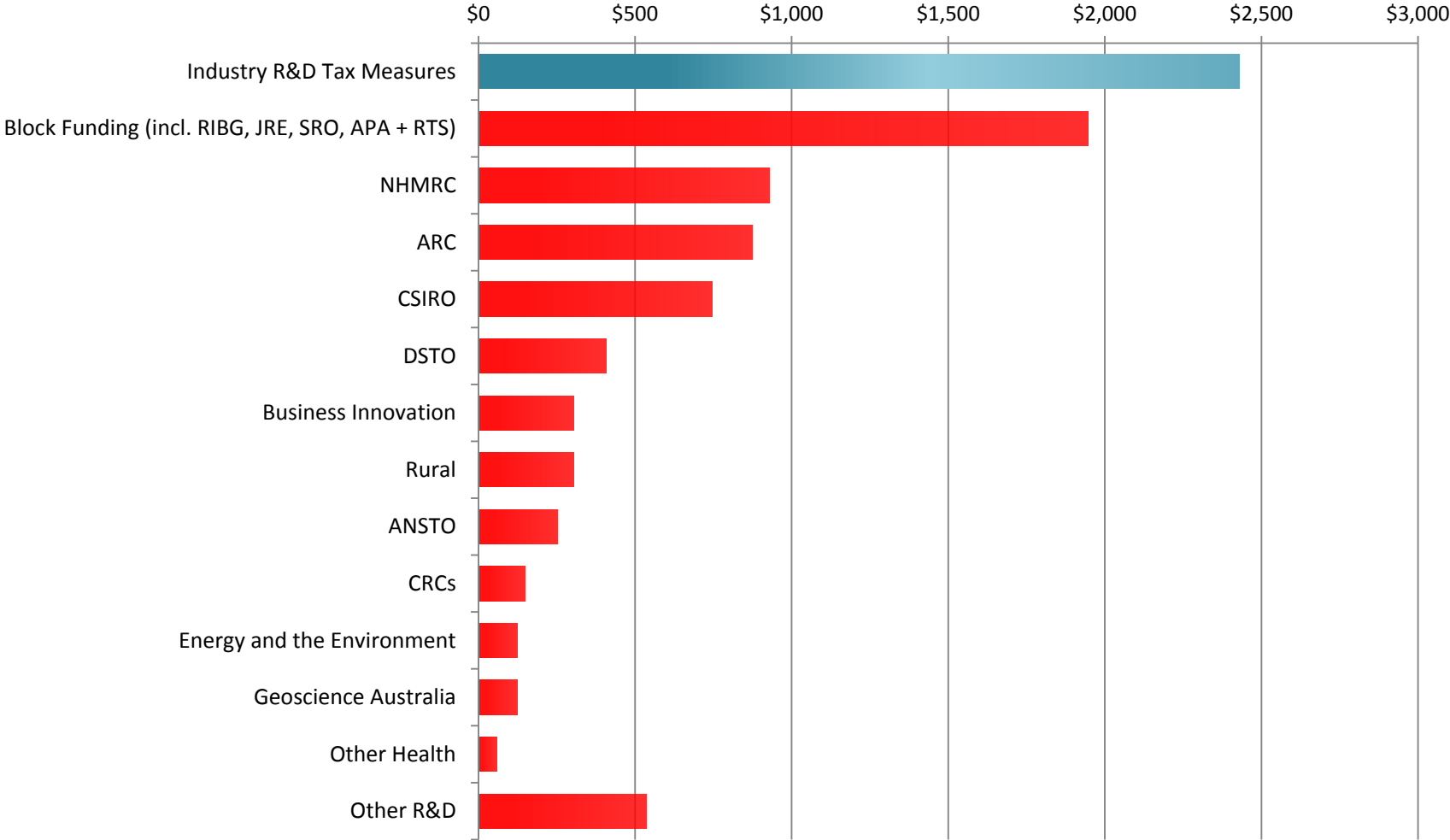

(Treasury omitted)
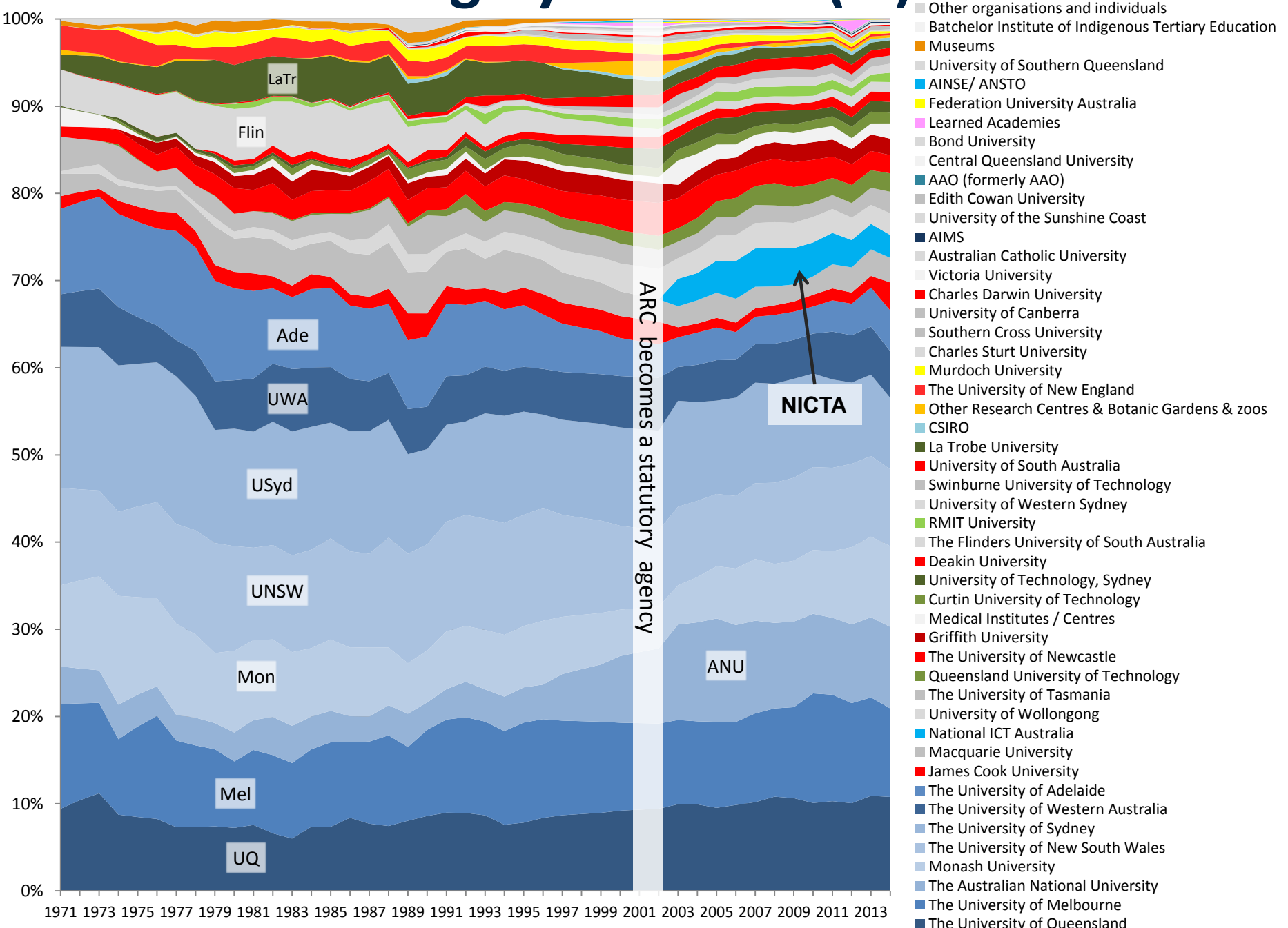
2014–15 Federal Budget (Approx. AU$415 billion)

(Treasury omitted)

Commonwealth Investment in R&D 2014–15 ($m)

Grants funding by institute (%) 1971–2014

National Competitive Grants Program

Discovery Programs

Laureate Fellowships

Future Fellowships

DECRA

Other Fellowships →

Discovery Projects

Linkage Programs

Centres of Excellence

(incl. NICTA)

SRIs

Other Linkage →

ITRP

LIEF
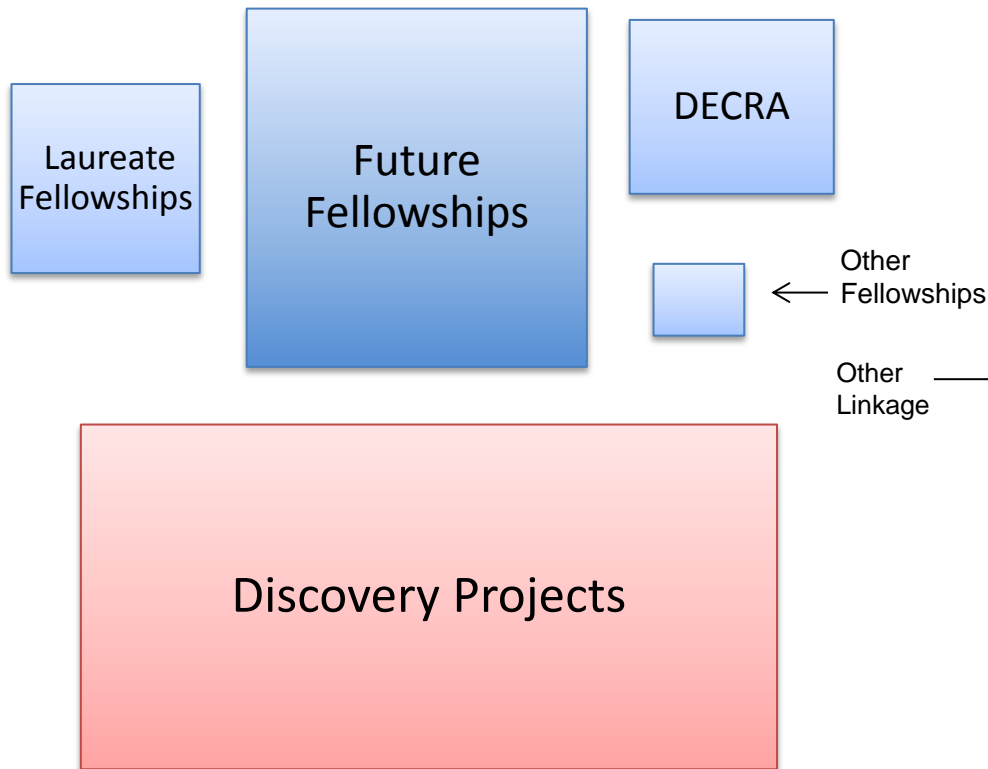
Linkage Projects
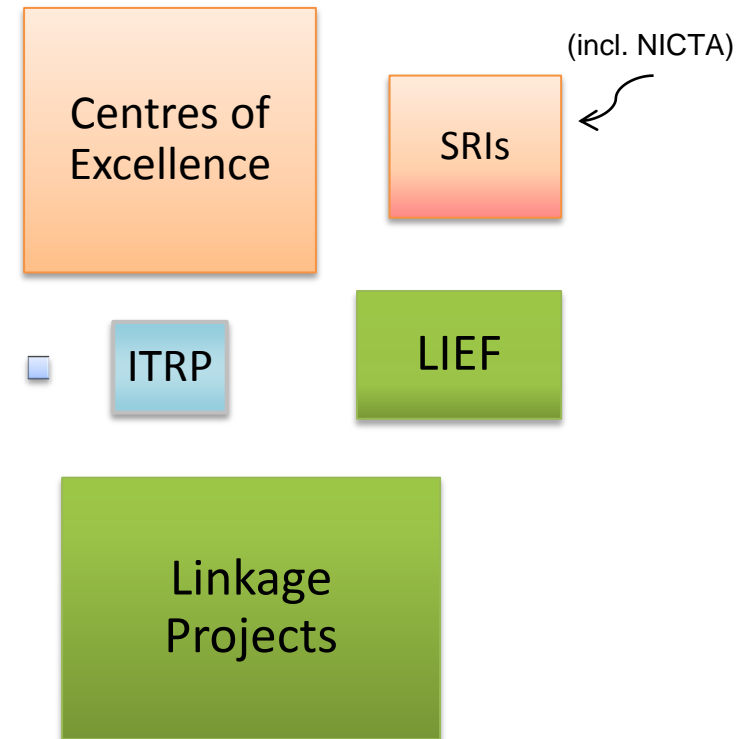
Area of box represents $$ awarded over the period 2009–2014.
N.B. - Centres of Excellence, SRIs, not awarded in every year.
   - ITRP & DECRA only funding since 2012

ARC NCGP funding by scheme 2006–2014
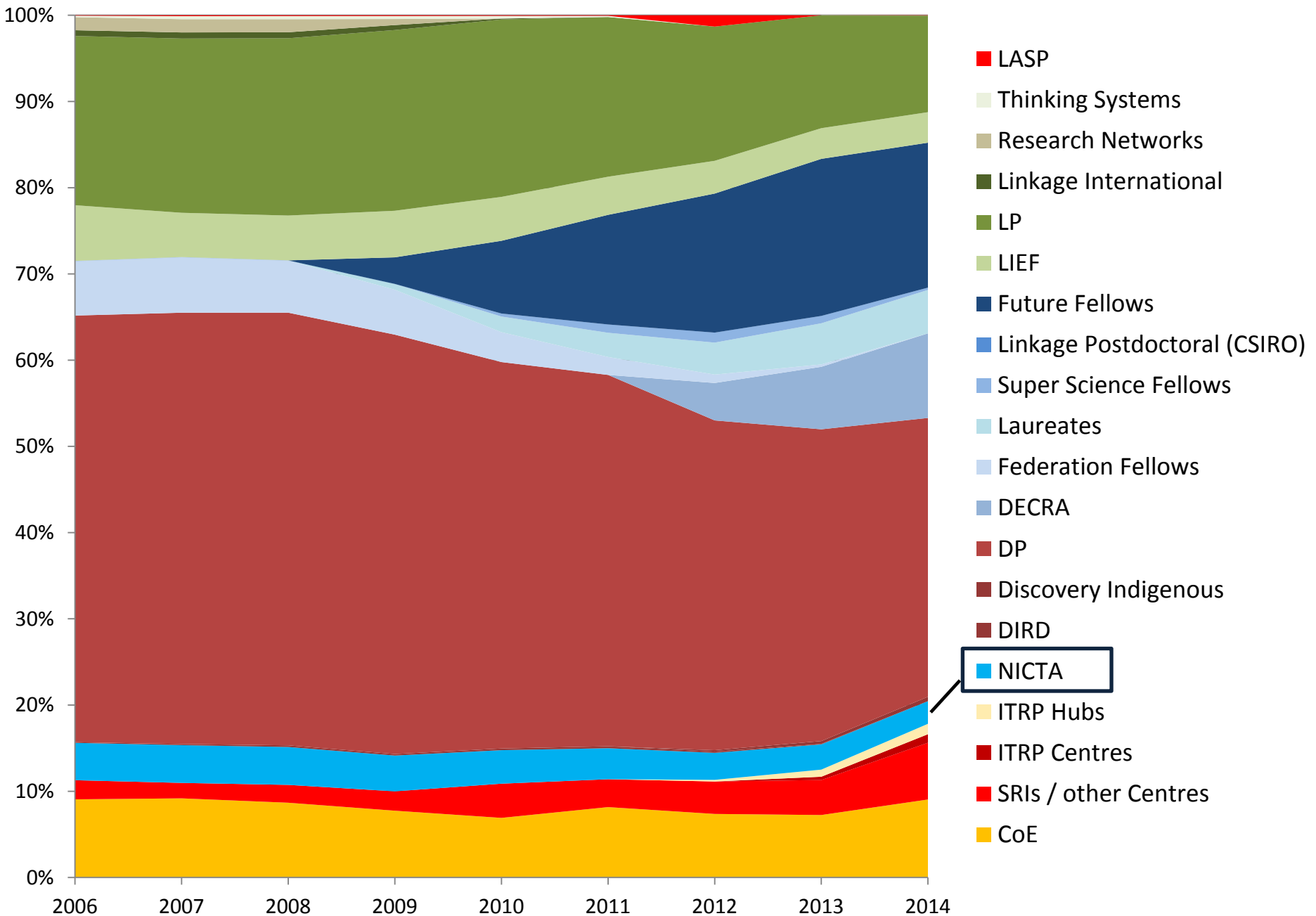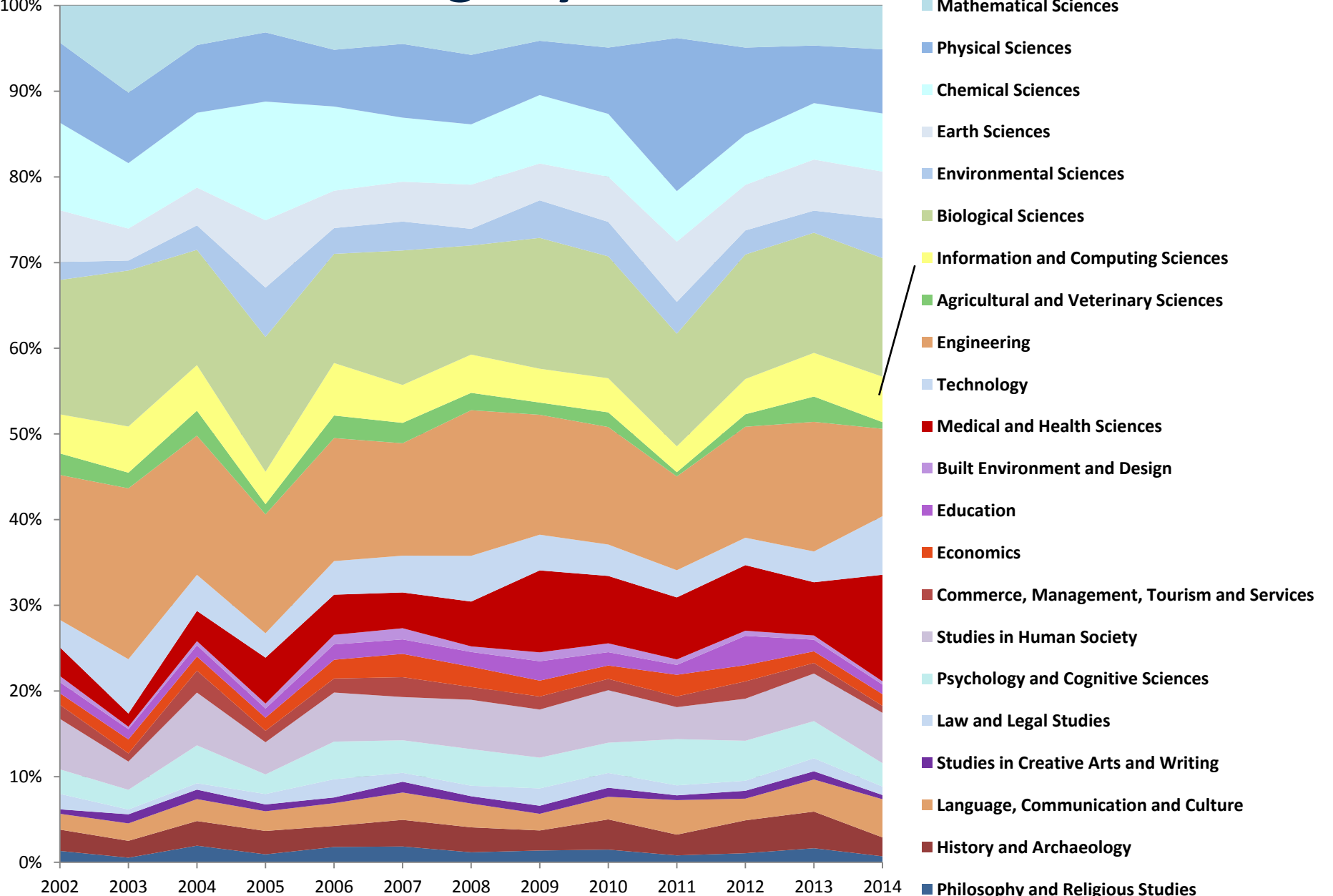
ARC NCGP funding* by Fields of Research 2002–2014

Legend:
- Mathematical Sciences
- Physical Sciences
- Chemical Sciences
- Earth Sciences
- Environmental Sciences
- Biological Sciences
- Information and Computing Sciences
- Agricultural and Veterinary Sciences
- Engineering
- Technology
- Medical and Health Sciences
- Built Environment and Design
- Education
- Economics
- Commerce, Management, Tourism and Services
- Studies in Human Society
- Psychology and Cognitive Sciences
- Law and Legal Studies
- Studies in Creative Arts and Writing
- Language, Communication and Culture
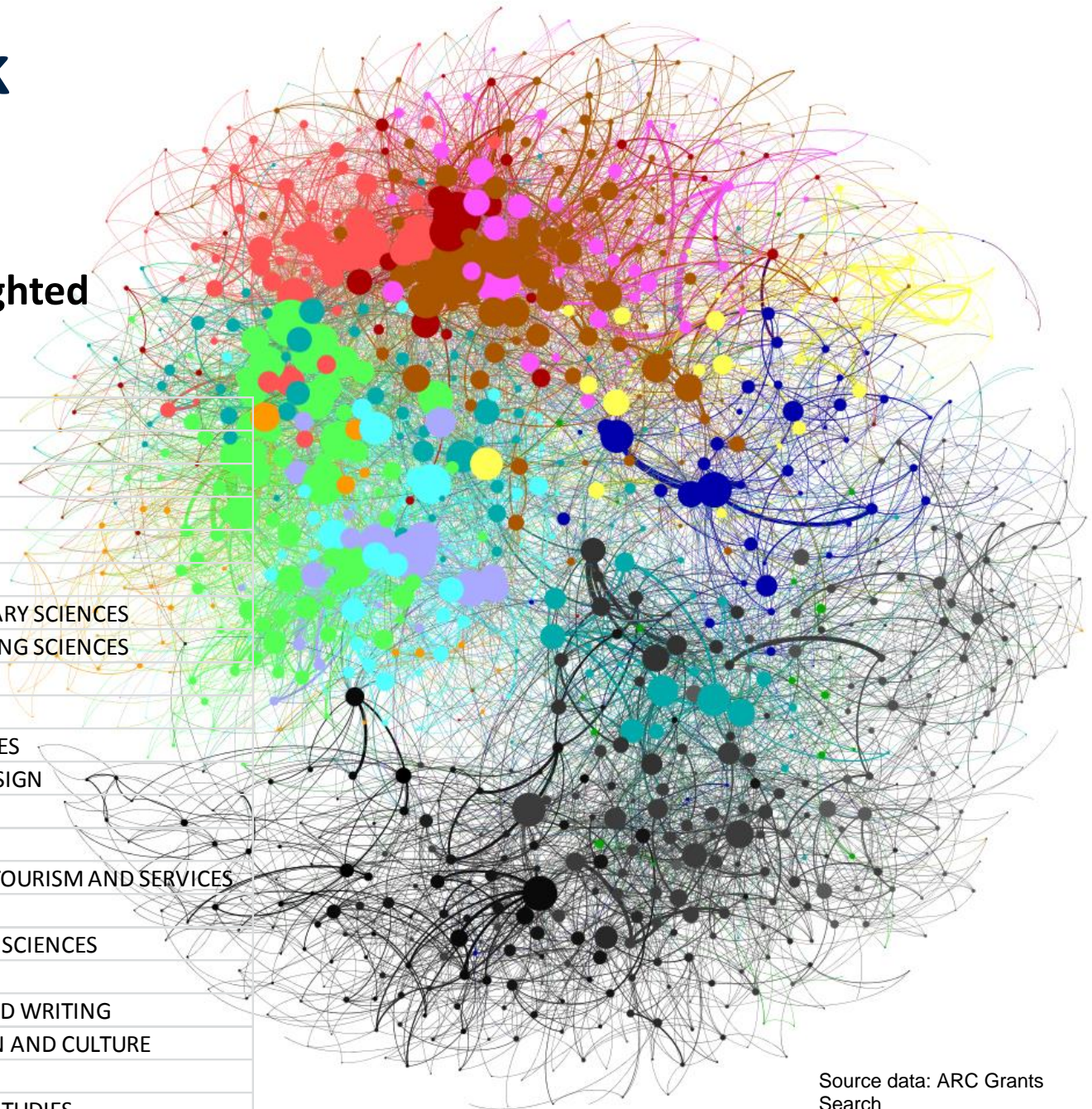- History and Archaeology
- Philosophy and Religious Studies

*All grants, excluding NICTA and some co-funded centres and SRIs where Field of Research was not nominated

FOR Network mapping...
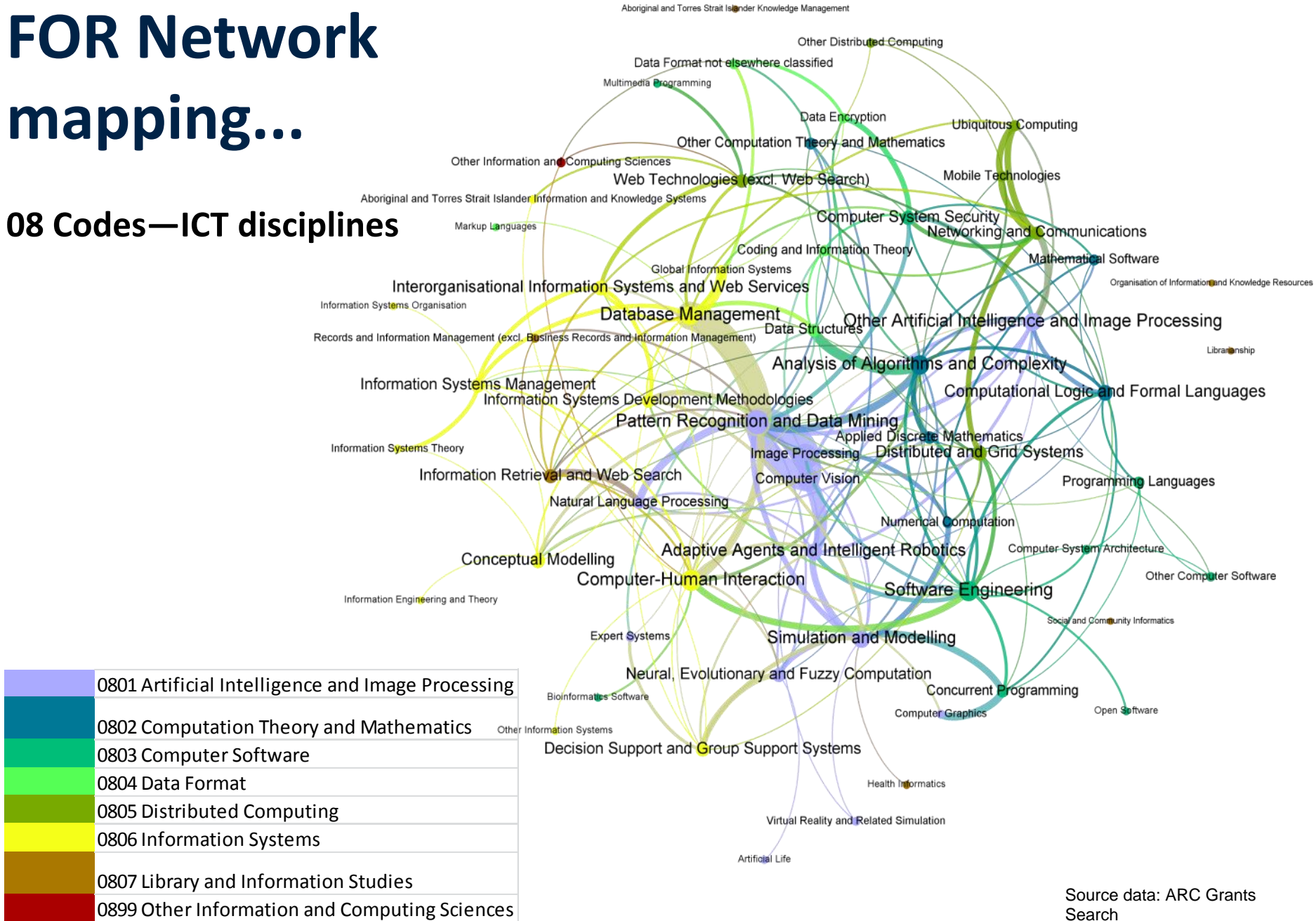
STEM disciplines highlighted

- 01 MATHEMATICAL SCIENCES
- 02 PHYSICAL SCIENCES
- 03 CHEMICAL SCIENCES
- 04 EARTH SCIENCES
- 05 ENVIRONMENTAL SCIENCES
- 06 BIOLOGICAL SCIENCES
- 07 AGRICULTURAL AND VETERINARY SCIENCES
- 08 INFORMATION AND COMPUTING SCIENCES
- 09 ENGINEERING
- 10 TECHNOLOGY
- 11 MEDICAL AND HEALTH SCIENCES
- 12 BUILT ENVIRONMENT AND DESIGN
- 13 EDUCATION
- 14 ECONOMICS
- 15 COMMERCE, MANAGEMENT, TOURISM AND SERVICES
- 16 STUDIES IN HUMAN SOCIETY
- 17 PSYCHOLOGY AND COGNITIVE SCIENCES
- 18 LAW AND LEGAL STUDIES
- 19 STUDIES IN CREATIVE ARTS AND WRITING
- 20 LANGUAGE, COMMUNICATION AND CULTURE
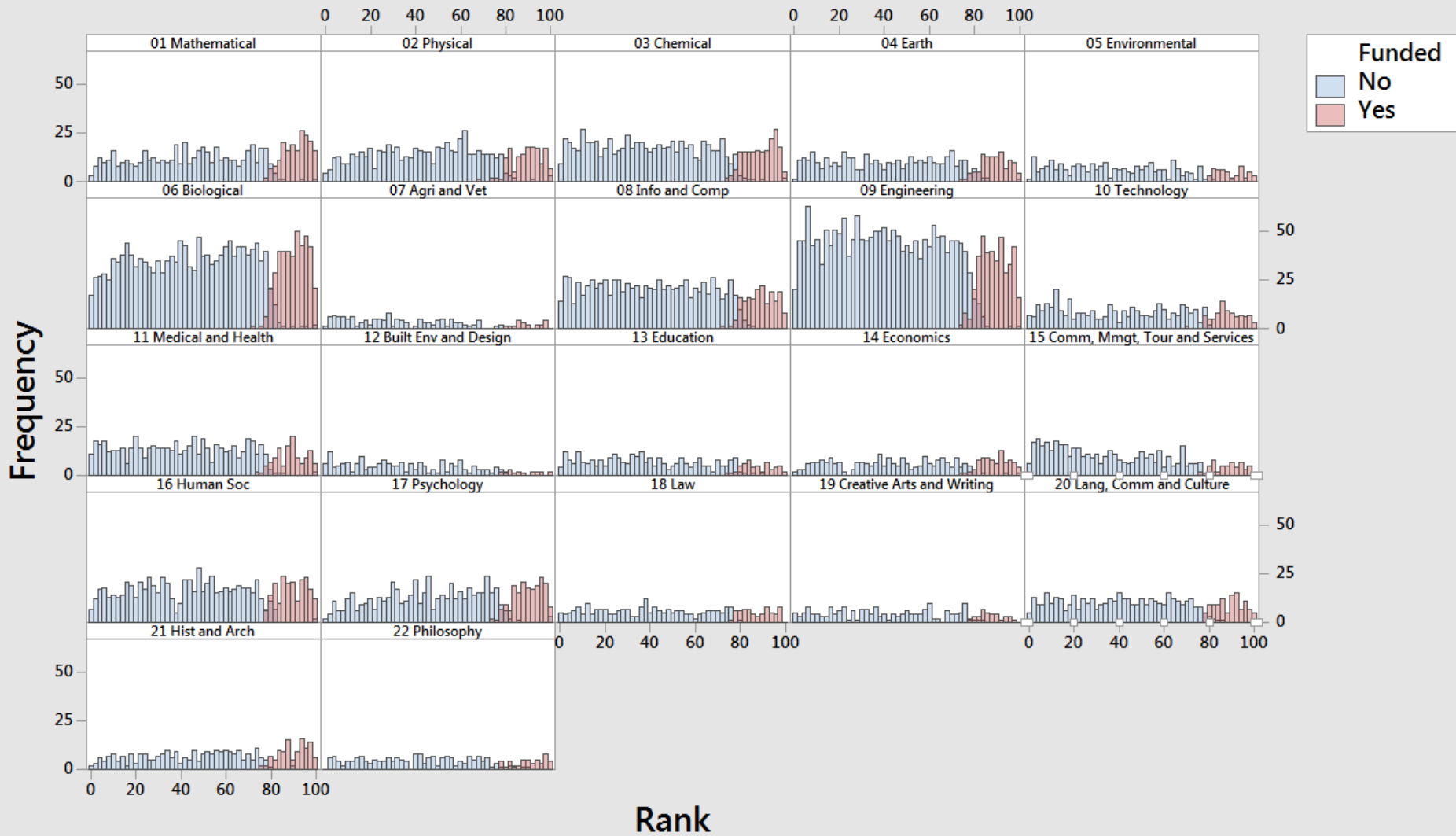- 21 HISTORY AND ARCHAEOLOGY
- 22 PHILOSOPHY AND RELIGIOUS STUDIES

Source data: ARC Grants Search

FOR Network mapping...

08 Codes—ICT disciplines

	Code	Description
	0801	Artificial Intelligence and Image Processing
	0802	Computation Theory and Mathematics
	0803	Computer Software
	0804	Data Format
	0805	Distributed Computing
	0806	Information Systems
	0807	Library and Information Studies
	0899	Other Information and Computing Sciences

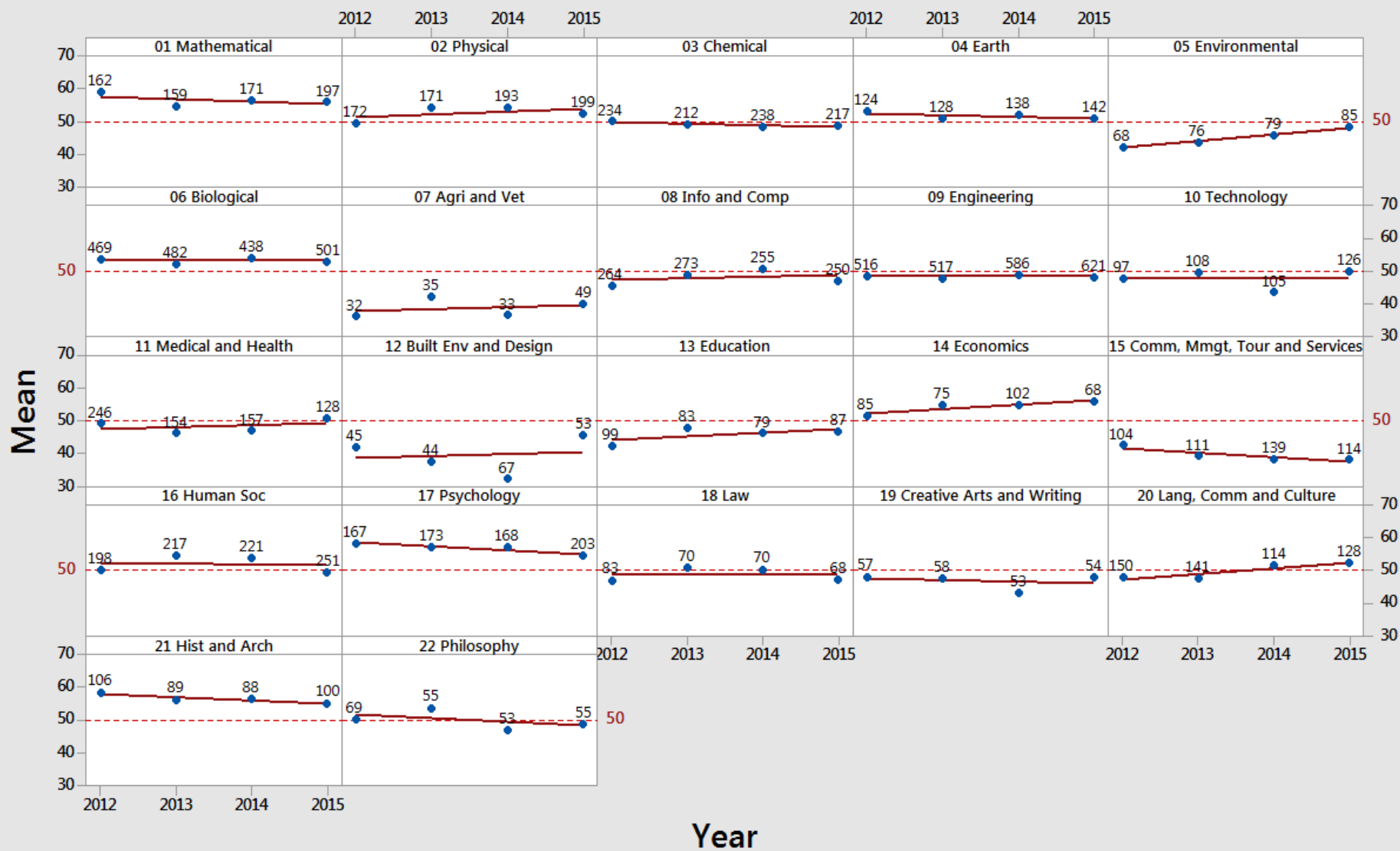Source data: ARC Grants Search
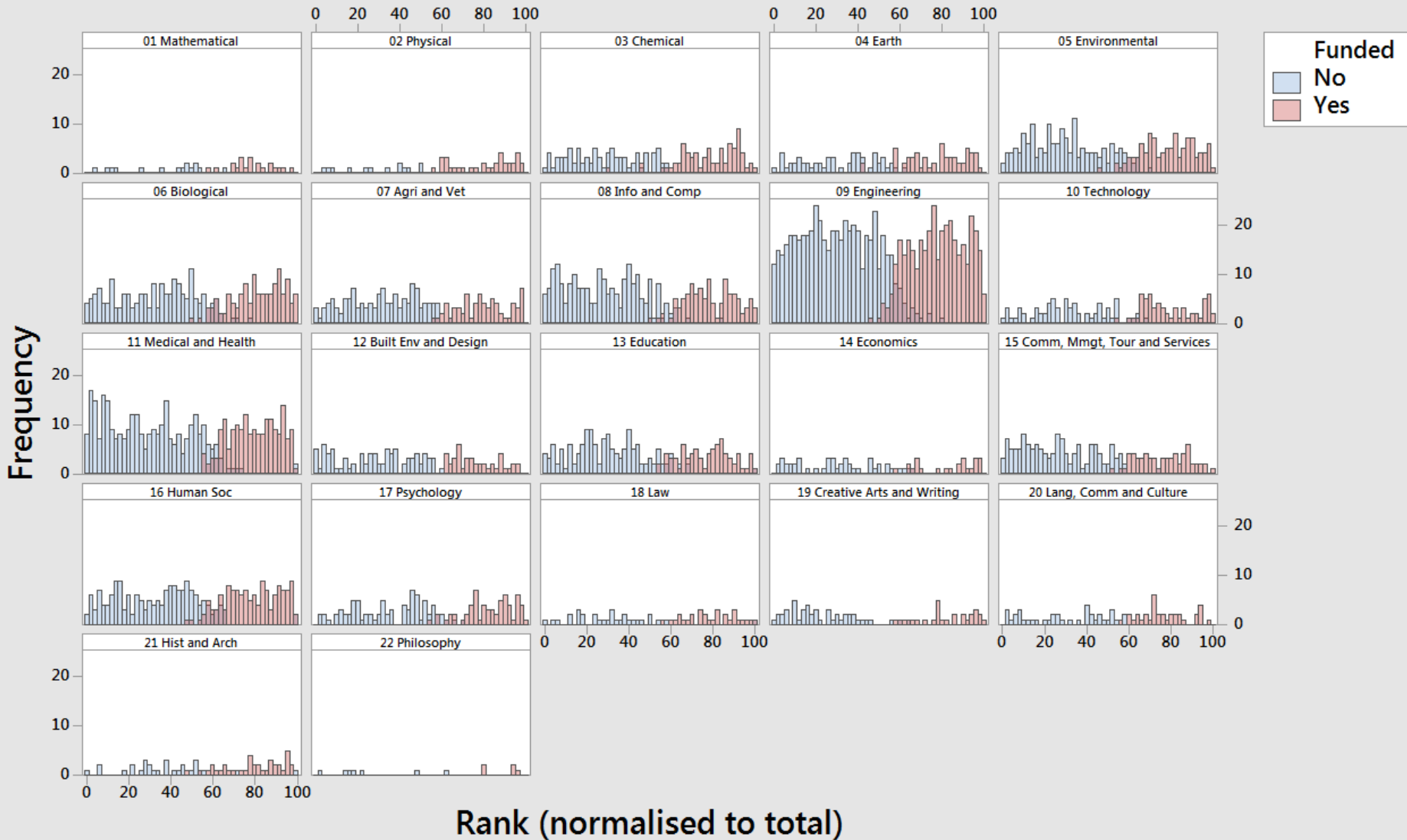
Histogram of Rank, Discovery Projects 2012–2015

Panel variable: 2D Code

Mean value of normalised rankings, DP 2012–2015

Histogram of Rank, Linkage Projects 2012–2014

Rank (normalised to total)

Mean value of normalized rankings, LP 2010–2014
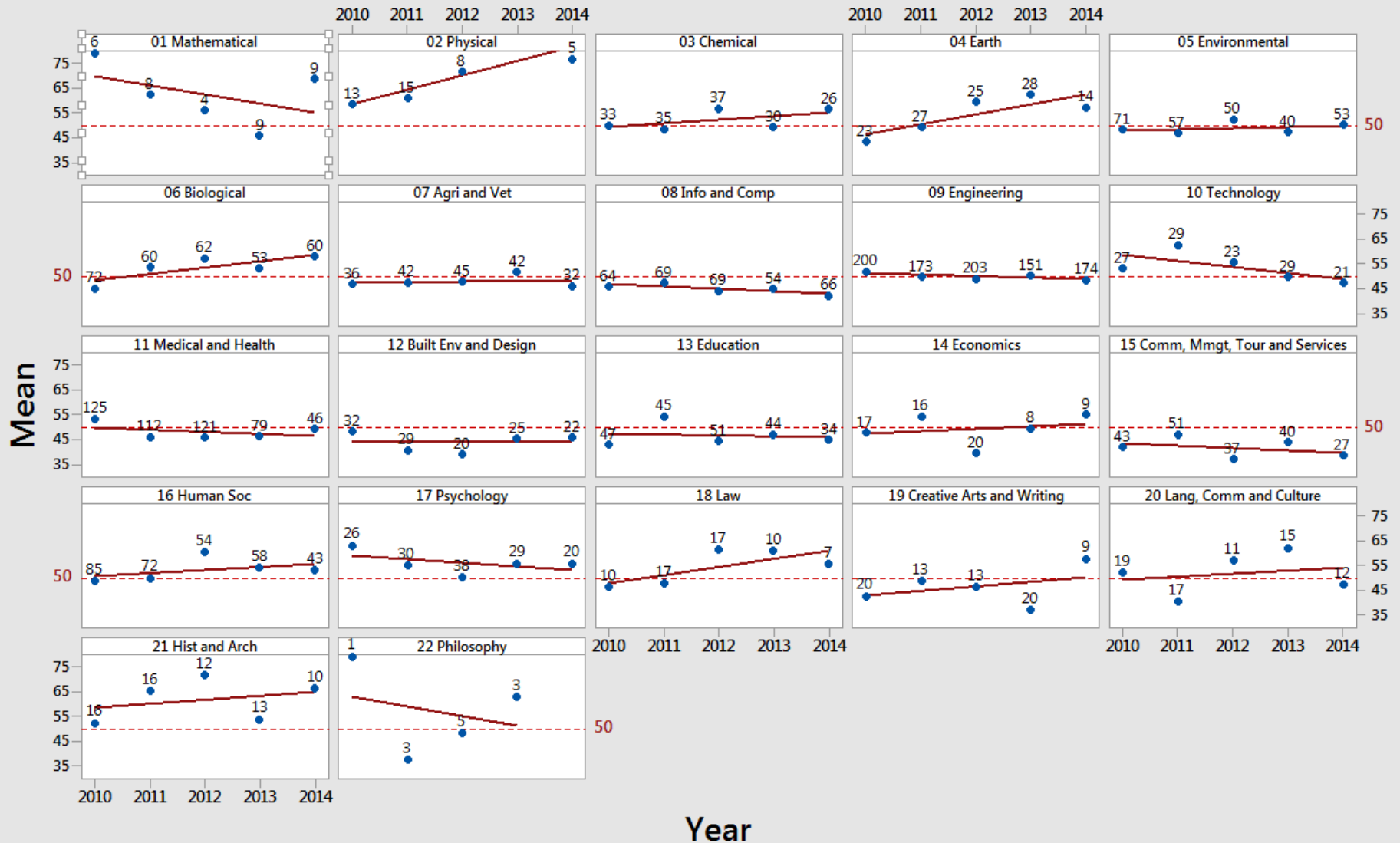
Histogram of Rank (normalised to total) DECRA 2012 –2015
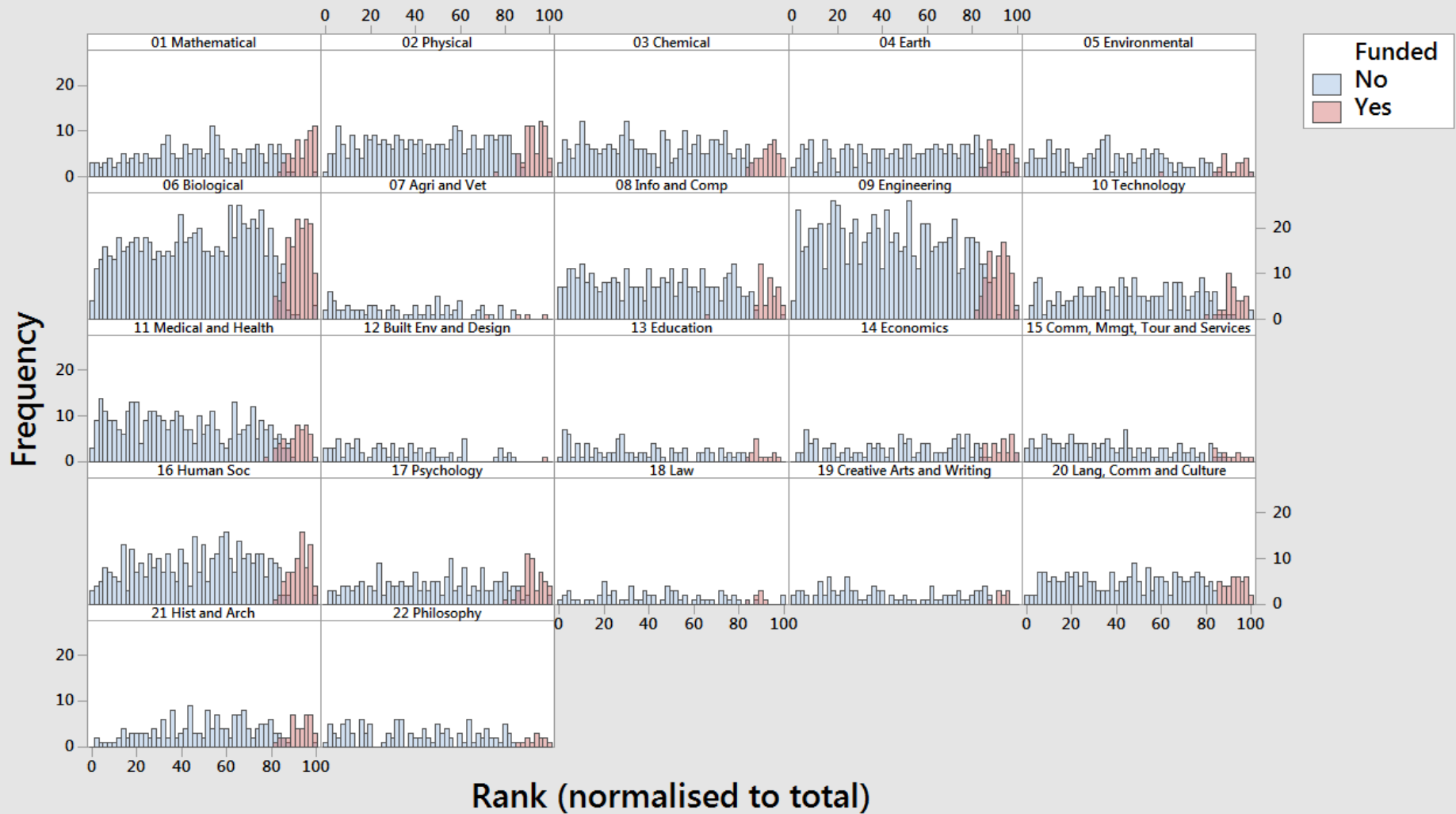
Panel variable: 2D Code

Mean value of normalized rankings
DECRA 2012– 2015

Excellence in research for Australia
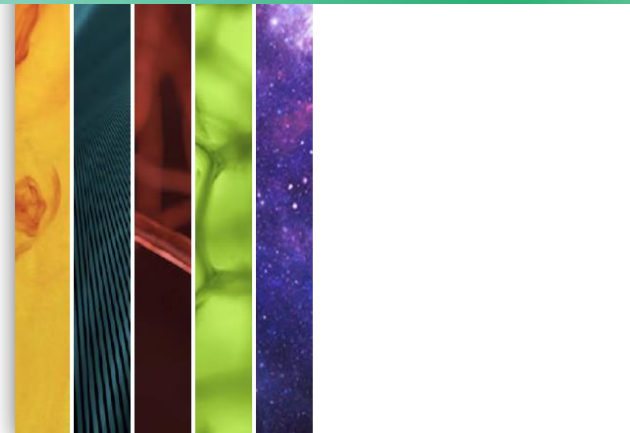
Where is ERA up to?

ERA 2015

- 8 Chairs Appointed

- 147 REC members appointed

- Over 1,100 peer reviewers appointed

- Evaluation underway

- Results early December 2015

Post ERA 2015

- Work on evaluation metrics for next round

Engagement by University
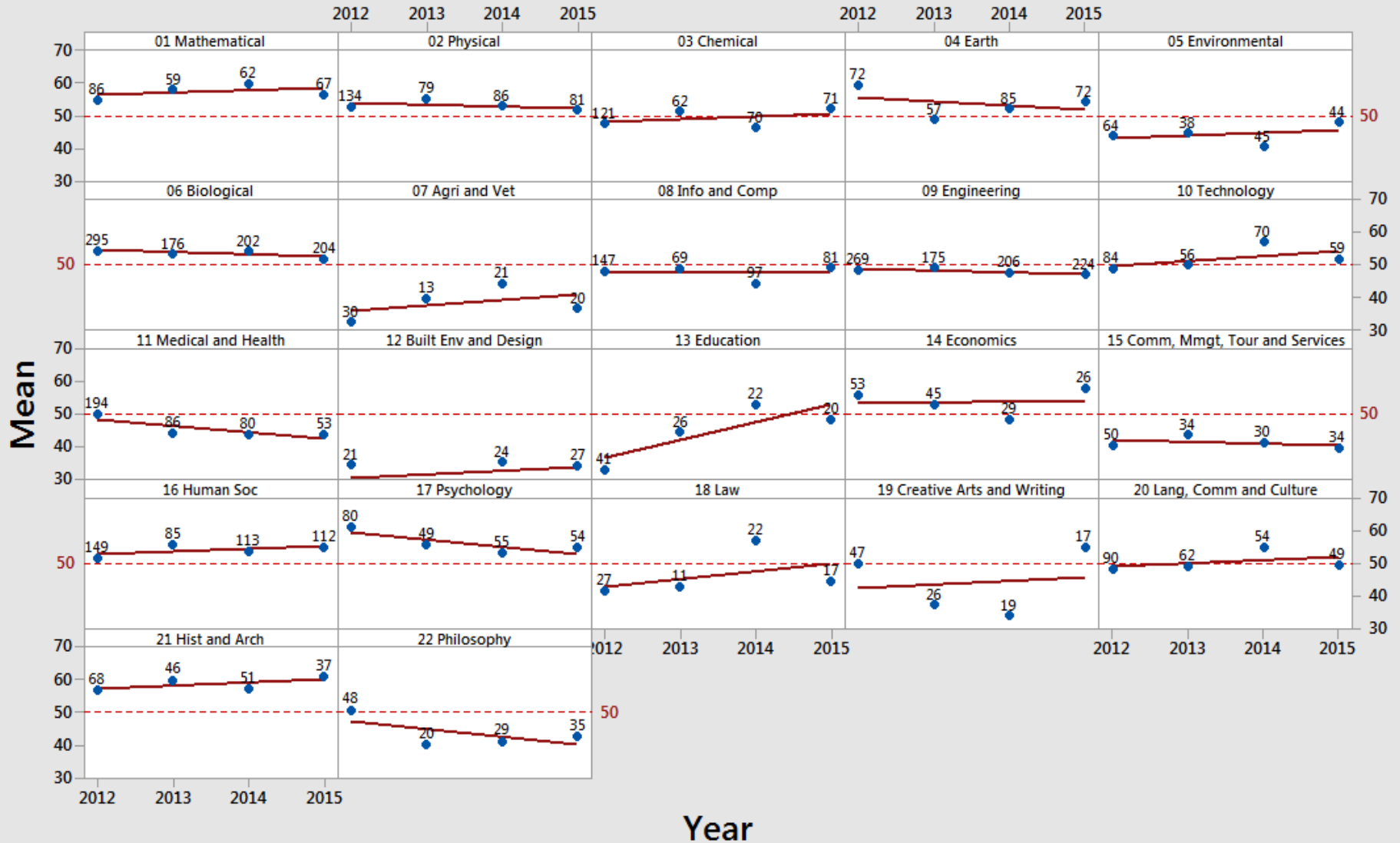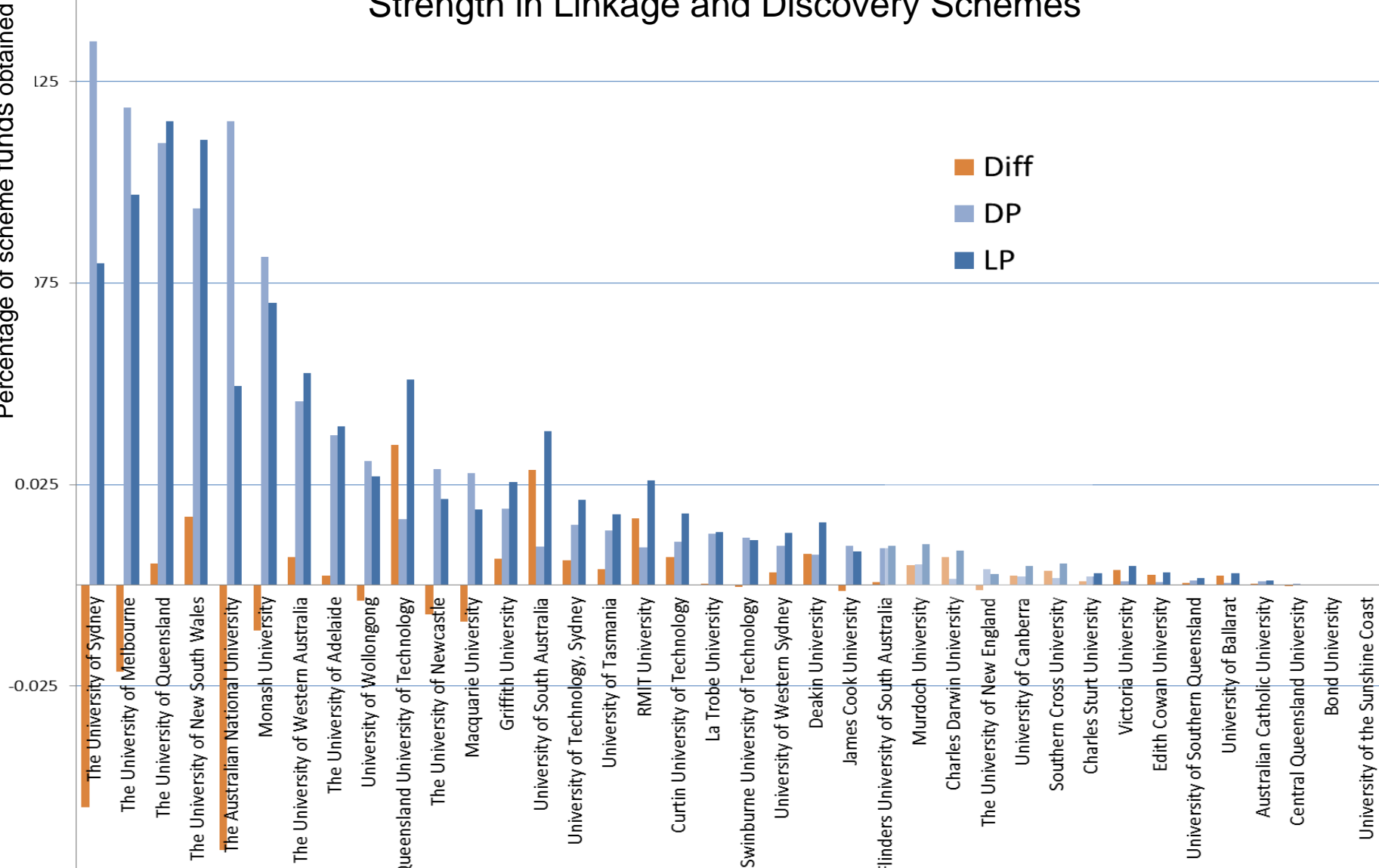## Strength in Linkage and Discovery Schemes

Percentage of scheme funds obtained

Legend:
- Diff
- DP
- LP

Universities (left to right):
The University of Sydney, The University of Melbourne, The University of Queensland, The University of New South Wales, The Australian National University, Monash University, The University of Western Australia, The University of Adelaide, University of Wollongong, Queensland University of Technology, The University of Newcastle, Macquarie University, Griffith University, University of South Australia, University of Technology, Sydney, University of Tasmania, RMIT University, Curtin University of Technology, La Trobe University, Swinburne University of Technology, University of Western Sydney, Deakin University, James Cook University, Flinders University of South Australia, Murdoch University, Charles Darwin University, The University of New England, University of Canberra, Southern Cross University, Charles Sturt University, Victoria University, Edith Cowan University, University of Southern Queensland, University of Ballarat, Australian Catholic University, Central Queensland University, Bond University, University of the Sunshine Coast

Discussion/questions