The University of Western Australia
Funding Your Research

21 August 2014

Professor Aidan Byrne
CEO, Australian Research Council
Commonwealth Investment in R&D 2013-14

- ARC: 10.23%
- NHMRC: 9.93%
- Other health: 1.00%
- APA + RTS: 10.93%
- RIBG+JRE+SRE: 8.48%
- Other Higher Ed R&D Support: 3.39%
- Energy and the Environment: 2.39%
- Rural: 3.94%
- CRCs: 1.67%
- Multisector Science Support: 2.44%
- DSTO: 4.94%
- CSIRO: 8.76%
- Other Govt R&D: 7.41%
- Industry R&D Tax Measures: 19.44%
- Other Innovation Support: 5.00%

Source: Budget 2013-2014 Industry and Innovation tables
2014-15 Federal Budget

(Treasury omitted)
Trends in Government Investment in R&D $M 2004-14
(source: 2013-14 budget tables)
National Competitive Grants Program

**Discovery Programs**

- Laureate Fellowships
- Future Fellowships
- DECRA
- Other Fellowships

**Linkage Programs**

- Centres of Excellence
- Co-Funded & SRI
- LIEF
- ITRP

Discovery Projects

Linkage Projects

Area of box represents $$ awarded over the period 2008-2013. N.b. ITRP & DECRA running for less than five years.
ARC funding awarded by program – last 5 years

- Discovery Projects: 40.3%
- Future Fellowships: 17.3%
- Linkage Projects: 17.1%
- Centres of Excellence: 6.0%
- Australian Laureate Fellowships: 5.1%
- LIEF: 4.3%
- DECRA: 4.1%
- Special Research Initiatives: 2.9%
- Other: 2.7%
- Discovery Indigenous: 0.2%
Key funding features of schemes

- Discovery Projects and Discovery Indigenous primarily award project costs (travel, equipment, staff, etc.)
- DECRA and Futures primarily awards a salary for the awardee, with a small allocation of project costs
- Laureate Fellowships awards a salary top-up plus funding for a team of postdoctoral and postgraduate researchers
- Each scheme has different selection criteria, rules and funding limits, as each serves a different purpose
FOR Network mapping
[Fruchterman reingold]

STEM disciplines highlighted

Source data:
http://www.arc.gov.au/general/searchable_data.htm
FOR Network mapping..
[Fruchterman reingold]

HASS disciplines highlighted

Source data:
http://www.arc.gov.au/general/searchable_data.htm
ERA 2010, 2012
The University of Western Australia
Publishing for Impact

21 August 2014

Professor Aidan Byrne
CEO, Australian Research Council
Income and Quality

HERDC income Cat 1-3 by rating - 2010

ERA rating

- National Competitive
- Other Public
- Industry
ERA 2012 ARC/NHMRC research funding by discipline
ERA 2012: Two Digit FoR codes

No. of Universities rated at world standard or higher

- 01 Mathematical Sciences: 11
- 02 Physical Sciences: 10
- 03 Chemical Sciences: 15
- 04 Earth Sciences: 4
- 05 Environmental Sciences: 10
- 06 Biological Sciences: 15
- 07 Agricultural and Veterinary Sciences: 9
- 08 Information and Computing Sciences: 12
- 09 Engineering: 9
- 10 Technology: 1
- 11 Medical and Health Sciences: 13
- 12 Built Environment and Design: 13
- 13 Education: 11
- 14 Economics: 7
- 15 Commerce, Management, Tourism and Services: 5
- 16 Studies In Human Society: 11
- 17 Psychology and Cognitive Sciences: 17
- 18 Law and Legal Studies: 10
- 19 Studies In Creative Arts and Writing: 15
- 20 Language, Communication and Culture: 15
- 21 History and Archaeology: 12
- 22 Philosophy and Religious Studies: 12

Legend:
- World standard
- Above world standard
- Well above world standard
### Variation at Four-digit Level: STEM vs HASS

**Mathematical Studies (01) and Language, Communication and Culture (20)**

Number of Universities Rated at World Standard or Higher

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>At World Standard</th>
<th>Above World Standard</th>
<th>Well Above World Standard</th>
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<td>- 2012</td>
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<td>- 2012</td>
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<td>- 2012</td>
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</tbody>
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Number of Australian Universities
Excellence in research for Australia

ERA 2015

Excellence in Research for Australia
Patent/Relative Citation Impact by ERA 2012 Rating (4-digit)

High impact?

High impact and high quality?

High quality?
Collaborating Countries on ARC Linkage Projects Grants 2005-2013

- United States: 26%
- United Kingdom: 15%
- Canada: 7%
- Germany: 6%
- China: 5%
- New Zealand: 5%
- France: 4%
- Switzerland: 2%
- Sweden: 2%
- Italy: 2%
- Singapore: 2%
- Japan: 3%
Mapping Engagement:

Linkage Projects vs. Discovery Projects

Linkage  $112m
Discovery  $50m
Strength in scheme  $12m
avg. p.a.  \$LP + \$DP
Engagement by Cohort
Strength in Linkage and Discovery Schemes

Group of Eight
Non-Aligned
Innovative Research Universities
Regional Universities Network
Australian Technology Network

Discovery Linkage
Engagement by University
Strength in Linkage and Discovery Schemes

Percentage of scheme funds obtained
ARC Open Access Policy

• Open Access to publications
  – Starting in January 2013, it is mandated by ARC funding rules that completed projects must make their publications available on an open access repository
    http://www.arc.gov.au/applicants/open_access.htm
  – Implementation – first pubs expected in 2014

• Open Data

• Open Innovation
What are the guiding principles of Open Access?

- Societal benefit
- Research benefit
- Individual benefit
Discussion/questions