Outline

• Current Funding Landscape
• NCGP update
• Networking ITRP and LP
• Impact and translation
2014–15 Federal Budget
(Approx. AU$415 billion)
Australian Government support for science, research and innovation shown in red

2014–15 Federal Budget
(Approx. AU$415 billion)
Commonwealth Investment in R&D 2014–15 ($m)

- **Industry R&D Tax Measures**: $2,430
- **Block Funding** (incl. RIBG, JRE, SRO, APA + RTS): $1,947
- **NHMRC**: $930
- **ARC**: $876
- **CSIRO**: $745
- **DSTO**: $408
- **Business Innovation**: $304
- **Rural**: $303
- **ANSTO**: $253
- **CRCs**: $150
- **Energy and the Environment**: $126
- **Geoscience Australia**: $125
- **Other Health**: $58
- **Other R&D**: $537
- **Other**: $537
Selected research agencies 2003–2015 funding ($m)
ARC NCGP funding by Fields of Research 2002–2014

- 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
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National Competitive Grants Program

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

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

Area of box represents $$ awarded over the period 2008–2013. N.b. ITRP & DECRA running for less than five years.
The Grants Peer Review Process LP

- Biological Sciences, Biotechnology, Environmental, Medical and Health Sciences (BEM)
- Engineering and Technology (ET)
- Humanities and Creative Arts, Social, Behavioural and Economic Sciences (HSE)
- Physical, Mathematical and Information Sciences (PMI)
Histogram of Rank (Linkage 2010–2014)
Mean value of normalised rankings LP10–14
Eligibility Criteria for Chief Investigators (CIs)

In Discovery Projects and Discovery Indigenous:

As at 1 January 2016 a researcher nominated on a Proposal as a CI must meet at least one of the following criteria:

a. be an employee for at least 0.2 (20 per cent of Full Time Equivalent (FTE) ) at an Eligible Organisation;

b. be a holder of an Emeritus appointment at an Eligible Organisation.
Track records—have we lost track?
What is the ARC doing?

• Published advice to peer reviewers includes instructions to take account of relative opportunity when considering track record

• This is formalised through the ROPE arrangements which apply to all schemes.
Selection criteria

• Most scheme selection criteria include investigator track record and proposed program of research

• Assessors are advised that it is important to take into account the opportunities that the researchers have had to build their research profile
Research Opportunity and Performance Evidence (ROPE)

• ROPE was first introduced 2011 and replaced the selection criterion of ‘track record relative to opportunities’.
• ROPE was introduced to help provide a more realistic consideration of a researcher’s capabilities and assist those who have had career interruptions for family and other reasons.
The ARC considers that Research Opportunity comprises two separate elements:

- Career experiences (relative to opportunity)
- Career interruptions

The new ROPE Statement (released Feb 2014) is on the ARC website.
(ITRHub*) Research Opportunity and Performance Evidence (ROPE)—Ten career-best publications

• Add a brief paragraph for each publication explaining and justifying the impact or significance of the publication.
• Asterisk the publications relevant to this Proposal.

* From the IH14 Instructions to Applicants www.arc.gov.au
Further evidence in relation to research impact and contributions to the field over the last 10 years*

• Research outputs other than academic publications. Examples may include patents, IP licences, other research support income, relevant consultancies, policy advice, and other professional activities.

* From the IH14 Instructions to Applicants www.arc.gov.au
Further evidence in relation to research impact and contributions to the field over the last 10 years

• Include as appropriate, a wide range of research evaluations (e.g. citations, evaluation of the publication —the journal, the book publishing house, the conference etc, other measures of esteem; honours and awards/prizes).

* From the IH14 Instructions to Applicants www.arc.gov.au
Further evidence in relation to research impact and contributions to the field over the last 10 years

• Describe your Research Impact relative to opportunity and in the context of discipline/end user expectations. Outline significant achievements and outcomes that have contributed to a tangible impact for end users.

* From the IH14 Instructions to Applicants www.arc.gov.au
“First Time” Researcher Data

• ARC data shows that about 80% of DECRAs awarded, and about 20% of DP grants, go to researchers who have not held any ARC grant before.
Participation and success of CIs in DP13 and DP14 by gender and career age
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- 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.
Details of the Industrial Transformation Research Program—the Schemes

Consists of two schemes:

- Industrial Transformation Research Hubs
- Industrial Transformation Training Centres
Details of the Industrial Transformation Research Program—the Schemes cont.

Overall objectives:

• foster important partnerships between business and universities
• support researchers (higher degree by research and post doctoral fellows) to gain ‘hands-on’, practical skills and experience in important priority areas
Industrial Transformation Research Hubs

Opportunities for universities and industrial partners to focus on significant collaborative R&D projects with outcomes beyond their independent endeavours.

- The ARC will invest up to $1 million per year in each Research Hub with matching investment by industry partners up to a maximum of five years
Details of funded Industrial Transformation Research Hubs for funding in 2013

<table>
<thead>
<tr>
<th>Research Hub Title</th>
<th>Administering Organisation</th>
<th>Research Hub Director</th>
<th>Recommended funds over project life</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARC Research Hub for Transforming Australia’s Manufacturing Industry through High Value Additive Manufacturing</td>
<td>Monash University</td>
<td>Prof Xinhua Wu</td>
<td>$4,000,000</td>
</tr>
<tr>
<td>ARC Research Hub for BioProcessing Advanced Manufacturing</td>
<td>Monash University</td>
<td>Prof Gil Garnier</td>
<td>$1,633,554</td>
</tr>
</tbody>
</table>
Industrial Transformation Training Centres (ITTC)

To foster close partnerships between university-based researchers and industry to provide innovative training for early career researchers vital to Australia’s future industry.

Over the life of the program the ARC will enable:

• establishing Training Centres nationwide
• support “industry ready” Higher Degree by Research candidates and postdoctoral researchers
• provide a maximum of $1 million per year for up to five (5) years for each Training Centre.
Industrial Transformation Priorities

• Industrial Transformation Priorities address challenges in a broad range of areas:
  
  – manufacturing
  – food and agriculture
  – oil and gas, including petroleum
  – mining and mining services
  – medical devices and biotechnology.
Industrial Transformation Research Program
Selection Advisory Committee, 2012–13*

**Academic** (research excellence)
Dr W Gerlach, self-employed (Chair)
Professor H Singh, Massey University, New Zealand
Professor C Grof, The University of Newcastle

**Industry** (industry relevance)
Ms J Davey, Australian Institute of Food Science and Technology
Dr J Keniry AM, Ridley Corporation
Mr P Shelley, Asia Pacific Panel Pty Ltd

**CSIRO** (both)
Professor M Cole, Commonwealth Scientific and Industrial Research Organisation

*Priority: Food research*
ITRP Linkages

University of Tasmania

CSIRO

NSW Department of Primary Industries

Grey Innovation Pty Ltd

DSTO

The University of Adelaide

BHP Billiton Olympic Dam

The Flinders University of South Australia

Grains Research and Development Corporation

NSW Millinery Ltd

Grey Innovation Pty Ltd

The University of Wollongong

Playgroup Australia Ltd

The University of Newcastle

Grain Growers Ltd

Rural Industries Research and Development Corporation

The University of New South Wales

The University of Queensland

Monash University

Peanut Company of Australia

The University of Melbourne

Higher Education

Government

Industry / other
Linkage Projects—return and success rates
LP Linkages
Monash + CSIRO
2011–14

Higher Education
Government
Industry/business
Non-profit/other
LP Linkages
Australia
2011–14

Higher Education
Government
Industry/business
Non-profit/other
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Research Impact: Proposal form changes

• The proposal forms for all schemes now have an added question about research impact which reflects the ARC’s recently developed policy* on this issue.

*Available on the ARC web site.
<table>
<thead>
<tr>
<th>Inputs</th>
<th>Activities</th>
<th>Outputs</th>
<th>Outcomes</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research income</td>
<td>Research Work and Training</td>
<td>Publications including E-Publications</td>
<td>Commercial Products, Licences and Revenue</td>
<td>Economic, Health, Social, Cultural, Environmental, National Security, Quality of Life, Public Policy or Services</td>
</tr>
<tr>
<td>Staff</td>
<td>Workshop/Conference Organising</td>
<td>Additions to National Collections</td>
<td>New Companies – Spin offs, Start Ups or Joint Ventures</td>
<td>Higher Quality Workforce</td>
</tr>
<tr>
<td>Background IP</td>
<td>Facility Use</td>
<td>New IP: Patents and Inventions</td>
<td>Job Creation</td>
<td>Job Creation</td>
</tr>
<tr>
<td>Infrastructure</td>
<td>Membership of Learned Societies and Academies</td>
<td>Policy Briefings</td>
<td>Implementation of Programs and Policy</td>
<td>Risk Reduction in Decision Making</td>
</tr>
<tr>
<td>Collections</td>
<td>Community and Stakeholder Engagement</td>
<td>Media</td>
<td>Citations</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Integration into Policy</td>
<td></td>
</tr>
</tbody>
</table>
College of Experts 2016

• Nominations for the 2016 College of Experts will be opening mid 2015.
• We are very keen for all the brightest researchers to come forward for our 2016 college.
• Information about college membership is on our website—new nominations info coming soon!
• Please approach your DVCR if you are interested.
Discussion/questions