



MONASH University
Art & Design

Research Day

27th March 2009



"Where Do We Come From? What Are We? Where Are We Going?" [1897] by Paul Gauguin

40:40:20

The starting point for discussions about the allocation of work for teaching and research academic staff is:

- Teaching 40%
- Research 40%
- Other activities 20%

Other activities may include: committee participation; organising and/or attending meetings, forums, seminars etc; consultancy; leadership; management and administration; professional work

Schedule

- **Session 1: Faculty Planning**
 - Research 101
 - Our goals
 - ERA
- **Session 2: Cluster review**
- **Session 3: Grant writing**

Session 1: Research 101

Definition of Research

- “**creative work** undertaken on a systematic basis in order to increase the stock of **knowledge**, including knowledge of man, culture and society, and the use of this stock of knowledge to devise **new** applications”
- “any activity classified as research which is characterised by **originality**; it should have **investigation** as a primary objective and should have the potential to produce results that are sufficiently general for humanity's stock of knowledge (**theoretical and/or practical**) to be recognisably increased.”

Source: HERDC Specifications for Collection of 2008 data, Section 1.3.9 - 1.3.10 - Nov 2008

Types of research

- **Pure basic research**
- **Strategic basic research**
- **Applied research**
- **Experimental development**



Research is:

- **Research requires a clear articulation of a goal.**
- **Research originates with a question or problem.**
- **Research usually divides the principal problem into more manageable sub problems.**
- **Research is guided by the specific research problem, question, or hypothesis.**
- **Research follows a specific plan of procedure.**
- **Research requires the collection and interpretation of data**
- **Research is, by its nature, cyclical; or more exactly, helical.**



Research is NOT:

- **Research is not mere information gathering**
- **Research is not mere transportation of facts from one location to another.**
- **Research is not merely rummaging for information.**
- **Research is not a catchword**

None of these demand that the researcher draw any conclusions or make any interpretation of the data.

How is research measured?

- **Research Income**
- **Research Outputs (publications)**
- **Research Outcomes**
- **HDR Load**
- **HDR Completions**
- **By FTE**

Categories of research income

- **The Australian Competitive Grants Register (ACGR) lists qualifying, nationally competitive research schemes. The income that Higher Education Providers receive from schemes listed on the ACGR drives the allocation of over \$200 million of Research Infrastructure Block Grants (RIBG) annually.**
The four different categories of research funding are categories 1, 2, 3 and 4.

Category 1 - Australian Competitive Grants Register (ACGR)

- **ARC**
- **NHMRC**
- **Other schemes listed on ACGR:**
 - Agriculture, Fisheries & Forestry, Attorney-General's Department, Broadband Communications and the Digital Economy, Defence Education, Employment and Workplace Relations
 - National Centre for Vocational Education Research Ltd (NCVER)
 - Environment, Water, **Heritage and the Arts**, Australian Antarctic Division
 - Families, Housing, Community Services and Indigenous Affairs
 - Foreign Affairs and Trade, Health and Ageing, Cancer Australia
 - Innovation, Industry, Science and Research (AIATSIS), CSIRO
 - Infrastructure, **Transport, Regional development and Local Government (ATSB), Prime Minister & Cabinet**
 - Non-Commonwealth (**ANZ Trustees, Australian Coal Association Research Program (ACARP), Australian Housing and Urban Research Institute (AHURI) - Research Funding Scheme**)



Research Performance Category 1

Research Category	Type	2008 income	
One	ARC	\$36.5m	115% growth in previous 3 years
	NHMRC	\$61m	160% growth in previous 3 years
	Other ACGRs	\$10m	100% growth (from low base)

Category 2 - Other Public Sector Research Income

- **Government income that is not eligible for Category 1**
- **Australian Government business enterprises**
- **Income (including contract research) from both state and local governments**
- **State government business enterprises**
- **Partly government owned or funded bodies (eg Telstra)**
- **Cooperative Research Centres (CRCs) in which the reporting HEP was not a core participant (i.e. was not a signatory to the Commonwealth Agreement during the reporting period).**

Research Performance Category 2

Research Category	Type	2008 income	Observations
Two	Local Govt	\$900k	50% growth (from low base)
	State Govt	\$21m	200% growth in previous years but huge fall in 2008
	Comm Govt	\$7.5m	14% growth (from low base)

Category 3

Contracts with Industry or non-government
Grants other than Government
Donations, bequests and foundations

Research Performance Category 3

Research Category	Type	2008 income	Observations
Three	Contracts	\$22.6m	30% growth in previous 3 years, decline last year
	Grants	\$11.4m	25% growth in previous 3 years, decline last year
	Donations	\$13.7m	Mainly Australian

Category 4

- **University income from CRCs, whether derived from the Commonwealth grant to the CRC, from non-university participants, and from third parties contributing to CRCs.**



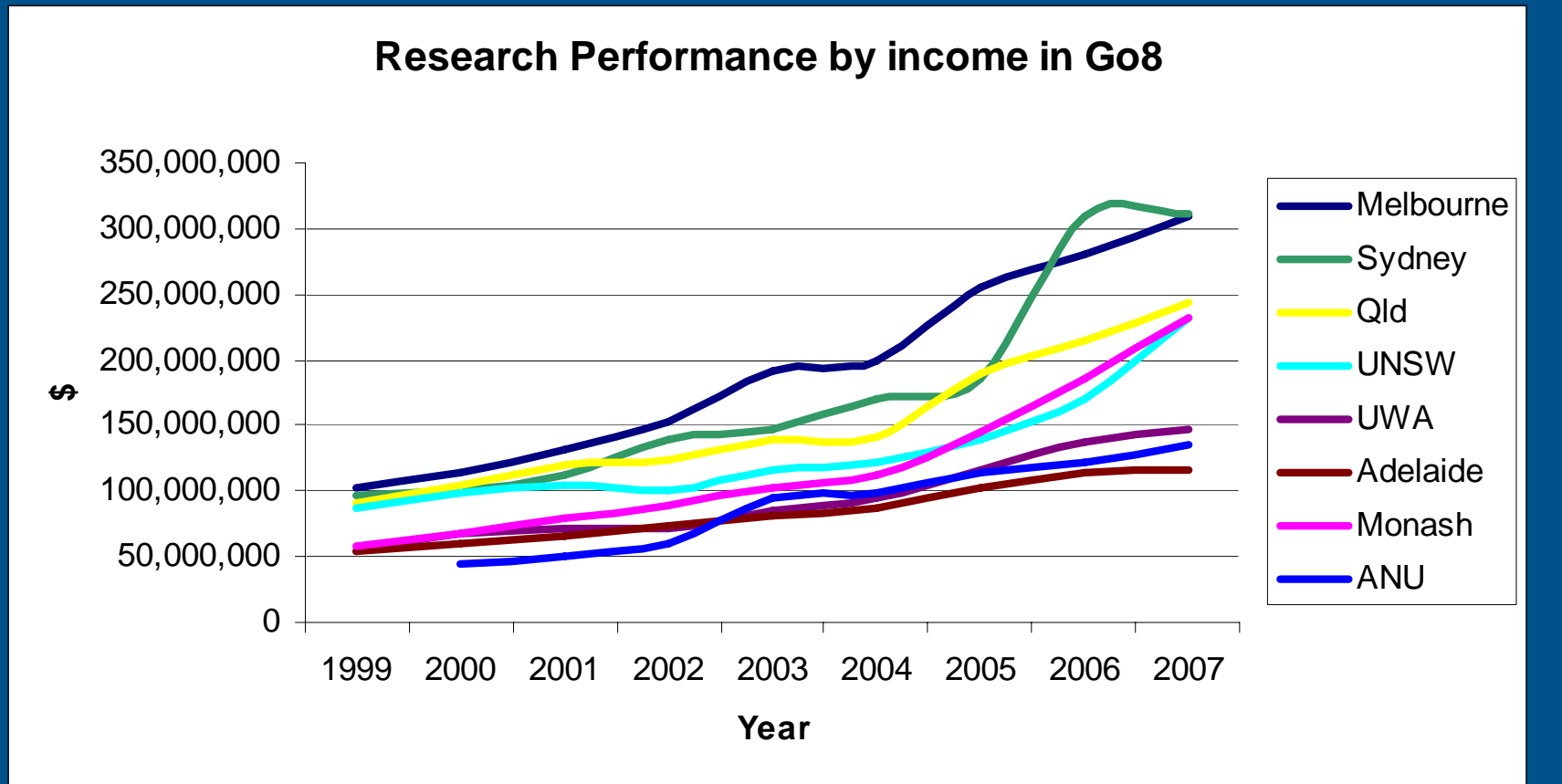
Research Performance Category 4

Research Category	Type	2006 income	Observations
Four	CRC	\$9.5m	Static over last 4 years

Advanced Automotive Technology
Advanced Composite Structures
Asthma and Airways
Biomedical Imaging Development
Cancer Therapeutics
Cast Metals
eWater

Greenhouse Gas Technologies
Integrated Engineering Asset Management
Oral Health Science
Polymers
Rail Innovation
Sustainable Tourism

Research Income (Go8 Comparison)



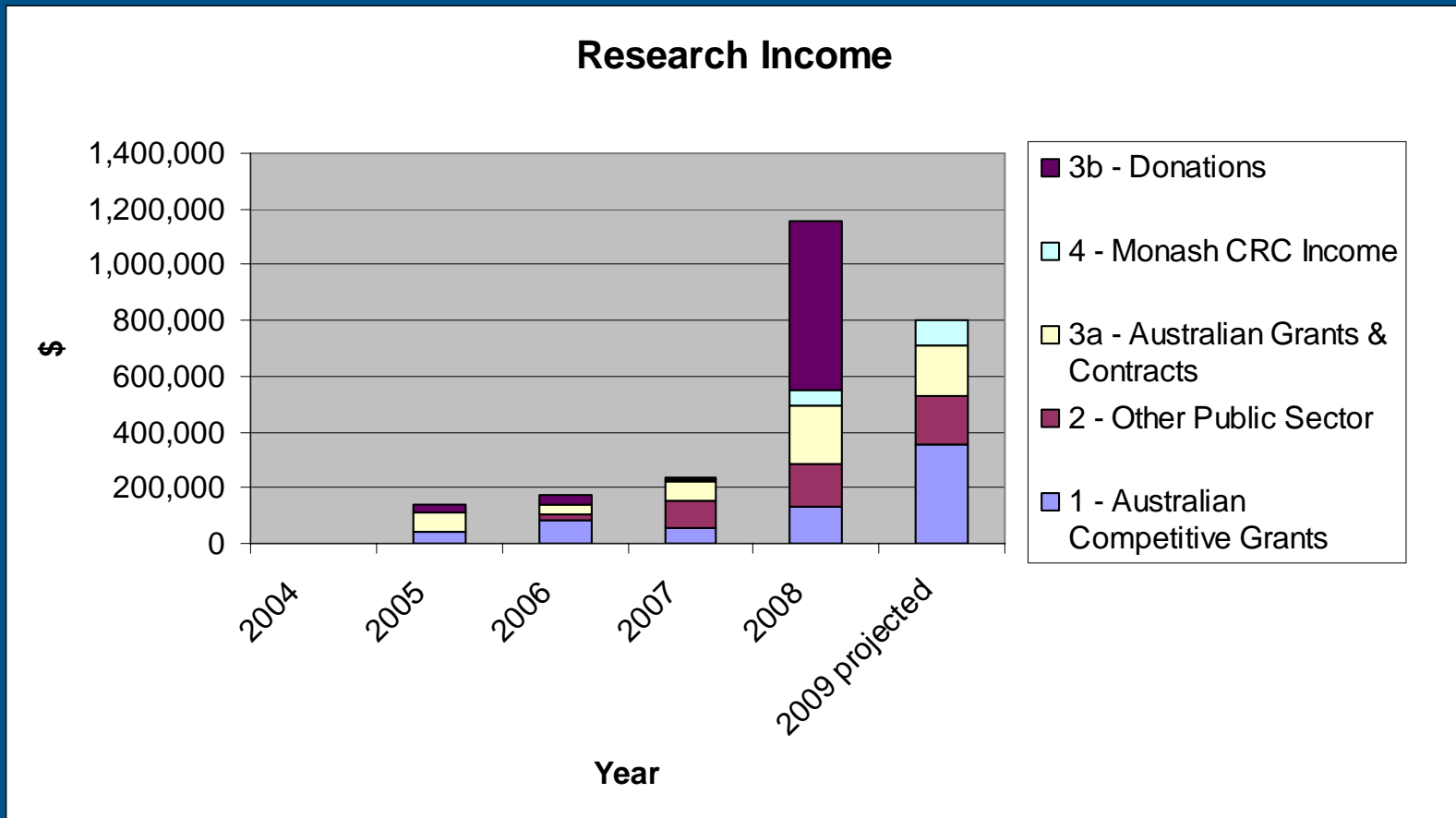
Research Block Grants

Distributed to Faculties

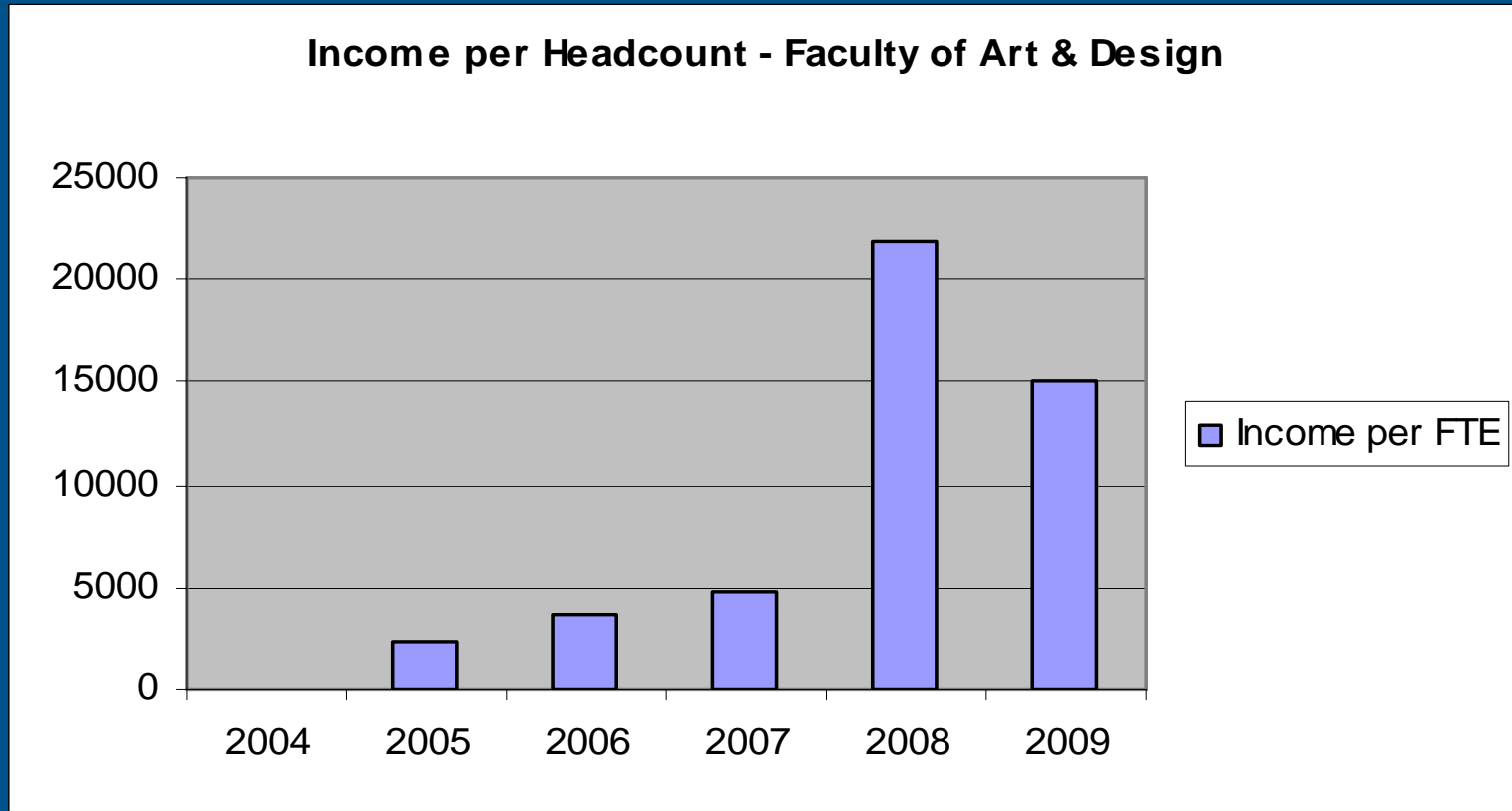
Research Block Grants	2007 Revenue	Management of Funds
Research Infrastructure Block Grant (RIBG)	\$15,6m	Distributed based on Category 1 income (2009 based on 2006 and 2007)
Institutional Grants Scheme (IGS)	\$22.3m	60% Research Income (2006/2007) 10% Publications (2006/2007) 30% HDR load (2008)
Research Training Scheme (RTS)	\$41.4m	50% Completions 40% Research Income 10% Publications
Total	\$79.3m	

Source: Research and Research Training Report 2008

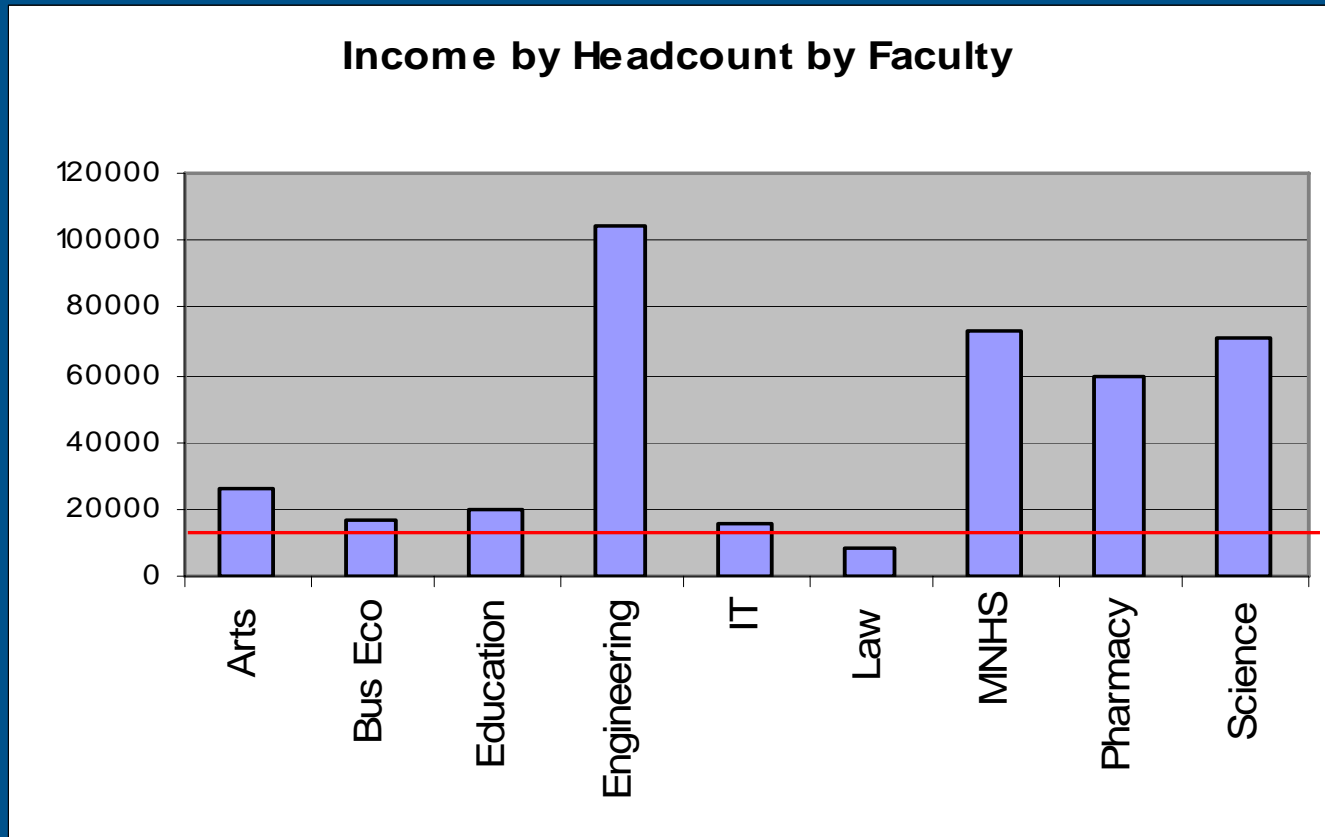
Faculty Research Performance



Faculty Income by Headcount



Outcomes by Faculty



Publications - HERDC

Type	2005	2006	2007	2008	2009 (Proj)
A1 Book	0	0	3	1	4
B1 Chapter	4	4	2	7	7
C1 Journal	1	3	2	9	4
E1 Conference	3	20	10	11	8
Total points (unweighted)	8	27	29	32	39

All research outputs 2002-2007

- **Art & Design** **1500**
- **Arts** **4814**
- **Bus Eco** **3677**
- **Education** **2001**
- **Law** **912**

Operational Plan 2009-11 Key objectives

- Increase quality research outputs and research funding while further developing the Faculty research culture.
- Prepare and position the Faculty for a successful outcome from the ERA

Research Goals

Aim 1: Develop Research Excellence

- 1.1: Assist Researchers to build substantial bodies of high quality work
- 1.2: Encourage Researchers to be recognised leaders in the field and contribute to Research Leadership
- 1.3: Generate research income



Research Goals

Aim 2: Create scale and impact through national and international collaborations

- 2.2: Build strategic connections
- 2.3: Network through Conference and Public Seminars
- 2.4: Build infrastructure



ERA Overview

- The Excellence in Research for Australia (ERA) initiative aims to identify and promote excellence across the full spectrum of research activity, including discovery and applied research, in Australia's higher education institutions. ERA reflects the Government's commitment to a transparent, streamlined approach to the evaluation of the quality of research undertaken in Australia's universities.

Source: ERA Submission Guidelines for PCE and HCA Clusters, March 2009

ERA

- **Pilot 2009 for PCE and HCA – 21 August deadline, results Dec 2009.**
- **Real Thing 2010 for all groups inc HCA**
- **“Various reviews (Bradley etc) advocate that funding of the sector should be linked to ERA outcomes. This, in addition to the reputational effects, means that the ERA exercise should be taken most seriously by the University and that our preparation for the trials this year should also be seen as vital preparation for 2010” Prof Max King.**

HCA structure

12 Built Environment and Design

18 Law and Legal Studies

19 Studies in Creative Arts and Writing

20 Language, Communication and Culture

21 History and Archaeology

22 Philosophy and Religious Studies

ERA

1. *Indicators of research quality*

Research quality is considered on the basis of ranked outlets, citation analysis and peer-reviewed Australian and international research income. Peer review is also incorporated where necessary.

2. *Indicators of research volume and activity*

Research volume and activity is considered on the basis of total research outputs and research income within the context of the eligible researcher profile.

3. *Indicators of research application*

Applied research is considered on the basis of research commercialisation income and other applied measures.

ERA Reporting

Units of reporting will be at 4 digit level

- **1201 Architecture**
- **1203 Design Practice and Management**
- **1901 Art Theory and Criticism**
- **1902 Film, Television and Digital Media**
- **1905 Visual Arts and Crafts**

Data required

- **Background statement**
- **Eligible Researcher Data**
- **Data on Research Outputs**
- **Data on Research Income**
- **Data on Applied Measures**

Background Statement

- **Activities undertaken 2002-2007**
- **2 digit level**
- **10,000 characters**

Task

- **Provide data for statement**
- **Written across many faculties**

Eligible Researcher data

- **Name and Alternative Names**
- **Staff reference**
- **FTE**
- **FOR**
- **Level**
- **Status**
- **Function**

Also assign own codes

Monash has decided to code on themes:

- **Sustainability**
- **Health**
- **Social Inclusion**
- **Understanding Cultures**
- **Productivity and innovation**

And also by NRPs

- Water—a critical resource
- Transforming existing industries
- Overcoming soil loss, salinity and acidity
- Reducing and capturing emissions in transport and energy generation
- Sustainable use of Australia's biodiversity
- Developing deep earth resources
- Responding to climate change and variability
- A healthy start to life
- Ageing well, ageing productively
- Preventive healthcare
- Strengthening Australia's social and economic fabric
- Breakthrough science
- Frontier technologies
- Advanced materials
- Smart information use
- Promoting an innovation culture and economy
- Critical infrastructure
- Understanding our region and the world
- Protecting Australia from invasive diseases and pests
- Protecting Australia from terrorism and crime
- Transformational defence technologies
- Indigenous research



Tasks

- **Assign FOR code(s) to each researcher**
- **Assign Monash Themes**
- **Assign NRPs**
- **Check and enter data on eligibility**

Research Outputs

- **Books**
- **Book chapters**
- **Refereed Journal Articles**
- **Refereed Conferences (Peer review for Architecture only)**
- **Creative works:**
 - Original Creative Works
 - Live performance of Creative Works
 - Recorded/Rendered Creative Works
 - Curated or Produced Substantial Public Exhibitions and events



Tasks

- **Assign FOR codes to each output**
- **Put evidence in ARROW**
- **Select top 20% for peer review**
- **Write research statements**
- **Check and enter data**

Peer Review

20% of all outputs

Eligible Creative works require a 250 word research statement:

1. Research Background

- **Field**
- **Context**
- **Research Question**

2. Research Contribution

- **Innovation**
- **New Knowledge**

3. Research Significance

- **Evidence of Excellence**



Data on Research Income

- **Category 1-4, 2005-2007**

Tasks

- **Assign FOR codes to each fund**
- **Enter and check data**

Data on Applied Measures

- **Patents**
- **Registered Designs**
- **Research Commercialisation Income**

Differences ERA/RQF

RQF

Select researchers

RFCD Codes

Research Clusters

Context statement

Rationale Statements

All Peer review

Impact Statements

Didn't happen

ERA

All Researchers

FOR Codes

2/4 digit groupings

Background statement

Research statements for Creative works

20% peer review - 4 digit level

none – but esteem indicators predicted

Will happen

Conclusion

- **We need info from you**
- **We need it fast**