ARC funding, HCA and public/national benefit

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Sources


Themes

• Humanities funding in the national context
• How the ARC assesses: quality and benefit
• Interdisciplinarity and emergent fields
• Research partnerships
• Collecting organisations
• Linkage, LIEF and Centres of Excellence.
ARC funding in the national context
Commonwealth Investment in R&D 2013–14

- ARC 10.2%
- NHMRC 9.9%
- Other health 1.0%
- Block Funding to Higher Ed 21.9%
- Other Higher Ed R&D Support 0.9%
- CRCs R&D Support 1.7%
- Rural 3.9%
- Energy and the Environment 2.4%
- Multisector Science Support 2.4%
- Energy and the Environment 2.4%
- Other Govt R&D 7.4%
- DSTO 4.9%
- CSIRO 8.8%
- Industry R&D Tax Measures 19.4%
- Other Industry R&D support 0.1%
- Other Innovation Support 5.0%

Source: Budget 2013–2014 Industry and Innovation tables
This is us!
National Competitive Grants Program

**Discovery Projects**
- Laureate Fellowships
- Future Fellowships
- DECRA
- Discovery Indigenous

**Linkage Projects**
- Centres of Excellence
- Co-Funded & SRI
- ITRP
- LIEF

**5 year averages**
DP Grants outcomes

• Success rates
Australian Research Grants Committee 1974—
% funding share compared with ARC NCGP 2013

- U Sydney
- Monash
- U Adelaide
- UNSW
- U Melbourne
- U Queensland
- UWA
- ANU
- Flinders
- U Tas
- UNE
- La Trobe
- Macquarie
- Newcastle
- Victoria...
- James Cook
- NSW (others)
- Wollongong
- RMC
- WA (others)
- Murdoch
- Tas (others)
- QLD (others)
- Griffith
- SA (others)
- ACT (others)
Engagement by University
Strength in Linkage and Discovery Schemes

Percentage of scheme funds obtained

- The University of Sydney
- The University of Melbourne
- The University of Queensland
- Monash University
- The University of New South Wales
- The Australian National University
- The University of Western Australia
- University of Wollongong
- The University of Adelaide
- University of Auckland
- Queensland University of Technology
- The University of Newcastle
- Macquarie University
- Griffith University
- University of South Australia
- University of Technology, Sydney
- University of Western Sydney
- RMIT University
- Curtin University of Technology
- La Trobe University
- Swinburne University of Technology
- University of Western Sydney
- Deakin University
- James Cook University
- 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
How the ARC assesses: quality and benefit
The Grants Peer Review Process

All Disciplines

- Biological Sciences and Biotechnology (BSB)
- Engineering, Mathematics and Informatics (EMI)
- Humanities and Creative Arts (HCA)
- Physics, Chemistry and Earth Sciences (PCE)
- Social, Behavioural and Economic Sciences (SBE)
ARC Assignment Information

• The ARC has completely redesigned the way that potential assessors are matched to a proposal for assessment purposes.

• Multiple areas of the proposal are mined for a set of keywords and presented to the person completing the assignments as a word cloud.
ARC Assignment Information

• This information is then matched to information stored against a potential assessor’s profile and presented in a similar word cloud

• The most appropriate person is then selected and assigned to the proposal to assess.
The Grants Peer Review Process

- External Reviewer
- Internal Reviewer
- Rank
  - Committee Review
  - Recommendation to CEO
  - Minister Approval

$\$\$
• The ARC is committed to ensuring all eligible researchers have fair access to competitive funding through the National Competitive Grants Program.

• The ARC considers that Research Opportunity comprises two separate elements:
  – Career experiences (relative to opportunity)
  – Career interruptions

Success Rate: Comparison of Schemes

Success Rate in commencement year 2013

- Linkage - Infrastructure Equipment...
- Linkage - Projects - 39%
- Discovery Indigenous
- Industrial Transformation Training...
- Discovery - Projects
- ARC Future Fellowships
- Discovery Early Career Researcher...
- Australian Laureate Fellowships

Web: arc.gov.au | Email: info@arc.gov.au
Number of proposals received and funded by 2-digit FoR code

[past 4 years Discovery Projects and 5 years Linkage Projects]
Total ARC funding by major scheme and selected HCA/SBE disciplines (2002–14)
Case study 1:
2002 Cultural studies
Funding ($) for projects with primary 4-digit FoR in Cultural Studies by scheme (2011 to 2014)

No projects funded in LIEF scheme
Cultural Studies (2002) by 6-digit level FoR code (all schemes, regardless of primary classification code) (2010/11 to 2014)

Size of bubble indicates the total percentage of a 6-digit level code in all projects funded.
Percentage totals of 6-digit level code (2010/11–14) (DP and LP)

**DP**

- 2002 04: Cultural Theory
- 2002 03: Consumption and Everyday Life
- 2002 99: Cultural Studies not elsewhere classified
- 2002 12: Screen and Media Culture
- 2002 06: Globalisation and Culture
- 2002 02: Asian Cultural Studies
- 2002 05: Culture, Gender, Sexuality
- 2002 09: Multicultural, Intercultural and Cross-cultural Studies
- 2002 01: Aboriginal and Torres Strait Islander Cultural...
- 2002 11: Postcolonial Studies
- 2002 08: Migrant Cultural Studies

**LP**

- 2002 04: Cultural Theory
- 2002 03: Consumption and Everyday Life
- 2002 99: Cultural Studies not elsewhere classified
- 2002 12: Screen and Media Culture
- 2002 06: Globalisation and Culture
- 2002 02: Asian Cultural Studies
- 2002 05: Culture, Gender, Sexuality
- 2002 09: Multicultural, Intercultural and Cross-cultural Studies
- 2002 01: Aboriginal and Torres Strait Islander Cultural...
- 2002 11: Postcolonial Studies
- 2002 08: Migrant Cultural Studies
Academic workforce issues and NCG success
First-time awardees on DECRA and DP

- **# DECRA first-timers**
- **# DP first-timers**
- **% first-timers**

<table>
<thead>
<tr>
<th>Year</th>
<th>DECRA First-Timers</th>
<th>DP First-Timers</th>
<th>% First-Timers</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>500</td>
<td>500</td>
<td>16%</td>
</tr>
<tr>
<td>2009</td>
<td>450</td>
<td>450</td>
<td>15%</td>
</tr>
<tr>
<td>2010</td>
<td>400</td>
<td>400</td>
<td>14%</td>
</tr>
<tr>
<td>2011</td>
<td>350</td>
<td>350</td>
<td>13%</td>
</tr>
<tr>
<td>2012</td>
<td>500</td>
<td>350</td>
<td>36%</td>
</tr>
<tr>
<td>2013</td>
<td>300</td>
<td>250</td>
<td>25%</td>
</tr>
</tbody>
</table>
DP13 - Submission and success rate by gender and career age

- Male proportion
- Female proportion
- Male success rate
- Female success rate
Figure 1. Participation and success of Chief Investigators (CIs) in DP15 by gender and career age*
ARC Linkage projects
Some Linkage Stats: Funding and Success Rates

Linkage Projects Funding and Success rate

- Total funding
- Success Rate

Since 2005 there have been nearly 2200 instances of collaboration with Australian private companies, as partner organisations on linkage grants.
LP14

Number approved and partner contributions
Average ARC funding, PO contribution and number of PO on each LP project

The Partner Organisation must make a significant contribution in cash and/or in kind, to the project that is equal to, or greater than, the ARC funding.
Linkage—Instances of Collaboration by Org Type

- Non-Profit - International
- Non-Profit - Australian
- Higher Education - International
- Government - State & Local
- Government - International
- Government - Commonwealth
- Company/Industry Body - International
- Company/Industry Body - Australian
- Other
Proportion of HCA grants involving GLAM partners that involved PIs from a GLAM organisation (LP 2010–14)

LP13 and LP14 required that at least one PI from each PO be on each project.
Challenges

– tracking how research, engagement and knowledge transfer involves work across universities and other agencies, including museums, galleries, archives and museums;
– developing a shared understanding of the return on investment from provision of time, expertise, resources;
– pluralising understandings of research outputs to include curatorial work, creative work, exhibitions etc);
– consolidating research outputs into national resources: digital platforms, clearing houses, infrastructure;
– building in research training, internships, exchange
– recognising and encouraging international collaboration.
Number of projects (all schemes) involving GLAM, by 2-digit FoR code (2008 to 2014)

- Biological Sciences
- History and Archaeology
- Environmental Sciences
- Studies in Creative Arts and Writing
- Earth Sciences
- Language, Communication and...
- Studies in Human Society
- Chemical Sciences
- Physical Sciences
- Philosophy and Religious Studies
- Law and Legal Studies
- Information and Computing Sciences
- Technology
- Built Environment and Design
- Agricultural and Veterinary Sciences
- Engineering
- Commerce, Management, Tourism...
- Psychology and Cognitive Sciences
Linkage, LIEF and knowledge infrastructure
Number of projects funded and success rate in HCA/SBE LIEF projects involving GLAM organisations

No proposals submitted in 2009
No. of projects funded and success rate in HCA/SBE LIEF projects relating to:
Clearinghouse, digital, museum, library, gallery, information, archive, online archive, searchable, knowledge platform, repository, interactive, interactivity

No proposals submitted in 2009
ARC Centres of Excellence
Overview of ARC Centres of Excellence

- The ARC Centres of Excellence scheme was originally established in 2002 to support research intended to build national capability in areas of national importance and develop the scale and focus necessary for Australia to achieve international standing in those areas.

- The scheme funds world class, internationally competitive research teams investigating, and finding solutions to, challenging and important Australian and international problems.
Investment in excellence for the longer term

- ARC Centres of Excellence $1-4 m a year for up to seven years

HCA Centres
- Creative Industries and Innovation
- History of Emotions
- Dynamics of Language
- Policing and Security (HCA/SBE)
The ARC Centres of Excellence—objectives

• highly innovative and potentially transformational research
• interdisciplinary, collaborative approaches
• develop relationships and build new networks
• build Australia’s human capacity
• postgraduate and postdoctoral training
• large-scale problems over longer periods
• points of interaction between unis, business, govt, private sector
Centres of Excellence 2014
Success by discipline

*BSB = Biological Sciences and Biotechnology; EMI = Engineering, Mathematics and Informatics; HCA = Humanities and Creative Arts; PCE = Physics, Chemistry and Earth Sciences; SBE = Social, Behavioural and Economics Sciences

Source: 2014 Selection Report Table 1
Laureate Fellows 2014
Success by discipline

*BSB = Biological Sciences and Biotechnology; EMI = Engineering, Mathematics and Informatics; HCA = Humanities and Creative Arts; PCE = Physics, Chemistry and Earth Sciences; SBE = Social, Behavioural and Economics Sciences
Source: 2014 Selection Report Table 5
Requested and approved funding for *ARC Centres of Excellence 2014* by discipline panel

<table>
<thead>
<tr>
<th>Panel*</th>
<th>Proposals approved</th>
<th>Requested funds over project life (approved Proposals)</th>
<th>Approved funds over project life (approved Proposals)</th>
<th>Approved funds as % of requested funds</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSB</td>
<td>4</td>
<td>$108,127,261</td>
<td>$96,000,000</td>
<td>88.78%</td>
</tr>
<tr>
<td>EMI</td>
<td>3</td>
<td>$71,532,842</td>
<td>$65,000,000</td>
<td>90.87%</td>
</tr>
<tr>
<td>HCA</td>
<td>1</td>
<td>$28,000,000</td>
<td>$28,000,000</td>
<td>100.00%</td>
</tr>
<tr>
<td>PCE</td>
<td>3</td>
<td>$83,932,145</td>
<td>$75,999,996</td>
<td>90.55%</td>
</tr>
<tr>
<td>SBE</td>
<td>1</td>
<td>$25,200,000</td>
<td>$20,000,000</td>
<td>79.37%</td>
</tr>
<tr>
<td>Total</td>
<td>12</td>
<td>$316,792,248</td>
<td>$284,999,996</td>
<td>89.96%</td>
</tr>
</tbody>
</table>

*BBS = Biological Sciences and Biotechnology; EMI = Engineering, Mathematics and Informatics; HCA = Humanities and Creative Arts; PCE = Physics, Chemistry and Earth Sciences; SBE = Social, Behavioural and Economics Sciences*
# Numbers of EOIs, Proposals and success rates for ARC Centres of Excellence 2014 by discipline panel

<table>
<thead>
<tr>
<th>Panel*</th>
<th>EOIs considered</th>
<th>EOIs shortlisted</th>
<th>EOI success rate (%)</th>
<th>Proposals considered</th>
<th>Proposals interviewed</th>
<th>Proposals approved</th>
<th>Proposals success rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSB</td>
<td>26</td>
<td>6</td>
<td>23.1%</td>
<td>6</td>
<td>6</td>
<td>4</td>
<td>66.7%</td>
</tr>
<tr>
<td>EMI</td>
<td>33</td>
<td>5</td>
<td>15.2%</td>
<td>5</td>
<td>5</td>
<td>3</td>
<td>60.0%</td>
</tr>
<tr>
<td>HCA</td>
<td>11</td>
<td>4</td>
<td>36.4%</td>
<td>4</td>
<td>4</td>
<td>1</td>
<td>25.0%</td>
</tr>
<tr>
<td>PCE</td>
<td>23</td>
<td>5</td>
<td>21.7%</td>
<td>5</td>
<td>5</td>
<td>3</td>
<td>60.0%</td>
</tr>
<tr>
<td>SBE</td>
<td>10</td>
<td>2</td>
<td>20.0%</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>50.0%</td>
</tr>
<tr>
<td>Total</td>
<td>103</td>
<td>22</td>
<td>21.4%</td>
<td>22</td>
<td>22</td>
<td>12</td>
<td>54.5%</td>
</tr>
</tbody>
</table>

*BSB = Biological Sciences and Biotechnology; EMI = Engineering, Mathematics and Informatics; HCA = Humanities and Creative Arts; PCE = Physics, Chemistry and Earth Sciences; SBE = Social, Behavioural and Economics Sciences
What the Centres need to look like

• The Centres are the largest investments of the ARC Grants Program
• Centres foster frontier interdisciplinary research, with innovative and highly integrated Research Programs
• Centres are critical for the next generation of researchers—capacity building
• Leading the way—international reputation
• Building on important collaborations
• Public benefits and research impact