



Australian Government
Australian Research Council

Excellence in Research for Australia



ERA 2010 and beyond
ARMS
15 September 2011

ERA – Old News

(Boring but Important)

Objectives of ERA

- Establish an **evaluation framework** that gives government, industry, business and the wider community assurance of the excellence of research conducted in Australia's institutions;
- Provide a **national stocktake** of discipline-level areas of research strength and areas where there is opportunity for development in Australia's higher education institutions;
- Identify **excellence** across the full spectrum of research performance;
- Identify **emerging research areas** and opportunities for further development;
- Allow for **comparison** of Australia's research nationally and **internationally** for all discipline areas.

ERA Development 2008-2010

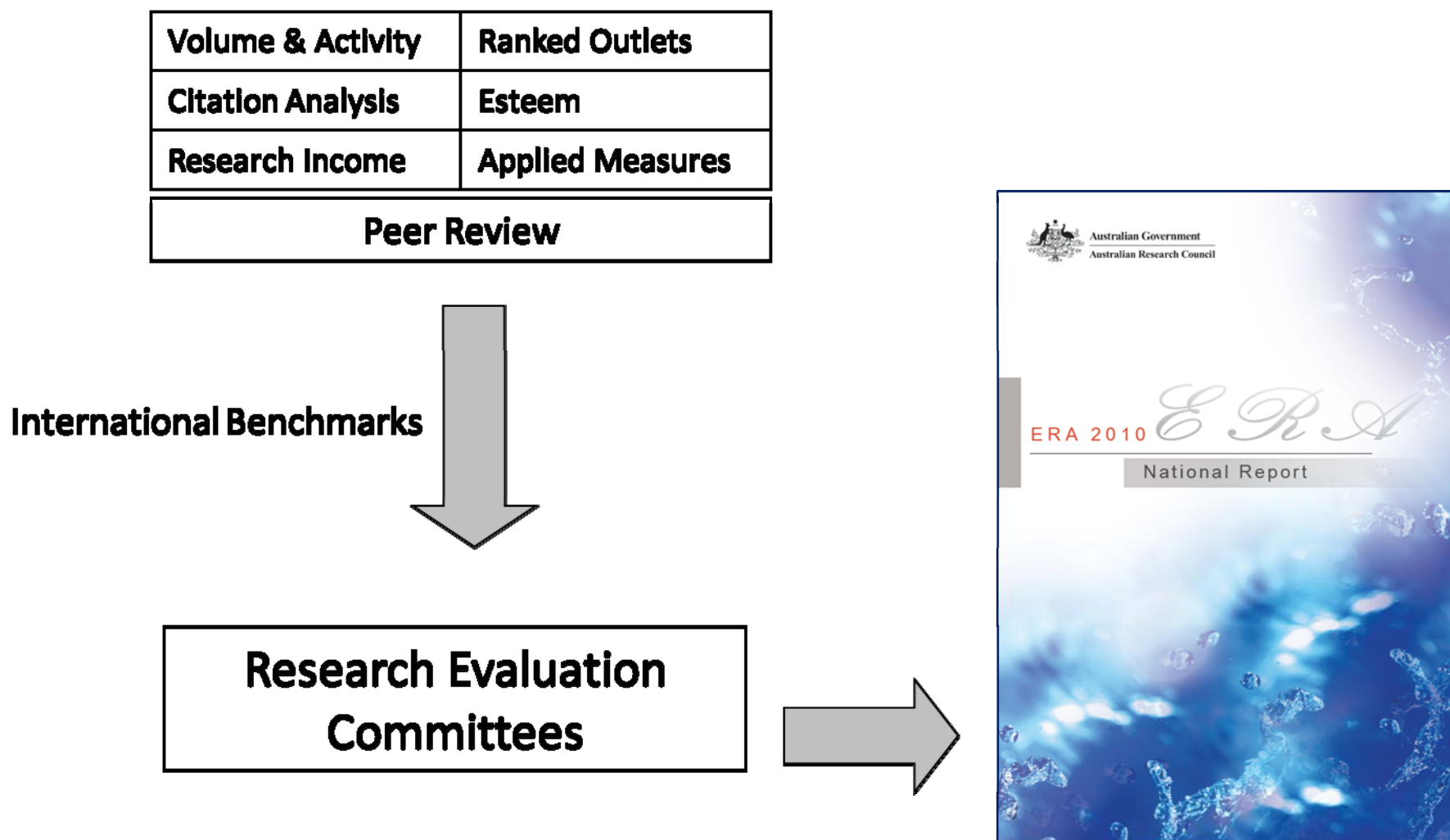
- Several major rounds of consultation
- Indicator Development Group (specialist sub-groups)
- Ranked journals and conferences consultation
- Discipline specific indicators
- Full trial in 2009 of PCE and HCA
 - test of systems, processes
 - feedback from sector, RECs, peer reviewers
- Esteem indicators
- First full ERA evaluation in 2010

The ERA Unit of Evaluation

- The **baseline** - the Discipline in an institution = Four-digit Field of Research Code (ANZSRC) eg.,
2101 Archaeology
- The **higher perspective** – the division in an institution = Two-digit Field of Research Code (ANZSRC) eg.,
21 History and Archaeology
- The ERA Unit is not about the department nor the individual researcher



ERA 2010 Process Overview



ERA 2010 outcomes: context

- ERA is a **retrospective** evaluation of research performance
- The ERA unit of evaluation is the discipline within the institution, **not**
- ERA does not rank institutions

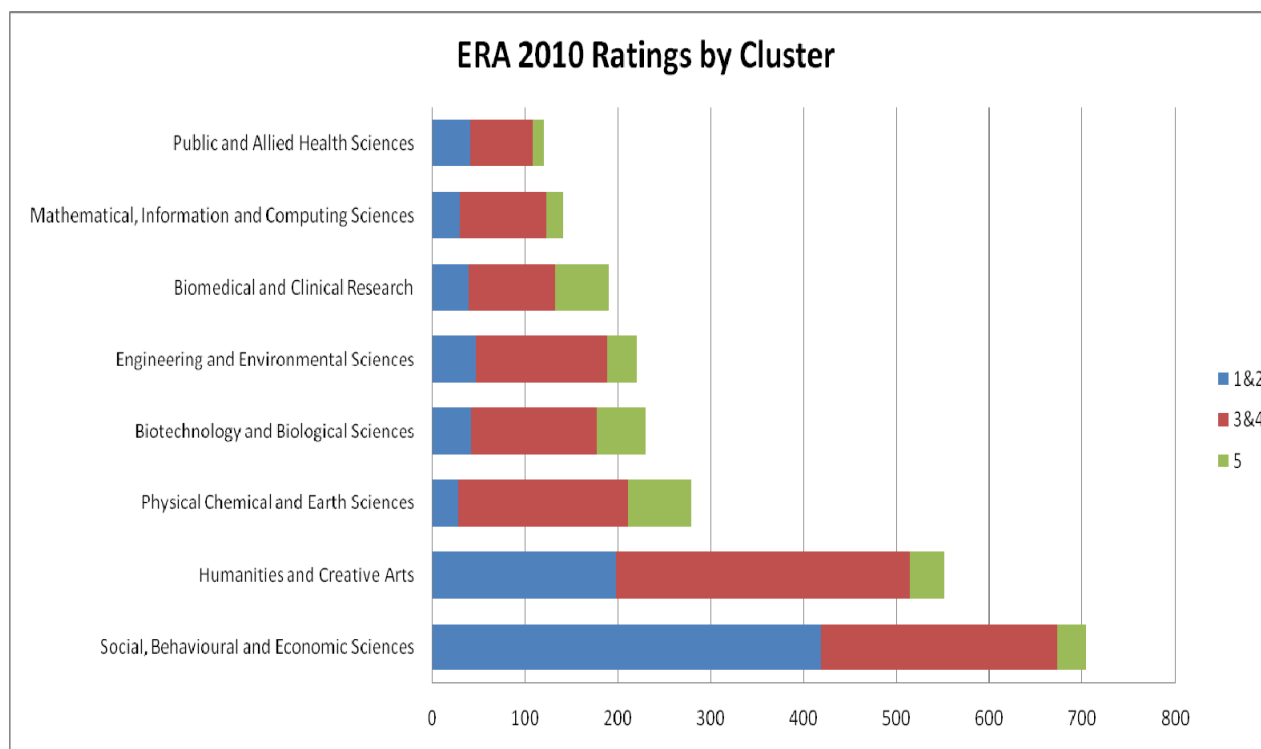
ERA 2010 at a glance

- All 41 eligible institutions participated
- 2435 units of evaluation assessed at the two- and four-digit level
- Over 330,000 research outputs and 55,000 researchers represented

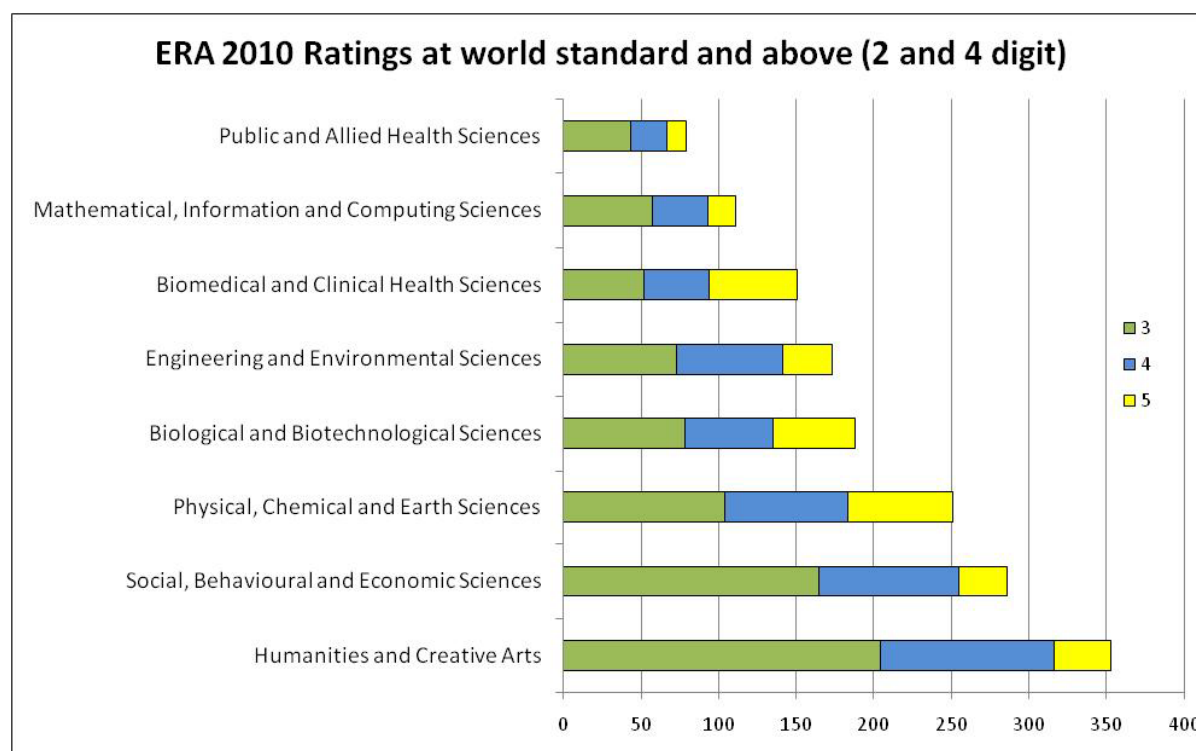
ERA – Myths

(Sigh!)

ERA Ratings by ERA 2010 Cluster



ERA Ratings at 'world standard and above' by ERA 2010 Cluster



Gaps

- Agriculture, Land and Farm Management
- Automotive Engineering
- Maritime Engineering
- Engineering Design
- Complementary and Alternative Medicine

Pockets

- Classical Physics
- Aerospace Engineering
- Transportation and Freight

Strong Applied Research

- Electrical and Electronic Engineering
- Crop and Pasture Protection
- Resources Engineering
- Materials Engineering
- Extractive Metallurgy
- Nursing

ERA 2010 submissions*

- Institutional data submission smoother than Trial
- Institutional repositories generally functioned well
- Definition of research – still outputs being submitted which did not meet the definition in the view of the Committees; these are **not** eligible and should not be submitted
- Selection of peer review items – breadth of work in the 20%
- Supporting statements for NTROs and Portfolios

* You know you loved it....

ERA – New News

Beyond ERA 2010

- Extra SRE funding was contingent upon ERA 2010 participation
- ERA 2010 results have informed mission-based compact negotiations between the Government and institutions

Consultations for ERA 2012

- ERA Public Consultation (March -April 2011) – open consultation on issues including reporting, indicators, eligibility, discipline matrix
- Outreach sessions with institutions and peak bodies
- Detailed feedback from ERA 2010 REC members and peer reviewers
- Feedback from institutions on submission processes
- Comment period on draft Submission Guidelines and Discipline Matrix (July 2011)

Changes to journals and conferences

- Refined journal and conference indicator for ERA 2012
- Ranks will not be used, instead outputs profiled by most frequent journals and conferences in the UoE, with drilldowns available as in 2010
- ARC will still produce a journal list – will not include rankings but will include FoR codes for citation analysis
- Strong feedback that ranked lists were having negative consequences in the sector
- ARC analysis suggested a refined indicator would produce improved results while removing negative consequences

The refined journal indicator

Example of the draft refined journal indicator for FoR 1801 for University X				
	University of X	1801	Law	
	Journal title	Papers	Contribution	Cumulative
1	Journal of Law and Medicine	27	6%	6%
2	Public Law Review	27	6%	12%
3	Australian Journal of Administrative Law	24	5%	17%
4	Law in Context	18	4%	21%
5	Australian Journal of Family Law	15	3%	24%
6	Company and Securities Law Journal	12	3%	26%
7	Torts Law Journal	9	2%	28%
8	Contemporary Issues in Law	9	2%	30%
9	Law and Policy	9	2%	32%
10	International Journal of the Legal Profession	9	2%	34%
11	Australian Journal of Corporate Law	9	2%	36%
12	Australian Journal of Labour Law	9	2%	38%
13	Journal of Judicial Administration	9	2%	40%
14	Federal Law Review	9	2%	42%
15	Australian Journal of Legal Philosophy	6	1%	43%
16	Forensic Science International	6	1%	45%
17	Legal Theory	6	1%	46%
18	Revenue Law Journal	6	1%	47%
19	AIAL National Lecture Series on Administrative Law	6	1%	48%
20	Intertax: international tax review	6	1%	50%
	Total	465		
<i>Please note that this is not based on any university's submission to ERA 2010</i>				

Interdisciplinary research (the dreaded 'Claw-back'...)

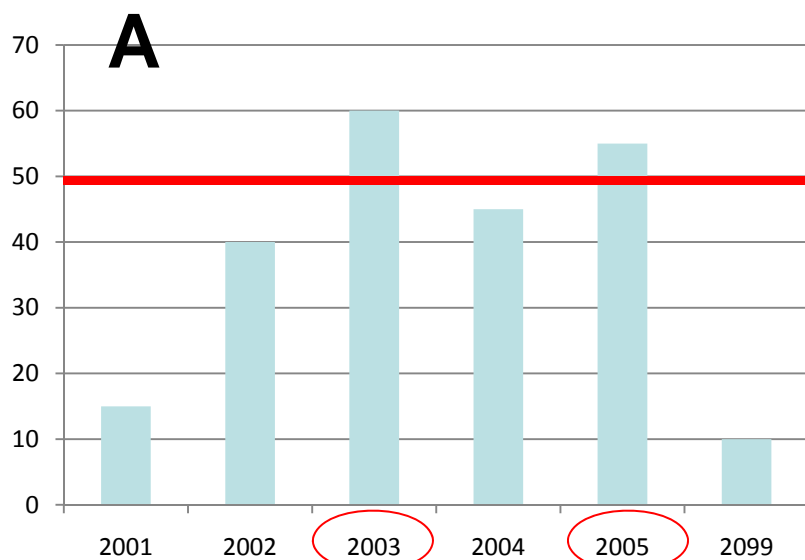
- Journal articles with $\geq 66\%$ content in a discipline can be apportioned to that discipline
- Approach was successfully trialled in 2010 for Mathematics
- Allows stronger recognition of interdisciplinary and applied research
- Aligns journals with other output types



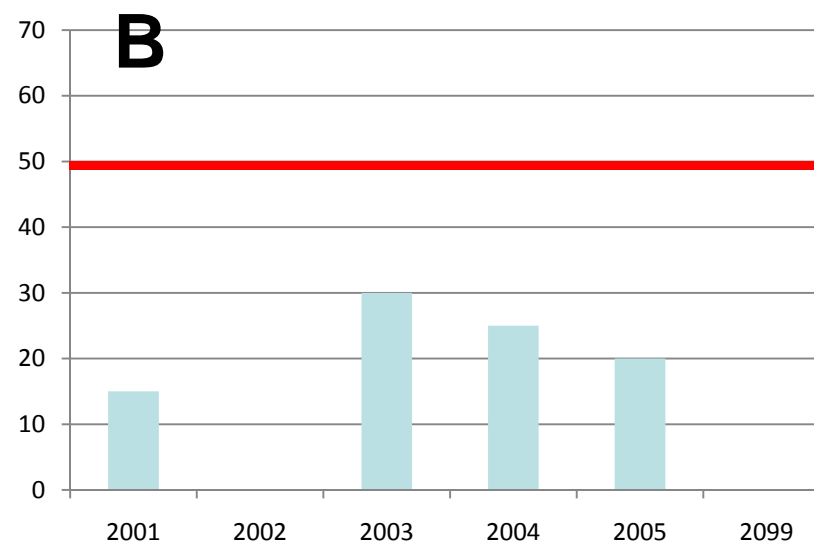
Raising the threshold

- Low volume threshold for peer review disciplines raised to 50 apportioned weighted outputs (maintaining the 5:1 weighting for books)
- Threshold remains the same for citation analysis disciplines
- Aligns all disciplines at 50 outputs
- Recognises strong feedback from sector and from 2010 evaluators
- ERA units need sufficient volume


Low volume scenarios



In both cases, **all outputs** will be assessed at the two-digit level



Eligibility of fractional staff

- Fractional staff: minimum 40% appointment at ERA census date
- Those below 40% can still submit with by-line or similar requirement (similar to existing approach for casuals)
- Addresses concern about ERA-driven “poaching”
- Recognises that in many cases those below 40% are legitimately employed – their outputs can still be submitted
- But...  ≠ eligible fractional researcher

Other changes for ERA 2012

- Patents, plant breeder's rights and registered designs assigned to individuals now eligible for submission
- Cluster structure revised in the light of information from ERA 2010
- Some adjustments to indicator sets used in the discipline matrix (e.g. ICT disciplines)
- Construction of the pool of outputs for peer review (30%)

ERA 2012 – still to do

- Recruitment of Research Evaluation Committees
- Expansion of peer reviewer pool
- Citation data provider has been announced – Scopus
- Submission and beyond!!

Further information

- **Web:** www.arc.gov.au/era
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- **Hotline:** 02 6287 6755