ARC funding and HCA

UTS

Faculty of Arts and Social Sciences

25 July 2014

Denise Meredyth

Executive Director, Humanities and Creative Arts

Australian Research Council
Questions

• ARC and the funding landscape
• Patterns of applications and success by discipline/code
  – Multiple submissions and eligibility
• Disciplines
  – Practice led research and cross-disciplinary applications
• Discovery program
  – partnerships
  – eligibility
• Academic workforce issues: career age, gender, seniority, sector
• Trends in Linkage
• Linkage, HCA and national research infrastructure
  – GLAM sector.
More information


ARC and the funding landscape
The ARC

- National Competitive Grants Program: $884.0 M in 13-14
  - Discovery & Fellowships: $596.3 M
  - Linkage & Centres: $314.7 M

- Evaluation and Policy
- Excellence in Research for Australia

- Statutory Agency established 2001
- Mission: *to deliver policy and programs that advance Australian research and innovation globally and benefit the community*
- Fund direct costs to Universities and partners
- All disciplines except clinical medicine and dentistry.
Commonwealth investment in R&D 2013–14

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

Source: Budget 2013-2014 Industry and Innovation tables
Trends in Government Investment in R&D % 2004-14
(source: 2013–14 budget tables)
National Competitive Grants Program

**Discovery Projects**
- Future Fellowships
- DECRA
- Other Fellowships

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

Area of box represents $ awarded over the period 2008–2013. N.b. ITRP & DECRA running for less than five years.
**Budget 2014–15: ARC**

**New measures**

<table>
<thead>
<tr>
<th>Future Fellowships</th>
<th>ongoing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Support for Dementia</td>
<td>$26 million</td>
</tr>
<tr>
<td>Tropical Health and Medicine</td>
<td>$42 million</td>
</tr>
<tr>
<td>ARC Antarctic Gateway</td>
<td>$24 million</td>
</tr>
</tbody>
</table>

**MYEFO**

| Juvenile Diabetes        | $35 million  |
Budget 2014–15: ARC

Other measures

- 3.25% Efficiency Dividend
- Revised Indexation—now CPI
- Departmental savings measures
NCGP proposal lifecycle
Discovery Projects grants rankings 2013

Each symbol represents up to 2 observations.
ARC and the funding landscape
The ARC

National Competitive Grants Program
$884.0 M in 13-14

Discovery & Fellowships
$596.3 M

Linkage & Centres
$314.7M

Evaluation and Policy

Excellence in Research for Australia

• Statutory Agency established 2001

• Mission: *to deliver policy and programs that advance Australian research and innovation globally and benefit the community*

• Fund direct costs to Universities and partners

• All disciplines except clinical medicine and dentistry.
Commonwealth Investment in R&D 2013-14

Source: Budget 2013-2014 Industry and Innovation tables
Trends in Government Investment in R&D % 2004–14

(source: 2013–14 budget tables)
Area of box represents $ awarded over the period 2008–2013. N.b. ITRP & DECRA running for less than five years.
### Budget 2014–15: ARC

#### New measures

<table>
<thead>
<tr>
<th>Program</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Future Fellowships</td>
<td>ongoing</td>
</tr>
<tr>
<td>Support for Dementia</td>
<td>$26 million</td>
</tr>
<tr>
<td>Tropical Health and Medicine</td>
<td>$42 million</td>
</tr>
<tr>
<td>ARC Antarctic Gateway</td>
<td>$24 million</td>
</tr>
<tr>
<td><strong>MYEFO</strong></td>
<td></td>
</tr>
<tr>
<td>Juvenile Diabetes</td>
<td>$35 million</td>
</tr>
</tbody>
</table>
Budget 2014–15: ARC

Other measures

- 3.25% Efficiency Dividend
- Revised Indexation – now CPI
- Departmental savings measures
NCGP proposal lifecycle
Success rate: Comparison of schemes

Success Rate in commencement year 2013

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

The highest success rate is 39% for Linkage - Projects.
Discovery Projects

• DP is the largest scheme, supporting excellent basic and applied research by individuals and teams.
• Success rate typically 20% to 22% in recent years.
• Selection criteria (more detail on each in Funding Rules):
  – Investigator (40%)
  – Project Quality and Innovation (25%)
  – Feasibility and Benefit (20%)
  – Research Environment (15%).
• Funding up to five years, up to $500 000 per year.
• No salaries for CIs/PIs.
Size of scheme and success rates (1)

*Discovery Projects 2008-2014: Success and Return Rates*

![Bar chart showing the number of proposals and success rates from 2008 to 2014.](chart.png)
Discovery Indigenous

- Supports fundamental research and research training by Indigenous Australian researchers as individuals and as teams.

- Selection criteria (more detail on each in Funding Rules):
  - Investigator (40%)
  - Project Quality and Innovation (35%)
  - Research Environment (15%)
  - Feasibility and Benefit (10%).

- Funding up to three years, up to $500,000 per year.

- No salaries for CIs/PIs (though note DIAs).
Size of scheme and success rates (3)

*Discovery Indigenous 2012-2014: Success Rates*

- **2012:**
  - Total number of proposals: 19
  - Success rate: 34.5%
  - Successful: 10
  - Unsuccessful: 9

- **2013:**
  - Total number of proposals: 22
  - Success rate: 31.3%
  - Successful: 10
  - Unsuccessful: 12

- **2014:**
  - Total number of proposals: 16
  - Success rate: 38.5%
  - Successful: 10
  - Unsuccessful: 6
Discovery Projects Grants rankings 2013

Each symbol represents up to 2 observations.

Discovery
Network = Go8

Additional feedback

Funded
Discovery Projects Grants rankings 2013

Additional feedback
Patterns of application and success across the sector
ARC NCGP funding by university ($m) 2007–13

RUN
IRU
ATN
Go8
Unaligned
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 Western Australia
- The University of Adelaide
- Queensland University of Technology
- The University of Wollongong
- Charles Sturt University
- Griffith University
- The University of New South Wales
- Swinburne University of Technology
- RMIT University
- Macquarie University
- Deakin University
- The University of Tasmania
- La Trobe University
- University of Technology Sydney
- The University of Technology, Sydney
- James Cook University
- Murdoch University
- University of Western Sydney
- University of Southern Queensland
- University of South Australia
- University of New England
- University of Canberra
- Northern Territory University
- Victoria University
- University of Ballarat
- Australian Catholic University
- Central Queensland University
- Bond University
- University of the Sunshine Coast

Legend:
- Diff
- DP
- LP
Australian Research Grants Committee 1974—% funding share compared with ARC NCGP 2013

1974
2013

U Sydney
Monash
U Adelaide
UNSW
U Melbourne
U Queensland
UWA
ANU
Flinders
U Tas
UNE
La Trobe
Macquarie
Newcastle
James Cook
NSW (others)
Wollongong
RMC
WA (others)
Murdoch
Tas (others)
QLD (others)
Griffith
SA (others)
ACT (others)
Patterns of application and success by discipline/FoR
ARC NCGP funding by 2-Digit FoR (%) 2006–2013
ARC proposals received: 2-Digit FoR (%) 2006–2013

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
Total ARC funding by major scheme and selected HCA/SBE disciplines (2012–14)
Proposals received by 2-digit FoR code (%)

[past 4 years Discovery Projects and 5 years Linkage Projects]
Proposal received and funded by 2-digit FoR code (number)

[past 4 years Discovery Projects and 5 years Linkage Projects]
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
Number of proposals received and funded (on the basis of Primary 4-digit RFCD/FoR codes)

[Commencement years 2002 to 2014; all schemes; 2014 data not including Future Fellows and Laureate Fellows]
Funding ($) for projects with primary 4-digit FoR in Cultural Studies by scheme (2011 to 2014)

No projects funded in LIEF scheme
Percentage totals of 6-digit level codes for projects funded in all schemes (2010/11 to 2014)

<table>
<thead>
<tr>
<th>CULTURAL STUDIES</th>
<th>SixD_Txt</th>
<th>ClassCd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aboriginal and Torres Strait Islander Cultural Studies</td>
<td>200201</td>
<td></td>
</tr>
<tr>
<td>Culture, Gender, Sexuality</td>
<td>200205</td>
<td></td>
</tr>
<tr>
<td>Cultural Theory</td>
<td>200204</td>
<td></td>
</tr>
<tr>
<td>Cultural Studies not elsewhere classified</td>
<td>200299</td>
<td></td>
</tr>
<tr>
<td>Screen and Media Culture</td>
<td>200212</td>
<td></td>
</tr>
<tr>
<td>Consumption and Everyday Life</td>
<td>200203</td>
<td></td>
</tr>
<tr>
<td>Globalisation and Culture</td>
<td>200206</td>
<td></td>
</tr>
<tr>
<td>Multicultural, Intercultural and Cross-cultural Studies</td>
<td>200209</td>
<td></td>
</tr>
<tr>
<td>Asian Cultural Studies</td>
<td>200202</td>
<td></td>
</tr>
<tr>
<td>Postcolonial Studies</td>
<td>200211</td>
<td></td>
</tr>
<tr>
<td>Migrant Cultural Studies</td>
<td>200208</td>
<td></td>
</tr>
<tr>
<td>Pacific Cultural Studies</td>
<td>200210</td>
<td></td>
</tr>
</tbody>
</table>
Percentage totals of 6-digit level code (2010/11–14) (DP and LP)

DP

<table>
<thead>
<tr>
<th>Year</th>
<th>Category</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>Cultural Theory</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>Consumption and...</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>Cultural Studies not...</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>Screen and Media Culture</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>Globalisation and Culture</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>Asian Cultural Studies</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>Culture, Gender,...</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>Multicultural,...</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>Aboriginal and Torres...</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>Postcolonial Studies</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>Migrant Cultural Studies</td>
<td></td>
</tr>
</tbody>
</table>

LP

<table>
<thead>
<tr>
<th>Year</th>
<th>Category</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>Cultural Theory</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>Consumption and...</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>Cultural Studies not...</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>Screen and Media Culture</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>Globalisation and Culture</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>Asian Cultural Studies</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>Culture, Gender, Sexuality</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>Multicultural,...</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>Aboriginal and Torres...</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>Postcolonial Studies</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>Migrant Cultural Studies</td>
<td></td>
</tr>
</tbody>
</table>
BED by 6-digit level FoR code (all schemes, regardless of primary classification code) (years 2010 to 2014)

Size of bubble indicates the total percentage of a 6-digit level code in all projects funded
Quality + impact * benefit?

Creative disciplines may need to:

• identify iterations of the creative work as research
• quantify prestige and esteem
• link narratives and case studies to…
• authoritative typologies
• rank outlets, performances, venues
• consider open access and open data
• consider research infrastructure and shared resources
• adapt to digital transformations in knowledge systems.
Cross-disciplinary collaboration
Percentage totals of other FoR codes in projects (2010/11 to 2014), all schemes

|-----------------------------------------------|-------------------------------------|---------------------|-----------------------------|-------------------|---------------------------------|----------------|----------|-----------|-------------|------------------------|--------------------------|-----------------------------------|-----------------------------|--------------------------|------------------------|-----------------------------|---------------------------------|----------------|---------------------------|---------------------------------|---------------------------|-------------|
Non-primary 4-digit FoR components in projects with primary FoR in Historical Studies (2010/11 to 2014), all schemes

Number shown is for percentage totals of the FoR
FOR Network mapping..
[Fruchterman reingold]
HASS disciplines highlighted

Source data:
http://www.arc.gov.au/general/searchable_data.htm
Academic workforce issues
ARC Research Opportunity and Performance Evidence (ROPE)

- 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.
Number of ECR–MCR researchers and success rate (%) in Cultural Studies DP (2011–14) and LP (2010–14)

ECR – PhD received within 5 years
MCR – PhD received within 5 to 15 years
Number of Chief Investigators and success rate in DP, by gender (2011 to 2014)
Participation and success of CIs in DP13 and DP14 by gender and career age
Success rate (%) of HCA/SBE CIs in Discovery by career age (yrs post PhD) 2002–14

(Note - fellow applicants have been included as funded on all funded projects)
Success rate (%) of HCA/SBE CIs in Discovery, by title and type of university (2002–14)

(Note - fellow applicants have been included as funded on all funded projects)
Linkage
Linkage - Instances of Collaboration by Org Type
Some Linkage stats: Funding and success rates

Since 2005 there have been nearly 2200 instances of collaboration with Australian private companies, as partner organisations on linkage grants.
Some Linkage stats: Partner orgs

The Linkage Projects scheme is a driver of collaboration between higher education researchers and other parts of the national innovation system.
Linkage and national infrastructure: GLAM organisations
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

0  20  40  60
ARC-funded projects involving GLAM organisations – major areas of research
Collaboration between universities (green) and GLAM organisations (blue), by location
Discussion/questions