

Australian Government
Australian Research Council

Excellence in Research for Australia 2012

National Report

ISBN 978-0-9807997-7-4

© Commonwealth of Australia 2012

This work is copyright. Apart from any use as permitted under the Copyright Act 1968, no part may be reproduced by any process without prior written permission from the Commonwealth. Requests and inquiries concerning reproduction and rights for this document should be addressed to the Executive General Manager, Australian Research Council, GPO Box 2702, Canberra, ACT 2601 or communications@arc.gov.au.

MINISTER'S FOREWORD



Australian universities and researchers have a long history of competing with the world's best in a wide range of disciplines.

That's why it gives me great pleasure to present the *Excellence in Research for Australia (ERA) 2012 National Report* that shows why Australia's scientific and research efforts continue to shine on the world stage.

The ERA report outlines how the quality research undertaken by our universities stacks up against a rigorous evaluation process.

It highlights the specific research strengths of individual Australian universities as well as the research strengths of the higher education sector as a whole.

ERA 2012 confirms that researchers at Australian universities compete with the world's best in a wide range of disciplines. World standard research performance in Australia occurs at universities of all shapes and sizes and in all States and Territories. Results like these prove our investment in publicly-funded research is working and is money well spent.

The higher education sector is the second largest contributor to Australia's research and development expenditure—and almost half of it is spent on applied research.

Under the Gillard Government, the sector's expenditure on research and development has reached new heights.

We are making sure Australia remains at the forefront of science and research with more than $1 billion in grants to universities this financial year.

Given the scale and importance of research activity, developing the quality of research is critical —something that this report will help to achieve.

As only the second report of its kind, it offers great new insights that will guide research planning and investment strategies.

It allows us to track the activity and performance of the research disciplines at our universities.

ERA data is also increasingly being used to highlight opportunities for collaboration—so that we can all benefit from the world-class efforts of Australian researchers.

It gives confidence to industry to work in partnership with the sector to innovate and turn research into commercial products and services. This type of collaboration fuels innovation and in turn contributes to a productive and resilient economy.

These partnerships are also helping small and medium sized businesses to grow and create new jobs. Around 13,700 businesses collaborated for innovation purposes with a university or other higher education institution in Australia in 2010–11.

We need to know where the strengths in the sector are in order to exploit those strengths to the nation's advantage. That's why this report is such an important achievement.

I congratulate the Australian Research Council and the universities involved in developing this report on research in Australia.

CEO'S FOREWORD



The release of the *Excellence in Research for Australia (ERA) 2012 National Report* marks the conclusion of the second comprehensive review of research at Australian universities. With the completion of two rounds of ERA evaluations, we are now able to track the achievements of the sector —both over time and relative to world standards.

The ERA indicators of excellence reflect extensive consultation with the range of disciplines across the sector. All Australian universities submitted comprehensive information on their research activities for ERA 2012 —including detailed data in relation to 413,477 publications and other research outputs, 60,668 salaried and non-salaried researchers and related staff, $8,767,725,070 of external research income and 781 patents. Over 1,000 leading researchers from Australia and abroad participated in the assessment process as evaluation committee members or peer reviewers.

While the primary purpose of ERA is to identify research quality and assure Australians their investment in research is being spent wisely, ERA data also provide other valuable information about the research activities of universities. It provides insights into research capacity and patterns of research application, knowledge transfer and collaboration. And it can illuminate the pathways to research impact; which disciplines are growing and how fast; and the contribution made by staff at all levels. From ERA data, for example, we can determine which disciplines received the highest share of income from applied sources and whether this mirrors the share of patents attributed to those disciplines. We can even track patterns of collaboration between universities and patterns of co-authorship by discipline.

ERA provides a rich vein of data that will continue to yield valuable insights. Future iterations of ERA will provide additional opportunities to extend ERA's reach, particularly in relation to indicators of research application, knowledge transfer and collaboration. The ARC will continue to work with universities to ensure that ERA remains a dynamic and flexible system of research evaluation—one that can fully capture the critical contribution university research makes to the Australian innovation system.

The ARC appreciates the effort and expertise expended on the assessment process by both individuals and participating universities and acknowledges that this contribution is essential to ERA's success.

TABLE OF CONTENTS

ABBREVIATIONS XII

GUIDE TO THE REPORT XIII

INTRODUCTION 1

- ERA Overview 3
- Definition of Research 3
- Use of Information from ERA 4
- Key ERA 2012 Documents 4
- ERA 2012 Evaluation Process 4
- ERA 2012 Discipline Clusters 5
- ERA 2012 Indicators 5
- Fields of Research (FoR) Codes 6
- Unit of Evaluation 6
- Low Volume Threshold 6
- ERA 2012 Reference Periods 7
- ERA Rating Scale 7
- Changes for ERA 2012 8
- Use of the ERA National Report 9

SECTION 1: ERA NATIONAL OVERVIEW 10

- Research Quality 13
- Assessed Units of Evaluation 14
- Comparison of ERA 2010 and ERA 2012 Research Output, Applied and Esteem Measures 16
- National ERA 2012 Volume at a Glance 17
- Research Outputs 25
- FTE Staffing Profile 27
- HERDC Research Income Summary (All Categories) 28
- HERDC Category 1—Australian Competitive Grants Research Income 29
- HERDC Category 2—Other Public Sector Research Income 30
- HERDC Category 3—Industry and Other Research Income 31
- HERDC Category 4—CRC Research Income 32
- Research Commercialisation Income 33
- Patents Sealed 34
- Plant Breeder's Rights 35

Registered Designs 35
NHMRC Endorsed Guidelines 35
Esteem measures 36
Emerging Disciplines, Research Application and Impact 37
Emerging Disciplines: Discipline Growth 37
Emerging Disciplines: Two-digit Growth Rates 40
Emerging Disciplines: Multi-disciplinary Research 41
Emerging Disciplines: Research Capacity 43
Research Application and Pathways to Research Impact 45
Research Application: Non-Traditional Research Outputs 45
Research Application: Studies in Creative Arts and Writing 47
Research Application: Built Environment and Design 47
Research Application: Economics and Studies in Human Society 48
Research Application: Patents 49
Research Application: Engineering 50
Research Application: Medical and Health Sciences 51
Pathways to Research Impact: Knowledge Transfer 52
Pathways to Research Impact: Collaboration 53
Pathways to Research Impact: Co-authorship 54

SECTION 2: RESULTS BY FIELDS OF RESEARCH CODE 55

01 Mathematical Sciences 61
0101 Pure Mathematics 65
0102 Applied Mathematics 65
0103 Numerical and Computational Mathematics 65
0104 Statistics 66
0105 Mathematical Physics 66
0199 Other Mathematical Sciences 66
02 Physical Sciences 67
0201 Astronomical and Space Sciences 71
0202 Atomic, Molecular, Nuclear, Particle and Plasma Physics 71
0203 Classical Physics 71
0204 Condensed Matter Physics 72
0205 Optical Physics 72
0206 Quantum Physics 72
0299 Other Physical Sciences 73
03 Chemical Sciences 74
0301 Analytical Chemistry 78
0302 Inorganic Chemistry 78

0303 Macromolecular and Materials Chemistry *78*
0304 Medicinal and Biomolecular Chemistry *79*
0305 Organic Chemistry *79*
0306 Physical Chemistry (Incl. Structural) *79*
0307 Theoretical and Computational Chemistry *80*
0399 Other Chemical Sciences *80*
04 Earth Sciences 81
0401 Atmospheric Sciences *85*
0402 Geochemistry *85*
0403 Geology *85*
0404 Geophysics *86*
0405 Oceanography *86*
0406 Physical Geography and Environmental Geoscience *86*
0499 Other Earth Sciences *87*
05 Environmental Sciences 88
0501 Ecological Applications *92*
0502 Environmental Science and Management *92*
0503 Soil Sciences *92*
0599 Other Environmental Sciences *93*
06 Biological Sciences 94
0601 Biochemistry and Cell Biology *98*
0602 Ecology *98*
0603 Evolutionary Biology *98*
0604 Genetics *99*
0605 Microbiology *99*
0606 Physiology *99*
0607 Plant Biology *100*
0608 Zoology *100*
0699 Other Biological Sciences *100*
07 Agricultural and Veterinary Sciences 101
0701 Agriculture, Land and Farm Management *105*
0702 Animal Production *105*
0703 Crop and Pasture Production *105*
0704 Fisheries Sciences *106*
0705 Forestry Sciences *106*
0706 Horticultural Production *106*
0707 Veterinary Sciences *107*
0799 Other Agricultural and Veterinary Sciences *107*

08 Information and Computing Sciences 108
0801 Artificial Intelligence and Image Processing *112*
0802 Computation Theory and Mathematics *112*
0803 Computer Software *112*
0804 Data Format *113*
0805 Distributed Computing *113*
0806 Information Systems *113*
0807 Library and Information Studies *114*
0899 Other Information and Computing Sciences *114*
09 Engineering 115
0901 Aerospace Engineering *120*
0902 Automotive Engineering *120*
0903 Biomedical Engineering *120*
0904 Chemical Engineering *121*
0905 Civil Engineering *121*
0906 Electrical and Electronic Engineering *121*
0907 Environmental Engineering *122*
0908 Food Sciences *122*
0909 Geomatic Engineering *122*
0910 Manufacturing Engineering *123*
0911 Maritime Engineering *123*
0912 Materials Engineering *123*
0913 Mechanical Engineering *124*
0914 Resources Engineering and Extractive Metallurgy *124*
0915 Interdisciplinary Engineering *124*
0999 Other Engineering *125*
10 Technology 126
1001 Agricultural Biotechnology *130*
1002 Environmental Biotechnology *130*
1003 Industrial Biotechnology *130*
1004 Medical Biotechnology *131*
1005 Communications Technologies *131*
1006 Computer Hardware *131*
1007 Nanotechnology *132*
1099 Other Technology *132*
11 Medical and Health Sciences 133
1101 Medical Biochemistry and Metabolomics *139*
1102 Cardiovascular Medicine and Haematology *139*

1103 Clinical Sciences 139
1104 Complementary and Alternative Medicine 140
1105 Dentistry 140
1106 Human Movement and Sports Science 140
1107 Immunology 141
1108 Medical Microbiology 141
1109 Neurosciences 141
1110 Nursing 142
1111 Nutrition and Dietetics 142
1112 Oncology and Carcinogenesis 142
1113 Ophthalmology and Optometry 143
1114 Paediatrics and Reproductive Medicine 143
1115 Pharmacology and Pharmaceutical Sciences 143
1116 Medical Physiology 144
1117 Public Health and Health Services 144
1199 Other Medical and Health Sciences 144
12 Built Environment and Design 145
1201 Architecture 149
1202 Building 149
1203 Design Practice and Management 149
1204 Engineering Design 150
1205 Urban and Regional Planning 150
1299 Other Built Environment and Design 150
13 Education 151
1301 Education Systems 155
1302 Curriculum and Pedagogy 155
1303 Specialist Studies in Education 155
1399 Other Education 156
14 Economics 157
1401 Economic Theory 161
1402 Applied Economics 161
1403 Econometrics 161
1499 Other Economics 162
15 Commerce, Management, Tourism and Services 163
1501 Accounting, Auditing and Accountability 167
1502 Banking, Finance and Investment 167
1503 Business and Management 167

1504 Commercial Services *168*
1505 Marketing *168*
1506 Tourism *168*
1507 Transportation and Freight Services *169*
1599 Other Commerce, Management, Tourism and Services *169*
16 Studies in Human Society 170
1601 Anthropology *174*
1602 Criminology *174*
1603 Demography *174*
1604 Human Geography *175*
1605 Policy and Administration *175*
1606 Political Science *175*
1607 Social Work *176*
1608 Sociology *176*
1699 Other Studies in Human Society *176*
17 Psychology and Cognitive Sciences 177
1701 Psychology *181*
1702 Cognitive Sciences *181*
1799 Other Psychology and Cognitive Sciences *181*
18 Law and Legal Studies 182
1801 Law *185*
1802 Maori Law *185*
1899 Other Law and Legal Studies *185*
19 Studies in Creative Arts and Writing 186
1901 Art Theory and Criticism *190*
1902 Film, Television and Digital Media *190*
1903 Journalism and Professional Writing *190*
1904 Performing Arts and Creative Writing *191*
1905 Visual Arts and Crafts *191*
1999 Other Studies in Creative Arts and Writing *191*
20 Language, Communication and Culture 192
2001 Communication and Media Studies *196*
2002 Cultural Studies *196*
2003 Language Studies *196*
2004 Linguistics *197*
2005 Literary Studies *197*
2099 Other Language, Communication and Culture *197*

21 History and Archaeology 198
2101 Archaeology *202*
2102 Curatorial and Related Studies *202*
2103 Historical Studies *202*
2199 Other History and Archaeology *203*
22 Philosophy and Religious Studies 204
2201 Applied Ethics *208*
2202 History and Philosophy of Specific Fields *208*
2203 Philosophy *208*
2204 Religion and Religious Studies *209*
2299 Other Philosophy and Religious Studies *209*

SECTION 3: NATIONAL PROFILES BY FIELDS OF RESEARCH CODE 210

Research Outputs by Type 216
Research Outputs by Year 223
HERDC Category 1—Australian Competitive Grants Research Income 230
HERDC Category 2—Other Public Sector Research Income 237
HERDC Category 3—Industry and Other Research Income 244
HERDC Category 3—Industry and Other Research Income (Australian) 251
HERDC Category 3—Industry and Other Research Income (International A) 258
HERDC Category 3—Industry and Other Research Income (International B) 265
HERDC Category 4—CRC Research Income 272
Staffing Profile 279
Research Commercialisation Income 286
Patents Sealed 293
Plant Breeder's Rights 298
NHMRC Endorsed Guidelines 298
Esteem 299

SECTION 4: ERA 2012 INSTITUTION REPORT 306

01 Mathematical Sciences 309
02 Physical Sciences 310
03 Chemical Sciences 311
04 Earth Sciences 312
05 Environmental Sciences 313

06 Biological Sciences 314
07 Agricultural and Veterinary Sciences 315
08 Information and Computing Sciences 316
09 Engineering 317
10 Technology 318
11 Medical and Health Sciences 319
12 Built Environment and Design 320
13 Education 321
14 Economics 322
15 Commerce, Management, Tourism and Services 323
16 Studies in Human Society 324
17 Psychology and Cognitive Sciences 325
18 Law and Legal Studies 326
19 Studies in Creative Arts and Writing 327
20 Language, Communication and Culture 328
21 History and Archaeology 329
22 Philosophy and Religious Studies 330

GLOSSARY 331

APPENDIX 1: ELIGIBLE INSTITUTIONS 338

APPENDIX 2: ANZSRC FIELDS OF RESEARCH (FoR) CODES 339

ABBREVIATIONS

AIATSIS	Australian Institute of Aboriginal and Torres Strait Islander Studies
ANZSRC	Australian and New Zealand Standard Research Classification (ANZSRC) 2008
ARC	Australian Research Council
BB	Biological and Biotechnological Sciences discipline cluster/Research Evaluation Committee
Comm.	Commercialisation
CRC	Cooperative Research Centre
DIISRTE	Department of Industry, Innovation, Science, Research and Tertiary Education
EC	Economics and Commerce discipline cluster/Research Evaluation Committee
EE	Engineering and Environmental Sciences discipline cluster/Research Evaluation Committee
EHS	Education and Human Society discipline cluster/Research Evaluation Committee
EPO	European Patent Office
ERA	Excellence in Research for Australia
FoR	Fields of Research (ANZSRC)
FTE	Full-Time Equivalent
HCA	Humanities and Creative Arts discipline cluster/Research Evaluation Committee
HERDC	Higher Education Research Data Collection
HESDC	Higher Education Staff Data Collection
JPO	Japan Patent Office
MHS	Medical and Health Sciences discipline cluster/Research Evaluation Committee
MIC	Mathematical, Information and Computing Sciences discipline cluster/ Research Evaluation Committee
n/a	Not assessed due to low volume
NHMRC	National Health and Medical Research Council
NTRO	Non-traditional research outputs
PBRs	Plant Breeder's Rights
PCE	Physical, Chemical and Earth Sciences discipline cluster/Research Evaluation Committee
REC	Research Evaluation Committee
R&D	Research and Development
Res. comm.	Research commercialisation
UoE	Unit of Evaluation
USPTO	United States Patent and Trademark Office

GUIDE TO THE REPORT

The *Excellence in Research for Australia (ERA) 2012 National Report* presents a comprehensive assessment by discipline of the quality of research activity conducted in Australia's higher education institutions. This report provides information on the discipline-specific research activity of each eligible Australian higher education institution (see *Appendix 1: Eligible Institutions*), and the contribution of each discipline to the national landscape.

The *ERA 2012 National Report* is divided into five sections which are listed below:

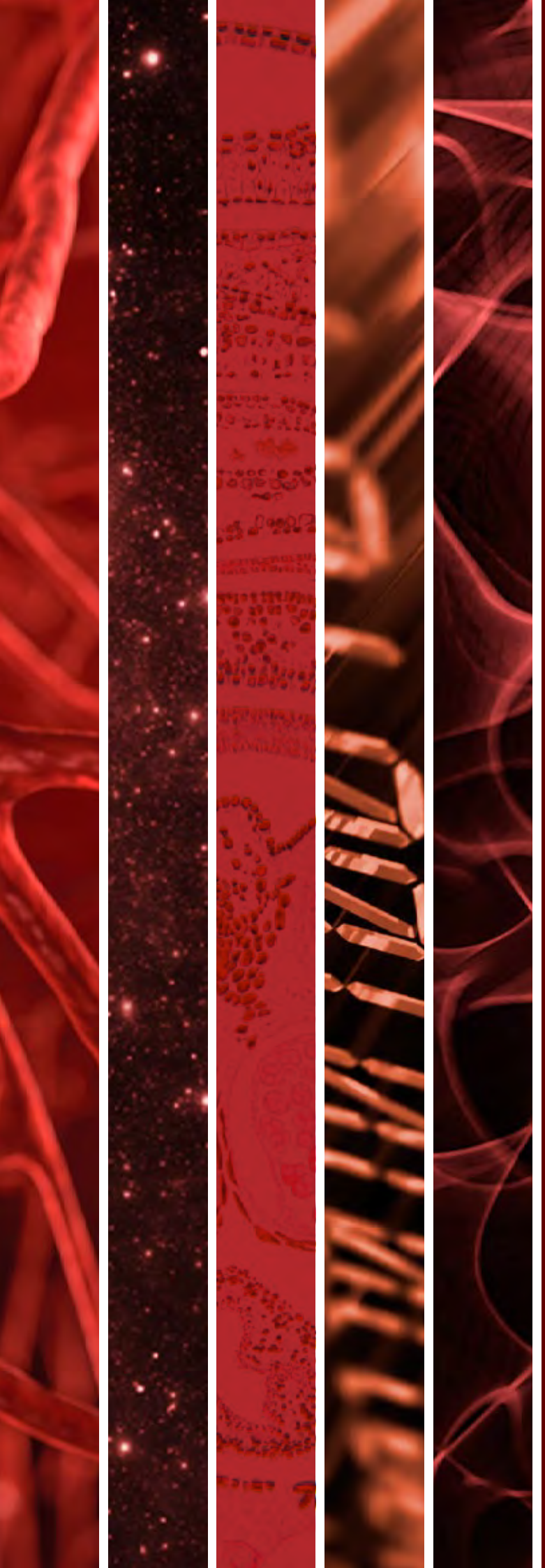
- The **Introduction** provides an overview of the ERA framework and methodology.
- **Section 1: ERA 2012 National Overview** provides a national summary of world standard research performance, a summary of all data submitted for the purposes of ERA evaluation, and some observations arising from ERA 2012 submission data.
- **Section 2: Results by Fields of Research (FoR) Code** provides a summary of evaluation outcomes and data for each FoR code, including ERA rating outcomes, information about interdisciplinary research, and key volume and activity information.
- **Section 3: National Profiles by FoR Code** provides a detailed breakdown of ERA data by two-digit and four-digit FoR codes.
- **Section 4: ERA 2012 Institution Report** provides the ERA ratings for each assessable Unit of Evaluation (UoE) for each of the 41 institutions eligible for ERA.

Enquiries about the *ERA 2012 National Report* should be directed to:

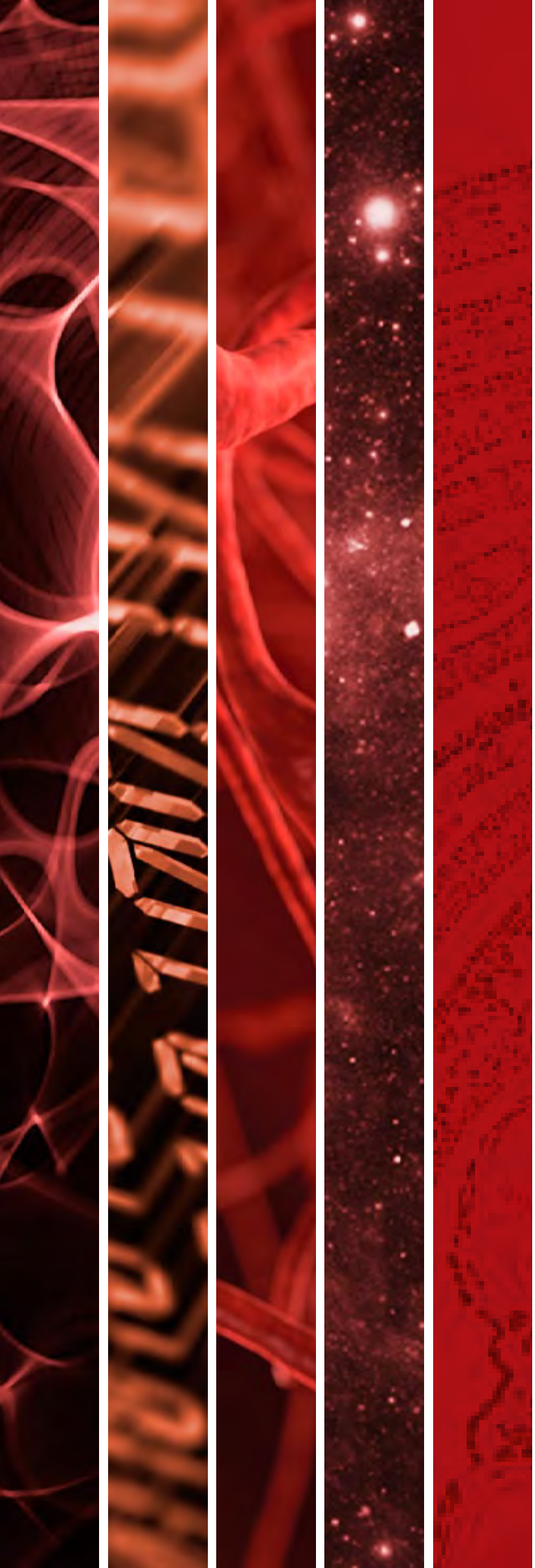
Leanne Harvey
Executive General Manager
Australian Research Council

Tel: +61 6287 6755
Email: era@arc.gov.au

This report is available on the ARC website at: www.arc.gov.au/era
If you have issues with obtaining any information or document on our website, please contact the ARC on +02 6287 6600 or web@arc.gov.au.



Introduction



Introduction

ERA Overview	3
Definition of Research	3
Use of Information from ERA	4
Key ERA 2012 Documents	4
ERA 2012 Evaluation Process	4
ERA 2012 Discipline Clusters	5
ERA 2012 Indicators	5
Fields of Research (FoR) Codes	6
Unit of Evaluation	6
Low Volume Threshold	6
ERA 2012 Reference Periods	7
ERA Rating Scale	7
Changes for ERA 2012	8
Use of the ERA National Report	9

INTRODUCTION

In 2012, the Australian Research Council (ARC) conducted the second full Excellence in Research for Australia (ERA) evaluation. The evaluation collected data regarding the quality of research activity undertaken at all eligible higher education research institutions [1] within the ERA 2012 reference period. These data were then evaluated by eight Research Evaluation Committees (RECs), established at a discipline cluster level, and comprised of distinguished and internationally-recognised researchers with expertise in research evaluation.[2]

This National Report provides an overview of the data collected from and the outcomes of the ERA 2012 evaluation process.

ERA Overview

ERA aims to identify and promote excellence across the full spectrum of research activity, including both discovery and applied research, within Australian higher education institutions.

The objectives of ERA are to:

1. Establish an evaluation framework that gives government, industry, business and the wider community assurance of the excellence of research conducted in Australia's higher education institutions.
2. 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.
3. Identify excellence across the full spectrum of research performance.
4. Identify emerging research areas and opportunities for further development.
5. Allow for comparisons of Australia's research nationally and internationally for all discipline areas.

Definition of Research

For the purposes of ERA, research is defined as the creation of new knowledge and/or the use of existing knowledge in a new and creative way so as to generate new concepts, methodologies and understandings. This could include synthesis and analysis of previous research to the extent that it is new and creative.

This definition of research is consistent with a broad notion of research and experimental development (R&D) as comprising 'creative work undertaken on a systematic basis in order to increase the stock of knowledge, including knowledge of humanity, culture and society, and the use of this stock of knowledge to devise applications'.[3]

Institutions were asked to use this definition of research when assessing the eligibility of research outputs for submission in ERA.

1 See **Appendix 1** for a list of eligible institutions.

2 A list of ERA 2012 REC members is available at: http://www.arc.gov.au/era/recs_2012/recs_2012.htm

3 OECD (2002), Frascati Manual: Proposed Standard Practice for Surveys on Research and Experimental Development, Paris.

Use of Information from ERA

ERA is included as a key measure of performance in the 2011–2013 mission-based compacts between the Australian Government and institutions and has already informed the development of the Government's Research Workforce Strategy (RWS). ERA 2012 outcomes will also inform:

- the 2014–16 mission-based compacts between the Australian Government and institutions;
- the allocation of some funding through the Sustainable Research Excellence in Universities (SRE) initiative;
- the new minimum standards for higher education research and research training, to be administered by the Tertiary Education Quality and Standards Agency (TEQSA).

For further information please refer to the Department of Industry, Innovation, Science, Research and Tertiary Education (DIISRTE) website at www.innovation.gov.au.

Key ERA 2012 Documents

There are several documents that provide more detailed information about various aspects of the ERA 2012 evaluation. These include:[4]

- *ERA 2012 Submission Guidelines*—provides guidance to institutions about ERA 2012 submission rules and components.
- *ERA 2012 Discipline Matrix*—shows the indicators that apply to each FoR code.
- *ERA 2012 Journal List*—defines the scholarly, peer reviewed journals in which an article must have been published to be eligible for submission to ERA as a journal article.
- *ERA 2012 Evaluation Handbook*—provides detailed information about the ERA 2012 indicators, evaluation approach and process.

Further information about ERA is available on the ARC website at:
http://www.arc.gov.au/era/era_2012/key_documents_2012.htm

ERA 2012 Evaluation Process

Evaluation of data submitted for ERA 2012 was undertaken by eight Research Evaluation Committees (RECs),[5] broadly representative of eight discipline clusters. The ERA 2012 Research Evaluation Committees were comprised of 147 individual distinguished and internationally recognised researchers from Australia and overseas, with expertise in their fields and in research evaluation.

Further details concerning the ERA 2012 Evaluation process, including moderation and conflict of interest procedures, can be found in the *ERA 2012 Evaluation Handbook*.[6]

4 ERA 2012 key documents are available at: http://www.arc.gov.au/era/era_2012/key_documents_2012.htm

5 See http://www.arc.gov.au/era/recs_2012/recs_2012.htm for a list of REC members.

6 The *ERA 2012 Evaluation Handbook* is available from: http://www.arc.gov.au/era/era_2012/key_documents_2012.htm

ERA 2012 Discipline Clusters

The ERA 2012 evaluation collected data and undertook evaluations across eight discipline clusters. Discipline clusters are a construct developed primarily to assist in balancing workload across the various FoR codes. The discipline clusters for ERA 2012 are:

- Physical, Chemical and Earth Sciences (PCE)
- Humanities and Creative Arts (HCA)
- Engineering and Environmental Sciences (EE)
- Education and Human Society (EHS)
- Economics and Commerce (EC)
- Mathematical, Information and Computing Sciences (MIC)
- Biological and Biotechnological Sciences (BB)
- Medical and Health Sciences (MHS)

See **Appendix 2** for a full list of FoR codes and their discipline cluster for ERA 2012 purposes.

ERA 2012 Indicators

ERA is based on the principle of expert review informed by indicators. The ERA 2012 evaluations undertaken by RECs were informed by four broad categories of indicators:

1. *Indicators of research quality*
   Research quality was considered on the basis of a publishing profile, citation analysis, ERA peer review, and peer reviewed Australian and international research income.
2. *Indicators of research volume and activity*
   Research volume and activity was considered on the basis of total research outputs, research income and other research items within the context of the profile of eligible researchers.
3. *Indicators of research application*
   Research application was considered on the basis of research commercialisation income and other applied measures.
4. *Indicators of recognition*
   Research recognition was considered on the basis of a range of esteem measures.

More detailed information about each of the ERA indicators is available in the *ERA 2012 Evaluation Handbook*.

The ERA indicators are underpinned by the ERA Indicator Principles.[7] The ERA Indicator Principles were developed by the ARC in accordance with international best practice and informed by the ERA Indicator Development Group with analytical testing of data from the Australian higher education sector.

The ERA indicator suite was developed to align with the research behaviours of each discipline. For this reason, there are differences in the selection of indicators. The indicators that apply to each discipline (as defined by two-digit or four-digit FoRs) are shown in the *ERA 2012 Discipline Matrix*.[8]

7 The *ERA Indicator Principles* are available at: http://www.arc.gov.au/era/era_2012/key_documents_2012.htm

8 The *ERA 2012 Discipline Matrix* is available at: http://www.arc.gov.au/era/era_2012/key_documents_2012.htm

Fields of Research (FoR) Codes

For the purposes of ERA, disciplines are defined as two-digit and four-digit Fields of Research (FoRs) codes as identified in the *Australia and New Zealand Standard Research Classification (ANZSRC) 2008* released by the Australian Bureau of Statistics and Statistics New Zealand. The ANZSRC provides 22 two-digit FoR codes, 157 four-digit FoR codes, and an extensive range of six-digit codes.

The FoR codes as used in ERA 2012 are listed in **Appendix 2**. ERA undertakes evaluation at both the two- and four-digit FoR code level. Institutions submitted data to ERA at the four-digit level and these were aggregated to form the two- and four-digit Units of Evaluation (UoEs).

The two-digit FoR code is the highest level of the ANZSRC hierarchy; it relates to a broad discipline field, for example, Physical Sciences (02) or History and Archaeology (21). A two-digit FoR code consists of a collection of related four-digit FoR codes.

The four-digit FoR code is the second level of the ANZSRC hierarchy and relates to a specific discipline field of a two-digit FoR code. For example, Astronomical and Space Sciences (0201) or Archaeology (2101).

Unit of Evaluation

The Unit of Evaluation for ERA is the research discipline for each institution as defined by FoR codes. Evaluations occurred at the two- and four-digit FoR code levels for UoEs that met the low volume threshold. UoEs do not correspond to named disciplines, departments or research groups within an institution.

National-level profiles of disciplines aggregated across institutions at the two- and four-digit FoR code level include information from all submitting institutions, including from those which did not meet the low volume threshold and were therefore not assessed.

Low Volume Threshold

Four-digit and two-digit UoEs were only assessed where there was a meaningful level of data to be evaluated. An institution is only evaluated in ERA in a four-digit or two-digit discipline if the number of research outputs submitted reaches the low volume threshold.

For disciplines where citation analysis was used, the low volume threshold was 50 apportioned indexed journal articles. No evaluation was conducted for the FoR at a given institution if the submitted number of apportioned indexed journal articles over the six-year research outputs reference period was fewer than 50 in any two- or four-digit FoR.

For disciplines where citation analysis was not used and peer review was undertaken, the low volume threshold was 50 apportioned weighted outputs. For these disciplines, books were given an effective weighting of 5:1 compared with other research outputs. Books were weighted only for the purposes of determining the low volume threshold; in every other instance they were regarded as a single research output. Portfolios of works were counted as one output for the purposes of determining the low volume threshold. No evaluation was conducted for an FoR at a given institution where, over the six-year research outputs reference period, there were less than the equivalent of 50 apportioned weighted research outputs submitted.

For some FoRs at some institutions, there was insufficient research volume to undertake a valid analysis at the four-digit FoR level, but sufficient research volume at the two-digit FoR level. In these instances, evaluation took place at the two-digit FoR level only.

Where the low volume threshold was not met, the UoE for a given institution was automatically treated as 'not assessed due to low volume', and is reported as 'n/a'. This means that data submitted on research outputs, research income, applied measures and esteem measures for the relevant two- or four-digit FoR for that institution was collected but not evaluated under ERA 2012. The institution, therefore, was not considered as research active for that discipline for purposes of ERA 2012. However, the data submitted still contributed to the construction of the ERA benchmarks and all ERA data was aggregated for national-level reporting irrespective of whether any FoRs within a specific institution met the low volume threshold.

ERA 2012 Reference Periods

Data for the following reference periods was collected for ERA 2012:

Data Type	Reference Period	Years
Research Outputs	1 January 2005 – 31 December 2010	6
Research Income	1 January 2008 – 31 December 2010	3
Applied Measures	1 January 2008 – 31 December 2010	3
Esteem Measures	1 January 2008 – 31 December 2010	3
Staff Eligibility Period	As at 31 March 2011	Census Date
Citation Data Period	1 January 2005 – 1 March 2012	7 years 2 months

ERA Rating Scale

ERA utilises a five-point rating scale. The rating scale is broadly consistent with the approach taken in research evaluation processes in other countries to allow for international comparison.

Rating	Descriptor
5	The Unit of Evaluation profile is characterised by evidence of outstanding performance **well above world standard** presented by the suite of indicators used for evaluation.
4	The Unit of Evaluation profile is characterised by evidence of performance **above world standard** presented by the suite of indicators used for evaluation.
3	The Unit of Evaluation profile is characterised by evidence of average performance **at world standard** presented by the suite of indicators used for evaluation.
2	The Unit of Evaluation profile is characterised by evidence of performance **below world standard** presented by the suite of indicators used for evaluation.
1	The Unit of Evaluation profile is characterised by evidence of performance **well below world standard** presented by the suite of indicators used for evaluation.
n/a	Not assessed due to low volume. The number of research outputs does not meet the volume threshold standard for evaluation in ERA.

Notes on the Rating Scale

- 'World Standard' refers to a quality standard. It does not refer to the nature or geographical scope of particular subjects, or to the locus of research nor its place of dissemination.
- Each point within the rating scale represents a quality 'band'. For example, one UoE might be rated highly within the '4' band and another rated lower within the same band, but the rating for both will be a 4. Only whole ratings are given (not 4.2, 4.5 etc).
- The 'banding' of quality ratings assists RECs in determining a final rating. If, for example, a Unit of Evaluation has a preliminary rating at the top margin of the '4' band based on the assessment of the quality of the research outputs, other indicators (e.g. income or esteem measures) may be sufficient to raise the rating into the '5' band. The lack of such indicators will not, however, be used to lower a rating.
- The ERA evaluation measures research quality, not scale or productivity. Volume information is presented to the RECs for the purposes of providing context to the research.

- The methodology and rating scale allow for UoEs with different volumes of output to achieve the same rating. So, for example, a UoE with a small number of outputs can achieve a rating of 5 where the UoE meets the standard for that rating point, similar to a UoE with a large number of outputs.

- Each UoE is assessed against the absolute standards of the rating scale, not against other UoEs. One of the key objectives of ERA is to identify excellence across the full spectrum of research performance.

- RECs exercise their knowledge, judgment and expertise to reach a single rating for each UoE. In reaching a rating, RECs take account of all of the supporting evidence which is submitted for the UoE. RECs do not make comment about the contributions of individual researchers.

- The rating for each UoE reflects the REC's expert and informed view of the characteristics of the UoE as a whole. In all cases the quality judgments relate to all of the evidence, including the entire indicator suite, and the ERA Rating Scale. In order to achieve a rating at a particular point on the scale, the majority of the output from the UoE will normally be expected to meet the standard for that rating point. Experience has demonstrated that there is normally a variety of quality within a UoE.

Further details concerning the ERA Evaluation process can be found in the *ERA 2012 Evaluation Handbook*.

Changes for ERA 2012

Modifications were made to the ERA process in light of ERA 2010 and consultation with members of the Australian higher education research sector, ERA 2010 Research Evaluation Committee Members, and members of the public. Key changes are listed below.

Reassignment Exception

In the case of journal articles, institutions apportioned an article to any or all of those FoR codes assigned to the journal in the *ERA 2012 Journal List*. The ARC introduced an exception to this rule for ERA 2012: where a journal article has significant content (66% or greater) that could best be described by a particular FoR code that is not available for the journal it is published in (as assigned in the *ERA 2012 Journal List*), the institution may assign that FoR code to the article to a minimum of 66%.

Low Volume Threshold Change for Peer Review Disciplines

For Peer Review disciplines, there was an increase in the low volume threshold to 50 apportioned weighted outputs, bringing it into line with the threshold for citation disciplines of 50 apportioned indexed journal articles. The 5:1 weighting for books in Peer Review disciplines remains for purposes of calculating the low volume threshold.

Movement from Citation Analysis to Peer Review Disciplines

As a result of consultations held after ERA 2010, all four-digit and two-digit codes in 08 Information and Computing Sciences used peer review instead of citation analysis in ERA 2012, allowing conference publications to be included in the calculation of the low volume threshold. The four-digit codes 1005, 1006 have also moved to Peer Review.

Non-traditional Research Outputs

The category of Non-traditional Research Outputs (NTRO) was made available to disciplines in two-digit FoR codes Economics (14) and Studies in Human Society (16) (and all four-digit FoR codes that sit beneath them) in addition to those offered in ERA 2010. This allowed institutions to submit research outputs such as policy documents for these disciplines.

Attribution of Applied Measures to Individuals as well as Institutions

Applied measures including Patents, Plant Breeder's Rights and Registered Designs assigned to individual eligible researchers as well those assigned to institutions were eligible for submission to ERA 2012.

Esteem measures

The esteem measure 'editor prestigious works of reference' became eligible to be submitted in the four-digit FoR codes Building (1202) and Engineering Design (1204).

Use of the ERA National Report

The *Excellence in Research for Australia (ERA) 2012 National Report* presents data submitted as part of a comprehensive assessment by discipline of the research quality and research activity within Australia's higher education institutions.

Coverage

ERA retrospectively evaluates the quality of research conducted within the specific reference periods (as shown above). As the ERA 2012 research outputs reference period ended on 31 December 2010, research quality may have changed since that time.

Comparison across data items

Each UoE is assessed against the ERA rating scale. As no comparisons are made between UoEs, ERA ratings cannot be used as a ranking device. Further, as each ERA rating point might include a range of performances, and the gap between rating points is not defined, it is not appropriate to average ratings even within disciplines.

ERA has been designed to provide flexibility for, and recognition of, discipline-specific research behaviours at both the four-digit and two-digit FoR levels rather than comparison between disciplines or disciplinary clusters. ERA evaluations are conducted by discipline experts interpreting the indicators for each UoE in the context of their own expert knowledge of the discipline. Different indicators apply to each discipline, as outlined in the *ERA 2012 Discipline Matrix*. For this reason it is not appropriate to make productivity statements about or comparisons between disciplines.

Where possible the data presented in this report is de-duplicated. This does not represent the exact data submitted to ERA 2012 for the purposes of evaluation (which potentially contained duplicate data submitted by multiple institutions).



SECTION 1

ERA National Overview



SECTION 1

ERA National Overview

Research Quality	13
Assessed Units of Evaluation	14
Comparison of ERA 2010 and ERA 2012 Research Output, Applied and Esteem Measures	16
National ERA 2012 Volume at a Glance	17
Research Outputs	25
FTE Staffing Profile	27
HERDC Research Income Summary (All Categories)	28
HERDC Category 1—Australian Competitive Grants Research Income	29
HERDC Category 2—Other Public Sector Research Income	30
HERDC Category 3—Industry and Other Research Income	31
HERDC Category 4—CRC Research Income	32
Research Commercialisation Income	33
Patents Sealed	34
Plant Breeder's Rights	35
Registered Designs	35
NHMRC Endorsed Guidelines	35
Esteem measures	36
Emerging Disciplines, Research Application and Impact	37
Emerging Disciplines: Discipline Growth	37



Emerging Disciplines: Two-digit Growth Rates 40

Emerging Disciplines: Multi-disciplinary Research 41

Emerging Disciplines: Research Capacity 43

Research Application and Pathways to Research Impact 45

Research Application: Non-traditional Research Outputs 45

Research Application: Studies in Creative Arts and Writing 47

Research Application: Built Environment and Design 47

Research Application: Economics and Studies in Human Society 48

Research Application: Patents 49

Research Application: Engineering 50

Research Application: Medical and Health Sciences 51

Pathways to Research Impact: Knowledge Transfer 52

Pathways to Research Impact: Collaboration 53

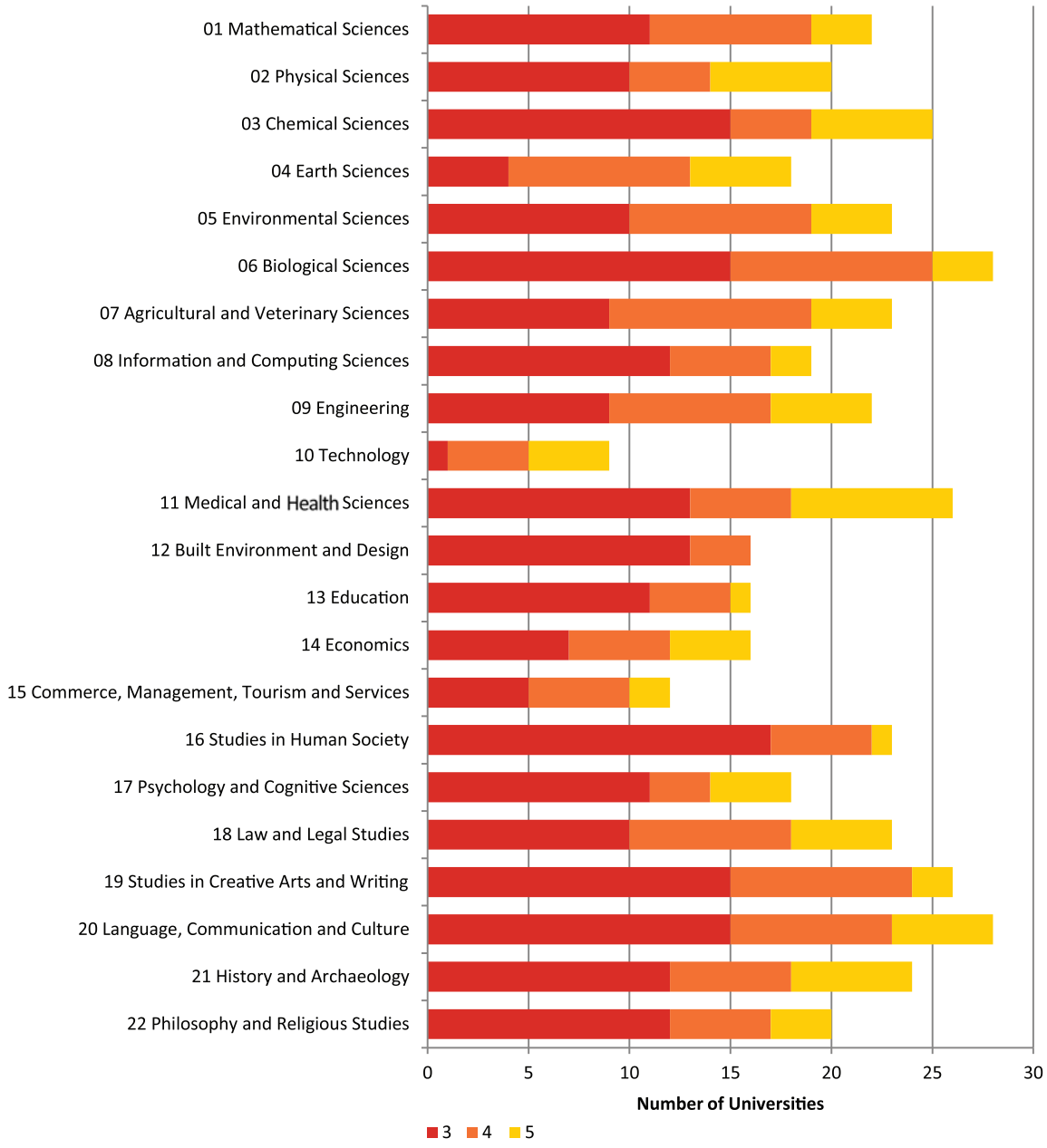
Pathways to Research Impact: Co-authorship 54

SECTION 1:
ERA NATIONAL OVERVIEW

Section 1 presents a national overview of ERA 2012, including world standard research performance, summary data submitted by institution, and some observations arising from the data submitted for the ERA 2012 evaluation.

Research Quality

Universities at or above world standard by rating—two-digit FoR code

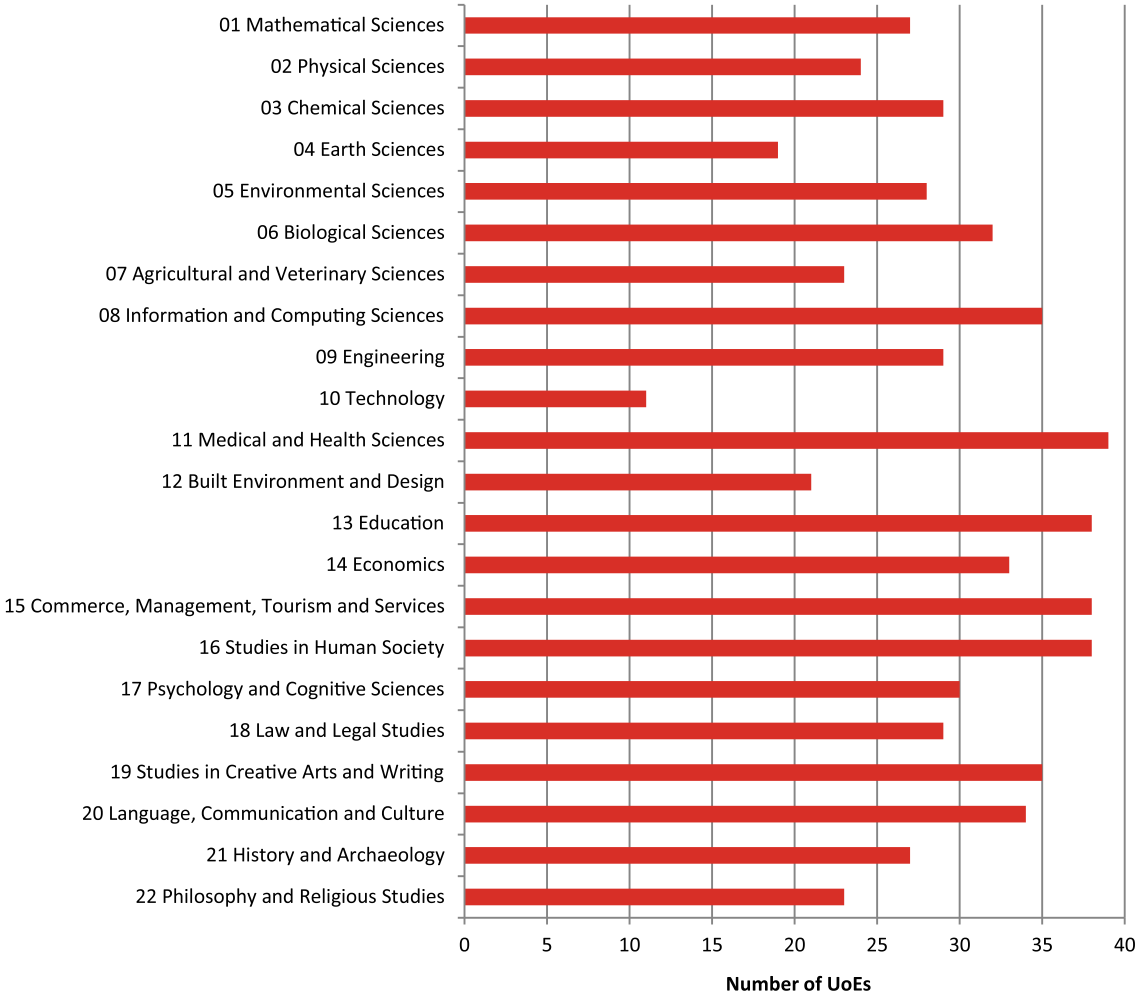


Note: the table shows only those universities assessed at the two-digit FoR code level, i.e. it does not show four-digit assessments.

Assessed Units of Evaluation

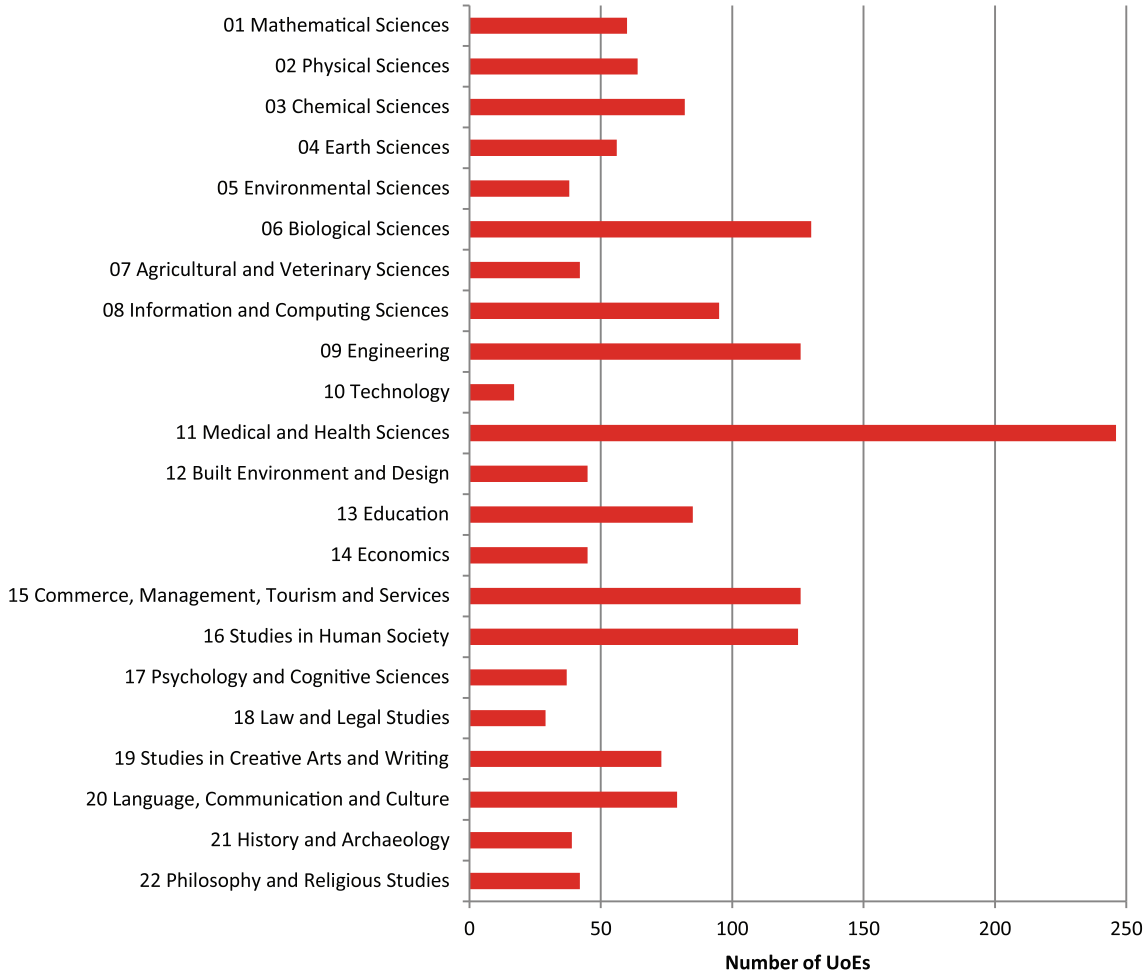
A Unit of Evaluation (UoE) is a discipline for a specific institution that has sufficient research volume to be considered research active for the purposes of ERA. A total of 2,323 units of evaluation (UoEs) were assessed in the ERA 2012 process.

UoEs assessed by two-digit FoR code



Note: the table shows only those units assessed at the two-digit FoR code level, i.e. it does not show four-digit UoEs.

UoEs assessed by aggregated four-digit FoR codes (grouped by two-digit FoR code)



Note: the two-digit groupings shown above are at an aggregation of those units assessed at the four-digit FoR code level.

Comparison of ERA 2010 and ERA 2012 Research Output, Applied and Esteem Measures

The table below provides an overview of the types and volume of research outputs, applied measures (excluding income) and esteem measures submitted to ERA 2010 and ERA 2012[1].

Traditional research outputs (books, book chapters, conference publications and journal articles) apply to all disciplines. The non-traditional outputs (curated or exhibited event, live performance, original creative work, recorded/rendered work) only apply to some disciplines[2]. There has been an increase in the number of traditional research outputs over the two time periods, particularly journal articles. This may have been influenced by a number of factors, such as additional journals included in the 2012 journal list resulting in more articles being eligible for ERA; improvements in institutions' data collection practices; and an increase in the number of full-time equivalent staff (FTE) employed in the higher education research system. While there appears to be a substantial decrease in the number of non-traditional research outputs submitted to ERA 2012, this is due to the fact that more of these have been included in Portfolios, the number of which has significantly increased in ERA 2012.

Research Outputs	2010	2012
Traditional outputs		
Book	4,912	5,270
Book Chapter	34,755	39,597
Conference Publication	73,741	72,977
Journal Article	206,816	286,637
Non-traditional outputs		
Curated or Exhibited Event	750	777
Live Performance	1,807	821
Original Creative Work	9,052	6,026
Recorded/Rendered Work	1,260	790
Portfolio of Non-Traditional Research Outputs	374	583
Output types within Portfolios		
Curated Exhibited Event	62	147
Live Performance	197	867
Original Creative Work	2259	3,115
Recorded Rendered Work	157	582
TOTAL*	333,467	413,477
Applied measures		
NHMRC Endorsed Guidelines	49	50
Patents	671	781
Registered Designs	1	0
Plant Breeder's Rights	31	39
Esteem measures		
Editor of a Prestigious Work of Reference	34	48
Membership of a Learned Academy or AIATSIS	1,038	1,287
Membership of a Statutory Committee	332	366
Recipient of an Australia Council Grant or Fellowship	75	56
Recipient of a Nationally Competitive Research Fellowship	2,566	2,729

* Note: Output types within Portfolios are not included in the total

1 **Section 3** provides a more detailed breakdown of research outputs submitted to ERA 2012.

2 See the *ERA 2012 Discipline Matrix* (available at http://www.arc.gov.au/era/era_2012/key_documents_2012.htm)

National ERA 2012 Volume at a Glance

The table below presents a summary, by discipline, of the number of UoEs assessed and the volume of research outputs submitted to ERA 2012. With the exception of assessed UoEs, the two-digit information presented is the aggregate of the corresponding four-digit data.

For each two- and four-digit FoR the following summary information is provided:

Assessed UoEs

The number of UoEs assessed in ERA 2012 which met the low volume threshold.

FTEs

The total number of Full-Time Equivalent staff (FTE) submitted to ERA 2012 (as of the staff census date of 31 March 2011).

Research Outputs

The total number of research outputs (all research output types) submitted to ERA 2012.

Weighted Research Outputs

The total number of research outputs (all research output types) submitted to ERA 2012. For the purposes of calculating the low volume threshold for peer review disciplines, one book was equivalent to five research outputs. For disciplines where citation analysis was used, no weighting was applied.

Higher Education Research Data Collection (HERDC) Research Income

The total amount of research income across Categories 1–4 research income (in Australian dollars) submitted to ERA 2012.

Esteem

The total number of esteem measures submitted to ERA 2012.

Research Commercialisation Income

The total amount of research commercialisation income (in Australian dollars) submitted to ERA 2012.

Patents Sealed

The total number of patents submitted to ERA 2012.

National ERA Volume at a Glance

FoR Code	FoR Name	Assessed UoEs*	FTEs	Research Outputs	Weighted** Research Outputs	Research Income ($)	Esteem	Research Commercialisation Income ($)	Patents Sealed
01	**Mathematical Sciences**	**27**	**882.6**	**10,233.9**	**10,359.9**	**$131,544,129**	**130.2**	**$27,119,434**	**5.2**
0101	Pure Mathematics	17	209.6	2,707.3	2,833.3	$28,238,075	59.1	$1,202	1.2
0102	Applied Mathematics	22	216.3	3,319.1	3,319.1	$48,764,664	31.1	$27,118,232	1.2
0103	Numerical and Computational Mathematics	5	90.3	1,206.9	1,206.9	$8,201,707	6.3	$0	0.8
0104	Statistics	10	216.1	2,000.1	2,000.1	$27,703,836	22.5	$0	2.0
0105	Mathematical Physics	6	52.0	705.7	705.7	$16,588,972	11.2	$0	0.0
0199	Other Mathematical Sciences	0	98.3	294.8	294.8	$2,046,875	0.0	$0	0.0
02	**Physical Sciences**	**24**	**1,052.8**	**16,272.8**	**16,272.8**	**$245,768,684**	**220.6**	**$1,146,239**	**58.6**
0201	Astronomical and Space Sciences	15	249.6	4,587.1	4,587.1	$48,549,315	43.3	$25,142	15.0
0202	Atomic, Molecular, Nuclear, Particle and Plasma Physics	7	143.3	2,551.3	2,551.3	$29,032,783	30.4	$173,906	1.0
0203	Classical Physics	3	37.1	600.6	600.6	$7,074,948	6.1	$44,879	0.5
0204	Condensed Matter Physics	14	182.5	2,751.7	2,751.7	$51,894,167	48.6	$477,342	20.5
0205	Optical Physics	12	206.2	3,355.6	3,355.6	$58,839,472	47.4	$387,909	20.6
0206	Quantum Physics	9	99.5	1,548.5	1,548.5	$32,211,732	34.8	$2,731	1.0
0299	Other Physical Sciences	4	134.6	878.0	878.0	$18,166,267	10.0	$34,330	0.0
03	**Chemical Sciences**	**29**	**1,288.3**	**16,124.1**	**16,124.1**	**$262,652,699**	**189.7**	**$2,664,630**	**76.7**
0301	Analytical Chemistry	15	160.8	2,155.7	2,155.7	$31,674,097	23.3	$33,278	4.5
0302	Inorganic Chemistry	10	113.4	2,121.6	2,121.6	$22,053,953	22.7	$0	6.3
0303	Macromolecular and Materials Chemistry	10	157.9	2,056.6	2,056.6	$42,460,000	36.4	$551,492	24.5
0304	Medicinal and Biomolecular Chemistry	9	195.3	1,785.4	1,785.4	$43,752,856	21.1	$1,846,019	21.5
0305	Organic Chemistry	10	182.6	1,981.0	1,981.0	$26,827,748	19.3	$151,888	9.9
0306	Physical Chemistry (Incl. Structural)	23	280.8	4,475.2	4,475.2	$76,457,114	44.6	$81,953	10.0
0307	Theoretical and Computational Chemistry	3	55.6	707.8	707.8	$11,641,774	14.6	$0	0.0
0399	Other Chemical Sciences	2	141.9	840.8	840.8	$7,785,157	7.7	$0	0.0

* All two-digit FoR codes shown in this table are aggregates of the four-digit FoR codes below, with the exception of the 'Assessed UoEs' column which are the actual values at the two-digit FoR code level.

** One book is equivalent to five research outputs in ERA 2012 for the calculation of Low Volume Threshold for relevant disciplines.

continued

National ERA Volume at a Glance

FoR Code	FoR Name	Assessed UoEs*	FTEs	Research Outputs	Weighted** Research Outputs	Research Income ($)	Esteem	Research Commercialisation Income ($)	Patents Sealed
04	**Earth Sciences**	**19**	**805.1**	**10,198.2**	**10,198.2**	**$248,412,581**	**126.3**	**$1,510,965**	**0.0**
0401	Atmospheric Sciences	5	77.1	919.0	919.0	$15,153,420	18.1	$23,283	0.0
0402	Geochemistry	10	115.3	1,341.5	1,341.5	$29,096,697	29.4	$281,662	0.0
0403	Geology	15	230.3	3,353.6	3,353.6	$85,588,290	47.9	$386,919	0.0
0404	Geophysics	7	86.2	1,084.5	1,084.5	$29,064,885	7.9	$99,253	0.0
0405	Oceanography	5	74.4	833.5	833.5	$33,381,522	9.6	$279	0.0
0406	Physical Geography and Environmental Geoscience	14	168.9	2,321.7	2,321.7	$54,549,859	12.4	$719,569	0.0
0499	Other Earth Sciences	0	52.9	344.4	344.4	$1,577,908	1.0	$0	0.0
05	**Environmental Sciences**	**28**	**746.6**	**7,549.0**	**7,549.0**	**$293,936,492**	**63.7**	**$778,079**	**3.6**
0501	Ecological Applications	6	134.4	1,209.0	1,209.0	$24,722,942	13.1	$742	0.0
0502	Environmental Science and Management	25	465.5	4,643.7	4,643.7	$230,094,698	40.9	$620,140	1.0
0503	Soil Sciences	7	89.1	1,160.7	1,160.7	$35,651,619	7.3	$157,197	2.6
0599	Other Environmental Sciences	0	57.6	535.6	535.6	$3,467,233	2.4	$0	0.0
06	**Biological Sciences**	**32**	**3,327.5**	**30,867.3**	**30,867.3**	**$968,397,230**	**478.9**	**$3,359,764**	**118.9**
0601	Biochemistry and Cell Biology	17	1,046.8	6,583.5	6,583.5	$344,948,502	173.3	$2,578,008	47.4
0602	Ecology	22	408.3	4,945.4	4,945.4	$128,163,254	51.7	$15,058	0.4
0603	Evolutionary Biology	13	143.8	1,938.1	1,938.1	$30,676,562	45.7	$0	0.0
0604	Genetics	14	350.2	3,237.9	3,237.9	$180,359,442	68.9	$60,734	12.3
0605	Microbiology	17	369.7	3,437.9	3,437.9	$75,481,895	29.4	$644,585	30.5
0606	Physiology	5	143.2	1,348.7	1,348.7	$24,268,255	21.4	$1,704	0.0
0607	Plant Biology	20	371.7	3,614.0	3,614.0	$123,526,105	46.9	$59,675	26.4
0608	Zoology	21	280.6	5,014.7	5,014.7	$51,777,523	39.1	$0	1.9
0699	Other Biological Sciences	1	213.2	747.1	747.1	$9,195,692	2.5	$0	0.0
07	**Agricultural and Veterinary Sciences**	**23**	**1,102.1**	**11,032.1**	**11,032.1**	**$461,716,131**	**37.1**	**$33,747,615**	**45.6**
0701	Agriculture, Land and Farm Management	2	85.2	921.3	921.3	$33,732,483	2.6	$0	0.0
0702	Animal Production	6	166.5	1,697.3	1,697.3	$65,201,424	3.2	$20,027,196	1.5

* All two-digit FoR codes shown in this table are aggregates of the four-digit FoR codes below, with the exception of the 'Assessed UoEs' column which are the actual values at the two-digit FoR code level.

** One book is equivalent to five research outputs in ERA 2012 for the calculation of Low Volume Threshold for relevant disciplines.

continued

National ERA Volume at a Glance

FoR Code	FoR Name	Assessed UoEs*	FTEs	Research Outputs	Weighted** Research Outputs	Research Income ($)	Esteem	Research Commercialisation Income ($)	Patents Sealed
0703	Crop and Pasture Production	11	233.4	2,433.7	2,433.7	$176,975,548	9.4	$8,328,493	9.2
0704	Fisheries Sciences	6	119.7	1,351.3	1,351.3	$53,378,240	5.3	$38,998	0.0
0705	Forestry Sciences	6	83.7	1,094.0	1,094.0	$39,888,281	7.1	$1,024,389	18.7
0706	Horticultural Production	3	92.3	814.8	814.8	$39,893,551	2.5	$751,033	4.8
0707	Veterinary Sciences	8	250.8	2,230.3	2,230.3	$41,088,621	7.0	$3,577,506	11.4
0799	Other Agricultural and Veterinary Sciences	0	70.5	489.4	489.4	$11,557,983	0.0	$0	0.0
08	**Information and Computing Sciences**	**35**	**1,734.0**	**24,164.7**	**24,563.1**	**$221,997,038**	**72.2**	**$26,449,744**	**18.9**
0801	Artificial Intelligence and Image Processing	31	496.8	8,181.5	8,301.9	$82,525,710	30.6	$14,444,880	14.7
0802	Computation Theory and Mathematics	7	74.5	1,483.7	1,502.5	$7,009,356	8.8	$0	1.0
0803	Computer Software	10	185.6	2,405.7	2,457.3	$21,589,270	6.5	$340,088	0.0
0804	Data Format	2	55.7	856.4	873.6	$7,573,094	1.4	$11,477,188	1.9
0805	Distributed Computing	12	136.3	2,175.1	2,197.9	$14,839,049	5.3	$0	0.0
0806	Information Systems	25	477.4	6,719.3	6,844.9	$56,082,942	17.0	$187,588	1.3
0807	Library and Information Studies	6	141.7	1,312.8	1,338.0	$12,737,680	2.0	$0	0.0
0899	Other Information and Computing Sciences	2	166.0	1,030.2	1,047.0	$19,639,937	0.6	$0	0.0
09	**Engineering**	**29**	**3,131.0**	**48,366.8**	**48,366.8**	**$965,457,937**	**343.5**	**$44,596,284**	**206.6**
0901	Aerospace Engineering	3	49.9	764.7	764.7	$8,609,211	1.2	$0	0.0
0902	Automotive Engineering	0	31.9	572.2	572.2	$2,666,712	0.4	$0	4.0
0903	Biomedical Engineering	8	176.6	2,444.1	2,444.1	$52,926,716	21.4	$8,781,021	20.2
0904	Chemical Engineering	10	288.7	4,764.6	4,764.6	$90,418,552	51.5	$2,625,581	44.5
0905	Civil Engineering	19	372.5	7,207.5	7,207.5	$142,846,185	38.9	$744,585	11.0
0906	Electrical and Electronic Engineering	21	483.7	9,890.8	9,890.8	$150,037,555	61.5	$16,185,767	32.0
0907	Environmental Engineering	5	128.7	1,491.2	1,491.2	$44,101,286	6.4	$256,129	13.0
0908	Food Sciences	6	86.0	1,234.9	1,234.9	$15,837,669	0.2	$214,737	4.8
0909	Geomatic Engineering	2	96.3	1,278.6	1,278.6	$14,332,516	10.2	$5,042	1.0
0910	Manufacturing Engineering	2	76.1	996.0	996.0	$31,809,008	8.8	$2,664	3.0

* All two-digit FoR codes shown in this table are aggregates of the four-digit FoR codes below, with the exception of the 'Assessed UoEs' column which are the actual values at the two-digit FoR code level.

** One book is equivalent to five research outputs in ERA 2012 for the calculation of Low Volume Threshold for relevant disciplines.

continued

National ERA Volume at a Glance

FoR Code	FoR Name	Assessed UoEs*	FTEs	Research Outputs	Weighted** Research Outputs	Research Income ($)	Esteem	Research Commercialisation Income ($)	Patents Sealed
0911	Maritime Engineering	2	36.8	503.8	503.8	$6,934,758	3.0	$214,785	0.0
0912	Materials Engineering	18	345.3	6,318.6	6,318.6	$123,920,309	76.5	$1,177,252	22.0
0913	Mechanical Engineering	18	345.2	5,797.1	5,797.1	$108,295,853	34.7	$4,159,781	16.3
0914	Resources Engineering and Extractive Metallurgy	8	230.8	2,321.2	2,321.2	$135,724,865	22.5	$10,191,277	31.8
0915	Interdisciplinary Engineering	4	112.0	1,332.2	1,332.2	$23,082,951	5.5	$0	3.0
0999	Other Engineering	0	270.5	1,449.3	1,449.3	$13,913,791	0.8	$37,663	0.0
10	**Technology**	**11**	**626.9**	**6,055.3**	**6,078.9**	**$116,716,243**	**52.2**	**$3,318,807**	**38.2**
1001	Agricultural Biotechnology	1	53.8	277.0	277.0	$8,307,527	3.2	$73,668	2.0
1002	Environmental Biotechnology	1	30.9	269.9	269.9	$10,148,224	1.3	$1,399,582	0.0
1003	Industrial Biotechnology	1	23.2	166.1	166.1	$9,624,961	2.5	$185,523	3.4
1004	Medical Biotechnology	2	104.8	494.1	494.1	$20,176,287	3.4	$0	17.2
1005	Communications Technologies	6	149.5	2,233.1	2,248.7	$32,142,478	22.3	$1,620,181	14.2
1006	Computer Hardware	1	22.0	230.4	238.4	$4,768,817	0.9	$0	0.3
1007	Nanotechnology	5	80.7	866.7	866.7	$30,797,469	17.5	$0	1.1
1099	Other Technology	0	162.0	1,518.0	1,518.0	$750,480	1.1	$39,853	0.0
11	**Medical and Health Sciences**	**39**	**9,236.9**	**91,859.9**	**91,859.9**	**$3,427,611,545**	**1,330.5**	**$124,094,578**	**208.8**
1101	Medical Biochemistry and Metabolomics	4	152.0	1,087.9	1,087.9	$24,848,417	19.2	$15,553	4.5
1102	Cardiovascular Medicine and Haematology	13	226.1	3,391.2	3,391.2	$190,910,611	52.2	$125,784	6.3
1103	Clinical Sciences	28	1,731.4	23,878.3	23,878.3	$705,512,205	166.7	$34,399,682	51.0
1104	Complementary and Alternative Medicine	1	110.7	814.5	814.5	$5,883,895	2.3	-	0.0
1105	Dentistry	6	182.3	1,618.5	1,618.5	$44,865,983	5.7	$5,147,863	21.6
1106	Human Movement and Sports Science	26	424.8	5,512.6	5,512.6	$46,440,269	25.0	-	0.0
1107	Immunology	13	371.8	3,275.1	3,275.1	$228,249,628	84.9	$49,051,995	15.9
1108	Medical Microbiology	11	189.9	1,850.5	1,850.5	$78,120,801	33.3	$21,120	10.1
1109	Neurosciences	19	581.9	6,117.1	6,117.1	$347,609,483	148.8	$1,824,991	25.6
1110	Nursing	23	837.0	5,427.9	5,427.9	$83,755,864	21.5	-	0.0

* All two-digit FoR codes shown in this table are aggregates of the four-digit FoR codes below, with the exception of the 'Assessed UoEs' column which are the actual values at the two-digit FoR code level.

** One book is equivalent to five research outputs in ERA 2012 for the calculation of Low Volume Threshold for relevant disciplines.

continued

National ERA Volume at a Glance

FoR Code	FoR Name	Assessed UoEs*	FTEs	Research Outputs	Weighted** Research Outputs	Research Income ($)	Esteem	Research Commercialisation Income ($)	Patents Sealed
1111	Nutrition and Dietetics	8	156.2	1,392.5	1,392.5	$30,757,613	14.4	-	1.2
1112	Oncology and Carcinogenesis	11	295.1	3,828.2	3,828.2	$298,279,940	51.9	$14,576,788	19.3
1113	Ophthalmology and Optometry	6	137.2	2,293.7	2,293.7	$48,940,193	11.6	$955,225	11.8
1114	Paediatrics and Reproductive Medicine	11	317.2	5,054.9	5,054.9	$155,380,188	47.0	$2,496,971	13.0
1115	Pharmacology and Pharmaceutical Sciences	17	444.8	5,210.3	5,210.3	$139,406,197	38.3	$15,280,047	23.5
1116	Medical Physiology	12	170.1	1,999.2	1,999.2	$54,681,390	42.7	$198,559	5.0
1117	Public Health and Health Services	33	1,877.4	17,203.8	17,203.8	$874,435,180	533.3	-	0.0
1199	Other Medical and Health Sciences	4	1,031.0	1,903.7	1,903.7	$69,533,688	31.7	-	0.0
12	**Built Environment and Design**	**21**	**958.4**	**7,930.2**	**8,600.2**	**$75,603,783**	**19.1**	**$98,333**	**0.0**
1201	Architecture	16	296.5	2,613.2	2,888.8	$20,168,123	12.9	$72	0.0
1202	Building	10	129.9	1,651.5	1,720.3	$12,925,916	0.6	$71,997	0.0
1203	Design Practice and Management	6	207.3	1,412.4	1,515.6	$10,331,821	0.5	$26,264	0.0
1204	Engineering Design	0	8.9	79.8	81.0	$219,762	0.0	$0	0.0
1205	Urban and Regional Planning	13	180.6	1,907.9	2,111.1	$30,107,719	4.7	$0	0.0
1299	Other Built Environment and Design	0	135.2	265.4	283.4	$1,850,442	0.4	$0	0.0
13	**Education**	**38**	**2,973.9**	**18,703.6**	**20,204.0**	**$182,068,131**	**56.9**	**$1,453,868**	**-**
1301	Education Systems	20	467.9	3,060.0	3,362.0	$31,321,055	10.8	$219,608	-
1302	Curriculum and Pedagogy	29	918.5	6,165.0	6,615.0	$41,512,182	18.5	$131,718	-
1303	Specialist Studies in Education	34	1,015.2	8,323.5	9,023.5	$102,975,178	25.4	$1,102,542	-
1399	Other Education	2	572.3	1,155.1	1,203.5	$6,259,716	2.2	$0	-
14	**Economics**	**33**	**1,063.6**	**7,629.3**	**8,261.3**	**$170,490,185**	**98.1**	**$198,175**	**-**
1401	Economic Theory	7	107.6	739.0	834.6	$4,632,636	9.3	$0	-
1402	Applied Economics	30	647.7	5,357.7	5,806.1	$148,759,162	67.6	$196,008	-
1403	Econometrics	8	103.3	808.3	851.9	$15,104,881	17.6	$2,167	-
1499	Other Economics	0	205.0	724.3	768.7	$1,993,506	3.6	$0	-

* All two-digit FoR codes shown in this table are aggregates of the four-digit FoR codes below, with the exception of the 'Assessed UoEs' column which are the actual values at the two-digit FoR code level.

** One book is equivalent to five research outputs in ERA 2012 for the calculation of Low Volume Threshold for relevant disciplines.

continued

National ERA Volume at a Glance

FoR Code	FoR Name	Assessed UoEs*	FTEs	Research Outputs	Weighted** Research Outputs	Research Income ($)	Esteem	Research Commercialisation Income ($)	Patents Sealed
15	**Commerce, Management, Tourism and Services**	**38**	**3,239.7**	**24,640.6**	**25,988.6**	**$139,010,593**	**40.9**	**$1,344,615**	**-**
1501	Accounting, Auditing and Accountability	22	590.6	2,880.1	3,007.3	$12,349,326	6.8	$0	-
1502	Banking, Finance and Investment	17	398.6	2,221.0	2,312.2	$17,174,152	4.2	$0	-
1503	Business and Management	36	1,061.0	9,789.3	10,461.7	$63,194,712	25.6	$1,344,615	-
1504	Commercial Services	4	118.6	841.4	883.0	$2,125,447	0.0	$0	-
1505	Marketing	24	411.0	4,195.2	4,265.6	$22,285,651	1.4	$0	-
1506	Tourism	16	194.0	2,287.7	2,435.7	$18,441,611	1.5	$0	-
1507	Transportation and Freight Services	2	41.2	501.3	536.1	$1,953,993	1.4	$0	-
1599	Other Commerce, Management, Tourism and Services	5	424.7	1,924.6	2,087.0	$1,485,701	0.0	$0	-
16	**Studies in Human Society**	**38**	**2,343.8**	**20,495.3**	**24,084.5**	**$307,417,007**	**286.0**	**$65,468**	**-**
1601	Anthropology	11	167.3	1,514.9	1,828.5	$18,700,520	61.2	$0	-
1602	Criminology	12	161.4	1,400.9	1,681.3	$21,224,672	13.2	$47,104	-
1603	Demography	2	51.8	519.5	570.7	$14,868,185	9.0	$0	-
1604	Human Geography	14	163.3	1,691.3	1,837.7	$18,017,962	25.0	$0	-
1605	Policy and Administration	16	303.7	2,931.5	3,354.7	$71,727,342	28.4	$0	-
1606	Political Science	21	491.8	5,061.9	6,275.9	$49,893,037	69.9	$0	-
1607	Social Work	16	260.1	1,706.9	1,925.7	$27,400,147	7.2	$13,292	-
1608	Sociology	29	456.5	4,591.0	5,359.0	$70,964,733	49.2	$658	-
1699	Other Studies in Human Society	4	287.9	1,077.4	1,251.0	$14,620,409	22.9	$4,414	-
17	**Psychology and Cognitive Sciences**	**30**	**1,428.6**	**14,951.3**	**14,951.3**	**$206,928,540**	**183.4**	**$2,241,599**	**-**
1701	Psychology	30	1,094.8	11,755.8	11,755.8	$182,945,198	146.9	$2,241,599	-
1702	Cognitive Science	7	178.7	2,336.7	2,336.7	$22,304,027	34.4	$0	-
1799	Other Psychology and Cognitive Sciences	0	155.1	858.8	858.8	$1,679,315	2.1	$0	-

* All two-digit FoR codes shown in this table are aggregates of the four-digit FoR codes below, with the exception of the 'Assessed UoEs' column which are the actual values at the two-digit FoR code level.

** One book is equivalent to five research outputs in ERA 2012 for the calculation of Low Volume Threshold for relevant disciplines.

continued

National ERA Volume at a Glance

FoR Code	FoR Name	Assessed UoEs*	FTEs	Research Outputs	Weighted** Research Outputs	Research Income ($)	Esteem	Research Commercialisation Income ($)	Patents Sealed
18	**Law and Legal Studies**	**29**	**1,324.3**	**9,177.5**	**10,816.3**	**$61,740,745**	**56.3**	**-**	**-**
1801	Law	29	1,190.9	8,934.6	10,562.6	$60,646,362	55.7	-	-
1802	Maori Law	0	0.6	1.0	1.0	$0	0.0	-	-
1899	Other Law and Legal Studies	0	132.8	241.9	252.7	$1,094,383	0.6	-	-
19	**Studies in Creative Arts and Writing**	**35**	**1,566.1**	**12,377.0**	**13,532.2**	**$32,424,756**	**120.3**	**$127,013**	**0.0**
1901	Art Theory and Criticism	9	93.4	1,057.7	1,281.3	$4,081,710	15.4	$0	0.0
1902	Film, Television and Digital Media	14	262.5	2,003.4	2,231.4	$7,675,520	13.1	$127,013	0.0
1903	Journalism and Professional Writing	8	114.0	699.8	837.8	$1,955,116	0.5	$0	0.0
1904	Performing Arts and Creative Writing	24	631.7	4,799.6	5,214.4	$11,855,468	47.5	$0	0.0
1905	Visual Arts and Crafts	18	342.5	3,673.4	3,814.6	$6,499,306	43.1	$0	0.0
1999	Other Studies in Creative Arts and Writing	0	122.0	143.1	152.7	$357,636	0.7	$0	0.0
20	**Language, Communication and Culture**	**34**	**1,602.3**	**12,179.6**	**14,858.0**	**$102,880,603**	**193.3**	**$34,288**	**-**
2001	Communication and Media Studies	16	272.2	2,126.4	2,452.4	$21,022,362	16.5	$1,512	-
2002	Cultural Studies	24	340.2	3,210.5	3,902.9	$34,095,750	42.6	$0	-
2003	Language Studies	4	170.0	666.9	857.7	$4,851,092	12.9	$32,776	-
2004	Linguistics	16	264.9	2,654.1	3,192.9	$22,108,453	48.9	$0	-
2005	Literary Studies	19	364.8	3,262.3	4,143.5	$15,643,550	70.6	$0	-
2099	Other Language, Communication and Culture	0	190.2	259.4	308.6	$5,159,396	1.8	$0	-
21	**History and Archaeology**	**27**	**730.1**	**6,941.7**	**9,260.1**	**$105,713,930**	**277.8**	**$7,990**	**0.0**
2101	Archaeology	12	134.7	1,655.1	1,947.1	$34,461,832	72.3	$0	-
2102	Curatorial and Related Studies	1	30.4	236.9	257.3	$3,537,077	3.4	$0	0.0
2103	Historical Studies	26	522.2	4,828.8	6,773.6	$67,485,105	201.1	$7,990	-
2199	Other History and Archaeology	0	42.8	220.9	282.1	$229,916	1.0	$0	-
22	**Philosophy and Religious Studies**	**23**	**609.4**	**5,726.9**	**7,313.7**	**$39,236,088**	**108.5**	**$0**	**-**
2201	Applied Ethics	5	96.5	853.8	986.2	$5,443,177	7.0	$0	-
2202	History and Philosophy of Specific Fields	6	83.2	947.2	1,221.6	$6,123,751	25.5	$0	-
2203	Philosophy	18	194.2	2,026.2	2,511.8	$15,811,457	56.7	$0	-
2204	Religion and Religious Studies	13	187.6	1,756.9	2,430.9	$11,857,703	18.9	$0	-
2299	Other Philosophy and Religious Studies	0	47.9	142.8	163.2	$0	0.4	$0	-

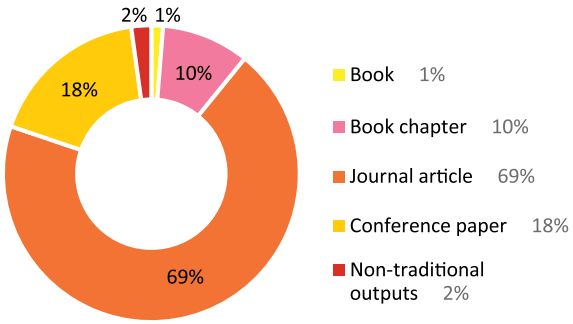
* All two-digit FoR codes shown in this table are aggregates of the four-digit FoR codes below, with the exception of the 'Assessed UoEs' column which are the actual values at the two-digit FoR code level.

** One book is equivalent to five research outputs in ERA 2012 for the calculation of Low Volume Threshold for relevant disciplines.

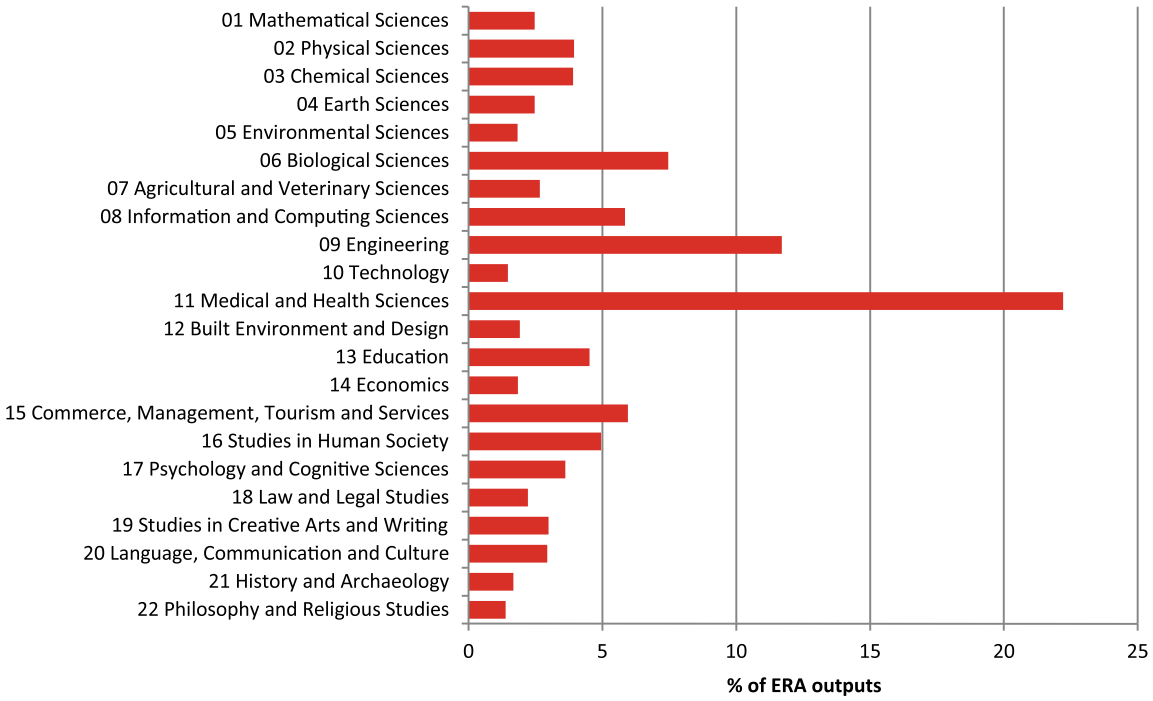
Research Outputs

All 41 eligible higher education institutions submitted research outputs for evaluation to ERA 2012. Over 413,000 outputs across 157 four-digit fields of research (FoR) codes were submitted. The majority of the outputs were journal articles (69%) followed by conference papers (18%). Non-traditional research outputs (NTRO) constituted approximately two per cent (2%) of the outputs submitted to ERA 2012.

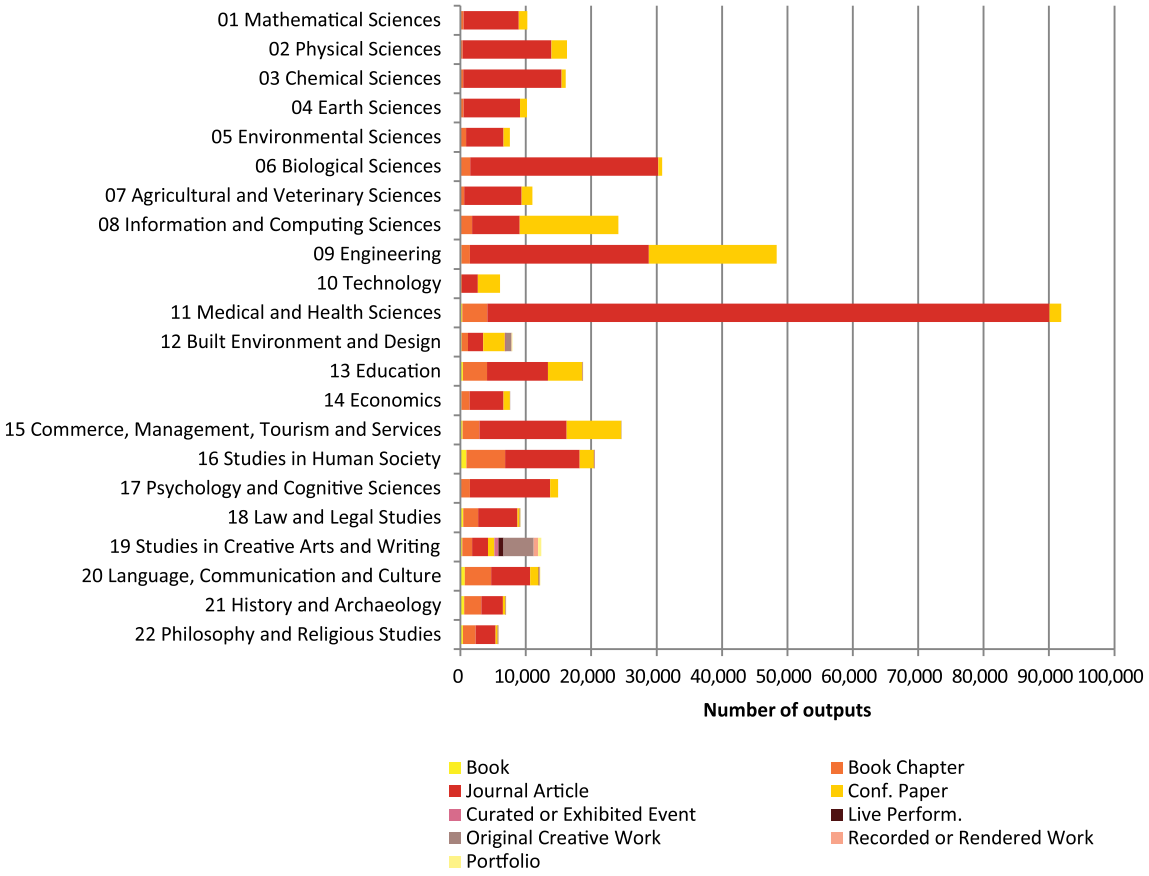
Research outputs by type



Research outputs by two-digit FoR code



Research outputs by two-digit FoR code by type

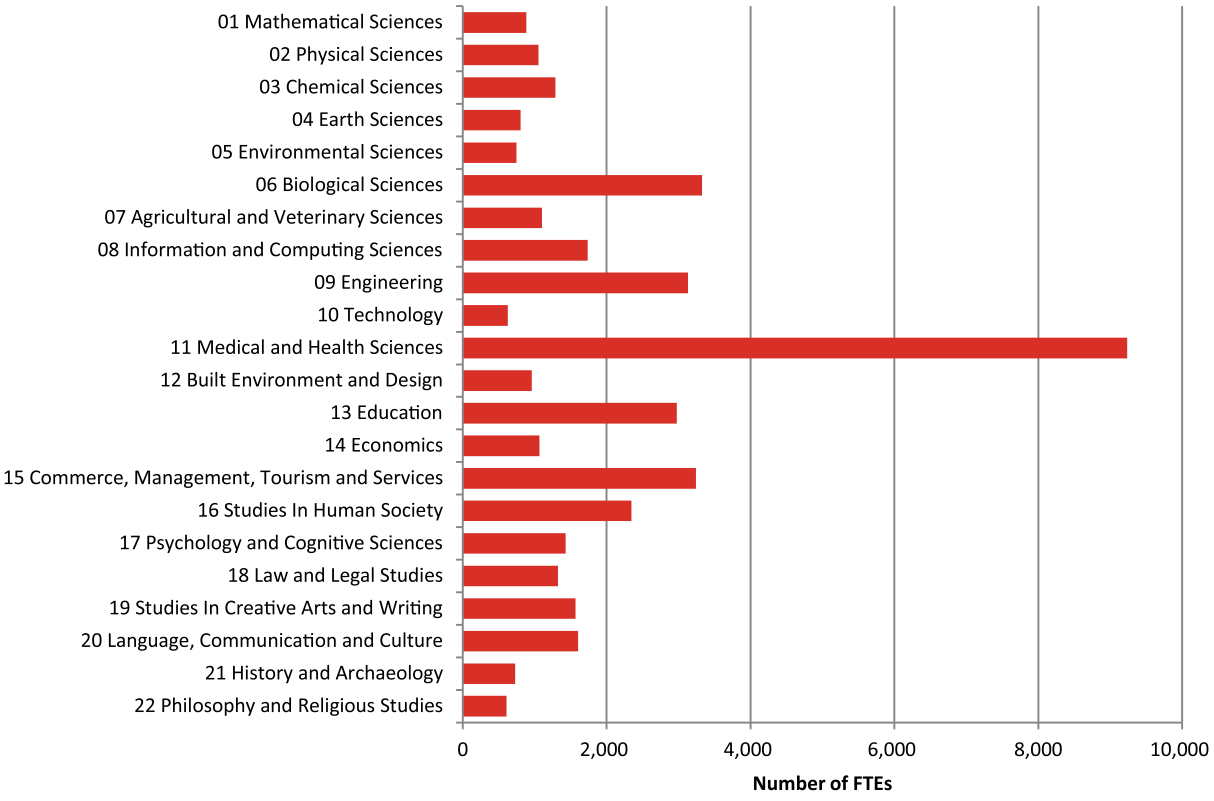


FTE Staffing Profile

Approximately 42,000 eligible FTE staff (over 45,000 actual individuals) were submitted to ERA 2012. See **Section 3** for a detailed breakdown.

HESDC	FTE	% FTE	FTE Headcount	% FTE Headcount
Level E	5,412.8	13.0	5,831.1	12.8
Level D	4,829.6	11.6	5,108.5	11.2
Level C	9,264.1	22.2	9,927.1	21.8
Level B	12,618.5	30.2	13,763.0	30.3
Level A	6,011.2	14.4	6,743.6	14.8
Other	3,637.8	8.7	4,061.9	8.9
Total	**41,774.0**	**100**	**45,435.2**	**100**

Staffing Profile by two-digit FoR code

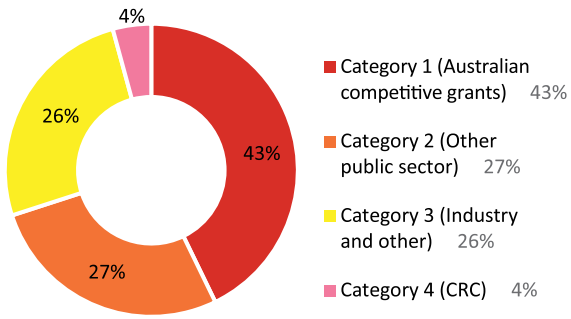


HERDC Research Income Summary (All Categories)

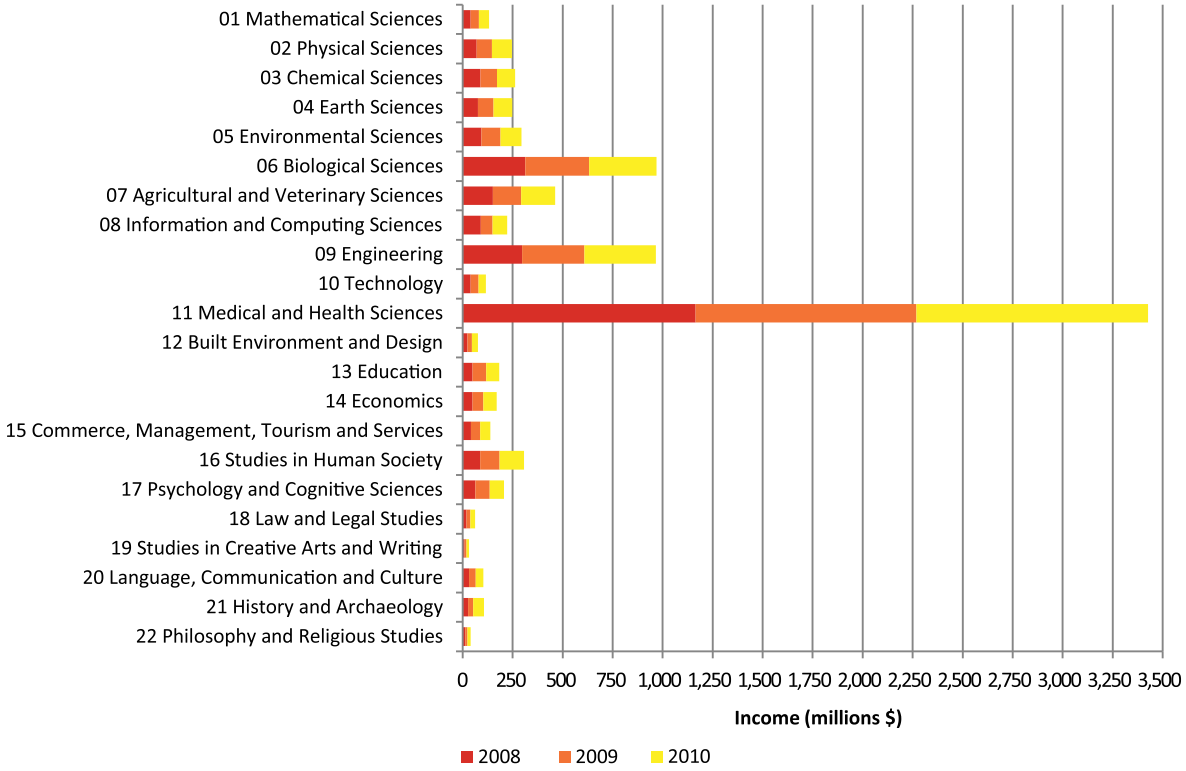
Around 43 per cent of all research income submitted to ERA 2012 was HERDC Category 1—Australian Competitive Grants.

A total of $8.77 billion research funding was submitted to ERA 2012. See **Section 3** for a detailed breakdown.

HERDC research income by category



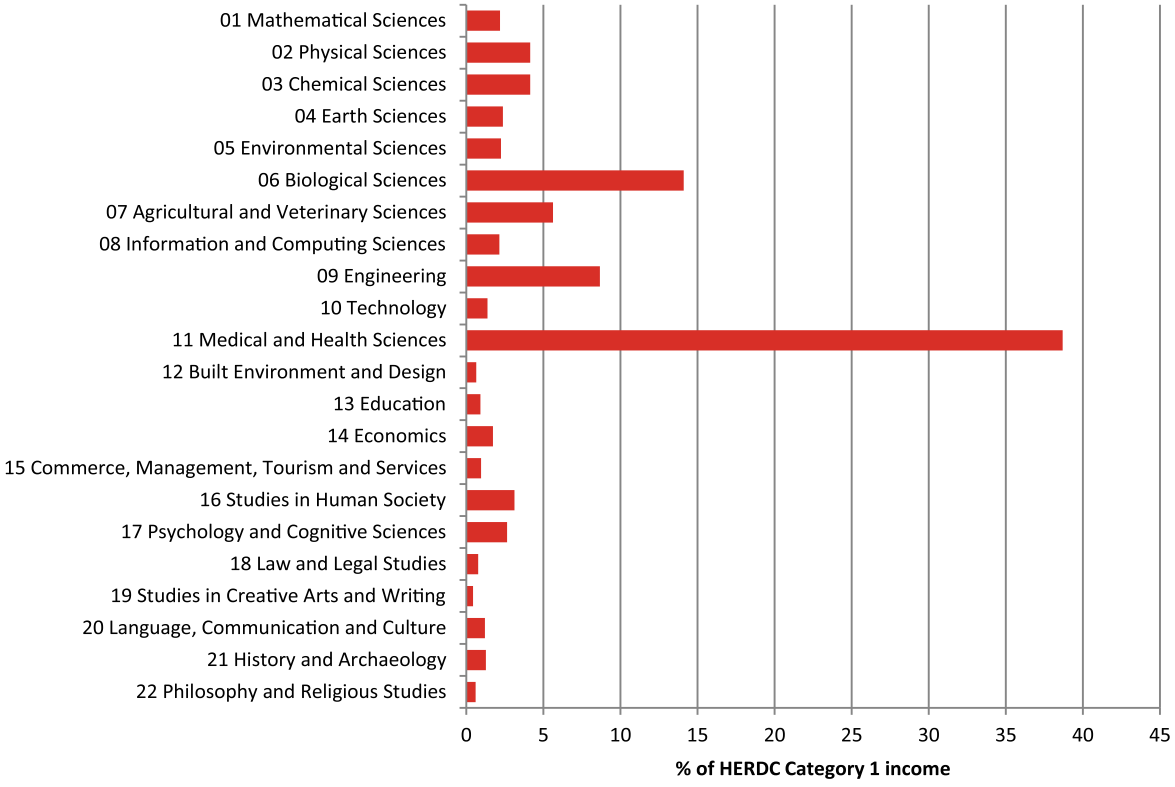
HERDC research income by year (all categories) by two-digit FoR code



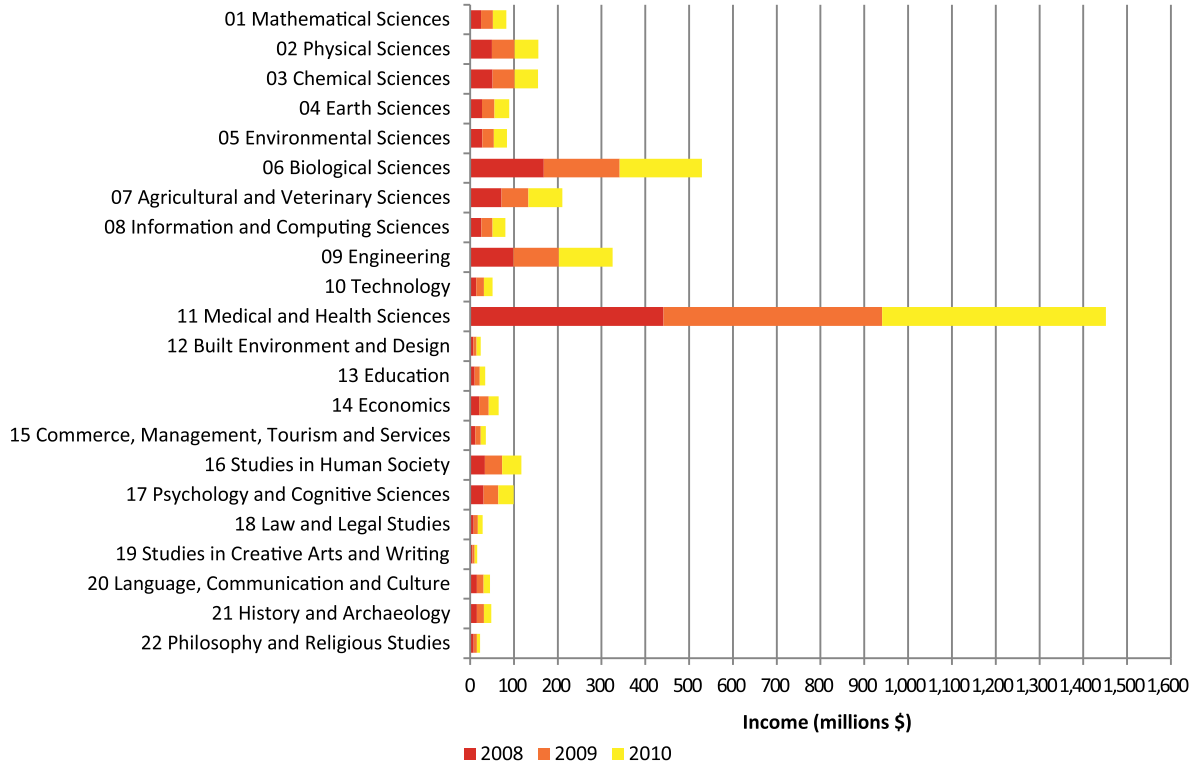
HERDC Category 1–Australian Competitive Grants Research Income

A total of $3.75 billion of Australian Competitive Grant Income was submitted to ERA 2012.
See **Section 3** for a detailed breakdown.

HERDC Category 1 research income by two-digit FoR code



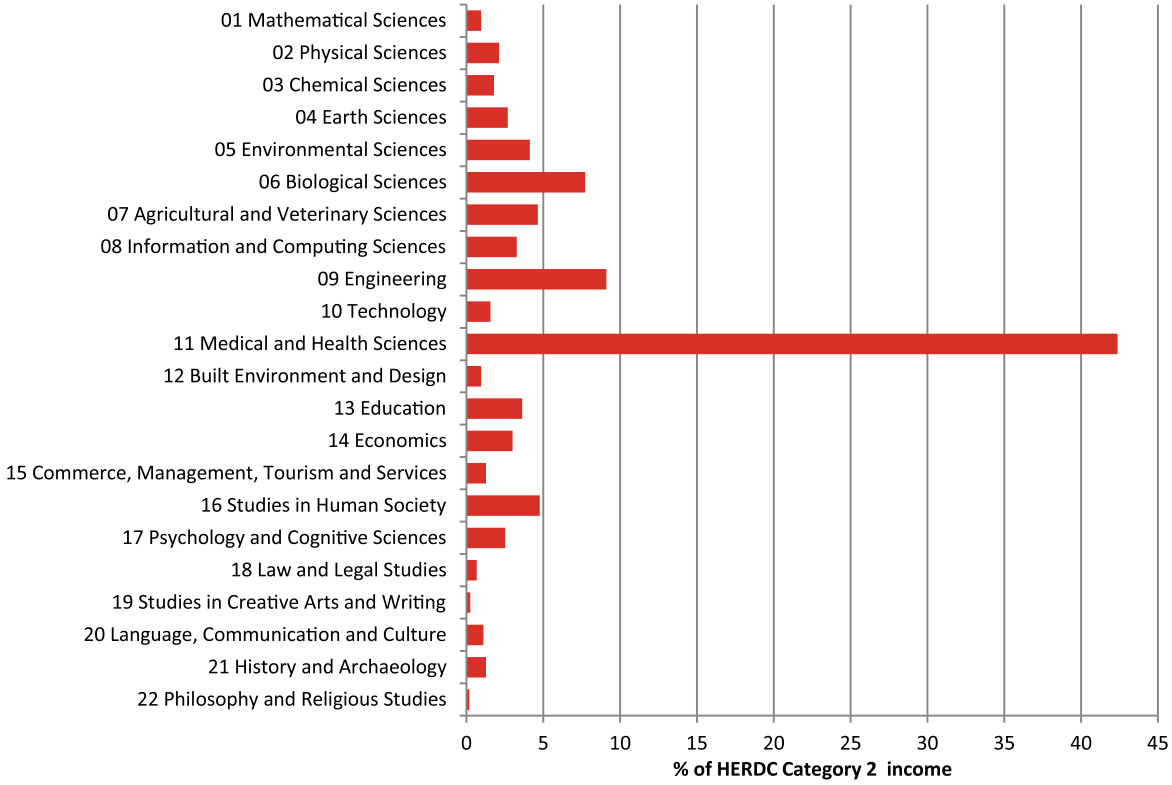
HERDC Category 1 research income by year by two-digit FoR code



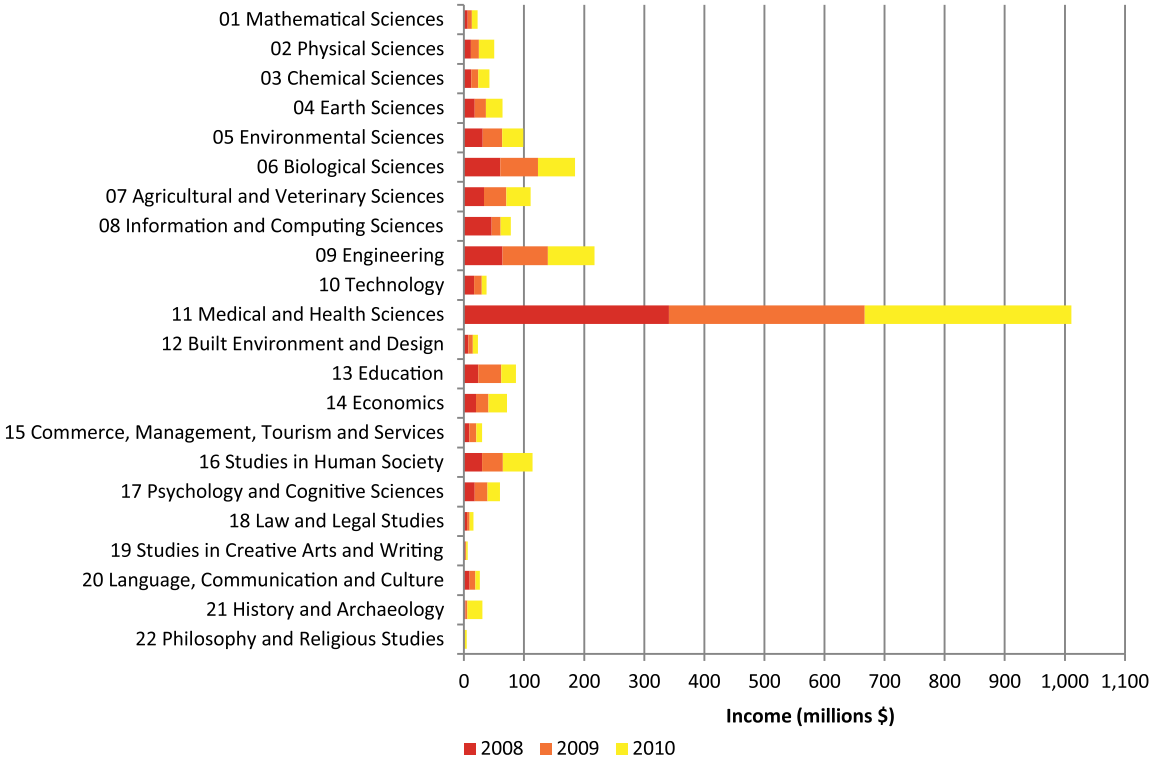
HERDC Category 2–Other Public Sector Research Income

A total of $2.38 billion of Other Public Sector Income was submitted to ERA 2012. See **Section 3** for a detailed breakdown.

HERDC Category 2 research income by two-digit FoR code



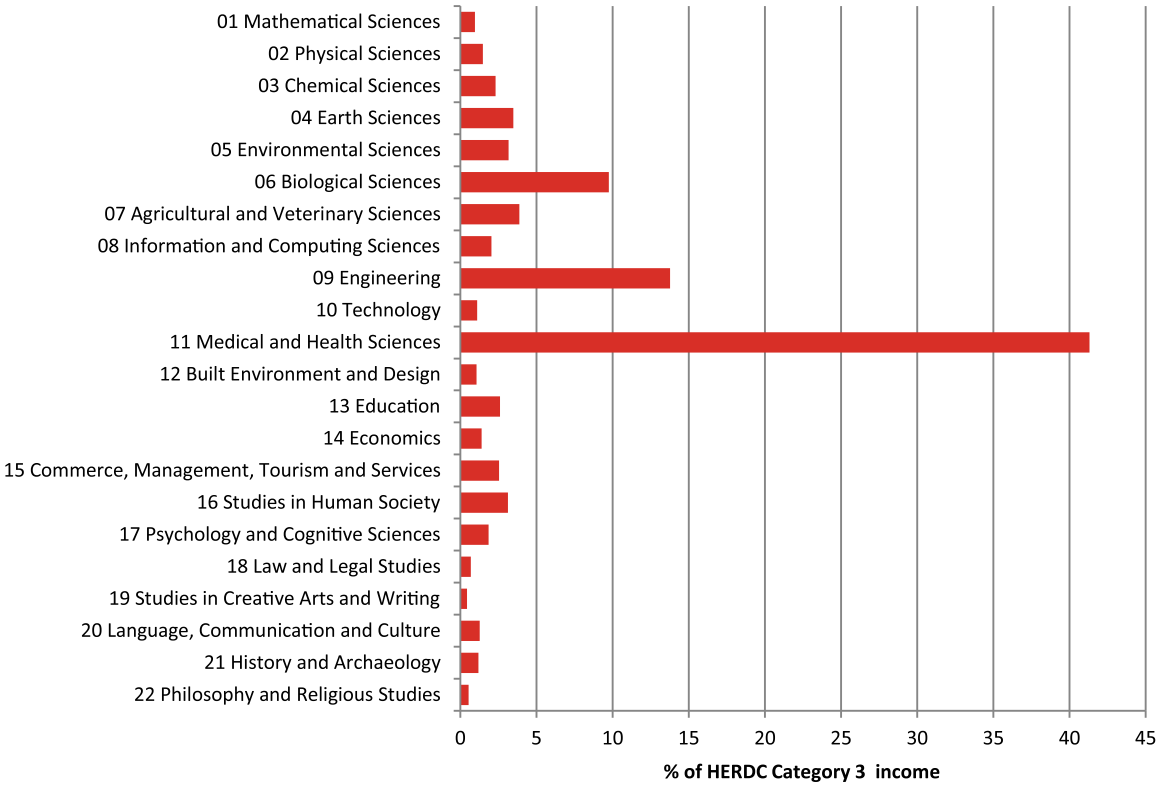
HERDC Category 2 research income by year by two-digit FoR code



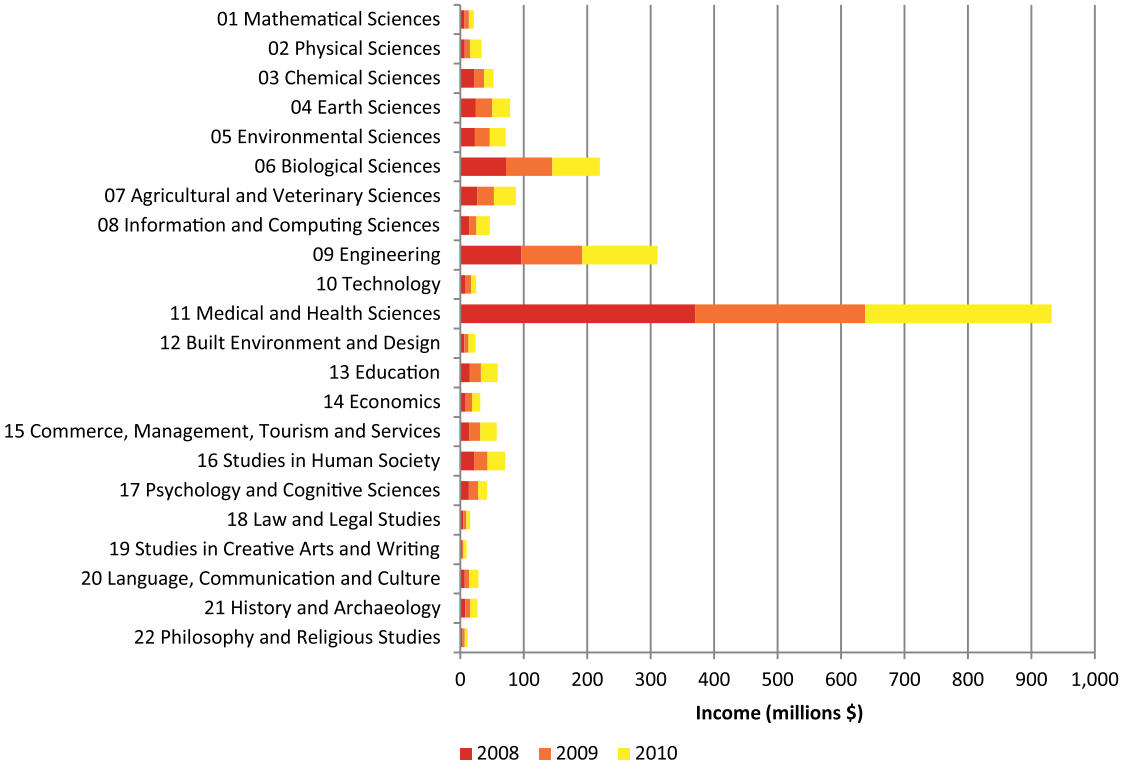
HERDC Category 3–Industry and Other Research Income

A total of $2.26 billion of Industry and Other Research Income was submitted to ERA 2012. See **Section 3** for a detailed breakdown.

HERDC Category 3 research income by two-digit FoR code



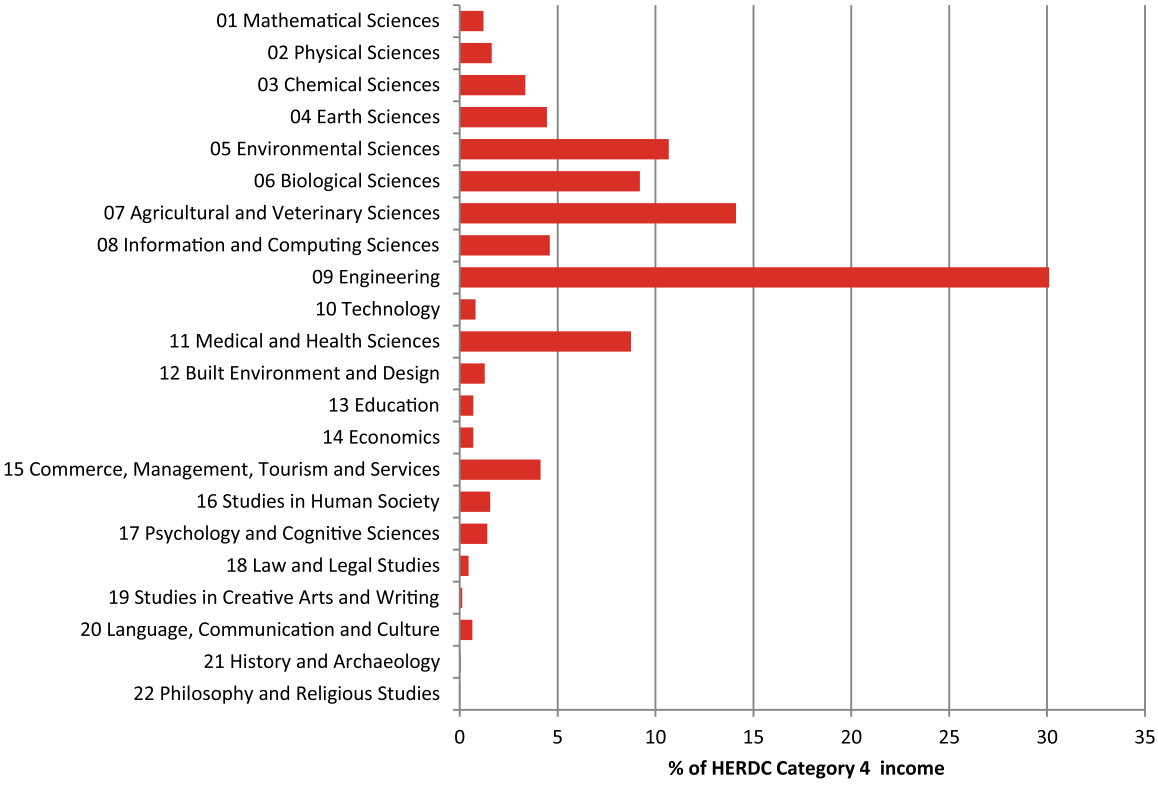
HERDC Category 3 research income by year by two-digit FoR code



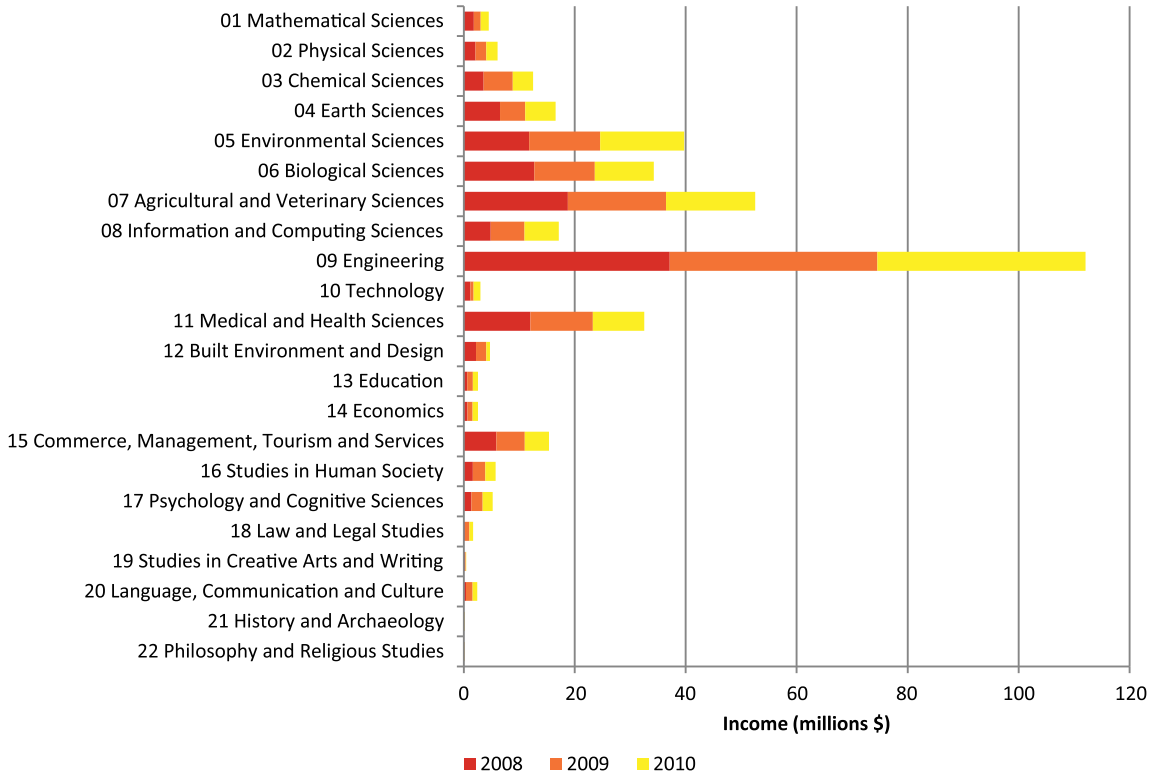
HERDC Category 4–CRC Research Income

A total of $372 million of Cooperative Research Centre (CRC) income was submitted to ERA 2012. See **Section 3** for a detailed breakdown.

HERDC Category 4 research income by two-digit FoR code



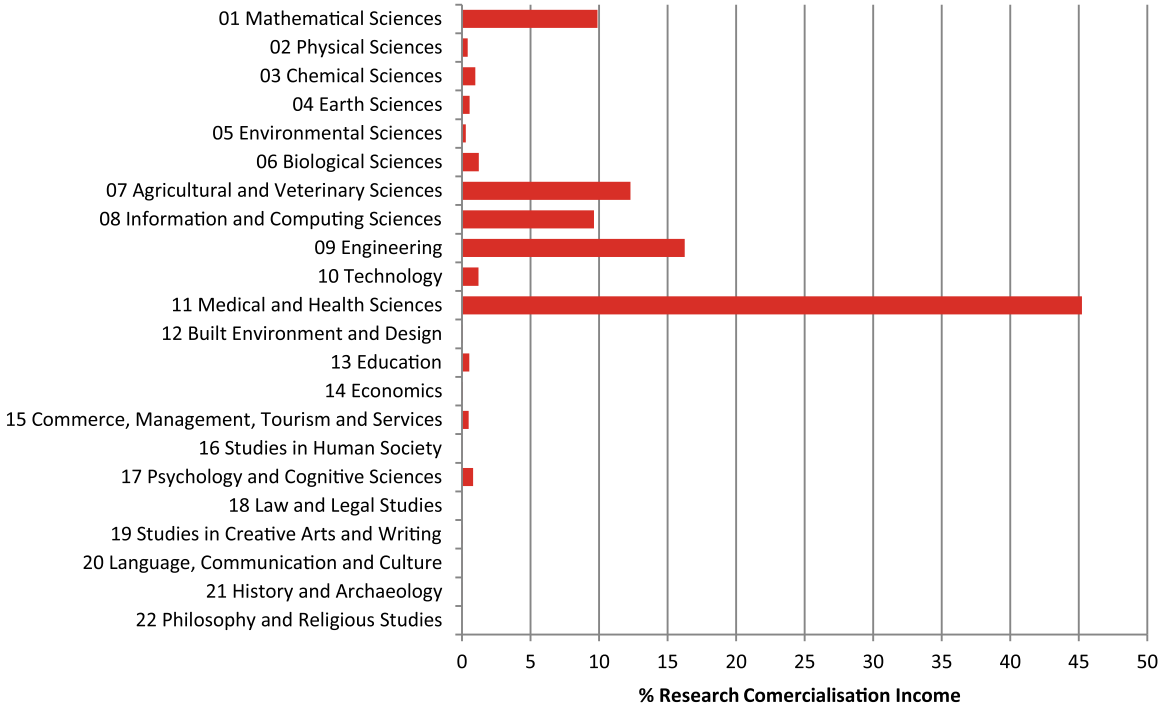
HERDC Category 4 research income by year by two-digit FoR code



Research Commercialisation Income

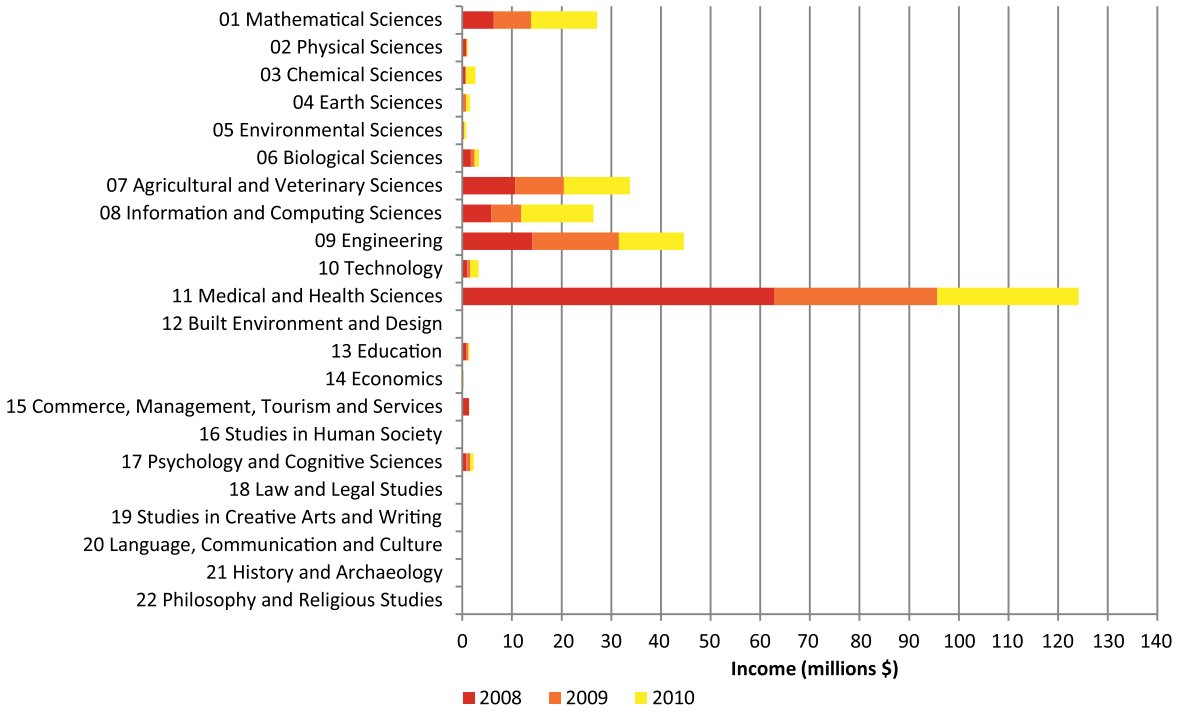
A total of $274 million of Research Commercialisation Income was submitted to ERA 2012. See **Section 3** for a detailed breakdown.

Research commercialisation income by two-digit FoR code



Note: two- and four-digit FoR codes for 'Law and Legal Studies' do not use Research Commercialisation Income as an applied measure nor do some underlying four-digit codes in Medical and Health Sciences (11). See **Section 3** for more detail.

Research commercialisation income by year by two-digit FoR code



Note: two- and four-digit FoR codes for 'Law and Legal Studies' do not use Research Commercialisation Income as an applied measure nor do some underlying four-digit codes in Medical and Health Sciences (11). See **Section 3** for more detail.

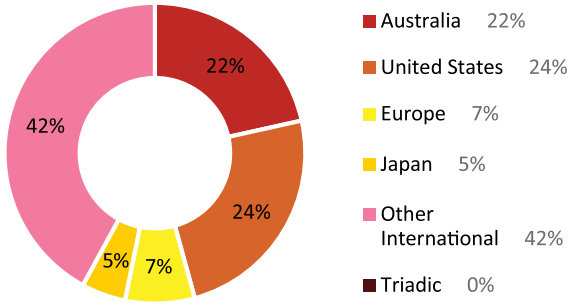
Patents Sealed

Eligible patents for ERA 2012 include Australian standard patents and their international equivalents, but not Australian innovation patents. 'Other International' includes all other countries not listed in the table below. Triadic patents are a series of corresponding patents filed at the European Patent Office (EPO), the United States Patent and Trademark Office (USPTO) and the Japan Patent Office (JPO), for the same invention by the same applicant or inventor.

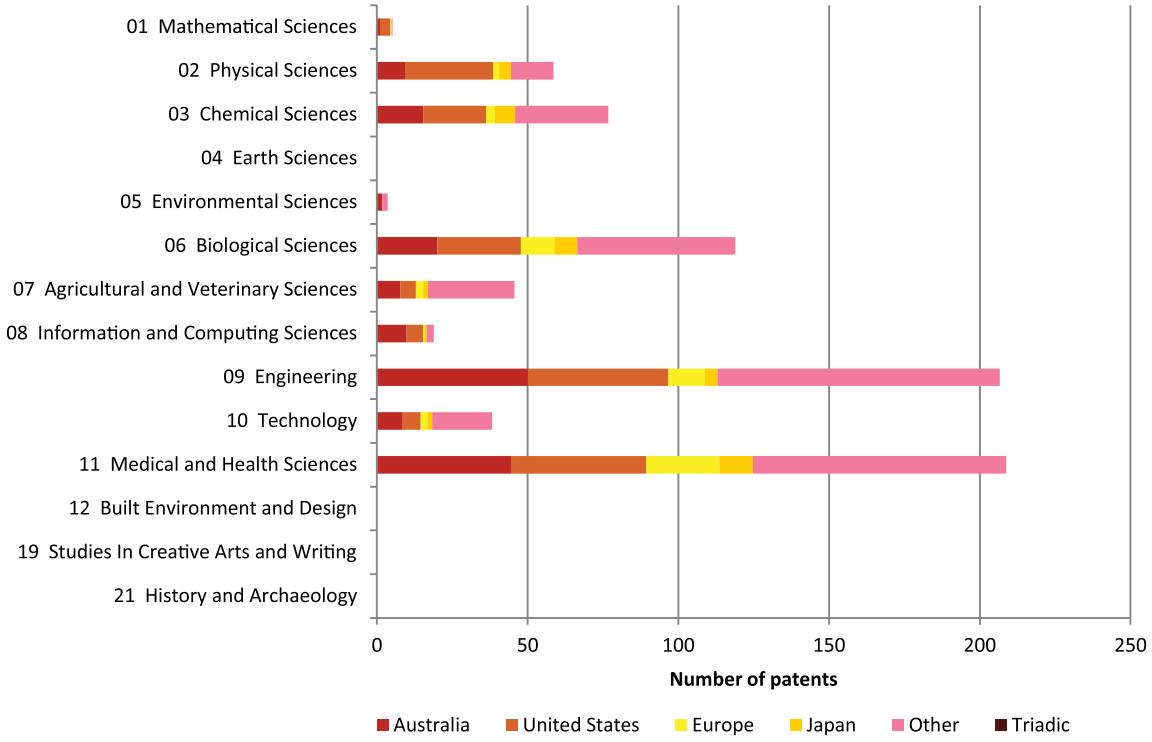
A total of 781 patents were submitted to ERA 2012. Over a third were submitted in the category of 'Other International'. See **Section 3** for a detailed breakdown.

Country or Type	Patents Sealed
Australia	168.1
United States	189.1
Europe	58.3
Japan	37.2
Other International	328.4
Triadic	0.0
Total	**781.1**

Patents sealed (%)



Patents sealed by two-digit FoR code



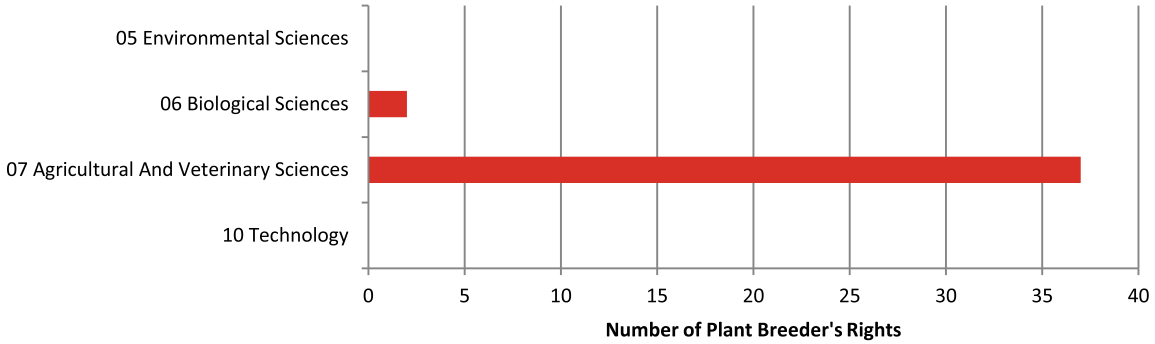
Note: two-digit FoR codes that do not use patents as an applied measure are not shown in the bar chart. See **Section 3** for a detailed breakdown.

Plant Breeder's Rights

Eligible Plant Breeder's Rights for ERA 2012 are those granted under the *Plant Breeder's Rights Act 1994* or their international equivalents. Provisional protection Plant Breeder's Rights were ineligible for submission.

A total of 39 Plant Breeder's Rights were submitted to ERA 2012. See **Section 3** for a detailed breakdown.

Plant Breeder's Rights by two-digit FoR code



Registered Designs

Registered Designs were required to demonstrate a clear link between the Registered Design and the related research to be eligible for submission to ERA 2012. Only those Registered Designs which were certified in Australia were eligible for submission.

No Registered Designs were submitted to ERA 2012.

NHMRC Endorsed Guidelines

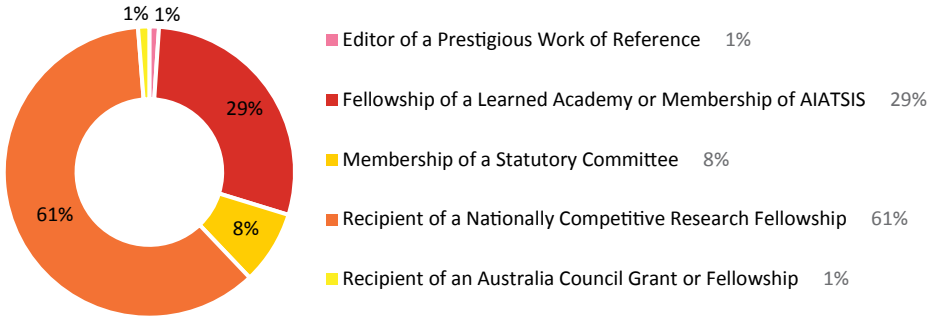
NHMRC Endorsed Guidelines include those on population health, clinical practice and ethics. This indicator was applicable to the two-digit and four-digit Medical and Health Sciences FoR codes.

A total of 50 NHMRC Endorsed Guidelines were submitted to ERA 2012. See **Section 3** for a detailed breakdown.

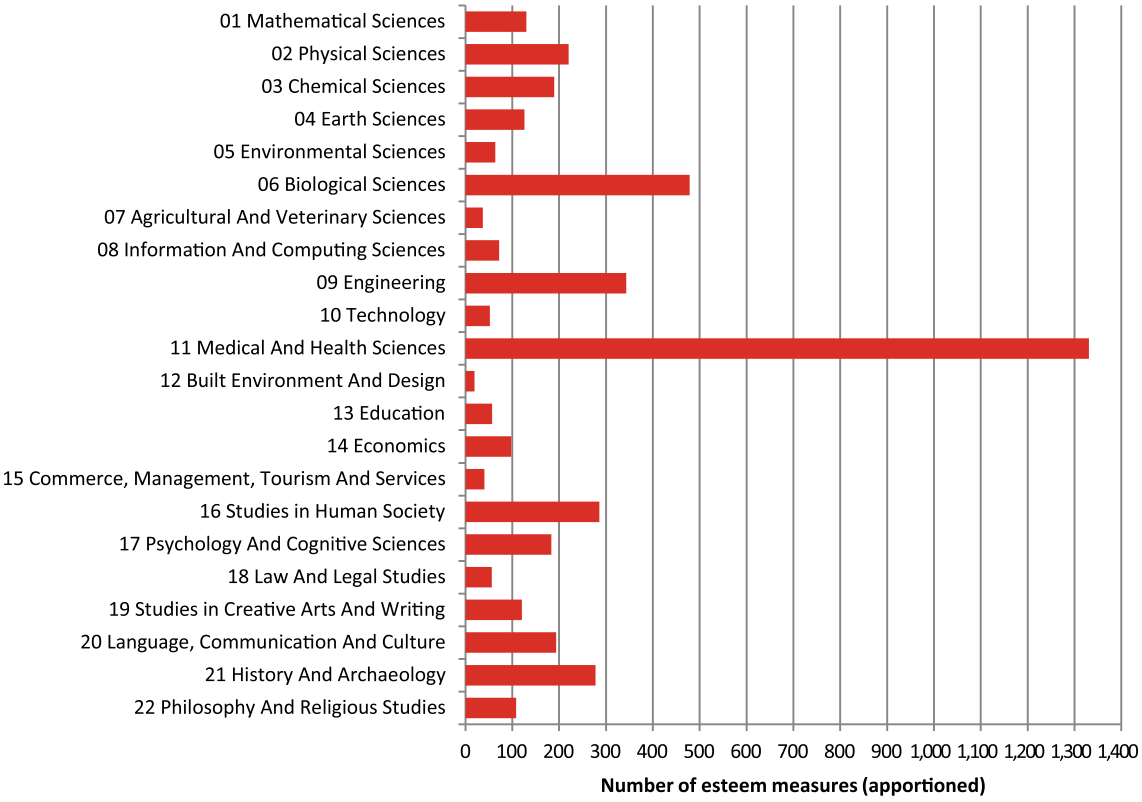
Esteem measures

Esteem measures eligible for ERA 2012 embody a measure of prestige and are recognised by experts within the discipline as a highly desired, highly regarded form of accolade or acknowledgement. See **Section 3** for a detailed breakdown.

Apportioned esteem measures by type (%)



Apportioned esteem measures by two-digit FoR code



Emerging Disciplines, Research Application and Impact

The ERA evaluation process uses a series of metrics, peer review and expert review to evaluate the quality of research undertaken in Australia's Higher Education Sector. The metrics that are used in the ERA evaluation are outlined in the *ERA 2012 Evaluation Handbook* (available at http://www.arc.gov.au/era/era_2012/key_documents_2012.htm). However, identifying Australia's research excellence is only one of the purposes of ERA. In addition to research evaluation, ERA is designed to be able to assist government, industry, business and the wider community to identify opportunities for development within the Higher Education research sector, identify emerging research areas, and compare research nationally and internationally. The following section identifies some general characteristics of the Higher Education research sector, including emerging disciplines and areas for development, research application and pathways to research impact.

Emerging Disciplines: Discipline Growth

The percentage growth of a discipline (as measured in outputs) and its growth relative to other disciplines in Australia give an idea of the trajectory of a discipline and its relative maturity. Yearly growth is difficult to measure, because the number of publications can vary greatly from year to year. This is evident in the table below, where yearly publication rates are subject to sometimes substantial fluctuations. To minimise the effect of this, the table below also presents a Two-period Growth Rate (Outputs 2008–2010/Outputs 2005–2007). A Two-period Growth Rate was calculated for each four-digit discipline that had more than 600 apportioned outputs in the six-year reference period (disciplines with less than 600 outputs in six years were considered too small to display a trend). This gives an indication of whether the discipline is generally larger recently compared with the past.

Of the 135 disciplines for which the Two-period Growth Rate was calculated, 114 displayed a positive growth rate, and only 21 displayed a negative growth rate. The range of growth was -21 per cent (1005 Communication Technologies; not displayed on table) to 48 per cent (1104 Complementary and Alternative Medicine).

The table below also includes the Growth Index for each of 62 disciplines in Australia that are growing at a rate greater than average (12%). The Growth Index compares the Two-period Growth Rate of the discipline against the average Two-period Growth Rate of all disciplines. This figure is not normalised for volume.

FoR Code	FoR Name	2005	2006	2007	2008	2009	2010	Total	Two-period Growth Rate*	Growth Index**
1104	Complementary and Alternative Medicine	90.2	116.1	122.5	159.8	163.3	162.6	814.5	48%	1.3
1205	Urban and Regional Planning	223.5	224.7	328.3	302.6	366.9	461.7	1,907.7	46%	1.3
1111	Nutrition and Dietetics	148.5	202.3	222.6	240.6	274.1	304.4	1,392.5	43%	1.3
1199	Other Medical and Health Sciences	250.2	253.0	295.6	348.5	366.6	389.8	1,903.7	38%	1.2
1702	Cognitive Science	300.1	357.4	329.4	388.4	449.5	511.9	2,336.7	37%	1.2
2001	Communication and Media Studies	262.4	285.0	351.5	402.6	410.3	413.4	2,125.2	36%	1.2
1301	Education Systems	448.8	397.1	469.1	527.7	625.4	589.9	3,058.0	33%	1.2
1601	Anthropology	200.0	232.4	223.7	285.6	281.0	292.2	1,514.9	31%	1.2
1399	Other Education	156.8	149.0	194.5	209.6	222.5	222.7	1,155.1	31%	1.2
1106	Human Movement and Sports Science	699.8	808.6	899.5	982.0	1,004.1	1,118.6	5,512.6	29%	1.1
0503	Soil Sciences	155.5	178.7	172.9	174.8	193.3	285.5	1,160.7	29%	1.1
1117	Public Health and Health Services	2,302.5	2,513.2	2,747.1	3,060.3	3,159.4	3,421.3	17,203.8	27%	1.1
2201	Applied Ethics	127.0	126.8	121.9	137.3	181.0	159.2	853.2	27%	1.1
1602	Criminology	185.8	224.9	208.2	265.2	264.3	252.5	1,400.9	26%	1.1
1302	Curriculum and Pedagogy	840.4	919.0	965.9	1,090.2	1,176.3	1,173.2	6,165	26%	1.1
1112	Oncology and Carcinogenesis	532.2	606.5	553.6	672.1	671.1	792.7	3,828.2	26%	1.1
1501	Accounting, Auditing and Accountability	388.4	408.2	478.3	544.9	508.5	551.8	2,880.1	26%	1.1
0501	Ecological Applications	148.9	178.1	209.1	197.0	235.3	240.6	1,209.0	26%	1.1
0908	Food Sciences	137.9	173.1	237.1	223.7	239.6	223.5	1,234.9	25%	1.1
1007	Nanotechnology	101.4	152.3	133.0	166.4	140.9	172.7	866.7	24%	1.1
2003	Language Studies	99.6	98.0	100.0	118.7	113.8	136.8	666.9	24%	1.1
0904	Chemical Engineering	686.7	682.7	756.8	761.3	920.6	956.5	4,764.6	24%	1.1
1202	Building	203.0	261.3	273.0	322.0	284.4	307.8	1,651.5	24%	1.1
2002	Cultural Studies	446.3	470.4	526.7	598.8	588.8	578.3	3,209.3	22%	1.1
2101	Archaeology	217.3	255.9	271.9	294.3	298.4	317.3	1,655.1	22%	1.1
2204	Religion and Religious Studies	229.4	268.2	293.0	288.3	323.1	353.9	1,755.9	22%	1.1
1905	Visual Arts and Crafts	491.1	567.2	515.7	644.8	620.0	653.6	3,492.4	22%	1.1
0905	Civil Engineering	1,046.3	1,063.3	1,143.7	1,296.5	1,254.5	1,403.2	7,207.5	22%	1.1
1607	Social Work	240.2	247.3	283.4	283.8	332.5	319.7	1,706.9	21%	1.1
1113	Ophthalmology and Optometry	310.2	364.0	362.6	392.5	430.1	434.3	2,293.7	21%	1.1
0303	Macromolecular and Materials Chemistry	288.1	350.6	293.0	354.2	365.3	405.4	2,056.6	21%	1.1
0903	Biomedical Engineering	342.0	347.5	418.9	428.7	410.5	496.5	2,444.1	21%	1.1
1110	Nursing	719.4	829.9	914.7	943.7	966.8	1,053.4	5,427.9	20%	1.1

* The Two-period Growth Rate is used because it is preferable to an exponential model at the 4-digit discipline level. Two-period Growth Rate: (Ouputs 2008–2010/Outputs 2005–2007)-1. Only disciplines with >600 outputs in the six-year reference period are included.

** Growth Index shows the Two-period Growth Rate of a discipline relative to the Australian Average (Australian total Two-period Growth Rate is 12%). An index >1 indicates above average growth.

continued

FoR Code	FoR Name	2005	2006	2007	2008	2009	2010	Total	Two-period Growth Rate*	Growth Index**
1502	Banking, Finance and Investment	319.3	331.5	358.3	426.6	366.3	419.0	2,221	20%	1.1
0909	Geomatic Engineering	180.9	184.2	217.2	231.5	261.0	203.8	1,278.6	20%	1.1
0401	Atmospheric Sciences	154.3	108.1	157.0	141.5	175.4	182.7	919.0	19%	1.1
1506	Tourism	319.9	379.0	345.8	411.1	398.6	433.3	2,287.7	19%	1.1
0699	Other Biological Sciences	121.7	110.1	110.2	138.0	119.4	147.7	747.1	18%	1.1
1108	Medical Microbiology	235.8	310.2	301.6	304.4	341.6	356.9	1,850.5	18%	1.1
0602	Ecology	690.5	746.2	835.2	868.5	924.3	880.7	4,945.4	18%	1.0
1904	Performing Arts and Creative Writing	629.3	760.4	715.7	789.9	806.2	878.1	4,579.6	18%	1.0
1505	Marketing	625.2	653.0	660.3	733.9	781.9	740.9	4,195.2	16%	1.0
1102	Cardiovascular Medicine and Haematology	482.7	535.9	548.5	563.8	609.5	650.8	3,391.2	16%	1.0
0502	Environmental Science and Management	633.9	746.4	771.0	813.2	829.0	850.2	4,643.7	16%	1.0
1902	Film, Television and Digital Media	280.2	275.3	363.6	372.8	355.7	335.3	1,982.9	16%	1.0
0805	Distributed Computing	364.5	320.5	323.4	363.8	397.5	405.4	2,175.1	16%	1.0
1201	Architecture	350.0	407.9	421.6	433.7	418.4	510.3	2,541.9	16%	1.0
1203	Design Practice and Management	184.2	192.8	273.3	212.3	271.1	267.2	1,400.9	15%	1.0
1701	Psychology	1,584.2	1,908.1	1,964.8	2,081.9	2,128.7	2,088.1	11,755.8	15%	1.0
0399	Other Chemical Sciences	117.8	136.0	136.7	144.5	143.6	162.2	840.8	15%	1.0
0906	Electrical and Electronic Engineering	1,417.3	1,594.3	1,583.5	1,704.1	1,725.6	1,866.0	9,890.8	15%	1.0
0603	Evolutionary Biology	282.1	310.7	310.2	342.3	344.1	348.7	1,938.1	15%	1.0
0912	Materials Engineering	905.3	1,001.5	1,040.2	1,052.7	1,108.5	1,210.4	6,318.6	14%	1.0
2202	History and Philosophy of Specific Fields	141.9	132.5	167.6	155.2	183.2	166.8	947.2	14%	1.0
1606	Political Science	712.5	795.6	856.4	898.0	917.8	881.6	5,061.9	14%	1.0
1903	Journalism and Professional Writing	115.6	101.0	87.0	89.8	122.2	133.7	649.3	14%	1.0
2103	Historical Studies	740.6	722.4	794.9	829.9	819.8	920.9	4,828.5	14%	1.0
0702	Animal Production	270.0	211.6	312.2	222.4	334.0	347.1	1,697.3	14%	1.0
1109	Neurosciences	900.7	964.8	999.2	1,032.7	1,085.6	1,134.1	6,117.1	14%	1.0
1699	Other Studies in Human Society	145.4	164.9	195.8	204.6	181.4	185.3	1,077.4	13%	1.0
1402	Applied Economics	755.7	915.0	847.8	893.8	935.9	1,009.5	5,357.7	13%	1.0
0299	Other Physical Sciences	132.6	132.2	148.2	163.0	155.8	146.2	878.0	13%	1.0
0703	Crop and Pasture Production	322.4	452.1	370.3	472.5	378.4	438.0	2,433.7	13%	1.0
0204	Condensed Matter Physics	391.1	480.2	423.8	469.6	498.8	488.2	2,751.7	12%	1.0
1101	Medical Biochemistry and Metabolomics	162.3	178.2	171.9	200.7	181.3	193.5	1,087.9	12%	1.0
1605	Policy and Administration	421.5	485.8	473.5	482.2	514.9	553.6	2,931.5	12%	1.0
0405	Oceanography	125.0	123.5	144.3	171.1	108.8	160.8	833.5	12%	1.0

* The Two-period Growth Rate is used because it is preferable to an exponential model at the 4-digit discipline level. Two-period Growth Rate: (Ouputs 2008–2010/Outputs 2005–2007)-1. Only disciplines with >600 outputs in the six-year reference period are included.

** Growth Index shows the Two-period Growth Rate of a discipline relative to the Australian Average (Australian total Two-period Growth Rate is 12%). An index >1 indicates above average growth.

Emerging Disciplines: Two-digit Growth Rates

The following table shows the Compound Annual Growth Rate (CAGR) for each two-digit discipline. This indicates the degree to which a discipline is growing annually across the entire reference period.

The table below also provides the trend across the reference period, with the largest yearly production shaded. This may indicate the future trajectory of a discipline's growth, for example, whereas 05 Environmental Sciences has been increasing across the entire six-year reference period, 10 Technology has been steadily decreasing since the second year of the reference period.

The total volume of research outputs in each two-digit discipline is also provided for context and comparison.

Two-digit compound growth rates and trends

FoR	Trend 2005–2010	Total Outputs*	CAGR**
12 Built Environment and Design		7,847	10%
05 Environmental Sciences		7,549	8%
17 Psychology and Cognitive Sciences		14,951	7%
22 Philosophy and Religious Studies		5,724	6%
11 Medical and Health Sciences		91,860	6%
20 Language, Communication and Culture		12,176	5%
09 Engineering		48,367	5%
19 Studies in Creative Arts and Writing		11,888	5%
21 History and Archaeology		6,941	5%
13 Education		18,702	5%
16 Studies in Human Society		20,495	5%
18 Law and Legal Studies		9,176	4%
07 Agricultural and Veterinary Sciences		11,032	3%
14 Economics		7,629	3%
15 Commerce, Management, Tourism and Services		24,641	3%
04 Earth Sciences		10,198	3%
06 Biological Sciences		30,867	3%
03 Chemical Sciences		16,124	2%
01 Mathematical Sciences		10,234	1%
02 Physical Sciences		16,273	1%
08 Information and Computing Sciences		24,165	1%
10 Technology		6,055	0%

* Does not include portfolios

** Compound annual growth rate: (Outputs 2010/Outputs 2005)^(1/Years in reference period)-1

Emerging Disciplines: Multi-disciplinary Research

Multi-disciplinary research relates to, or involves two or more academic disciplines that are usually considered distinct. Knowledge flows between disciplines have attracted interest because advances in science often involve collaboration across discipline boundaries.

The table below shows the multi-disciplinarity between the two-digit Fields of Research (FoR) codes. The percentages across the rows indicate the distribution of co-apportioned output from a particular FoR to each of other two-digit codes. For example, institutions indicated that 34 per cent of the total co-apportioned output from Mathematical Sciences (FoR 01) also related to Engineering (FoR 09). The total number of co-apportioned outputs was 872. The shaded squares in the table highlight percentages greater than 20.

The highest multi-disciplinary percentage occurs between Psychology and Cognitive Sciences (FoR 17) and Medical and Health Sciences (FoR 11) (74.3%). There is also a high degree of multi-disciplinarity between Environmental Sciences (FoR 05) and Biological Sciences (FoR 06) (51.9%); Agricultural and Veterinary Sciences (FoR 07) and Biological Sciences (FoR 06) (47.6%); and Physical Sciences (FoR 02) and Engineering (FoR 09) (47.6%).

Multi-disciplinary research—Percentage of apportioned research output

20–29% 30–39% >40%

Fields of Research		Mathematical Sciences	Physical Sciences	Chemical Sciences	Earth Sciences	Environmental Sciences	Biological Sciences	Agricultural And Veterinary Sciences	Information And Computing 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 %	Number of Apportioned Outputs
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22		
01	Mathematical Sciences		11.5	1.1	2.8	2.6	6.1	2.6	21.5	34.4	1.6	6.7	0.2	1.5	3.0	3.1	0.3	0.7	0.0	0.0	0.1	0.2	0.1	100	872
02	Physical Sciences	10.5		22.8	3.9	0.0	1.6	0.1	1.0	47.6	8.9	2.7	0.2	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.3	100	911
03	Chemical Sciences	0.5	12.3		1.2	4.6	20.9	0.8	0.3	41.1	4.8	12.8	0.0	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.4	0.0	100	1651
04	Earth Sciences	4.0	7.9	3.4		21.6	20.8	4.4	1.1	23.1	0.3	0.4	0.6	0.4	0.0	0.1	3.9	0.4	0.2	0.1	0.0	7.5	0.0	100	535
05	Environmental Sciences	1.0	0.0	4.4	5.9		51.9	17.6	0.6	5.5	1.2	2.1	1.4	0.5	2.4	1.0	3.4	0.1	0.3	0.1	0.2	0.2	0.2	100	1959
06	Biological Sciences	0.9	0.3	7.9	2.6	22.5		14.3	1.9	1.6	1.8	44.3	0.0	0.1	0.0	0.0	0.3	0.9	0.0	0.0	0.0	0.2	0.1	100	4379
07	Agricultural and Veterinary Sciences	1.4	0.0	1.2	2.0	24.2	47.6		0.9	6.3	3.1	8.5	0.1	0.4	1.9	0.6	1.0	0.2	0.0	0.0	0.2	0.3	0.0	100	1456
08	Information and Computing Sciences	12.3	0.8	0.3	0.4	0.9	6.0	1.0		20.2	8.1	9.5	4.5	7.3	0.2	13.9	2.7	4.6	0.7	2.5	3.2	0.1	0.8	100	1535
09	Engineering	9.3	15.2	22.6	4.4	3.7	2.5	3.0	10.8		15.2	7.2	2.9	1.3	0.3	0.5	0.2	0.9	0.0	0.0	0.0	0.0	0.0	100	3163
10	Technology	1.8	7.6	9.3	0.2	2.3	9.6	4.8	12.1	42.7		6.8	0.2	0.4	0.1	0.8	0.3	0.1	0.6	0.0	0.2	0.0	0.1	100	1053
11	Medical and Health Sciences	0.9	0.4	4.0	0.0	0.8	35.2	1.9	2.7	4.4	1.1		0.3	3.4	1.1	1.1	6.2	35.0	0.3	0.1	0.6	0.1	0.7	100	5224
12	Built Environment and Design	0.3	0.4	0.1	0.7	5.2	0.1	0.3	12.7	14.4	0.3	3.1		3.7	2.9	10.2	23.5	2.3	1.6	10.2	2.8	4.6	0.5	100	559
13	Education	1.0	0.1	0.2	0.1	0.9	0.5	0.6	8.7	4.0	0.3	15.0	1.7		0.3	8.8	15.4	13.6	2.2	10.1	11.2	1.4	3.8	100	1210
14	Economics	5.3	0.0	0.0	0.0	10.1	0.2	5.8	0.5	1.9	0.2	11.5	3.5	0.9		31.8	21.7	1.0	3.2	0.0	0.8	0.2	1.3	100	474
15	Commerce, Management, Tourism and Services	2.8	0.0	0.0	0.0	1.7	0.1	1.1	17.3	1.4	0.8	4.8	4.2	9.5	13.6		15.4	11.3	5.7	1.0	4.3	1.2	3.6	100	1131
16	Studies in Human Society	0.1	0.0	0.1	1.2	3.6	0.7	0.9	2.0	0.5	0.2	16.4	6.8	9.2	5.0	8.6		5.6	10.5	2.2	12.0	7.2	7.3	100	1899
17	Psychology and Cognitive Sciences	0.2	0.0	0.0	0.1	0.1	1.7	0.1	2.3	1.2	0.1	74.3	0.4	6.1	0.2	5.1	4.0		0.5	0.7	1.8	0.0	1.3	100	2752
18	Law and Legal Studies	0.0	0.1	0.1	0.2	1.5	0.4	0.2	1.7	0.1	1.5	4.0	2.6	6.6	2.2	13.8	41.6	2.7		0.4	6.7	3.5	10.1	100	456
19	Studies in Creative Arts and Writing	0.0	0.1	0.0	0.0	0.2	0.1	0.0	5.6	0.1	0.1	1.0	8.3	17.6	0.0	1.5	6.1	2.7	0.3		47.0	5.9	3.2	100	675
20	Language, Communication and Culture	0.1	0.0	0.0	0.0	0.5	0.1	0.4	4.6	0.0	0.1	2.8	1.3	11.7	0.4	3.9	21.0	4.7	2.6	27.2		12.0	6.4	100	1125
21	History and Archaeology	0.1	0.1	0.9	7.6	0.6	1.4	0.6	0.4	0.2	0.0	0.5	3.9	2.7	0.3	3.2	25.5	0.2	3.3	6.8	24.3		17.4	100	542
22	Philosophy and Religious Studies	0.3	0.4	0.0	0.1	1.0	0.6	0.0	1.8	0.1	0.3	6.4	0.4	8.0	1.2	6.4	24.9	6.7	7.0	3.4	12.2	19.0		100	557

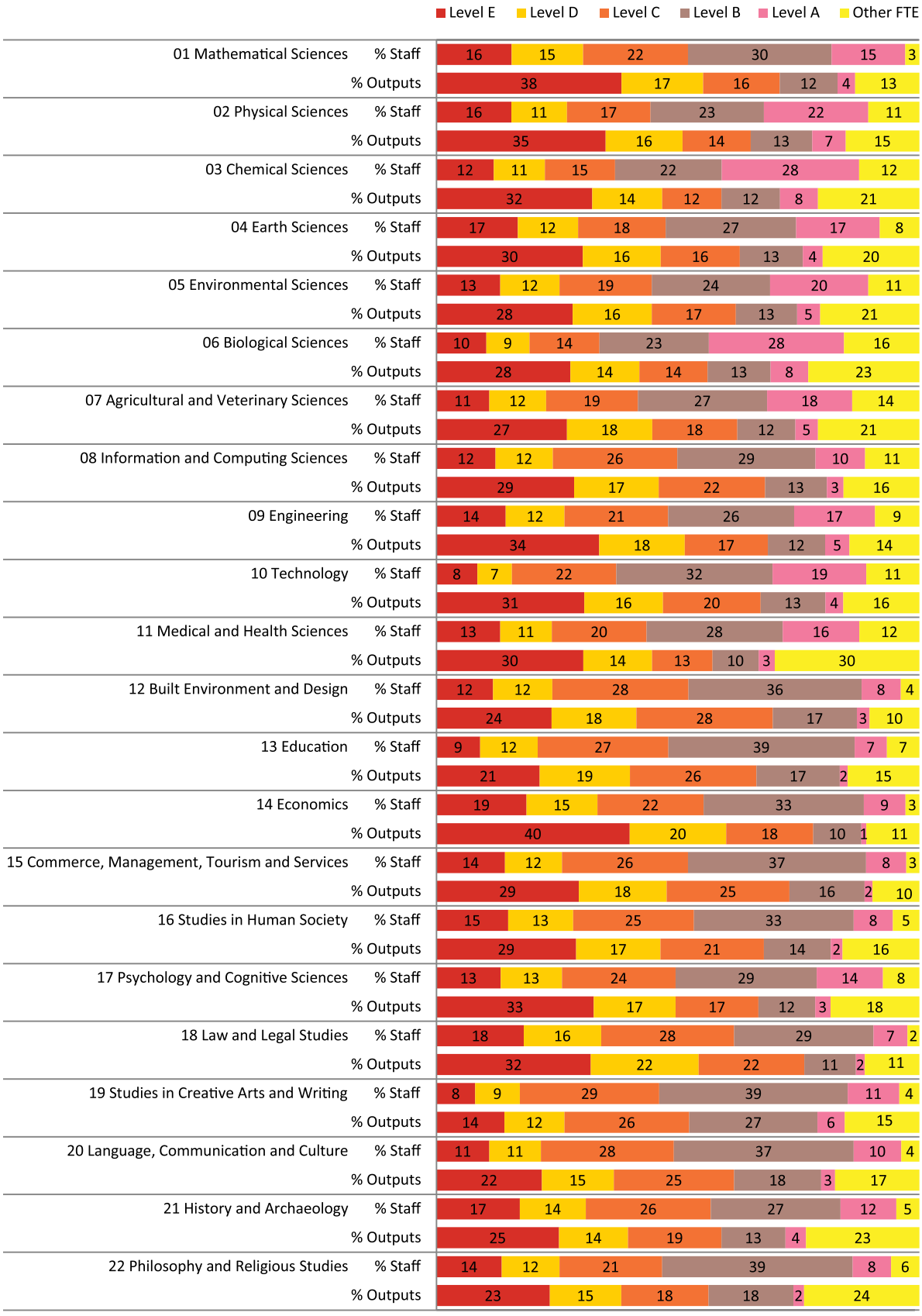
Emerging Disciplines: Research Capacity

The table below shows for each two-digit FoR the proportion of staff at each FTE Level (first line) and a breakdown of the corresponding proportion of outputs authored by each FTE Level (second line). For example, in Mathematical Sciences (01) Level E staff comprise 16 per cent of the employed researchers, and contribute 38 per cent of the research outputs.

It is clear that researchers at Level E play a key leadership role in establishing and cultivating research excellence within the university research landscape. This leadership role involves development of Levels A and B that comprise the bulk of the research workforce. While researchers at the Level E comprise between 8 and 19 per cent of the paid research workforce, they contribute between 14 and 38 per cent of the research outputs. 'Other' researchers, including general staff and academics occupying management positions, also contribute substantially to the production of research outputs.

Striking disciplinary differences can be seen in ERA 2012. In the Medical and Health Sciences (11), 'Other' researchers contribute to production as much as those at Level E. In contrast, in the Studies in Creative Arts and Writing (19) disciplines, Level B researchers contribute the greatest proportion of outputs.

Outputs and staff by employment levels



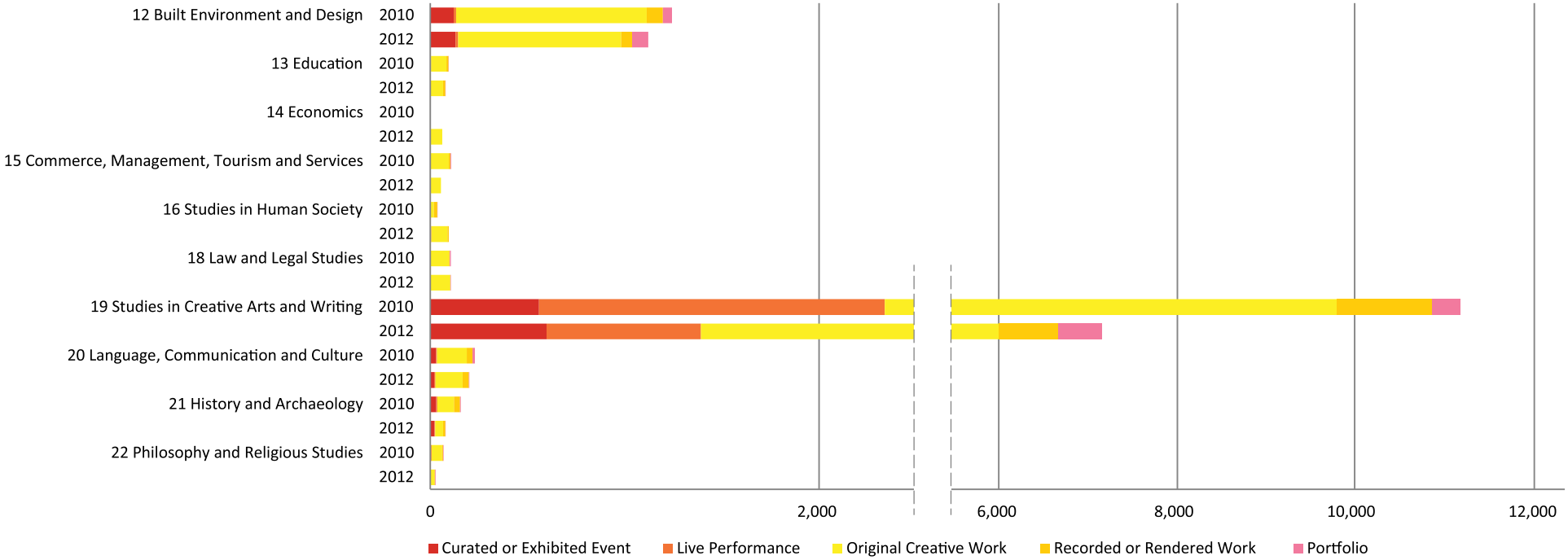
Research Application and Pathways to Research Impact

The ERA Evaluation is focussed on academic excellence and impact; however, the ERA data collection includes a rich evidence base for discussing broader research impact, and the contribution of the higher education research sector beyond academic publishing. The following analysis identifies several features of the application of research and pathways to research impact, including: professional and applied research publications (e.g. policy reports to government; architectural designs); patenting activity; research commercialisation activities (income derived from the commercialisation of research); research income provided by industry and public sector partners; the relative research capacity of research disciplines; knowledge transfer mechanisms between academic researchers and the broader innovation system; institutional research collaborations; collaborations between researchers. These data provide evidence of the application and uptake of academic research beyond academic publishing.

Research Application: Non-traditional Research Outputs

Non-traditional research outputs provide an important insight into applied research, and creative and practitioner-based research in the Humanities, Creative Arts and Social Sciences. The provision within the ERA framework for portfolios allows for related works that demonstrate coherent research content to be submitted and reviewed as a single output. This is particularly important in the case of applied, creative and practitioner-based research, where a body of work needs to be viewed as a whole so that the full significance of the research involved can be considered. Over 6,000 original creative works, 821 live performances, 789 recorded or rendered works and 776 curated or exhibited events were submitted to ERA 2012. While the overall number of individual non-traditional research outputs submitted decreased between ERA 2010 and ERA 2012, there was an increase in the number of portfolios, which contain any number of individual works (see Comparison of ERA 2010 and ERA 2012 Research Output by Type in **Section 1**). Studies in Creative Arts and Writing (19) and Built Environment and Design (12) submitted the highest number of non-traditional research outputs for assessment. See **Section 3** for a more detailed breakdown.

Number of non-traditional outputs, 2010–2012

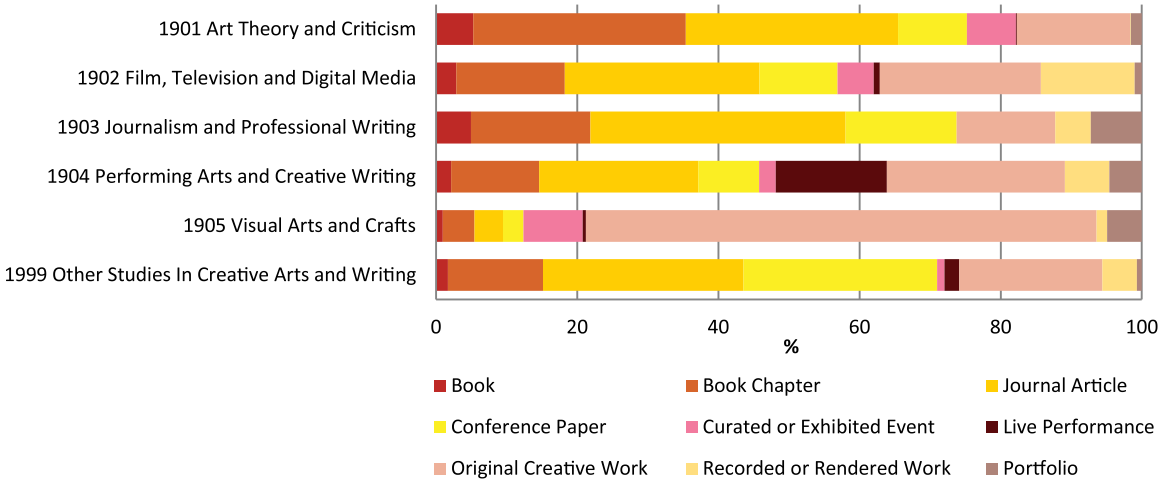


Note: in 2012 non-traditional outputs were not part of the submission for four-digit codes within Economics (14) or Studies in Human Society (16) with the exception of Anthropology (1601).

Research Application: Studies in Creative Arts and Writing

Of all the disciplines, Original Creative Works represents the greatest proportion (64%) of all non-traditional research outputs for Studies in Creative Arts and Writing (19) disciplines. Of these disciplines, Visual Arts and Crafts (1905) submitted 2,657 Original Creative Works, comprising 72 per cent of the total research output. See **Section 3** for a more detailed breakdown.

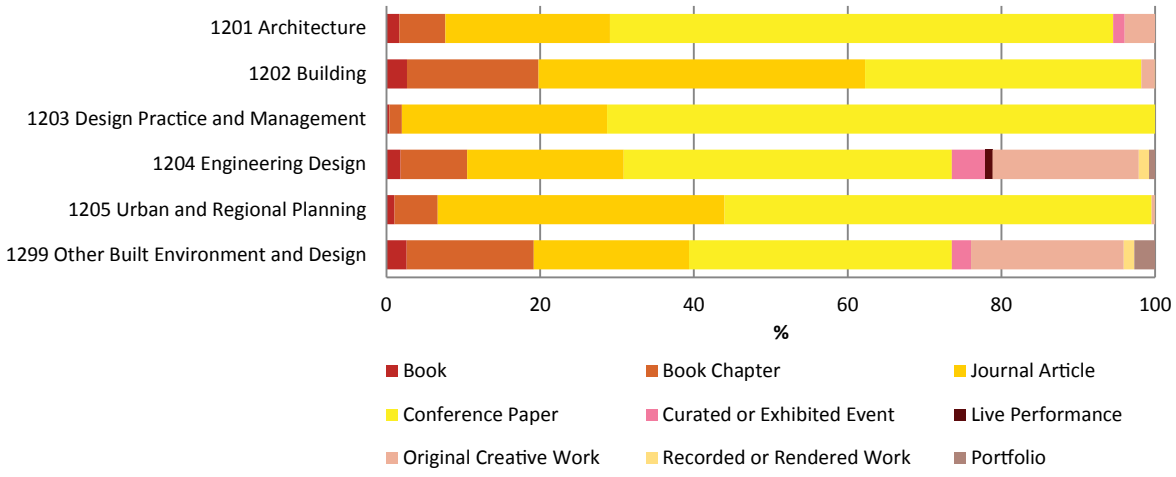
Output types in Studies in Creative Arts and Writing



Research Application: Built Environment and Design

Original Creative Works also featured strongly in Built Environment and Design (12), comprising 75 per cent of the non-traditional research outputs submitted to this FoR. Around 20 per cent of the total research outputs for both Engineering Design (1204) and Other Built Environment and Design (1299) are classified as Original Creative Works, demonstrating the strong applied focus of these disciplines. See **Section 3** for a more detailed breakdown.

Output types in Built Environment and Design



Research Application: Economics and Studies in Human Society

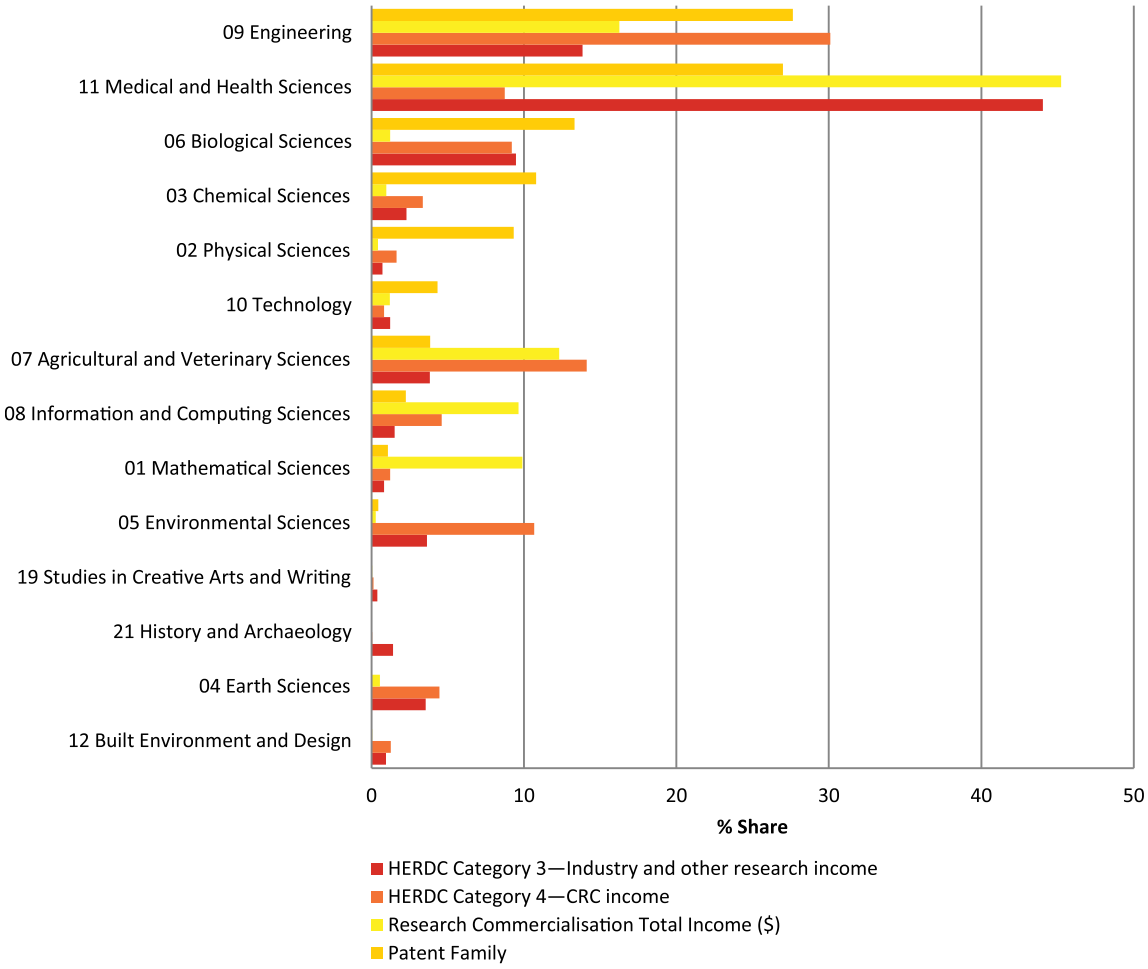
As a result of consultation with the higher education research sector, ERA 2012 saw the introduction of non-traditional research outputs for Economics (14) and Studies in Human Society (16). Analysis undertaken by the ARC, as well as feedback received, indicated that the strong applied focus of these disciplines is better captured with the inclusion of Original Creative Works which may include, for example, policy reports to government. A limited number of non-traditional research outputs were submitted to ERA 2012. The highest number and percentage of Original Creative Works was found in Policy and Administration (1605).

	Original Creative Work	% of Total Research Outputs
1401 Economic Theory	0	0
1402 Applied Economics	41.9	0.8
1403 Econometrics	10.0	1.2
1499 Other Economics	9.3	1.3
1601 Anthropology	3.0	0.2
1602 Criminology	10.4	0.7
1603 Demography	0	0
1604 Human Geography	5.0	0.3
1605 Policy and Administration	43.4	1.5
1606 Political Science	6.0	0.1
1607 Social Work	4.7	0.3
1608 Sociology	7.9	0.2
1699 Other Studies in Human Society	3.5	0.3

Research Application: Patents

In Australia, Engineering (09) and the Medical and Health Sciences (11) both demonstrated strength in applied research, together being responsible for more than half of the patents registered in the three-year reference period that were submitted to ERA 2012. The Medical and Health Sciences (11) attracted the greatest investment from industry and reported the most research commercialisation income, which includes income generated from patents. Engineering (09), however, attracted the greatest share of CRC income. See **Section 3** for a more detailed breakdown.

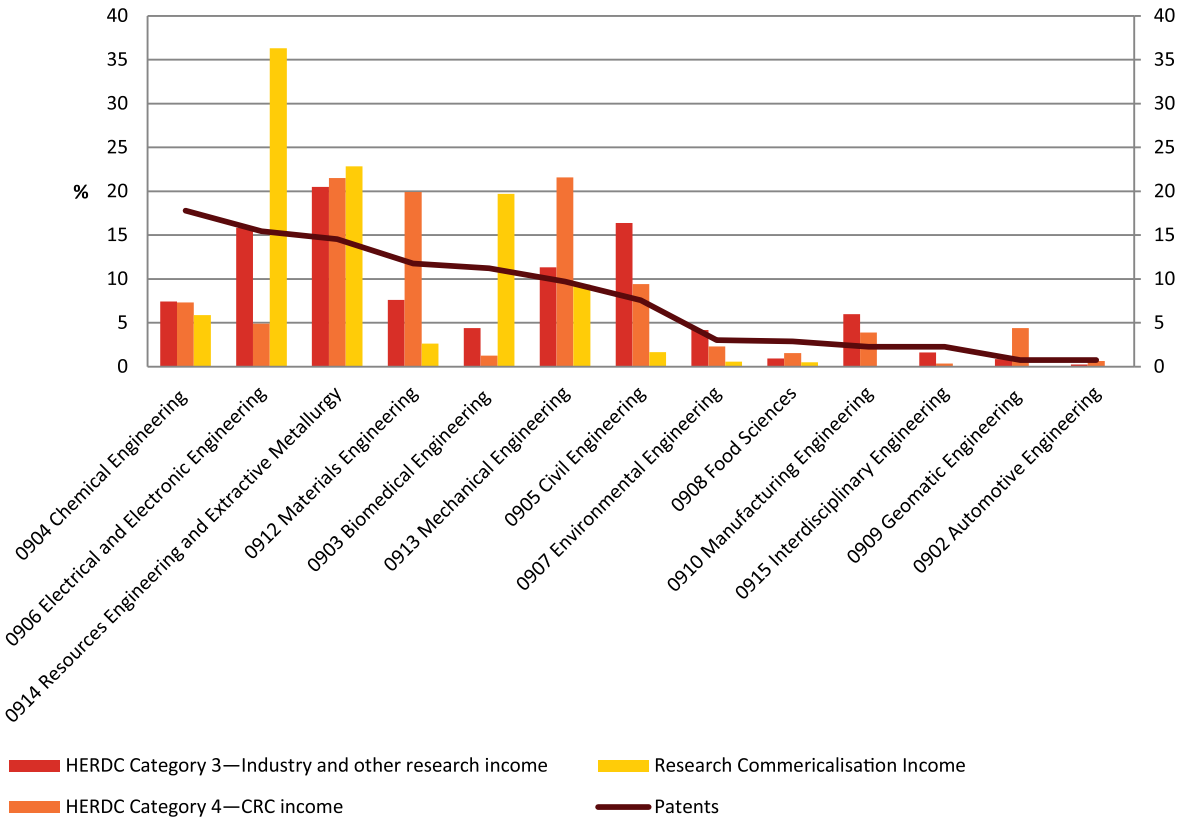
Patents and applied income sources by FoR code



Research Application: Engineering

Chemical Engineering was responsible for the highest share of patents (18%) within Engineering while producing relatively low levels of Research Commercialisation Income (6%) and attracting relatively low levels of support from Industry and Other Research Income sources (7%) and CRCs (7%). Electrical and Electronic Engineering also reported a large share of Engineering patents (15%), however this field also reported a high proportion of the Research Commercialisation Income (36%) and investment by Industry and Other Research Income sources (16%). Resources Engineering and Extractive Metallurgy also reported a strong share of patents (15%) with around a fifth of Research Commercialisation Income (23%), Industry and Other Research Income (21%) and CRC Income (22%).

Share of Engineering patents and income from applied sources

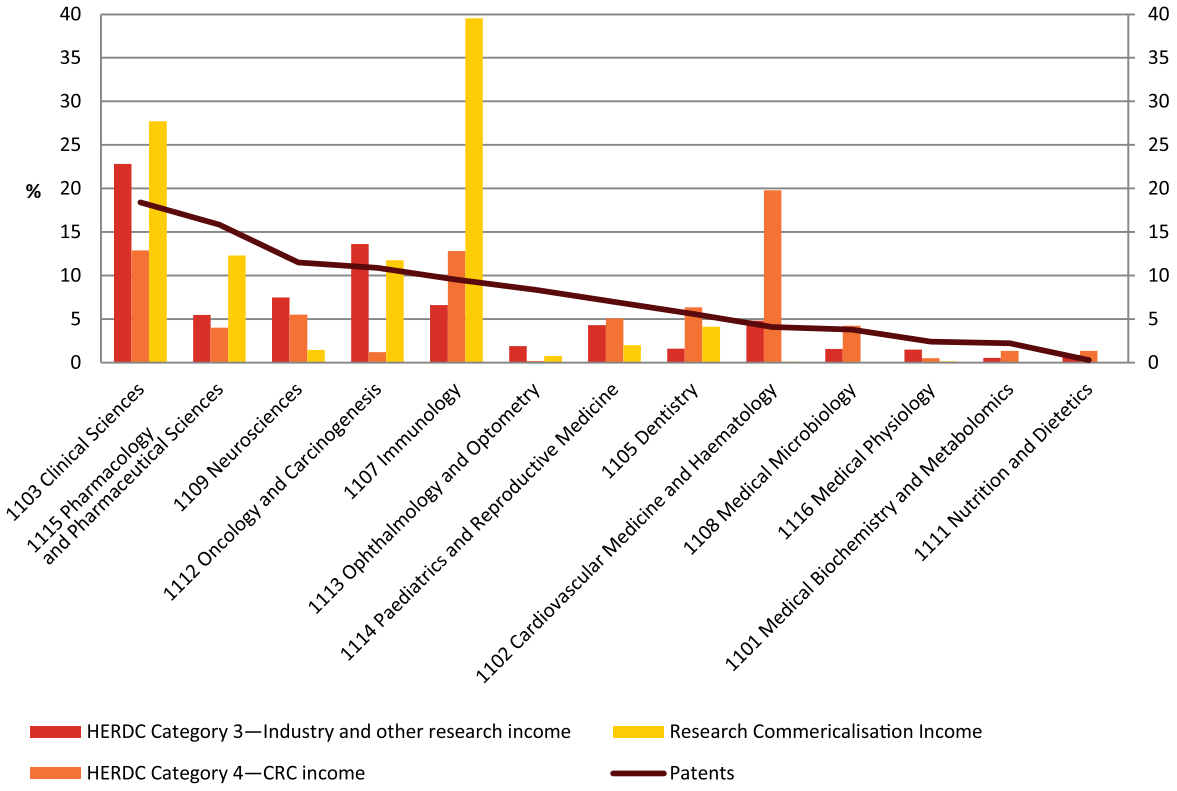


Note: FoRs with no patents have been excluded from the charts above.

Research Application: Medical and Health Sciences

The Clinical Sciences produced the largest share of patents (18%) within the Medical and Health Sciences. These disciplines were responsible for a large share of the reported Research Commercialisation Income (28%), and income from Industry and Other Research Income sources (23%). Immunology reported the greatest amount of Research Commercialisation Income, comprising 40 per cent of that income type for all of the Medical and Health Sciences.

Share of Medical and Health Sciences patents and income from applied sources



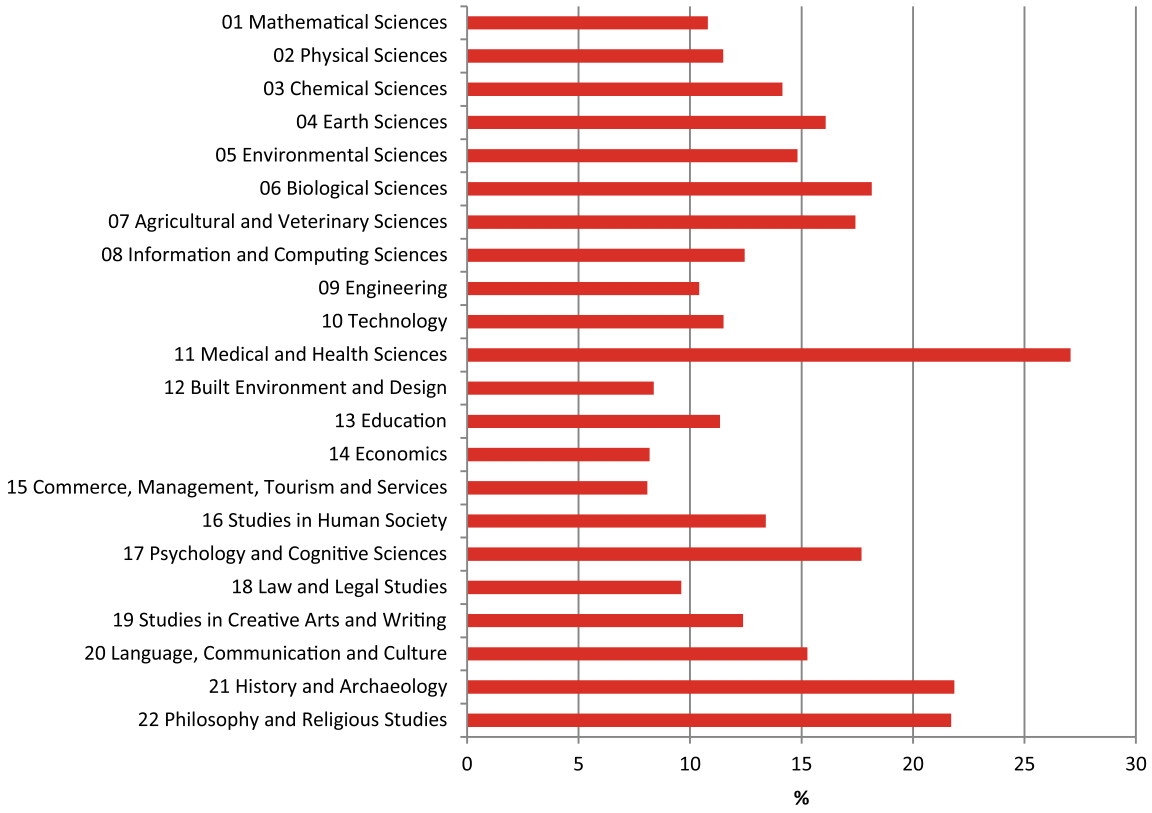
Notes: FoRs with no patents have been excluded from the charts above.
1104, 1106, 1110, 1111, 1117 and 1199 were not able to submit Research Commercialisation Income in ERA 2012.

Pathways to Research Impact: Knowledge Transfer

Non-salaried staff

Non-salaried staff includes emeritus, visiting, exchange or seconded staff, unpaid visiting fellows, members of religious denominations, conjoint, clinical and adjunct staff with a demonstrated publication association with an eligible Australian university. These researchers make an important contribution to the knowledge transfer undertaken by the Australian university research sector and other sectors of the innovation system and broader research community, contributing an average of 15 per cent of all outputs for ERA. This proportion is the greatest for the Medical and Health Sciences (11), where non-salaried staff contribute 27 per cent of all outputs.

Outputs contributed by non-salaried staff by two-digit FoR code



Pathways to Research Impact: Collaboration

Cross-Institutional Collaboration

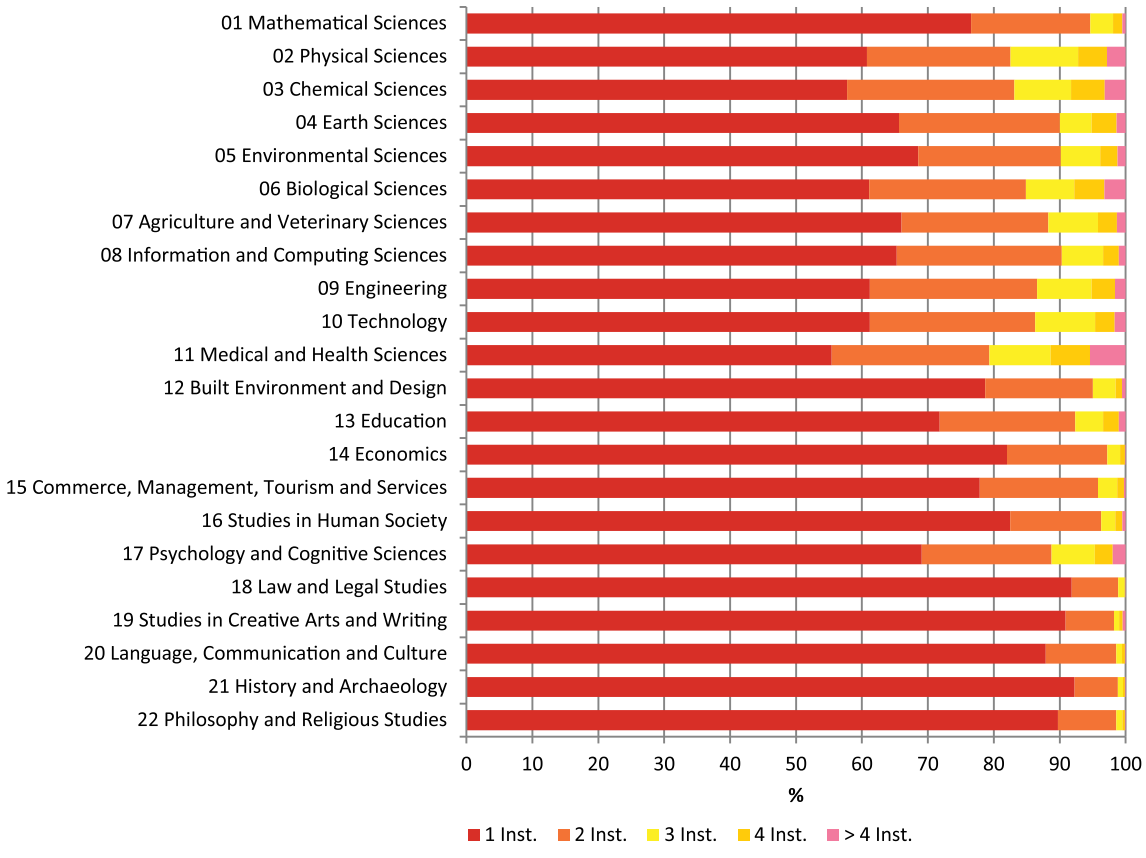
In ERA, it is possible for a research output to be submitted by more than one institution. There are several circumstances in which this can occur, for example, a research output could be written by multiple authors that work at different institutions, or a single researcher could have a publishing relationship with more than one institution. In such circumstances, this assists in circulating knowledge across the higher education sector. The following table indicates the extent to which cross-institutional diffusion is apparent in the ERA 2012 submission data, by indicating the percentage of research outputs submitted by one, two, three, four or more than four Australian institutions.

The range of the proportion of outputs that are submitted by more than one institution is 8 per cent (History and Archaeology) to 45 per cent (Medical and Health Sciences). Every two-digit discipline has at least 10 per cent of their publications submitted by multiple institutions with the exception of History and Archaeology, Law and Legal Studies (8%) and Creative Arts and Writing (9%).

Medical and Health Sciences has a noticeably larger number and proportion of outputs contributed by more than 4 institutions (5%), well above the next highest number in this category, Biological Sciences (3%). Medical and Health Sciences also has the highest proportion of publications submitted by 4 institutions (6%). Physical Sciences has the greatest percentage of outputs submitted by 3 institutions (10%).

All of the following disciplines have more than 20 per cent of publications submitted by two institutions: Chemical Sciences (25%); Engineering (25%); Information and Computing (25%); Technology (25%); Earth Sciences (24%); Medical and Health Sciences (24%); Biological Sciences (24%); Agriculture and Veterinary Sciences (22%); Physical Sciences (22%); Environmental Sciences (22%); Education (21%); Psychology and Cognitive Sciences (20%).

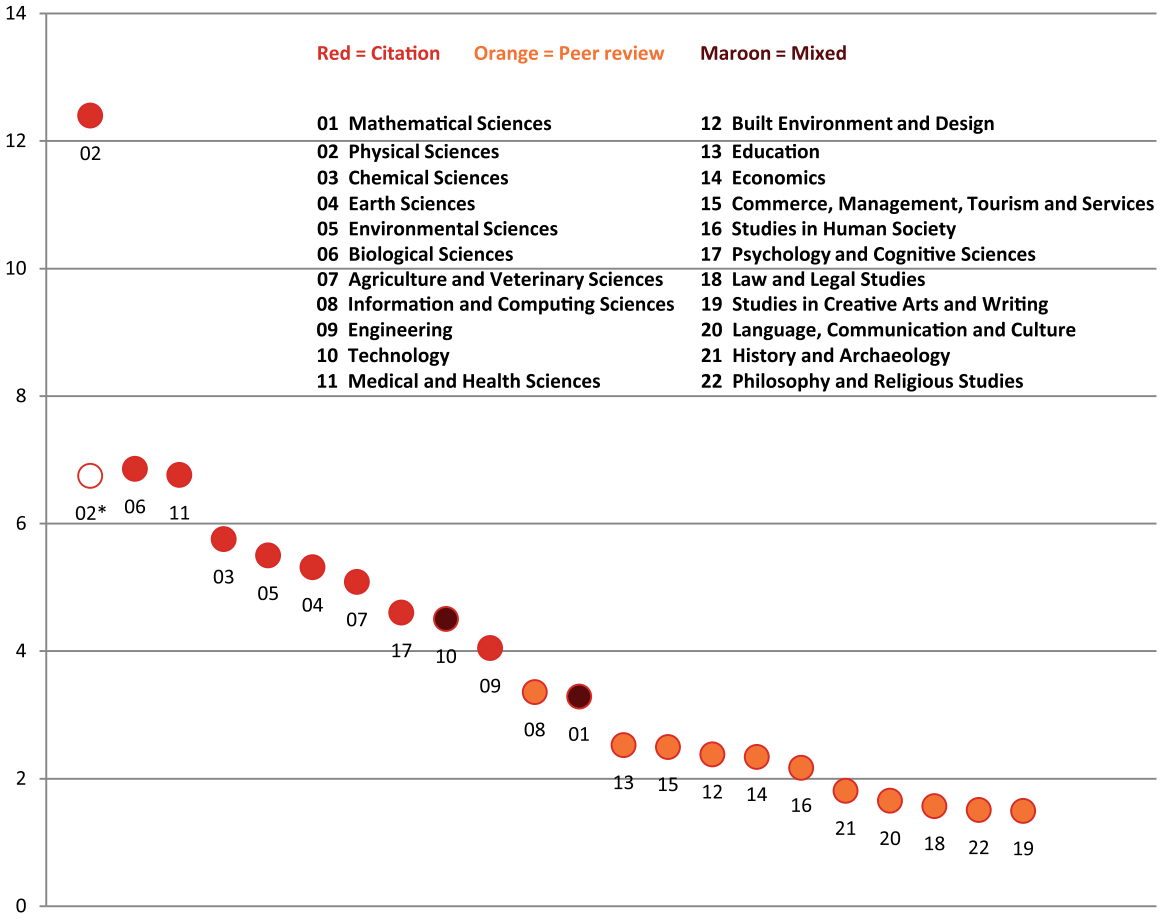
Distribution of outputs across Australian institutions by two-digit FoR code



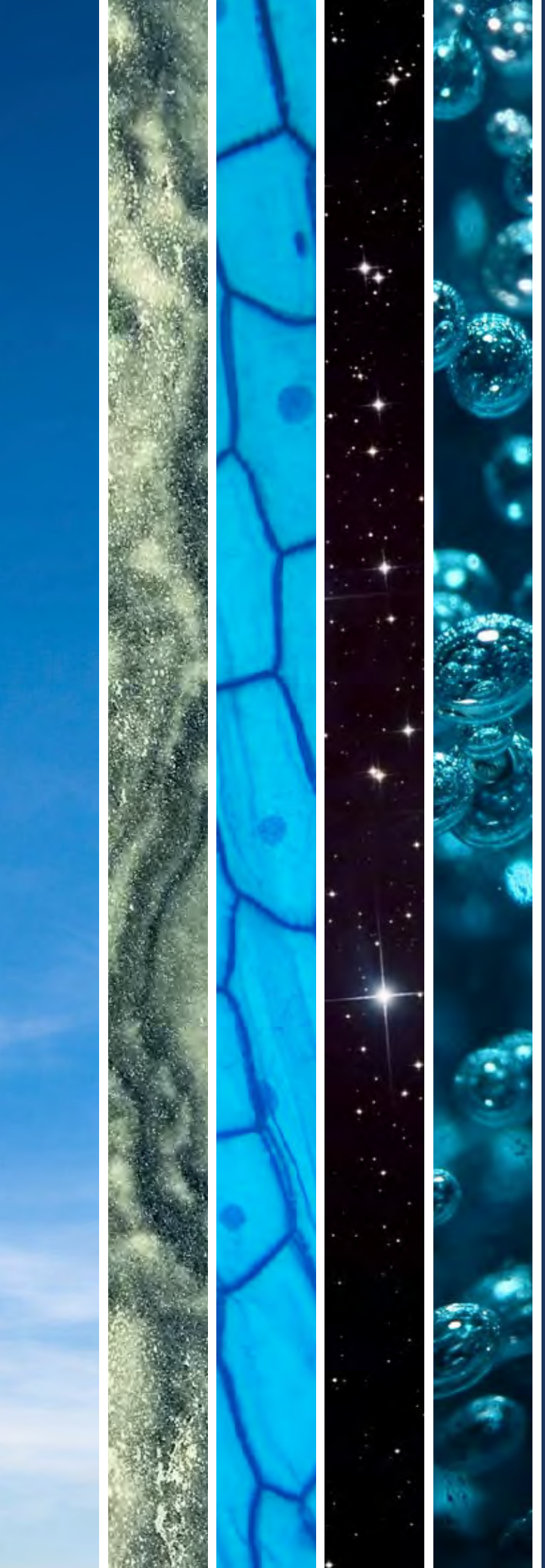
Pathways to Research Impact: Co-authorship

The average number of authors per research output submitted to ERA 2012 varied significantly between two-digit FoR codes. The Physical Sciences (02) showed the highest average number of authors on research outputs, in accordance with the common practice in some sub-disciplines of collaborating with many others on journal articles. In general, research outputs submitted to ERA citation analysis disciplines had more authors than those submitted to peer review disciplines. These networks of research collaboration result in larger citation rates, and support the decision to have peer review and citation analysis available to different disciplines. There is also a relationship between research output type and the number of authors per research output. Journal articles are the most commonly co-authored research outputs. In ERA peer review disciplines, there is a larger proportion of books, book chapters and conference papers. These data support the advice the ARC received during consultation that the appropriate indicators for these disciplines is peer review, and not citation analysis, as the focus is less on journal articles, and more on books, book chapters and non-traditional research outputs.

Average authors/output by two-digit FoR code

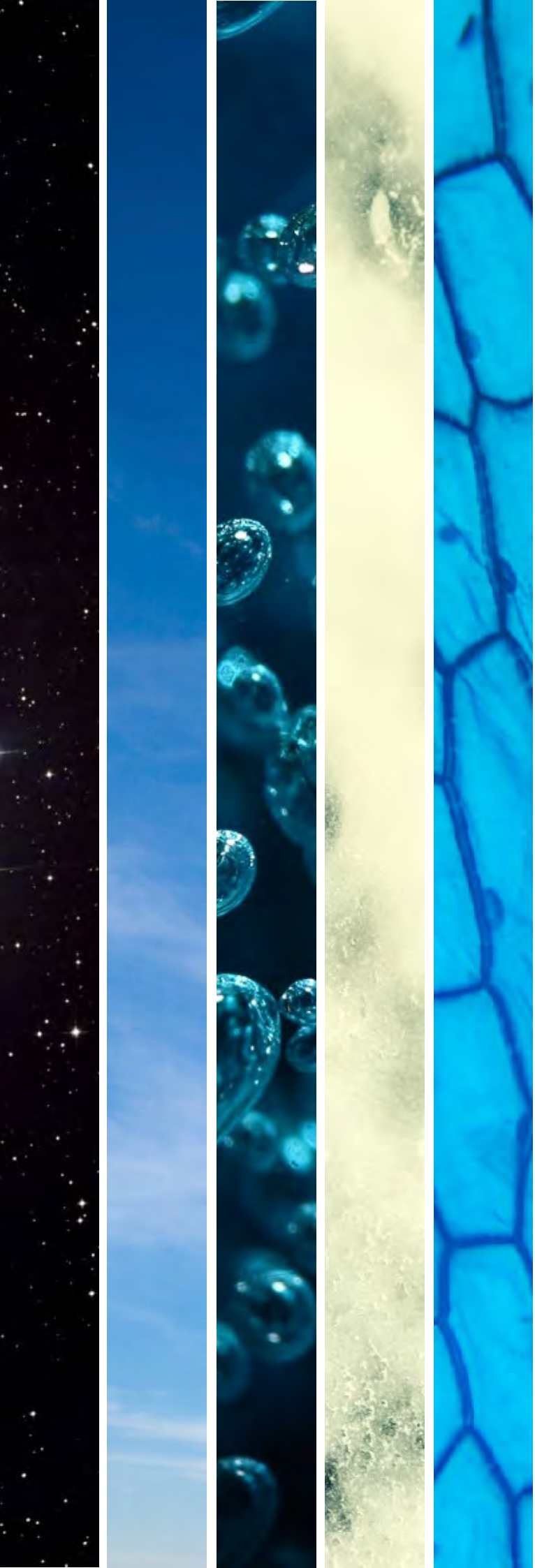


* Note: Presents the average authors/output for Physical Sciences (FoR 02) not including Astronomical and Space Sciences (FoR 0201). Astronomical and Space Sciences has an average authors/output of about 27 compared with the average of about 7 for the other four-digit FoRs in Physical Sciences.



SECTION 2

Results by Fields of Research Code



SECTION 2

Results by Fields of Research Code

01 Mathematical Sciences 61

02 Physical Sciences 67

03 Chemical Sciences 74

04 Earth Sciences 81

05 Environmental Sciences 88

06 Biological Sciences 94

07 Agricultural and Veterinary Sciences 101

08 Information and Computing Sciences 108

09 Engineering 115

10 Technology 126

11 Medical and Health Sciences 133

12 Built Environment and Design 145

13 Education 151

14 Economics 157

15 Commerce, Management, Tourism and Services 163

16 Studies in Human Society 170

17 Psychology and Cognitive Sciences 177

18 Law and Legal Studies 182

19 Studies in Creative Arts and Writing 186

20 Language, Communication and Culture 192

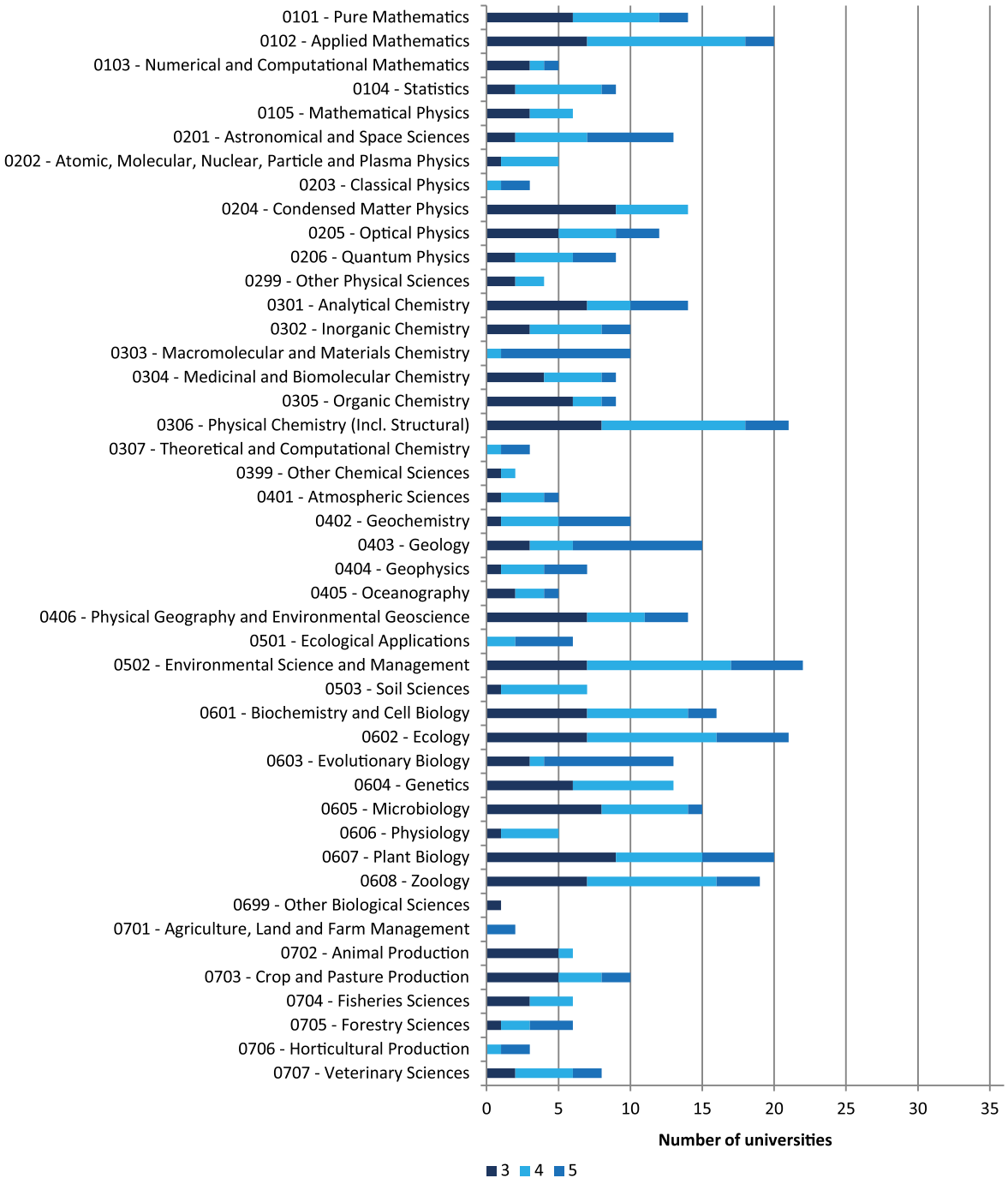
21 History and Archaeology 198

22 Philosophy and Religious Studies 204

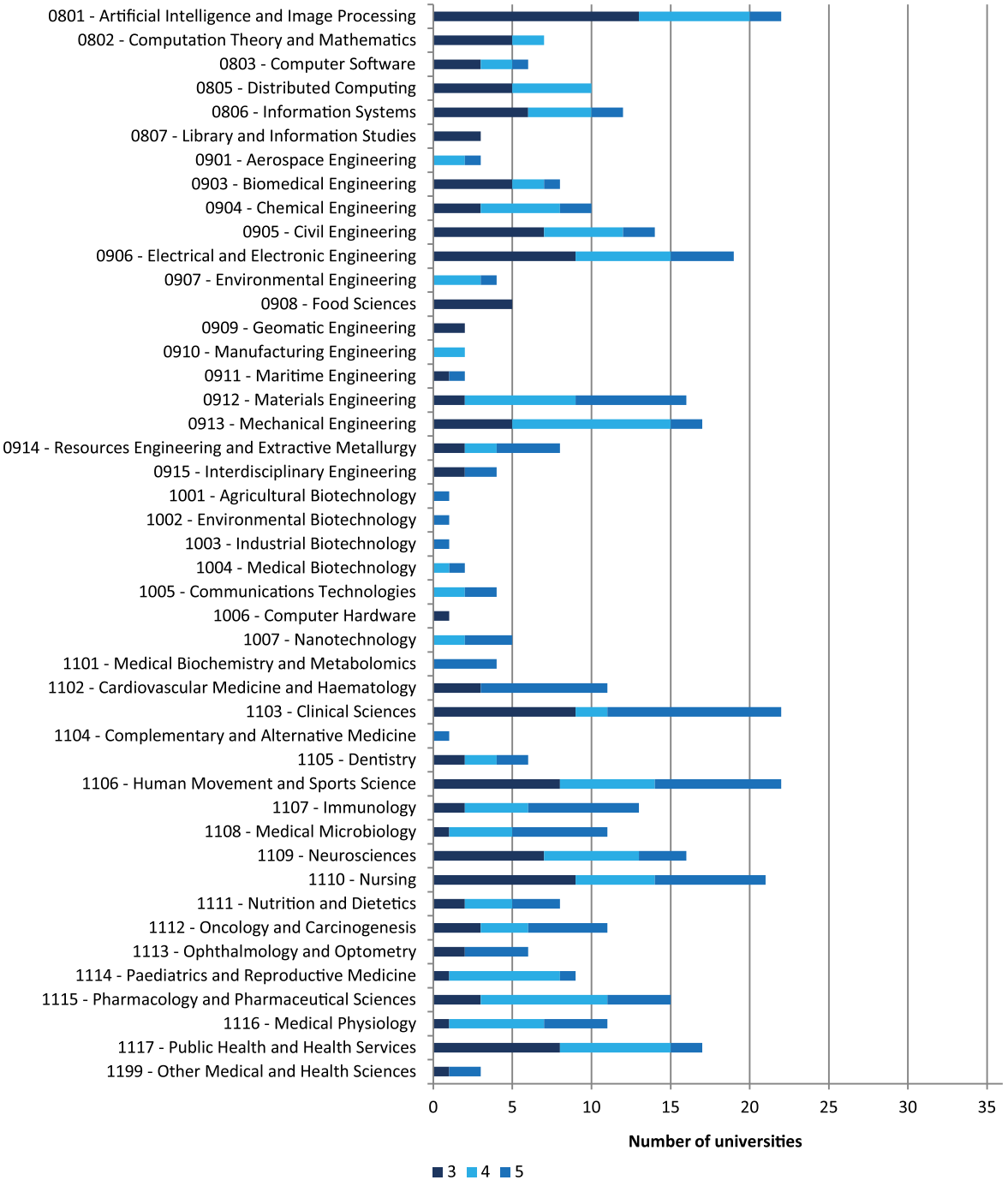
SECTION 2:
RESULTS BY FIELDS OF RESEARCH CODE

This section provides a summary of ERA 2012 results and activity by FoR code. Section 2 presents aggregate four-digit data. Two-digit evaluation data is summarised in Section 1 and Section 3.

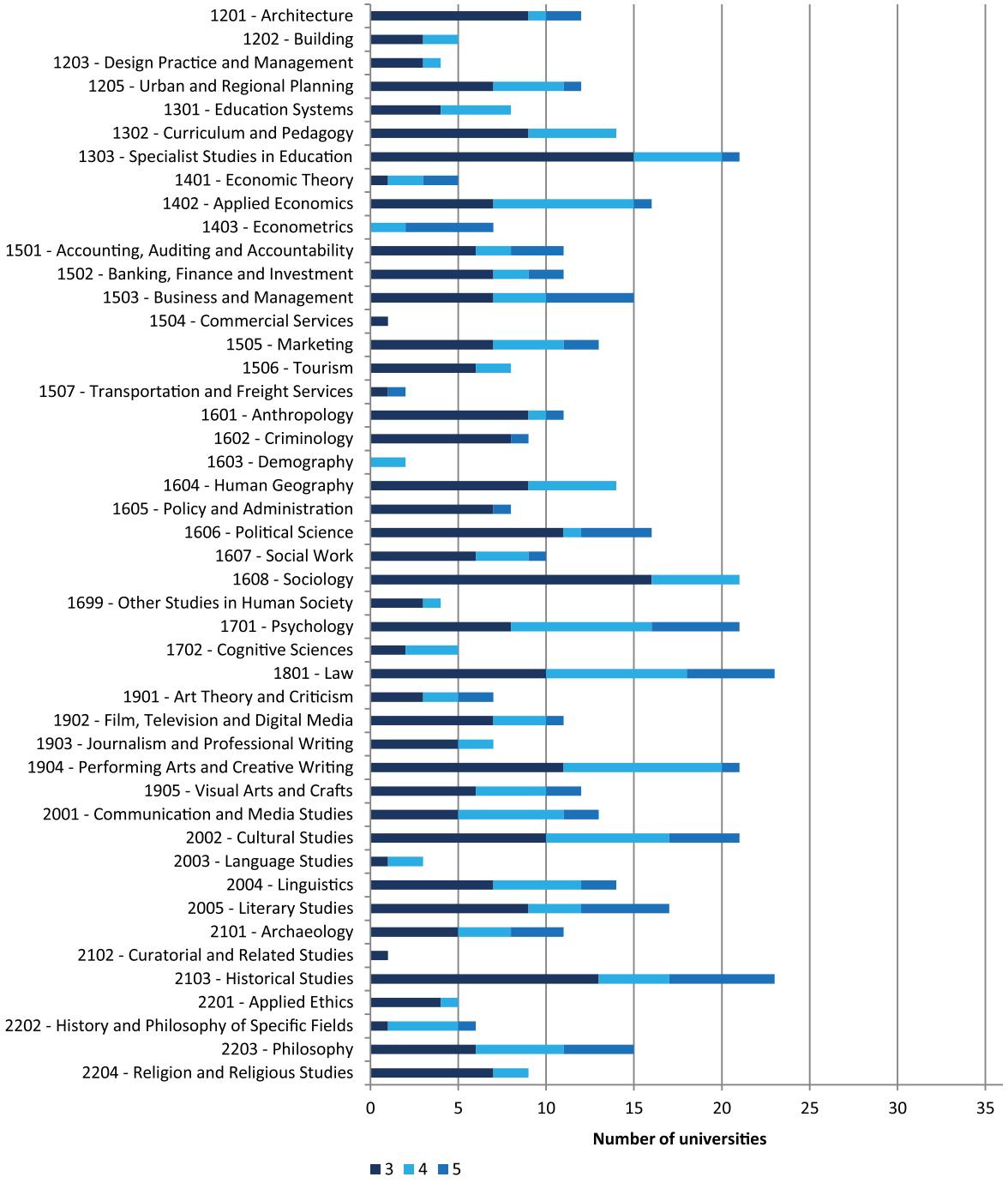
Universities with UoEs at or above world standard by rating—four-digit codes (Mathematical, Physical, Chemical and Natural Sciences)



Universities with UoEs at or above world standard by rating—four-digit codes (Computing, Engineering, Technology and Medical Sciences)



Universities with UoEs at or above world standard by rating—four-digit codes (Humanities and Social Sciences)



Guide to Section 2

54 out of 60 of the assessed Mathematical Sciences four-digit UoEs received ratings of 3, 4 or 5.

01 Mathematical Sciences		54 out of 60 assessed UoEs were rated at or above world standard	
FTEs	882.6	Rating	Distribution
Research outputs	10,233.9	5	6
Research income	$131,544,129	4	27
UoEs assessed	60	3	21
Esteem count	130.2	2	5
Patents	5.2	1	1
Research commercialisation income	$27,119,434	**Total**	**60**

21 UoEs received a rating of 3.

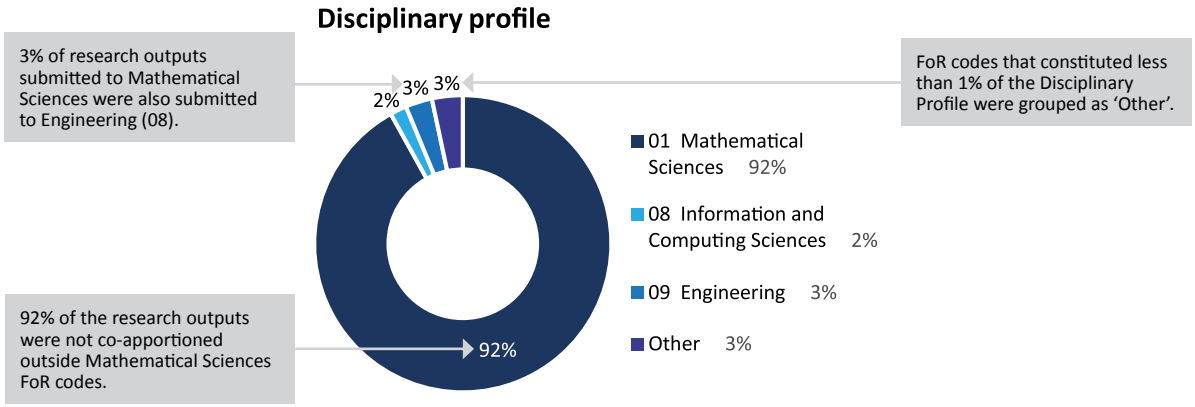
Summary of data submitted to four-digit Mathematical Sciences codes.

A total of 60 UoEs were assessed for Mathematical Sciences at the four-digit FoR code level.

Note: Where an indicator does not apply to a particular discipline, '-' is shown. '0' represents that the indicator applies to the discipline, but no data was submitted.

Disciplinary profile

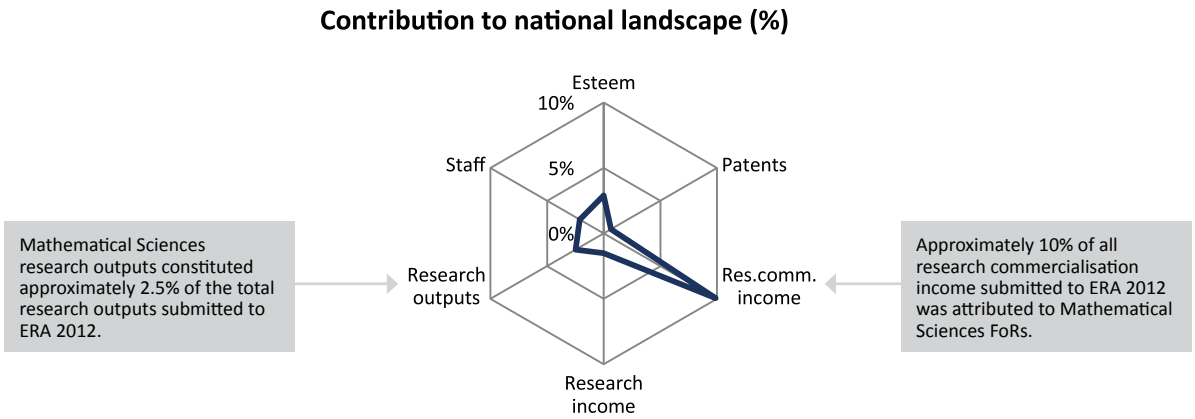
The disciplinary profile shows the percentage of research outputs coded to Mathematical Sciences codes that were also submitted (apportioned) to other FoR codes outside Mathematical Sciences.

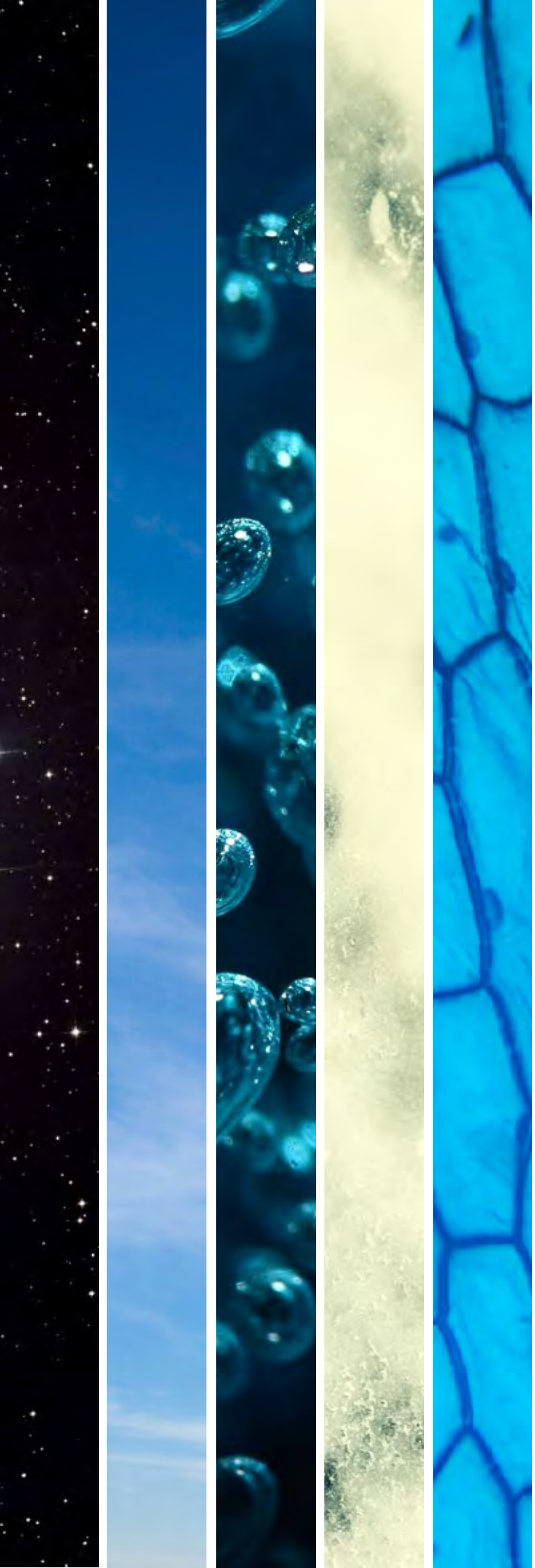


Note: Due to rounding, percentages may not sum to 100 per cent.

Contribution to national landscape (%)

This chart shows research activity attributed to Mathematical Sciences as a proportion of total research activity submitted to all FoR codes in ERA 2012.





01 Mathematical Sciences

Mathematical Sciences is comprised of the following four-digit codes:

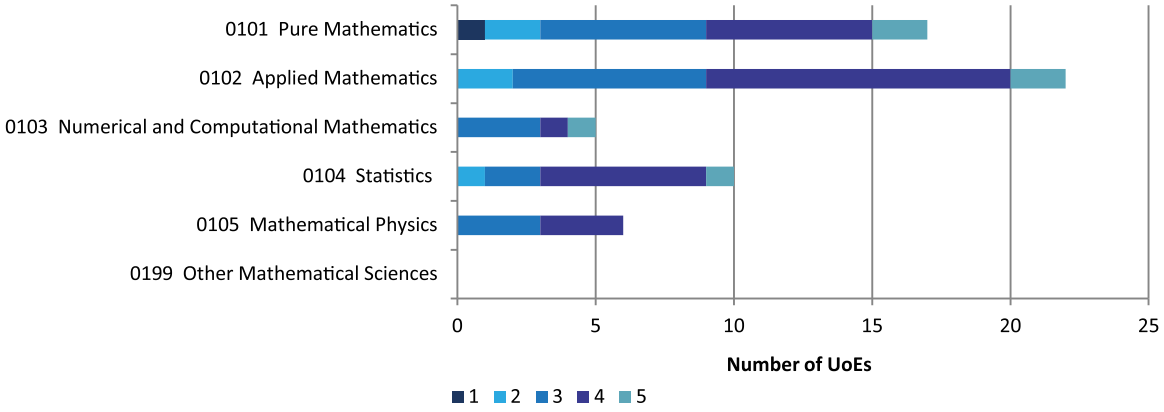
01	**Mathematical Sciences**	**62**
0101	Pure Mathematics	65
0102	Applied Mathematics	65
0103	Numerical and Computational Mathematics	65
0104	Statistics	66
0105	Mathematical Physics	66
0199	Other Mathematical Sciences	66

01 Mathematical Sciences			54 out of 60 assessed UoEs were rated at or above world standard	
FTEs	882.6		Rating	Distribution
Research outputs	10,233.9		5	6
Research income	$131,544,129		4	27
UoEs assessed	60		3	21
Esteem count	130.2		2	5
Patents	5.2		1	1
Research commercialisation income	$27,119,434		**Total**	**60**

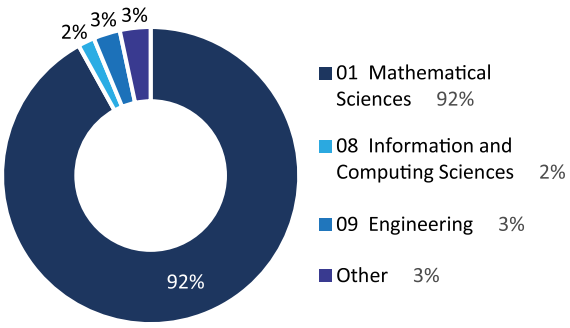
FoR overview

Mathematical Sciences (01) accounted for approximately 3% of the research outputs submitted to ERA 2012. The most common research output type in Mathematical Sciences was journal articles. Approximately 8% of Mathematical Sciences research outputs were co-apportioned to codes outside of Mathematical Sciences, with around 2% also submitted to Information and Computing Sciences (08) and 3% to Engineering (09). The staffing profile shows similar staffing levels and spread for Pure Mathematics (0101), Applied Mathematics (0102), and Statistics (0104). Research commercialisation income was particularly strong in Applied Mathematics (0102).

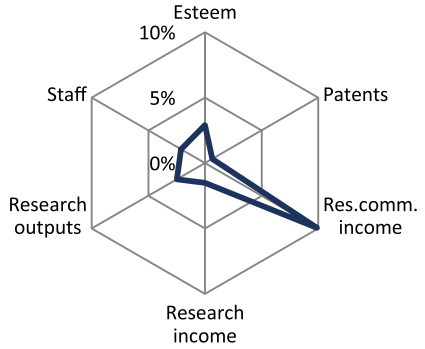
Number of UoEs per rating scale score



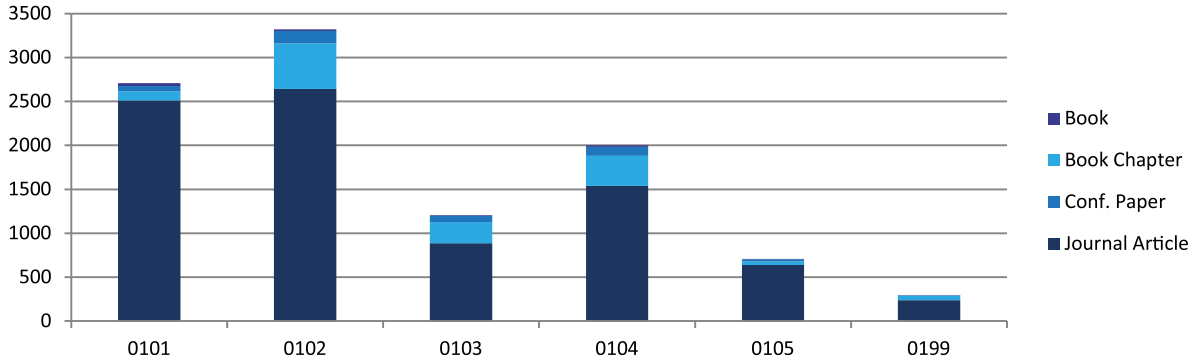
Disciplinary profile



Contribution to national landscape (%)

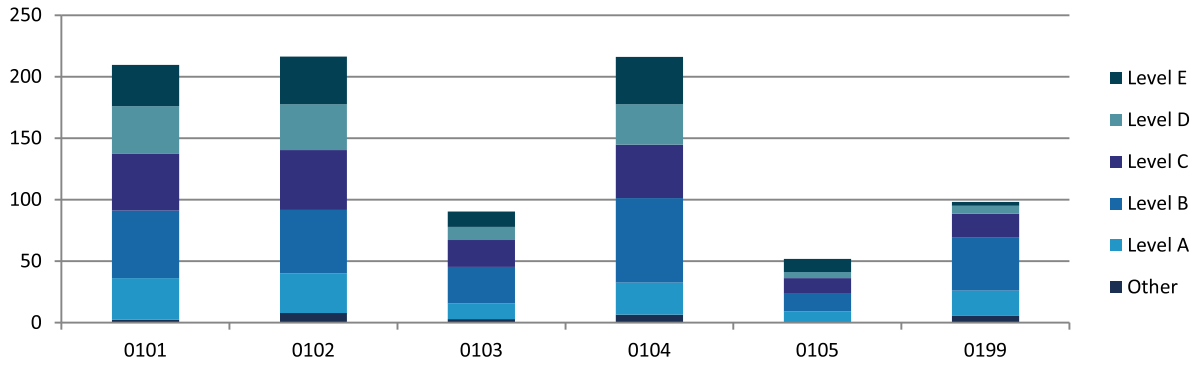


Research outputs submitted by type



FoR code		Book	Book Chapter	Conf. Paper	Journal Article	Total
0101	Pure Mathematics	31.5	62.2	103.2	2,510.4	2,707.3
0102	Applied Mathematics	18.2	141.6	518.0	2,641.3	3,319.1
0103	Numerical and Computational Mathematics	8.4	72.7	239.6	886.2	1,206.9
0104	Statistics	18.0	99.4	344.8	1,537.9	2,000.1
0105	Mathematical Physics	1.0	26.9	39.4	638.4	705.7
0199	Other Mathematical Sciences	3.5	3.5	48.0	239.8	294.8
Total		80.6	406.3	1,293.0	8,454.0	10,233.9

Staffing profile by academic level

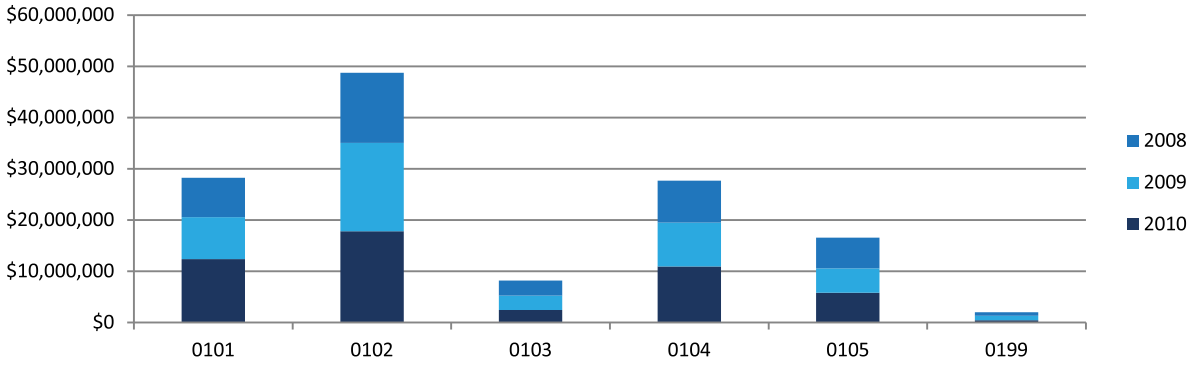


FoR code		Level E	Level D	Level C	Level B	Level A	Other	Total
0101	Pure Mathematics	33.7	38.7	45.9	54.9	34.0	2.4	209.6
0102	Applied Mathematics	38.7	37.2	48.6	51.6	32.3	7.9	216.3
0103	Numerical and Computational Mathematics	12.5	10.5	22.0	29.5	12.8	3.0	90.3
0104	Statistics	38.6	32.8	43.3	68.7	26.0	6.7	216.1
0105	Mathematical Physics	10.7	4.9	12.9	14.4	8.8	0.3	52.0
0199	Other Mathematical Sciences	3.2	6.5	19.0	43.5	20.4	5.7	98.3
Total		137.4	130.6	191.7	262.6	134.3	26.0	882.6

Patent profile

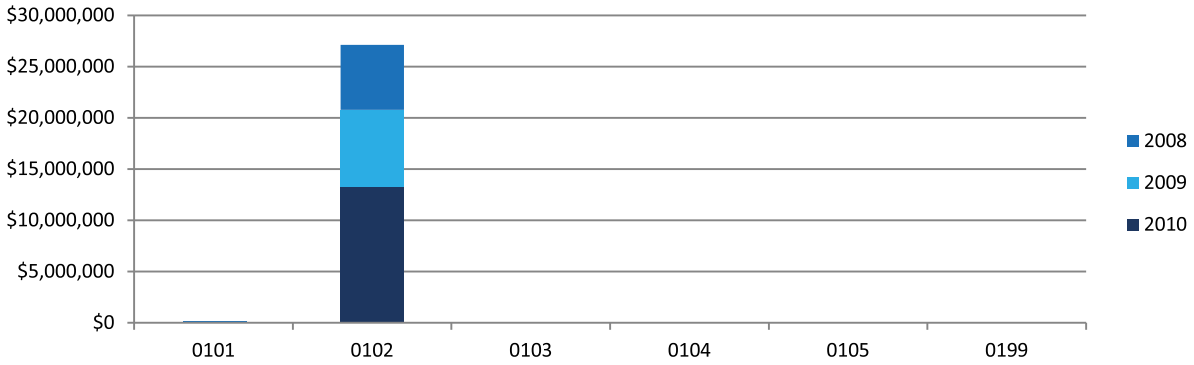
FoR code		Australia	USA	Europe	Japan	Other Int'l	Triadic	Total
0101	Pure Mathematics	0.0	0.4	0.4	0.0	0.4	0.0	1.2
0102	Applied Mathematics	1.0	0.2	0.0	0.0	0.0	0.0	1.2
0103	Numerical and Computational Mathematics	0.0	0.8	0.0	0.0	0.0	0.0	0.8
0104	Statistics	0.0	2.0	0.0	0.0	0.0	0.0	2.0
0105	Mathematical Physics	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0199	Other Mathematical Sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total		1.0	3.4	0.4	0.0	0.4	0.0	5.2

Research income by year—all categories ($)



FoR code		2008	2009	2010	Total
0101	Pure Mathematics	$7,646,160	$8,200,404	$12,391,511	$28,238,075
0102	Applied Mathematics	$13,685,861	$17,277,841	$17,800,962	$48,764,664
0103	Numerical and Computational Mathematics	$2,923,980	$2,820,277	$2,457,450	$8,201,707
0104	Statistics	$8,202,357	$8,538,637	$10,962,842	$27,703,836
0105	Mathematical Physics	$6,010,311	$4,729,970	$5,848,691	$16,588,972
0199	Other Mathematical Sciences	$706,498	$857,550	$482,827	$2,046,875
Total		$39,175,167.0	$42,424,679.0	$49,944,283.0	$131,544,129.0

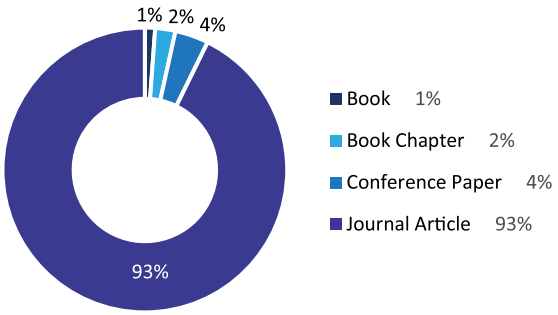
Research commercialisation income by year ($)



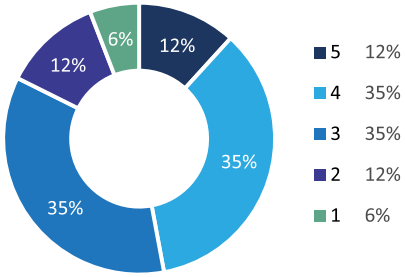
FoR code		2008	2009	2010	Total
0101	Pure Mathematics	$1,202	$0	$0	$1,202
0102	Applied Mathematics	$6,346,551	$7,470,293	$13,301,388	$27,118,232
0103	Numerical and Computational Mathematics	$0	$0	$0	$0
0104	Statistics	$0	$0	$0	$0
0105	Mathematical Physics	$0	$0	$0	$0
0199	Other Mathematical Sciences	$0	$0	$0	$0
Total		$6,347,753	$7,470,293	$13,301,388	$27,119,434

0101 Pure Mathematics		14 out of 17 assessed UoEs were rated at or above world standard	
FTEs	209.6	Rating	Distribution
Research outputs	2,707.3	5	2
Research income	$28,238,075	4	6
UoEs assessed	17	3	6
Esteem count	59.1	2	2
Patents	1.2	1	1
Research commercialisation income	$1,202	**Total**	**17**

Research outputs by type

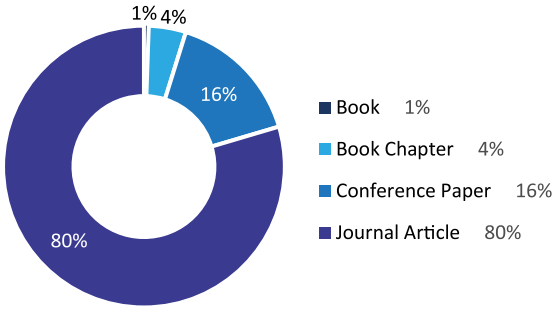


FoR rating distribution

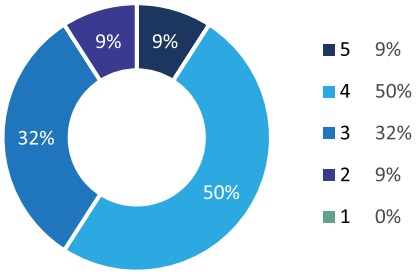


0102 Applied Mathematics		20 out of 22 assessed UoEs were rated at or above world standard	
FTEs	216.3	Rating	Distribution
Research outputs	3,319.1	5	2
Research income	$48,764,664	4	11
UoEs assessed	22	3	7
Esteem count	31.1	2	2
Patents	1.2	1	0
Research commercialisation income	$27,118,232	**Total**	**22**

Research outputs by type

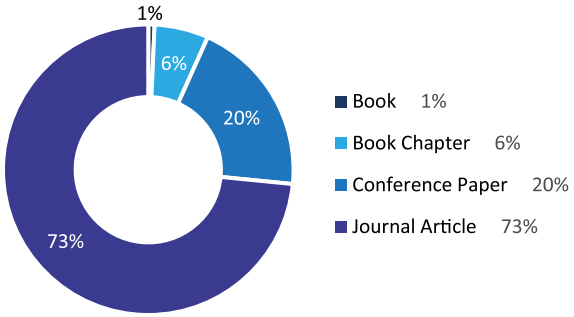


FoR rating distribution

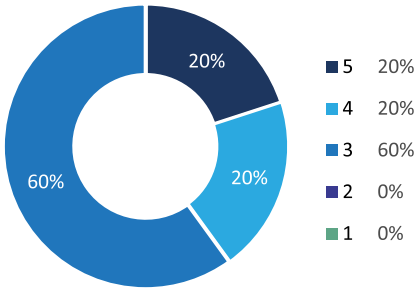


0103 Numerical and Computational Mathematics		5 out of 5 assessed UoEs were rated at or above world standard	
FTEs	90.3	Rating	Distribution
Research outputs	1,206.9	5	1
Research income	$8,201,707	4	1
UoEs assessed	5	3	3
Esteem count	6.3	2	0
Patents	0.8	1	0
Research commercialisation income	$0	**Total**	**5**

Research outputs by type

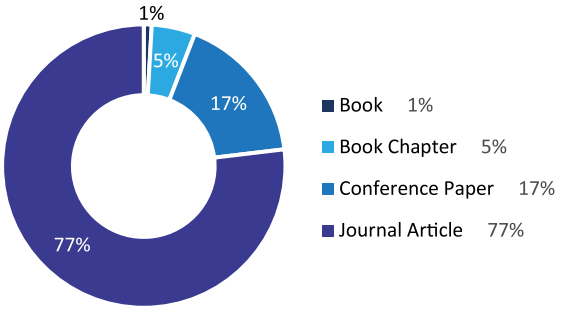


FoR rating distribution

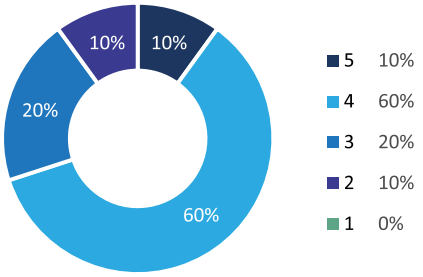


0104 Statistics			9 out of 10 assessed UoEs were rated at or above world standard	
FTEs	216.1		Rating	Distribution
Research outputs	2,000.1		5	1
Research income	$27,703,836		4	6
UoEs assessed	10		3	2
Esteem count	22.5		2	1
Patents	2.0		1	0
Research commercialisation income	$0		**Total**	**10**

Research outputs by type

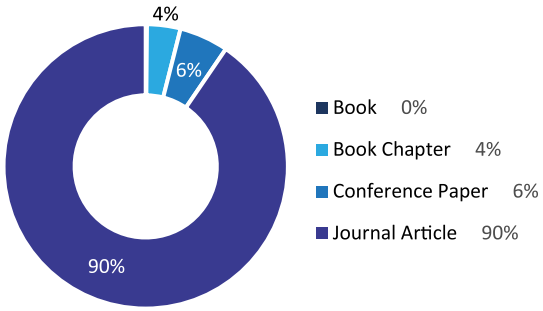


FoR rating distribution

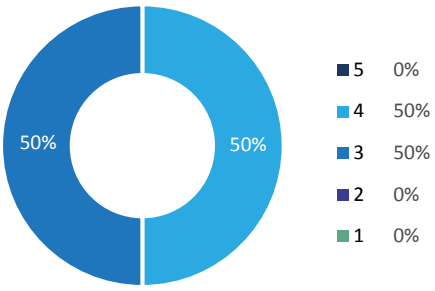


0105 Mathematical Physics			6 out of 6 assessed UoEs were rated at or above world standard	
FTEs	52.0		Rating	Distribution
Research outputs	705.7		5	0
Research income	$16,588,972		4	3
UoEs assessed	6		3	3
Esteem count	11.2		2	0
Patents	0.0		1	0
Research commercialisation income	$0		**Total**	**6**

Research outputs by type

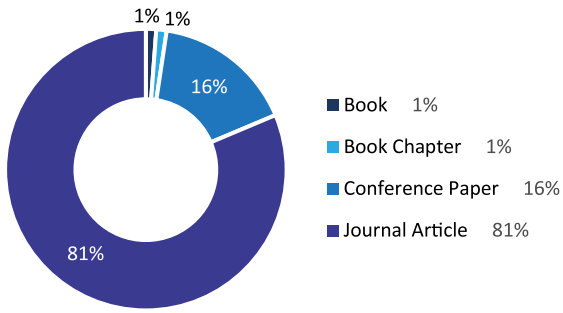


FoR rating distribution

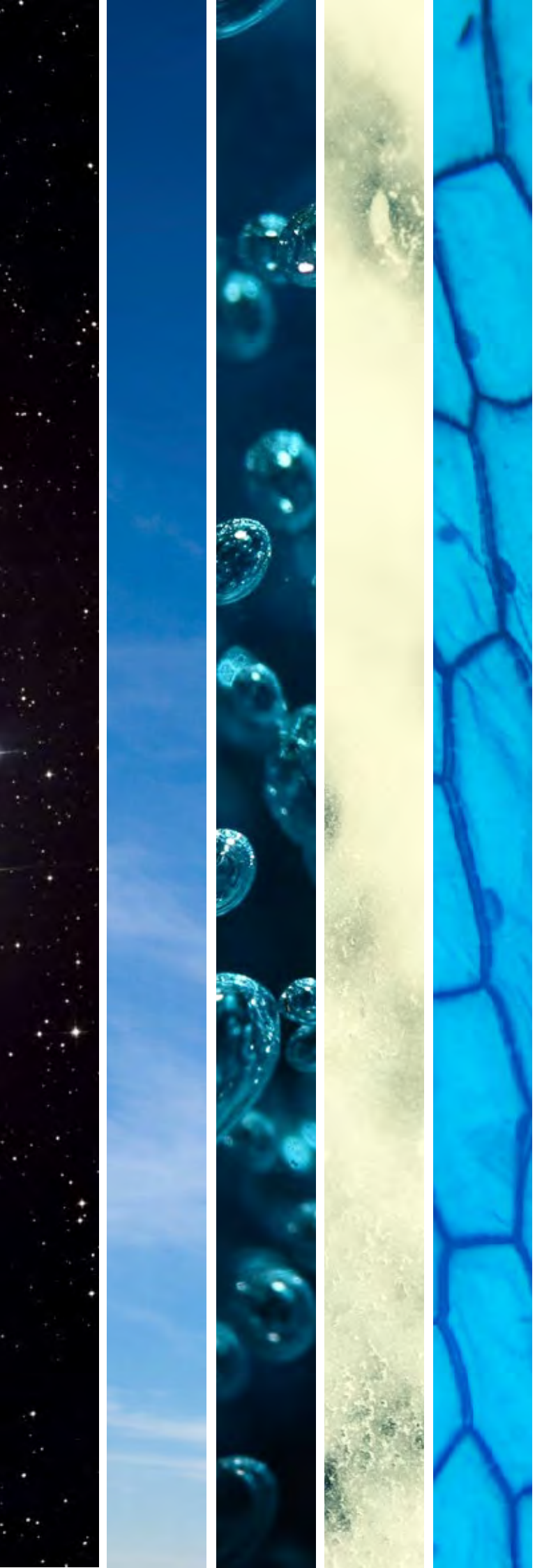


0199 Other Mathematical Sciences			0 UoEs were assessed in this FoR	
FTEs	98.3		Rating	Distribution
Research outputs	294.8		5	0
Research income	$2,046,875		4	0
UoEs assessed	0		3	0
Esteem count	0.0		2	0
Patents	0.0		1	0
Research commercialisation income	$0		**Total**	**0**

Research outputs by type



Note: There is no FoR rating distribution for 0199



02 Physical Sciences

Physical Sciences is comprised of the following four-digit codes:

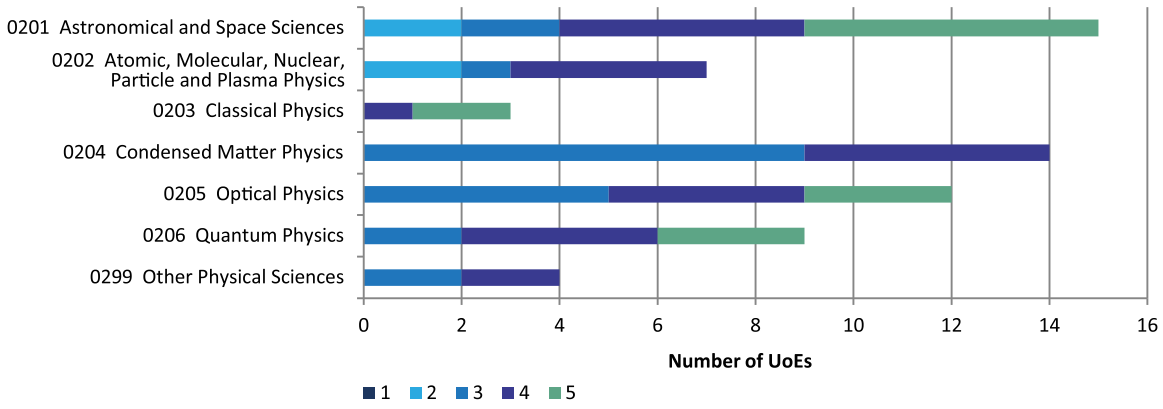
02	**Physical Sciences**	**68**
0201	Astronomical and Space Sciences	71
0202	Atomic, Molecular, Nuclear, Particle and Plasma Physics	71
0203	Classical Physics	71
0204	Condensed Matter Physics	72
0205	Optical Physics	72
0206	Quantum Physics	72
0299	Other Physical Sciences	73

02 Physical Sciences		60 out of 64 assessed UoEs were rated at or above world standard	
FTEs	1,052.8	Rating	Distribution
Research outputs	16,272.8	5	14
Research income	$245,768,684	4	25
UoEs assessed	64	3	21
Esteem count	220.6	2	4
Patents	58.6	1	0
Research commercialisation income	$1,146,239	**Total**	**64**

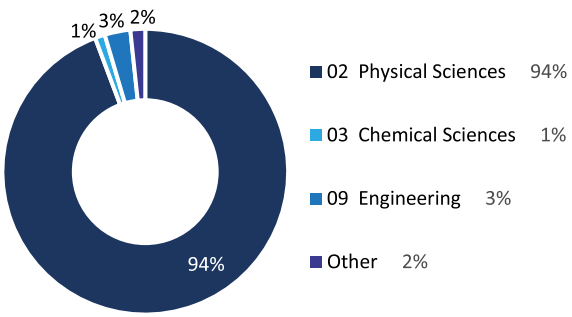
FoR overview

Physical Sciences (02) accounted for approximately 4% of the research outputs submitted to ERA 2012. The majority of Physical Sciences outputs were journal articles. Of the approximately 6% of research outputs that were co-apportioned to codes outside of Physical Sciences, 3% were coded to Engineering (09) and 1% to Chemical Sciences (03). Almost 8% of the patents submitted to ERA 2012 were in Physical Sciences (02). Astronomical and Space Sciences (0201) has both the highest staffing levels and highest numbers of research outputs. Optical Physics (0205) had the highest income levels.

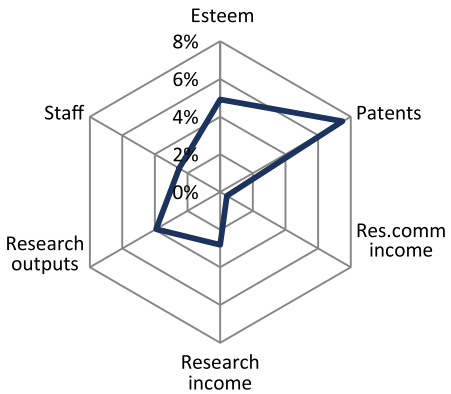
Number of UoEs per rating scale score



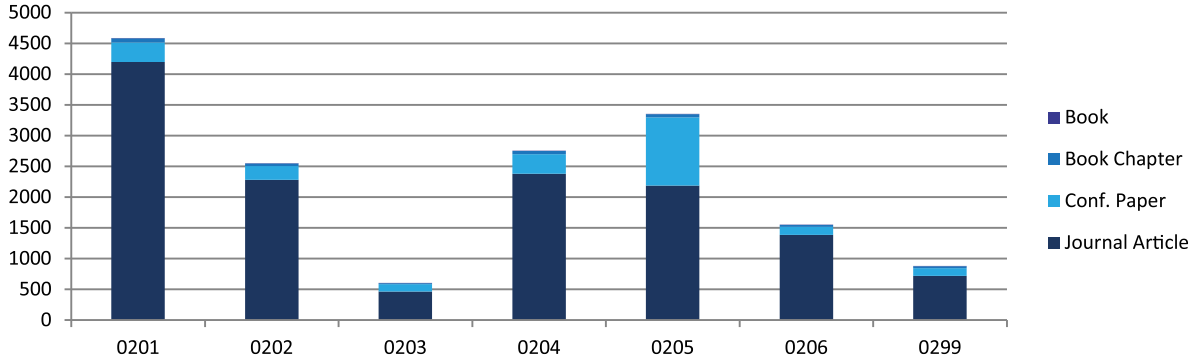
Disciplinary profile



Contribution to national landscape (%)

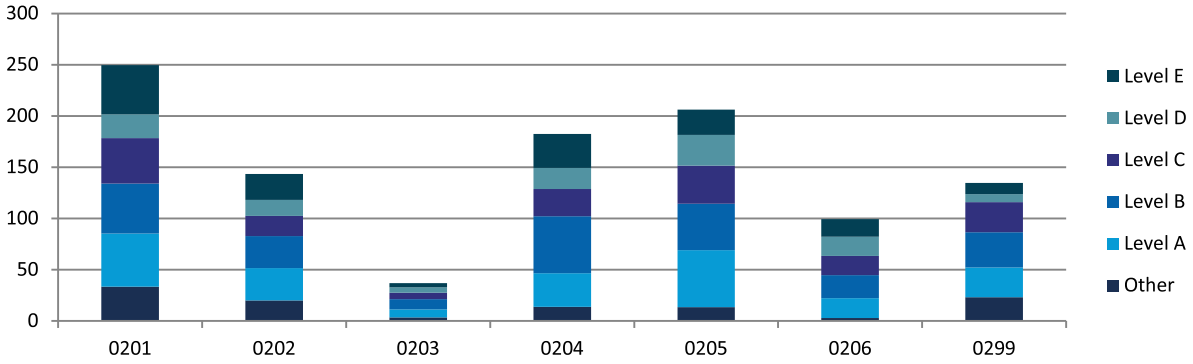


Research outputs submitted by type



FoR code		Book	Book Chapter	Conference Paper	Journal Article	Total
0201	Astronomical and Space Sciences	3.0	69.1	317.4	4,197.6	4,587.1
0202	Atomic, Molecular, Nuclear, Particle and Plasma Physics	6.5	37.8	227.0	2,280.0	2,551.3
0203	Classical Physics	1.0	14.2	117.9	467.5	600.6
0204	Condensed Matter Physics	4.0	51.8	314.6	2,381.3	2,751.7
0205	Optical Physics	5.2	55.0	1,105.6	2,189.8	3,355.6
0206	Quantum Physics	3.0	29.5	129.5	1,386.5	1,548.5
0299	Other Physical Sciences	2.1	32.1	124.6	719.2	878.0
Total		24.8	289.5	2,336.6	13,621.9	16,272.8

Staffing profile by academic level

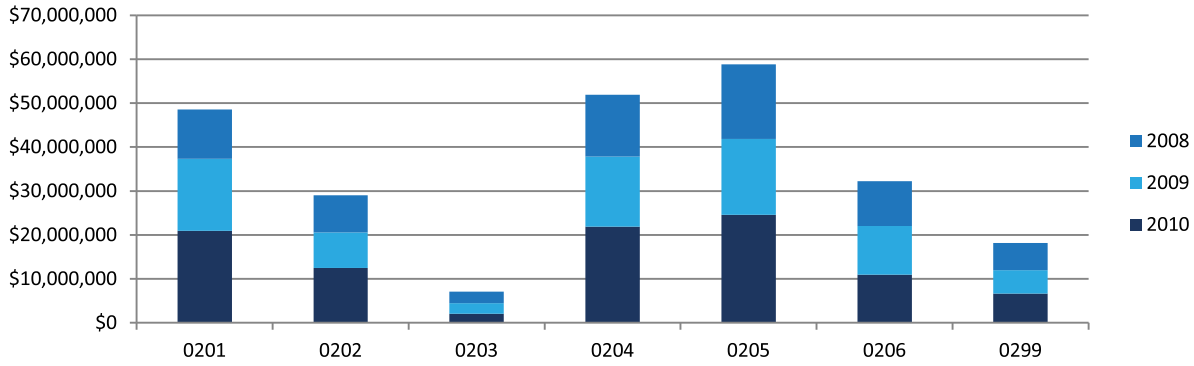


FoR code		Level E	Level D	Level C	Level B	Level A	Other	Total
0201	Astronomical and Space Sciences	48.0	23.3	44.3	48.6	51.7	33.7	249.6
0202	Atomic, Molecular, Nuclear, Particle and Plasma Physics	25.2	15.4	19.8	31.3	31.5	20.1	143.3
0203	Classical Physics	4.3	5.2	6.3	9.9	7.7	3.7	37.1
0204	Condensed Matter Physics	33.2	20.5	26.7	55.5	32.8	13.8	182.5
0205	Optical Physics	24.7	29.9	37.2	45.1	55.8	13.5	206.2
0206	Quantum Physics	17.2	18.7	18.7	22.7	19.1	3.1	99.5
0299	Other Physical Sciences	10.8	7.8	29.5	34.2	28.9	23.4	134.6
Total		163.4	120.8	182.5	247.3	227.5	111.3	1,052.8

Patent profile

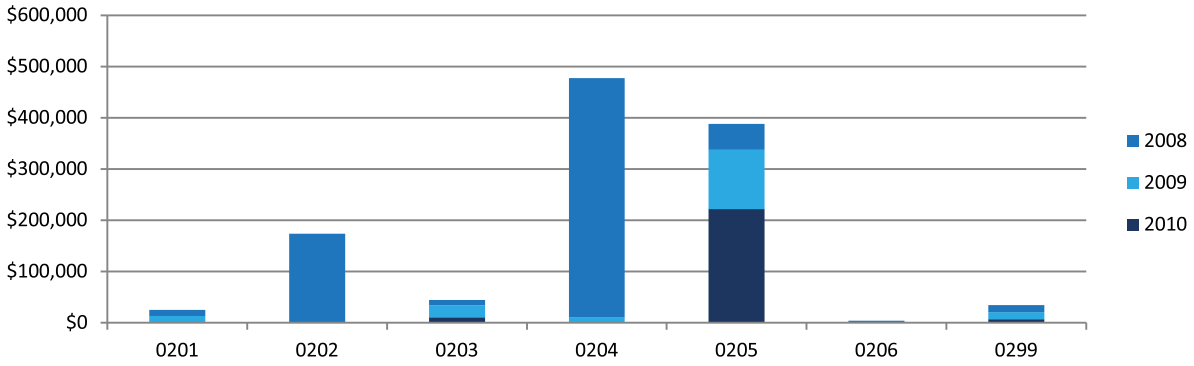
FoR code		Australia	USA	Europe	Japan	Other Int'l	Triadic	Total
0201	Astronomical and Space Sciences	0.0	15.0	0.0	0.0	0.0	0.0	15.0
0202	Atomic, Molecular, Nuclear, Particle and Plasma Physics	0.0	0.0	0.0	1.0	0.0	0.0	1.0
0203	Classical Physics	0.2	0.0	0.0	0.0	0.3	0.0	0.5
0204	Condensed Matter Physics	4.2	3.3	1.0	3.0	9.0	0.0	20.5
0205	Optical Physics	4.3	10.5	1.0	0.0	4.8	0.0	20.6
0206	Quantum Physics	0.6	0.4	0.0	0.0	0.0	0.0	1.0
0299	Other Physical Sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total		9.3	29.2	2.0	4.0	14.1	0.0	58.6

Research income by year—all categories ($)



FoR code		2008	2009	2010	Total
0201	Astronomical and Space Sciences	$11,204,812	$16,408,182	$20,936,321	$48,549,315
0202	Atomic, Molecular, Nuclear, Particle and Plasma Physics	$8,484,971	$8,075,632	$12,472,180	$29,032,783
0203	Classical Physics	$2,622,155	$2,349,771	$2,103,022	$7,074,948
0204	Condensed Matter Physics	$14,077,823	$15,894,480	$21,921,864	$51,894,167
0205	Optical Physics	$17,010,263	$17,252,603	$24,576,606	$58,839,472
0206	Quantum Physics	$10,184,990	$11,086,673	$10,940,069	$32,211,732
0299	Other Physical Sciences	$6,170,617	$5,327,228	$6,668,422	$18,166,267
Total		$69,755,631	$76,394,569	$99,618,484	$245,768,684

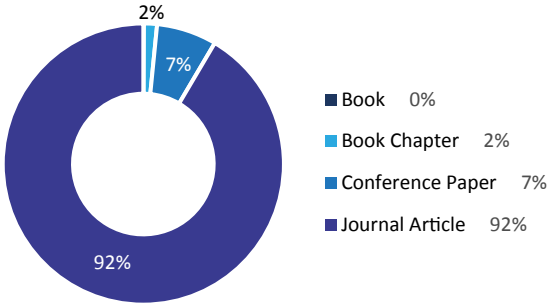
Research commercialisation income by year ($)



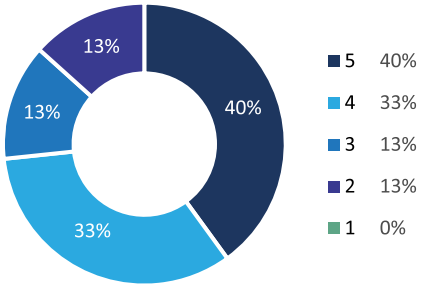
FoR code		2008	2009	2010	Total
0201	Astronomical and Space Sciences	$11,902	$13,240	$0	$25,142
0202	Atomic, Molecular, Nuclear, Particle and Plasma Physics	$173,906	$0	$0	$173,906
0203	Classical Physics	$10,656	$23,116	$11,107	$44,879
0204	Condensed Matter Physics	$466,838	$10,123	$381	$477,342
0205	Optical Physics	$50,166	$115,700	$222,043	$387,909
0206	Quantum Physics	$1,588	$0	$1,143	$2,731
0299	Other Physical Sciences	$13,729	$13,737	$6,864	$34,330
Total		$728,785	$175,916	$241,538	$1,146,239

0201 Astronomical and Space Sciences		13 out of 15 assessed UoEs were rated at or above world standard	
FTEs	249.6	Rating	Distribution
Research outputs	4,587.1	5	6
Research income	$48,549,315	4	5
UoEs assessed	15	3	2
Esteem count	43,3	2	2
Patents	15.0	1	0
Research commercialisation income	$25,142	**Total**	**15**

Research outputs by type

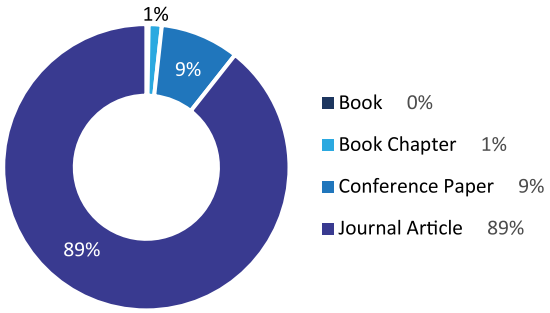


FoR rating distribution

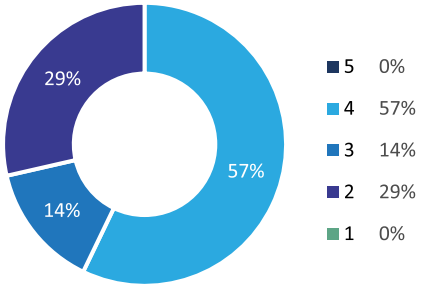


0202 Atomic, Molecular, Nuclear, Particle and Plasma Physics		5 out of 7 assessed UoEs were rated at or above world standard	
FTEs	143.3	Rating	Distribution
Research outputs	2,551.3	5	0
Research income	$29,032,783	4	4
UoEs assessed	7	3	1
Esteem count	30.4	2	2
Patents	1.0	1	0
Research commercialisation income	$173,906	**Total**	**7**

Research outputs by type

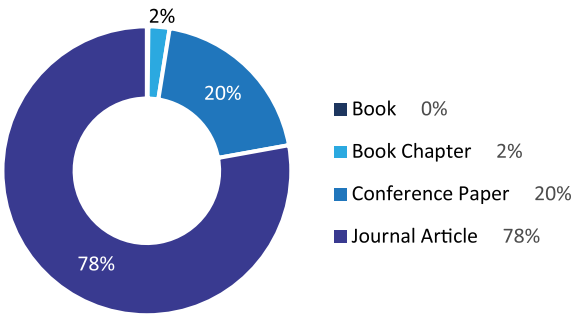


FoR rating distribution

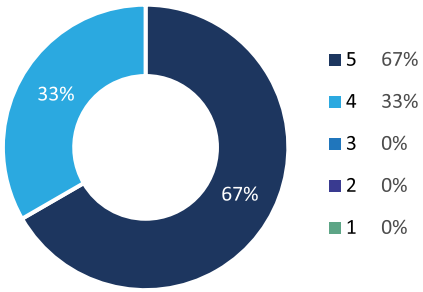


0203 Classical Physics		3 out of 3 assessed UoEs were rated at or above world standard	
FTEs	37.1	Rating	Distribution
Research outputs	600.6	5	2
Research income	$7,074,948	4	1
UoEs assessed	3	3	0
Esteem count	6.1	2	0
Patents	0.5	1	0
Research commercialisation income	$44,879	**Total**	**3**

Research outputs by type

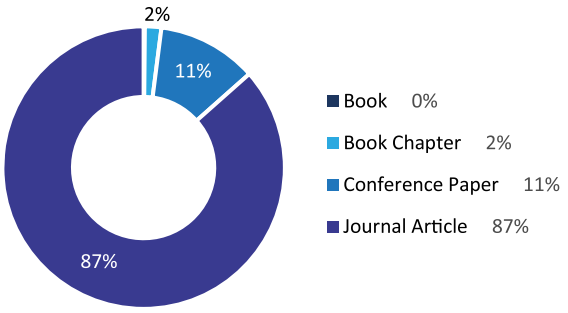


FoR rating distribution

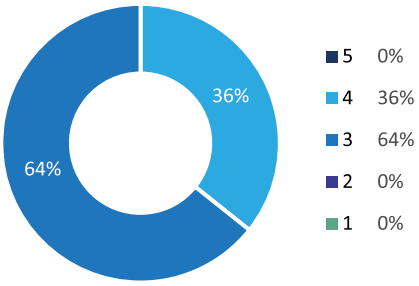


0204 Condensed Matter Physics		14 out of 14 assessed UoEs were rated at or above world standard	
FTEs	182.5	Rating	Distribution
Research outputs	2,751.7	5	0
Research income	$51,894,167	4	5
UoEs assessed	14	3	9
Esteem count	48.6	2	0
Patents	20.5	1	0
Research commercialisation income	$477,342	**Total**	**14**

Research outputs by type

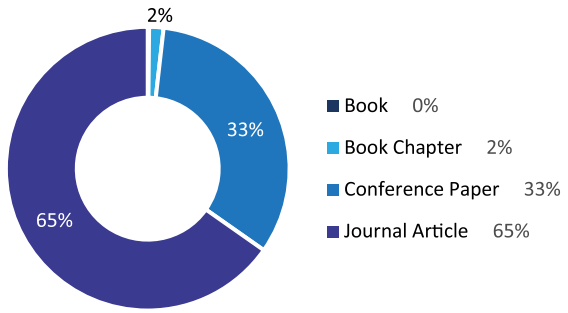


FoR rating distribution

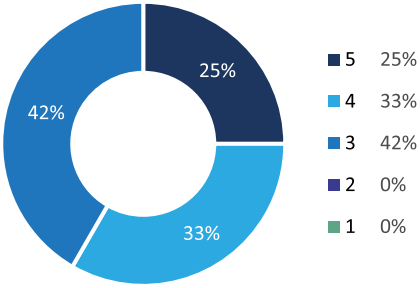


0205 Optical Physics		12 out of 12 assessed UoEs were rated at or above world standard	
FTEs	206.2	Rating	Distribution
Research outputs	3,355.6	5	3
Research income	$58,839,472	4	4
UoEs assessed	12	3	5
Esteem count	47.4	2	0
Patents	20.6	1	0
Research commercialisation income	$387,909	**Total**	**12**

Research outputs by type

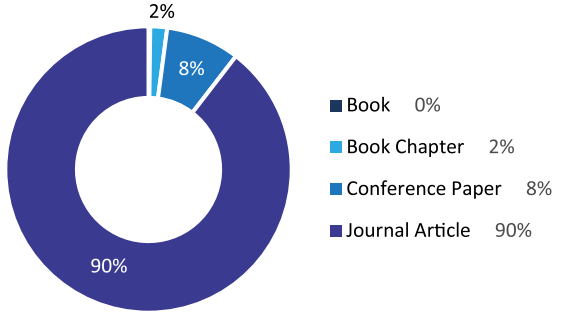


FoR rating distribution

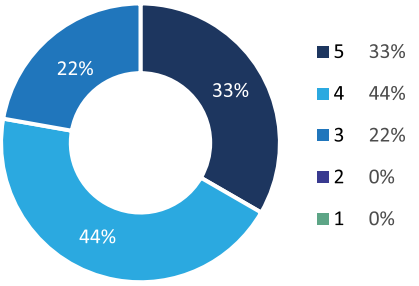


0206 Quantum Physics		9 out of 9 assessed UoEs were rated at or above world standard	
FTEs	99.5	Rating	Distribution
Research outputs	1,548.5	5	3
Research income	$32,211,732	4	4
UoEs assessed	9	3	2
Esteem count	34.8	2	0
Patents	1.0	1	0
Research commercialisation income	$2,731	**Total**	**9**

Research outputs by type

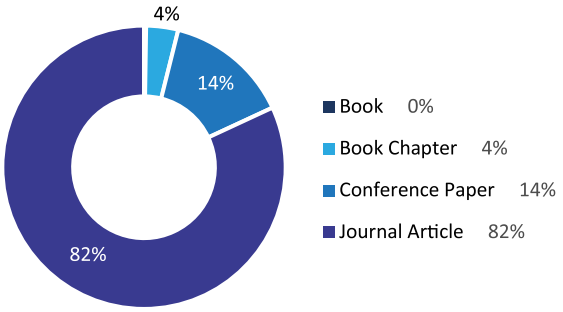


FoR rating distribution

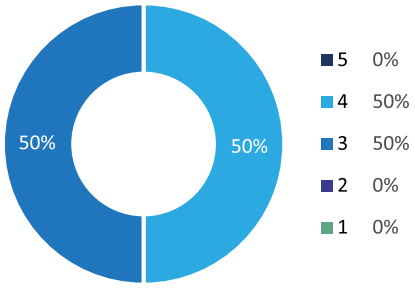


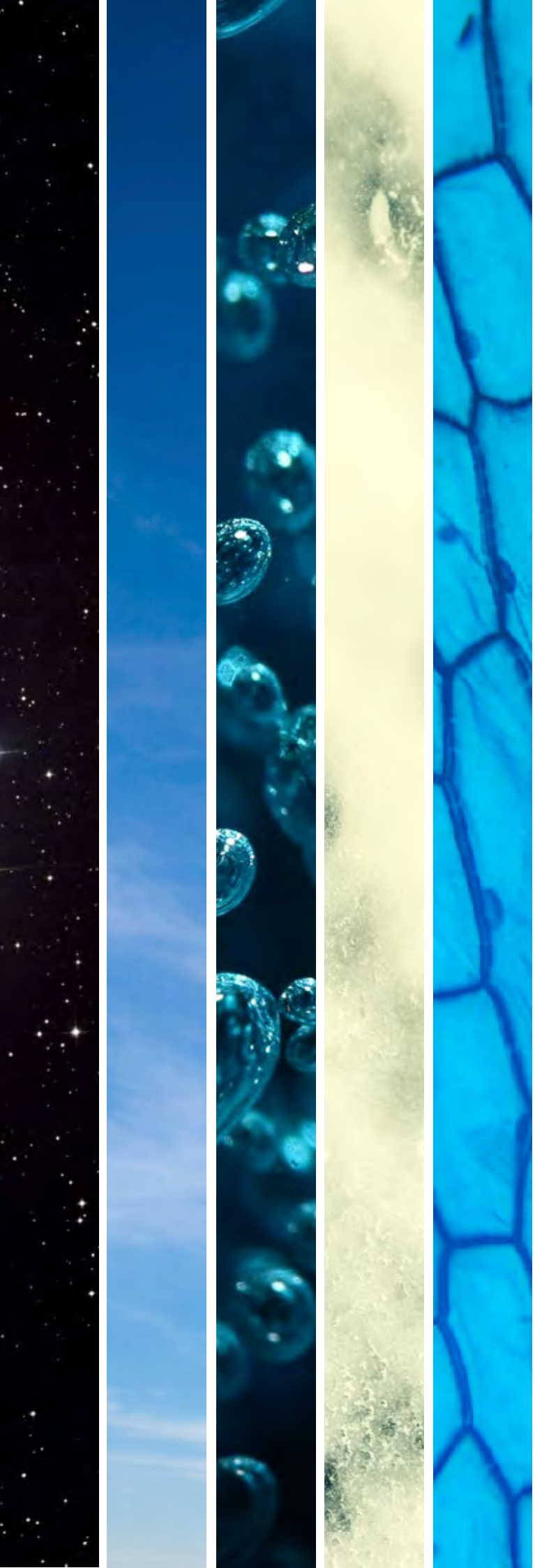
0299 Other Physical Sciences		4 out of 4 assessed UoEs were rated at or above world standard	
FTEs	134.6	Rating	Distribution
Research outputs	878	5	0
Research income	$18,166,267	4	2
UoEs assessed	4	3	2
Esteem count	10	2	0
Patents	0.0	1	0
Research commercialisation income	$34,330	**Total**	**4**

Research outputs by type



FoR rating distribution





03 Chemical Sciences

Chemical Sciences is comprised of the following four-digit codes:

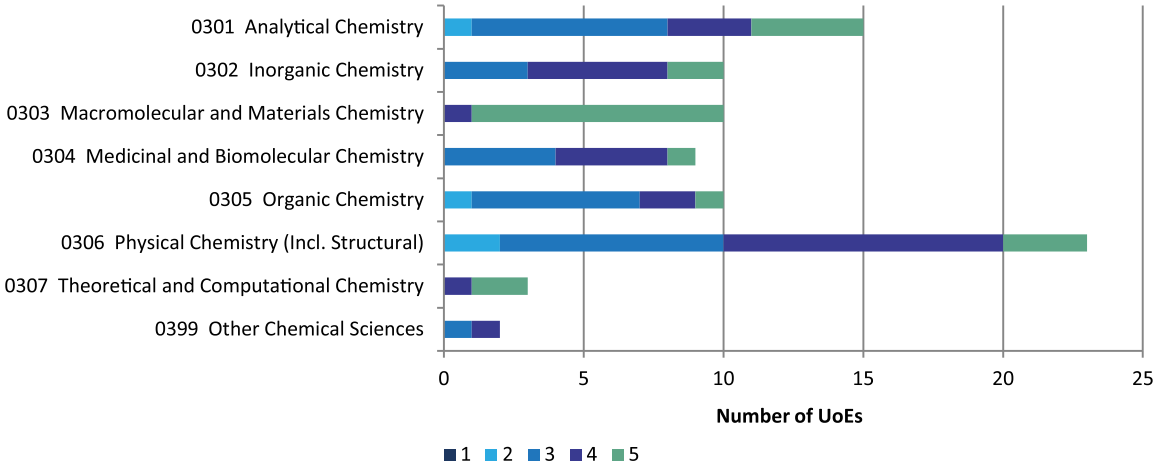
03	**Chemical Sciences**	**75**
0301	Analytical Chemistry	78
0302	Inorganic Chemistry	78
0303	Macromolecular and Materials Chemistry	78
0304	Medicinal and Biomolecular Chemistry	79
0305	Organic Chemistry	79
0306	Physical Chemistry (Incl. Structural)	79
0307	Theoretical and Computational Chemistry	80
0399	Other Chemical Sciences	80

03 Chemical Sciences		78 out of 82 assessed UoEs were rated at or above world standard	
FTEs	1,288.3	Rating	Distribution
Research outputs	16,124.1	5	22
Research income	$262,652,699	4	27
UoEs assessed	82	3	29
Esteem count	189.7	2	4
Patents	76.7	1	0
Research commercialisation income	$2,664,630	**Total**	**82**

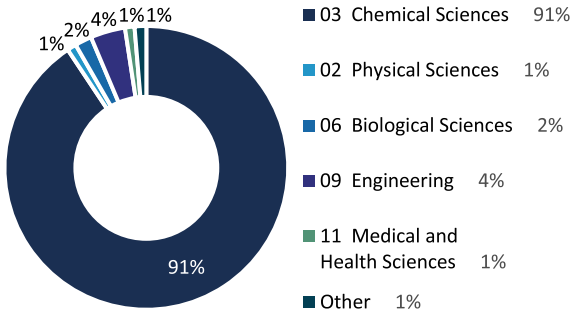
FoR overview

Chemical Sciences (03) accounted for approximately 4% of research outputs submitted to ERA 2012. Journal articles were the predominant research output type. Of the 9% of research outputs that were co-apportioned to codes outside of Chemical Sciences codes, the most common was Engineering (09) at 4%. Almost 10% of the patents submitted to ERA 2012 were assigned to the Chemical Sciences. Physical Chemistry (Incl. Structural) (0306) showed the highest staffing levels, research outputs and research income. Medicinal and Biomolecular Chemistry (0306) contributed the most research commercialisation income.

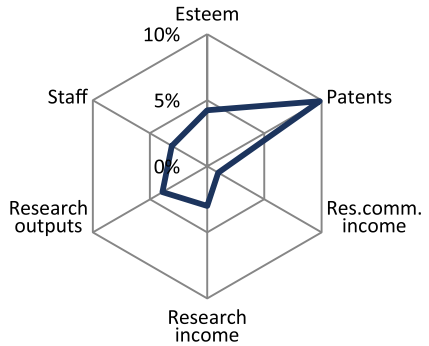
Number of UoEs per rating scale score



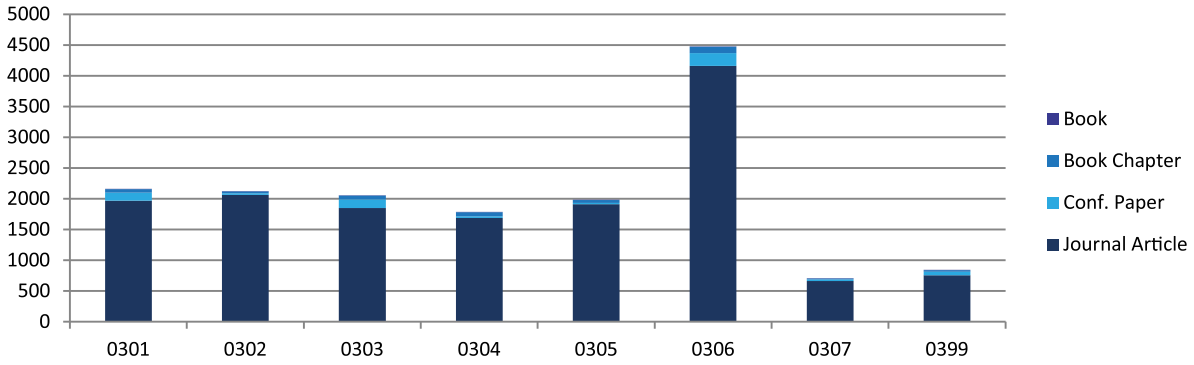
Disciplinary profile



Contribution to national landscape (%)

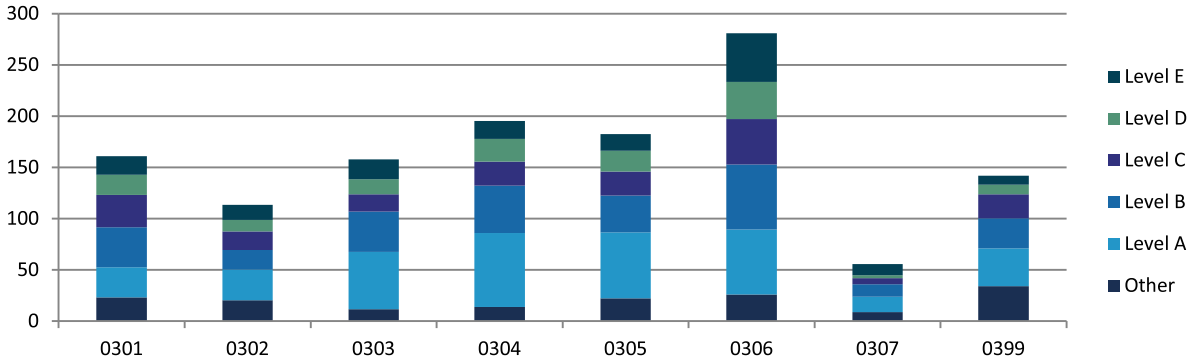


Research outputs submitted by type



FoR code		Book	Book Chapter	Conference Paper	Journal Article	Total
0301	Analytical Chemistry	1.5	57.1	127.2	1,969.9	2,155.7
0302	Inorganic Chemistry	1.0	29.2	28.0	2,063.4	2,121.6
0303	Macromolecular and Materials Chemistry	5.1	62.6	141.2	1,847.7	2,056.6
0304	Medicinal and Biomolecular Chemistry	1.5	69.5	24.0	1,690.4	1,785.4
0305	Organic Chemistry	0.8	46.6	21.7	1,911.9	1,981.0
0306	Physical Chemistry (Incl. Structural)	5.5	101.1	207.6	4,161.0	4,475.2
0307	Theoretical and Computational Chemistry	1.3	15.7	25.4	665.4	707.8
0399	Other Chemical Sciences	1.2	25.4	55.9	758.3	840.8
Total		17.9	407.2	631.0	15,068.0	16,124.1

Staffing profile by academic level

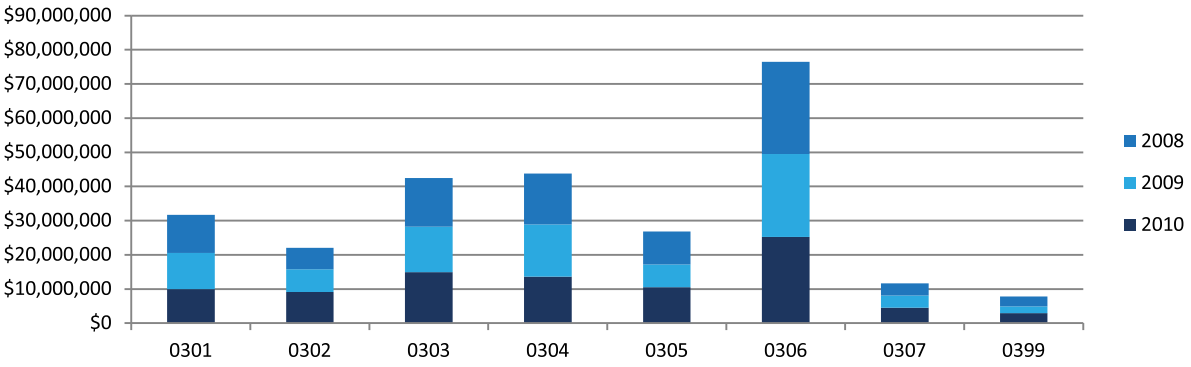


FoR code		Level E	Level D	Level C	Level B	Level A	Other	Total
0301	Analytical Chemistry	18.0	19.5	31.7	38.9	29.5	23.2	160.8
0302	Inorganic Chemistry	14.6	11.1	18.3	19.1	30.0	20.3	113.4
0303	Macromolecular and Materials Chemistry	19.5	14.6	16.9	39.4	55.7	11.8	157.9
0304	Medicinal and Biomolecular Chemistry	17.5	22.2	23.3	46.3	72.2	13.8	195.3
0305	Organic Chemistry	16.5	20.0	23.6	35.8	64.3	22.4	182.6
0306	Physical Chemistry (Incl. Structural)	47.5	36.2	44.3	63.5	63.1	26.2	280.8
0307	Theoretical and Computational Chemistry	10.9	2.7	5.9	12.3	15.0	8.8	55.6
0399	Other Chemical Sciences	8.7	9.5	23.2	29.4	36.8	34.3	141.9
Total		153.2	135.8	187.2	284.7	366.6	160.8	1,288.3

Patent profile

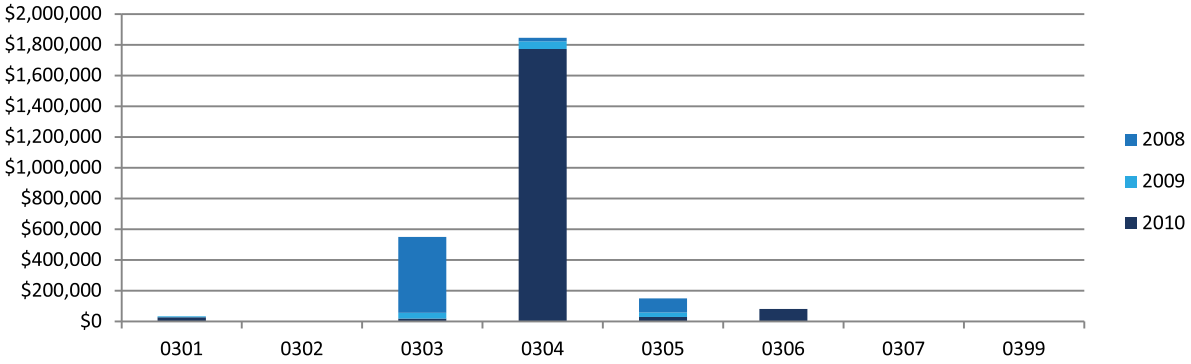
FoR code		Australia	USA	Europe	Japan	Other Int'l	Triadic	Total
0301	Analytical Chemistry	0.0	1.5	0.0	0.0	3.0	0.0	4.5
0302	Inorganic Chemistry	1.2	0.7	0.0	1.7	2.7	0.0	6.3
0303	Macromolecular and Materials Chemistry	3.2	3.7	0.4	2.7	14.5	0.0	24.5
0304	Medicinal and Biomolecular Chemistry	5.5	9.7	0.0	1.8	4.5	0.0	21.5
0305	Organic Chemistry	3.2	2.2	1.7	0.0	2.8	0.0	9.9
0306	Physical Chemistry (Incl. Structural)	2.4	2.9	0.8	0.5	3.4	0.0	10.0
0307	Theoretical and Computational Chemistry	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0399	Other Chemical Sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total		15.5	20.7	2.9	6.7	30.9	0.0	76.7

Research income by year—all categories ($)



FoR code		2008	2009	2010	Total
0301	Analytical Chemistry	$11,123,423	$10,578,407	$9,972,267	$31,674,097
0302	Inorganic Chemistry	$6,275,168	$6,668,786	$9,109,999	$22,053,953
0303	Macromolecular and Materials Chemistry	$14,241,718	$13,327,790	$14,890,492	$42,460,000
0304	Medicinal and Biomolecular Chemistry	$14,883,760	$15,243,883	$13,625,213	$43,752,856
0305	Organic Chemistry	$9,625,114	$6,642,150	$10,560,484	$26,827,748
0306	Physical Chemistry (Incl. Structural)	$26,964,393	$24,282,162	$25,210,559	$76,457,114
0307	Theoretical and Computational Chemistry	$3,496,386	$3,607,175	$4,538,213	$11,641,774
0399	Other Chemical Sciences	$2,838,909	$2,026,708	$2,919,540	$7,785,157
Total		$89,448,871	$82,377,061	$90,826,767	$262,652,699

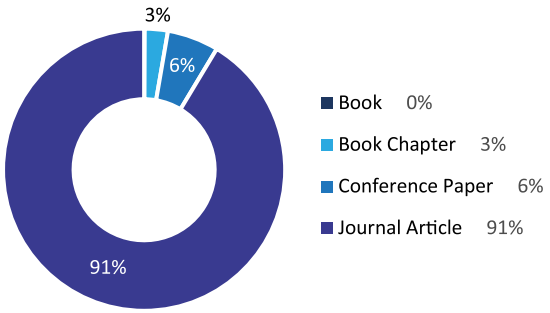
Research commercialisation income by year ($)



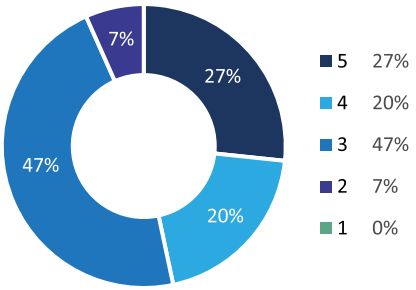
FoR code		2008	2009	2010	Total
0301	Analytical Chemistry	$0	$4,995	$28,283	$33,278
0302	Inorganic Chemistry	$0	$0	$0	$0
0303	Macromolecular and Materials Chemistry	$494,997	$37,777	$18,718	$551,492
0304	Medicinal and Biomolecular Chemistry	$22,940	$51,016	$1,772,063	$1,846,019
0305	Organic Chemistry	$91,784	$30,091	$30,013	$151,888
0306	Physical Chemistry (Incl. Structural)	$0	$0	$81,953	$81,953
0307	Theoretical and Computational Chemistry	$0	$0	$0	$0
0399	Other Chemical Sciences	$0	$0	$0	$0
Total		$609,721	$123,879	$1,931,030	$2,664,630

0301 Analytical Chemistry		14 out of 15 assessed UoEs were rated at or above world standard	
FTEs	160.8	Rating	Distribution
Research outputs	2,155.7	5	4
Research income	$31,674,097	4	3
UoEs assessed	15	3	7
Esteem count	23.3	2	1
Patents	4.5	1	0
Research commercialisation income	$33,278	**Total**	**15**

Research outputs by type

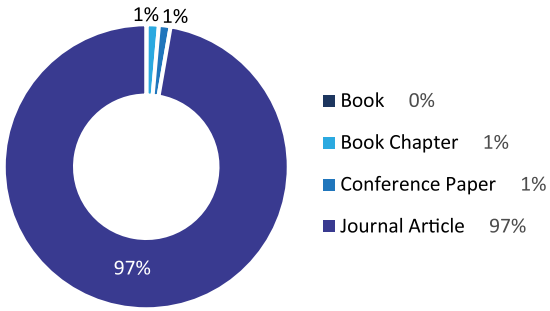


FoR rating distribution

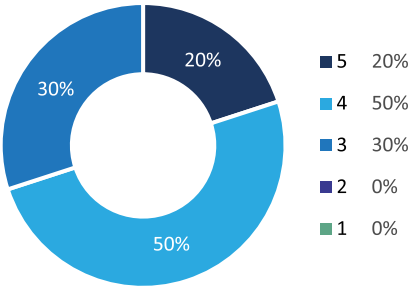


0302 Inorganic Chemistry		10 out of 10 assessed UoEs were rated at or above world standard	
FTEs	113.4	Rating	Distribution
Research outputs	2,121.6	5	2
Research income	$22,053,953	4	5
UoEs assessed	10	3	3
Esteem count	22.7	2	0
Patents	6.3	1	0
Research commercialisation income	$0	**Total**	**10**

Research outputs by type

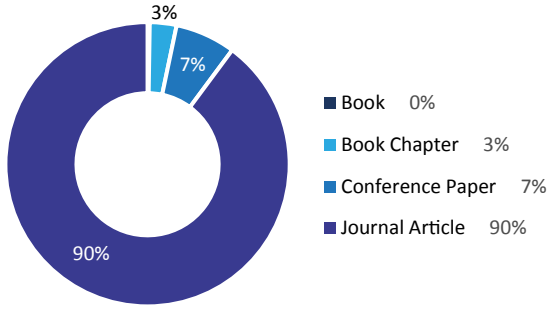


FoR rating distribution

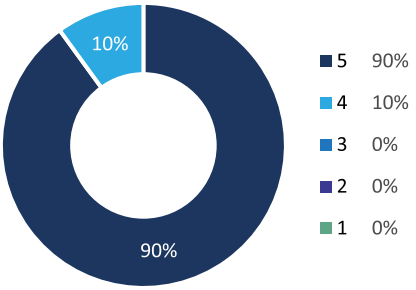


0303 Macromolecular and Materials Chemistry		10 out of 10 assessed UoEs were rated at or above world standard	
FTEs	157.9	Rating	Distribution
Research outputs	2,056.6	5	9
Research income	$42,460,000	4	1
UoEs assessed	10	3	0
Esteem count	36.4	2	0
Patents	24.5	1	0
Research commercialisation income	$551,492	**Total**	**10**

Research outputs by type

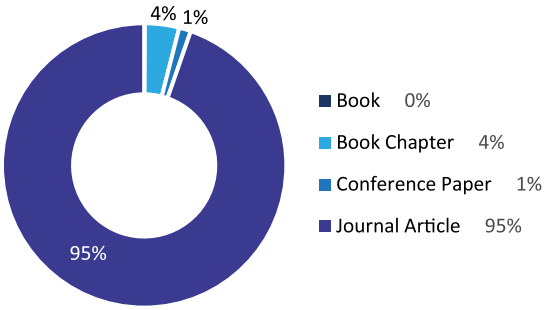


FoR rating distribution

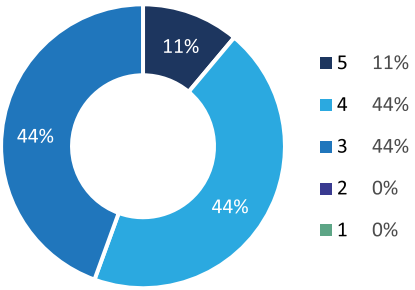


0304 Medicinal and Biomolecular Chemistry		9 out of 9 assessed UoEs were rated at or above world standard	
FTEs	195.3	Rating	Distribution
Research outputs	1,785.4	5	1
Research income	$43,752,856	4	4
UoEs assessed	9	3	4
Esteem count	21.1	2	0
Patents	21.5	1	0
Research commercialisation income	$1,846,019	**Total**	**9**

Research outputs by type

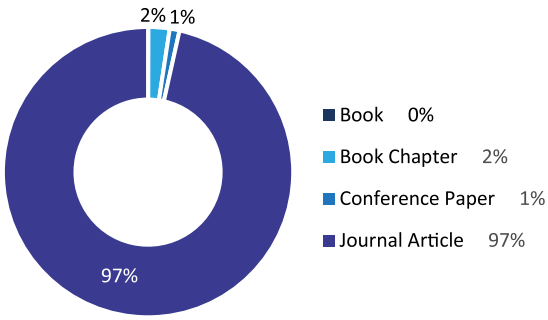


FoR rating distribution

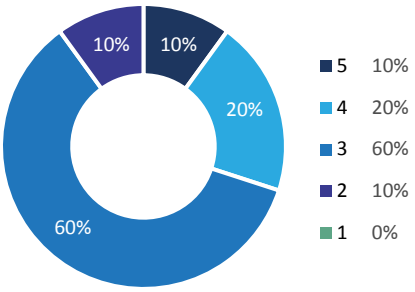


0305 Organic Chemistry		9 out of 10 assessed UoEs were rated at or above world standard	
FTEs	182.6	Rating	Distribution
Research outputs	1,981.0	5	1
Research income	$26,827,748	4	2
UoEs assessed	10	3	6
Esteem count	19.3	2	1
Patents	9.9	1	0
Research commercialisation income	$151,888	**Total**	**10**

Research outputs by type

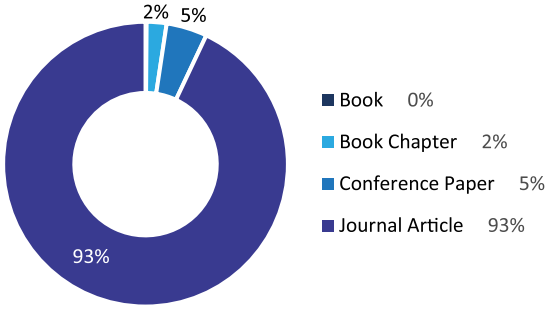


FoR rating distribution

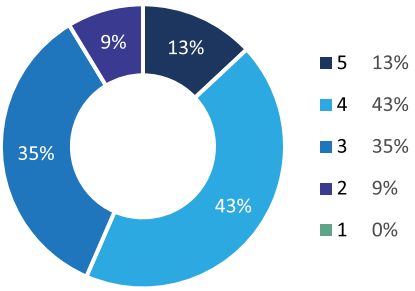


0306 Physical Chemistry (Incl. Structural)		21 out of 23 assessed UoEs were rated at or above world standard	
FTEs	280.8	Rating	Distribution
Research outputs	4,475.2	5	3
Research income	$76,457,114	4	10
UoEs assessed	23	3	8
Esteem count	44.6	2	2
Patents	10.0	1	0
Research commercialisation income	$81,953	**Total**	**23**

Research outputs by type

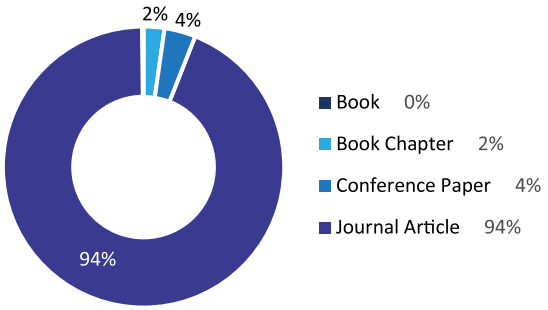


FoR rating distribution

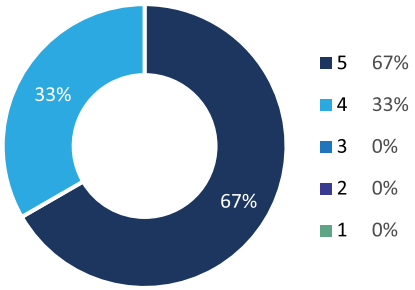


0307 Theoretical and Computational Chemistry		3 out of 3 assessed UoEs were rated at or above world standard	
FTEs	55.6	Rating	Distribution
Research outputs	707.8	5	2
Research income	$11,641,774	4	1
UoEs assessed	3	3	0
Esteem count	14.6	2	0
Patents	0	1	0
Research commercialisation income	$0	**Total**	**3**

Research outputs by type

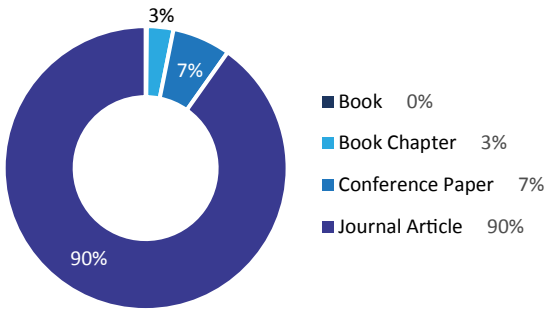


FoR rating distribution

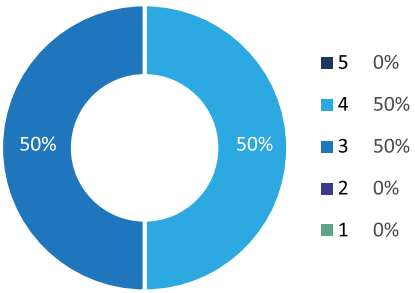


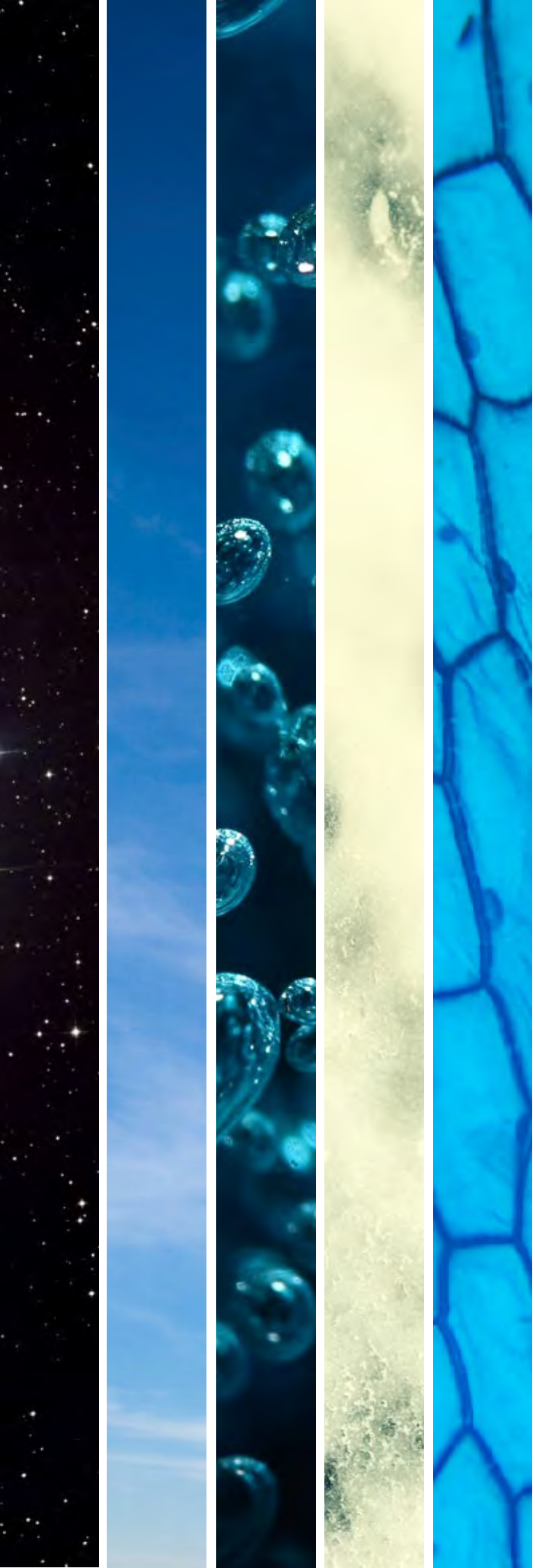
0399 Other Chemical Sciences		2 out of 2 assessed UoEs were rated at or above world standard	
FTEs	141.9	Rating	Distribution
Research outputs	840.8	5	0
Research income	$7,785,157	4	1
UoEs assessed	2	3	1
Esteem count	7.7	2	0
Patents	0	1	0
Research commercialisation income	$0	**Total**	**2**

Research outputs by type



FoR rating distribution





04 Earth Sciences

Earth Sciences is comprised of the following four-digit codes:

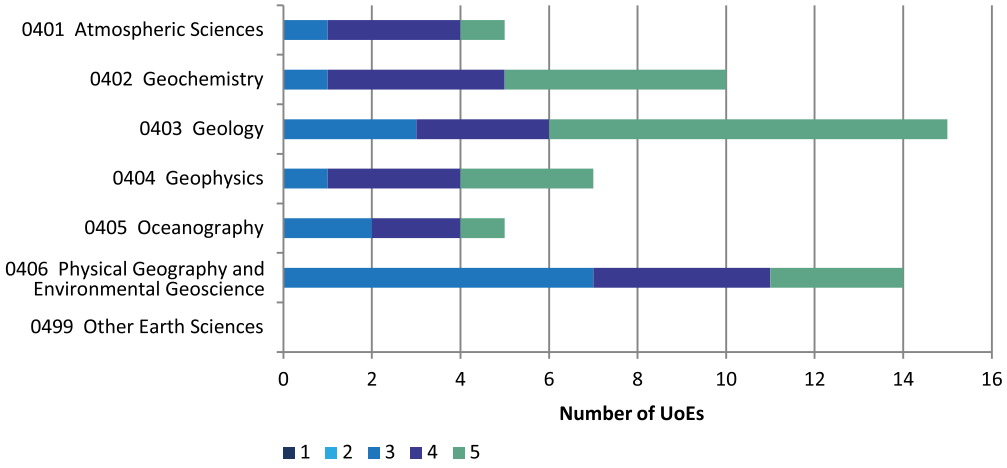
04	**Earth Sciences**	**82**
0401	Atmospheric Sciences	85
0402	Geochemistry	85
0403	Geology	85
0404	Geophysics	86
0405	Oceanography	86
0406	Physical Geography and Environmental Geoscience	86
0499	Other Earth Sciences	87

04 Earth Sciences		56 out of 56 assessed UoEs were rated at or above world standard	
FTEs	805.1	Rating	Distribution
Research outputs	10,198.2	5	22
Research income	$248,412,581	4	19
UoEs assessed	56	3	15
Esteem count	126.3	2	0
Patents	0	1	0
Research commercialisation income	$1,510,965	**Total**	**56**

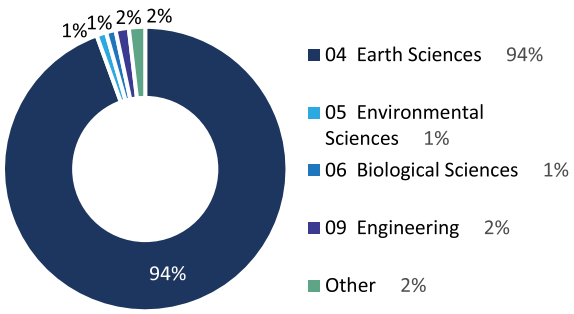
FoR overview

Earth Sciences (04) accounted for approximately 3% of the research outputs submitted to ERA 2012. Journal articles were the most common Earth Sciences research output type. Of the 6% of research outputs that were co-apportioned to codes outside of Earth Sciences, the most common was Engineering (09) at 2%. Geology (0403) showed the highest number of research outputs, staffing levels and highest research income levels. Physical Geography and Environmental Geoscience (0406) had the highest research commercialisation income.

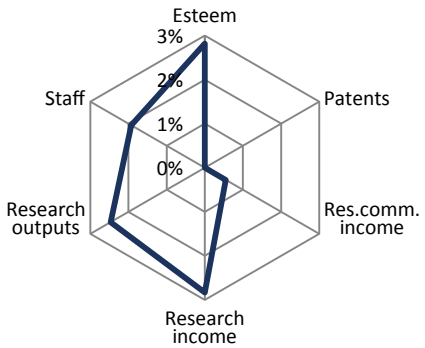
Number of UoEs per rating scale score



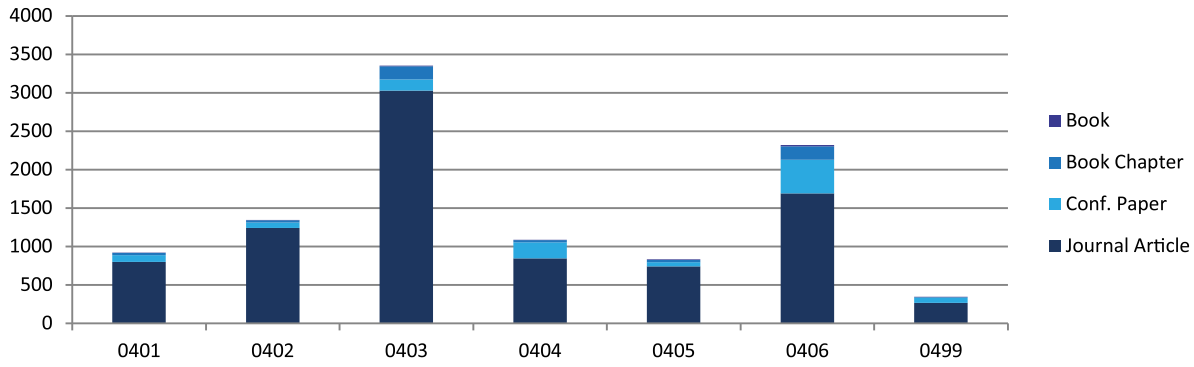
Disciplinary profile



Contribution to national landscape (%)

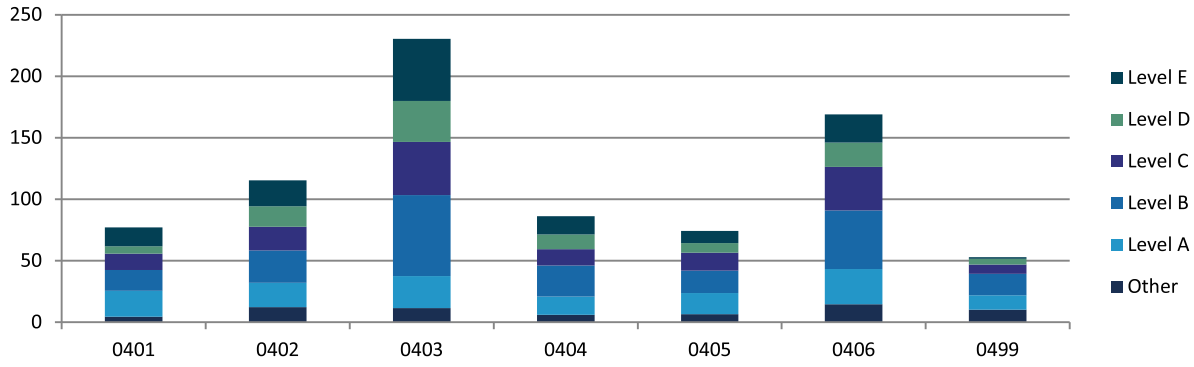


Research outputs submitted by type



FoR code		Book	Book Chapter	Conference Paper	Journal Article	Total
0401	Atmospheric Sciences	3.0	27.7	86.4	801.9	919.0
0402	Geochemistry	0.9	26.0	71.2	1,243.4	1,341.5
0403	Geology	8.8	170.4	146.2	3,028.2	3,353.6
0404	Geophysics	1.0	29.4	206.9	847.2	1,084.5
0405	Oceanography	5.3	32.4	51.9	743.9	833.5
0406	Physical Geography and Environmental Geoscience	17.3	175.4	438.1	1,690.9	2,321.7
0499	Other Earth Sciences	1.4	7.3	66.1	269.6	344.4
Total		37.7	468.6	1,066.8	8,625.1	10,198.2

Staffing profile by academic level

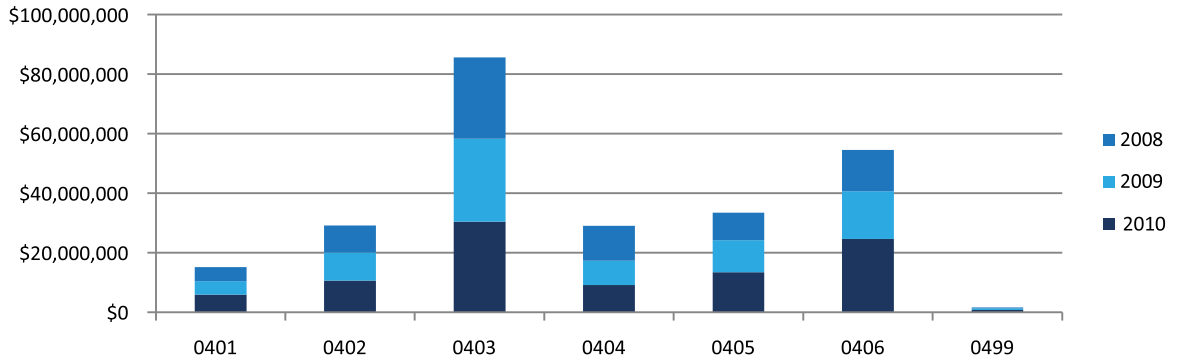


FoR code		Level E	Level D	Level C	Level B	Level A	Other	Total
0401	Atmospheric Sciences	15.2	6.2	13.1	17.1	21.0	4.5	77.1
0402	Geochemistry	21.0	16.7	19.1	26.3	19.8	12.4	115.3
0403	Geology	50.3	33.5	43.0	66.0	25.8	11.7	230.3
0404	Geophysics	14.8	12.0	13.3	25.1	15.0	6.0	86.2
0405	Oceanography	10.1	7.8	14.5	18.1	17.3	6.6	74.4
0406	Physical Geography and Environmental Geoscience	22.8	19.7	35.5	47.6	28.5	14.8	168.9
0499	Other Earth Sciences	1.3	4.6	7.7	17.3	11.8	10.2	52.9
Total		135.5	100.5	146.2	217.5	139.2	66.2	805.1

Patent profile

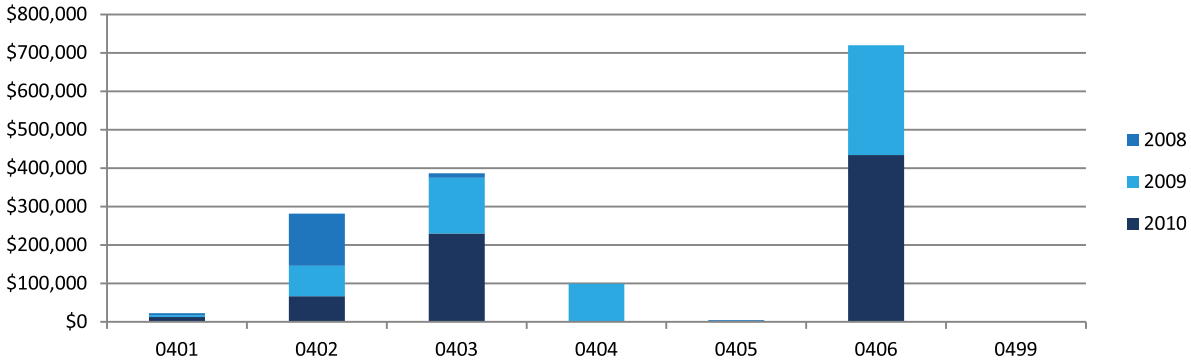
Note: There were no Patents submitted by UoEs in this FoR.

Research income by year—all categories ($)



FoR code		2008	2009	2010	Total
0401	Atmospheric Sciences	$4,799,958	$4,527,665	$5,825,797	$15,153,420
0402	Geochemistry	$9,036,015	$9,400,571	$10,660,111	$29,096,697
0403	Geology	$27,311,252	$27,897,286	$30,379,752	$85,588,290
0404	Geophysics	$11,751,404	$8,256,583	$9,056,898	$29,064,885
0405	Oceanography	$9,253,188	$10,768,960	$13,359,374	$33,381,522
0406	Physical Geography and Environmental Geoscience	$13,859,887	$16,048,784	$24,641,188	$54,549,859
0499	Other Earth Sciences	$335,571	$484,877	$757,460	$1,577,908
Total		$76,347,275	$77,384,726	$94,680,580	$248,412,581

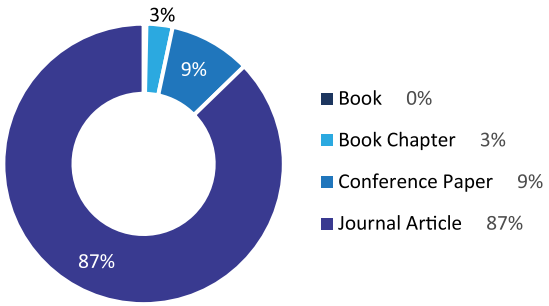
Research commercialisation income by year ($)



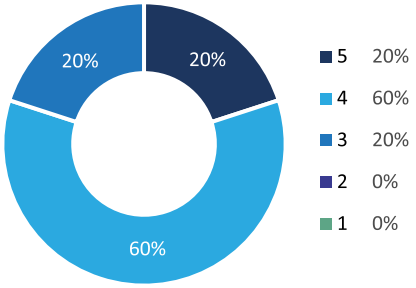
FoR code		2008	2009	2010	Total
0401	Atmospheric Sciences	$5,171	$5,331	$12,781	$23,283
0402	Geochemistry	$135,607	$78,695	$67,360	$281,662
0403	Geology	$11,989	$145,124	$229,806	$386,919
0404	Geophysics	$0	$99,253	$0	$99,253
0405	Oceanography	$92	$143	$44	$279
0406	Physical Geography and Environmental Geoscience	$0	$285,713	$433,856	$719,569
0499	Other Earth Sciences	$0	$0	$0	$0
Total		$152,859	$614,259	$743,847	$1,510,965

0401 Atmospheric Sciences		5 out of 5 assessed UoEs were rated at or above world standard	
FTEs	77.1	Rating	Distribution
Research outputs	919.0	5	1
Research income	$15,153,420	4	3
UoEs assessed	5	3	1
Esteem count	18.1	2	0
Patents	0	1	0
Research commercialisation income	$23,283	**Total**	**5**

Research outputs by type

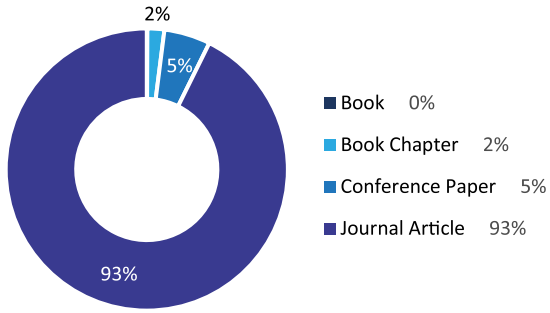


FoR rating distribution

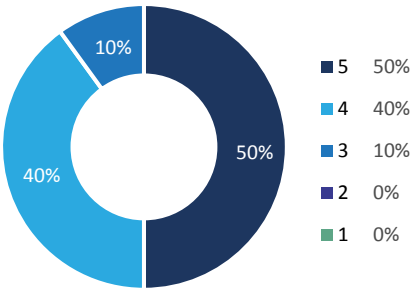


0402 Geochemistry		10 out of 10 assessed UoEs were rated at or above world standard	
FTEs	115.3	Rating	Distribution
Research outputs	1,341.5	5	5
Research income	$29,096,697	4	4
UoEs assessed	10	3	1
Esteem count	29.4	2	0
Patents	0	1	0
Research commercialisation income	$281,662	**Total**	**10**

Research outputs by type

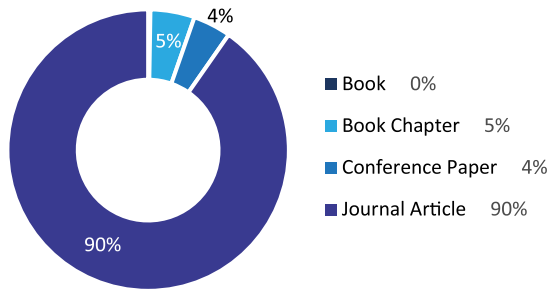


FoR rating distribution

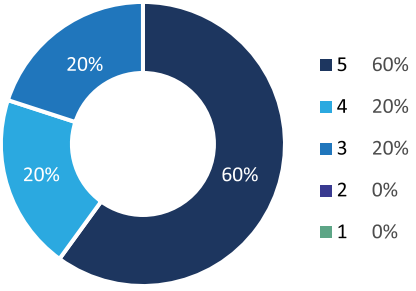


0403 Geology		15 out of 15 assessed UoEs were rated at or above world standard	
FTEs	230.3	Rating	Distribution
Research outputs	3,353.6	5	9
Research income	$85,588,290	4	3
UoEs assessed	15	3	3
Esteem count	47.9	2	0
Patents	0	1	0
Research commercialisation income	$386,919	**Total**	**15**

Research outputs by type

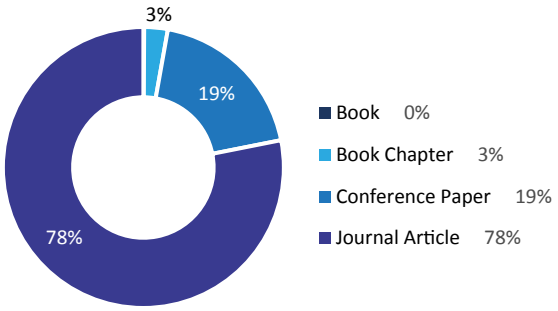


FoR rating distribution

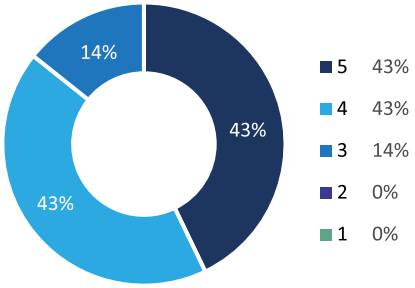


0404 Geophysics			7 out of 7 assessed UoEs were rated at or above world standard	
FTEs	86.2		Rating	Distribution
Research outputs	1,084.5		5	3
Research income	$29,064,885		4	3
UoEs assessed	7		3	1
Esteem count	7.9		2	0
Patents	0		1	0
Research commercialisation income	$99,253		**Total**	**7**

Research outputs by type

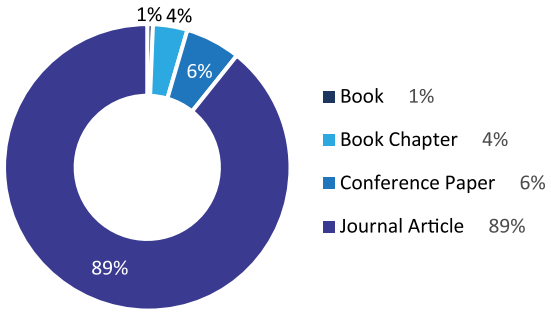


FoR rating distribution

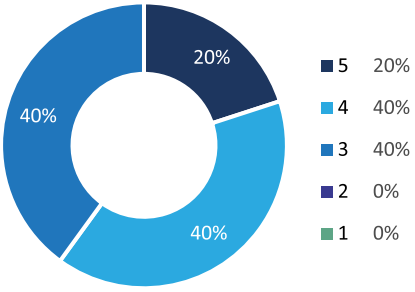


0405 Oceanography			5 out of 5 assessed UoEs were rated at or above world standard	
FTEs	74.4		Rating	Distribution
Research outputs	833.5		5	1
Research income	$33,381,522		4	2
UoEs assessed	5		3	2
Esteem count	9.6		2	0
Patents	0		1	0
Research commercialisation income	$279		**Total**	**5**

Research outputs by type

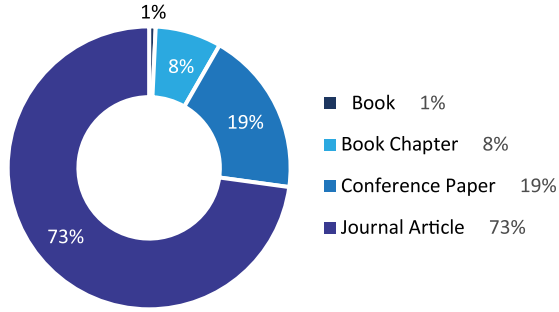


FoR rating distribution

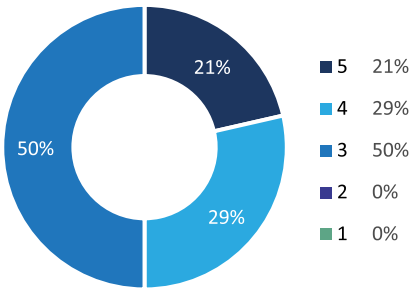


0406 Physical Geography and Environmental Geoscience			14 out of 14 assessed UoEs were rated at or above world standard	
FTEs	168.9		Rating	Distribution
Research outputs	2,321.7		5	3
Research income	$54,549,859		4	4
UoEs assessed	14		3	7
Esteem count	12.4		2	0
Patents	0		1	0
Research commercialisation income	$719,569		**Total**	**14**

Research outputs by type



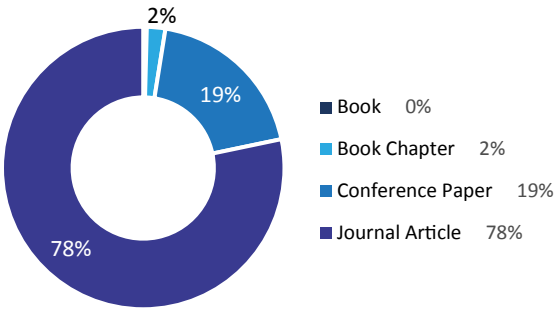
FoR rating distribution

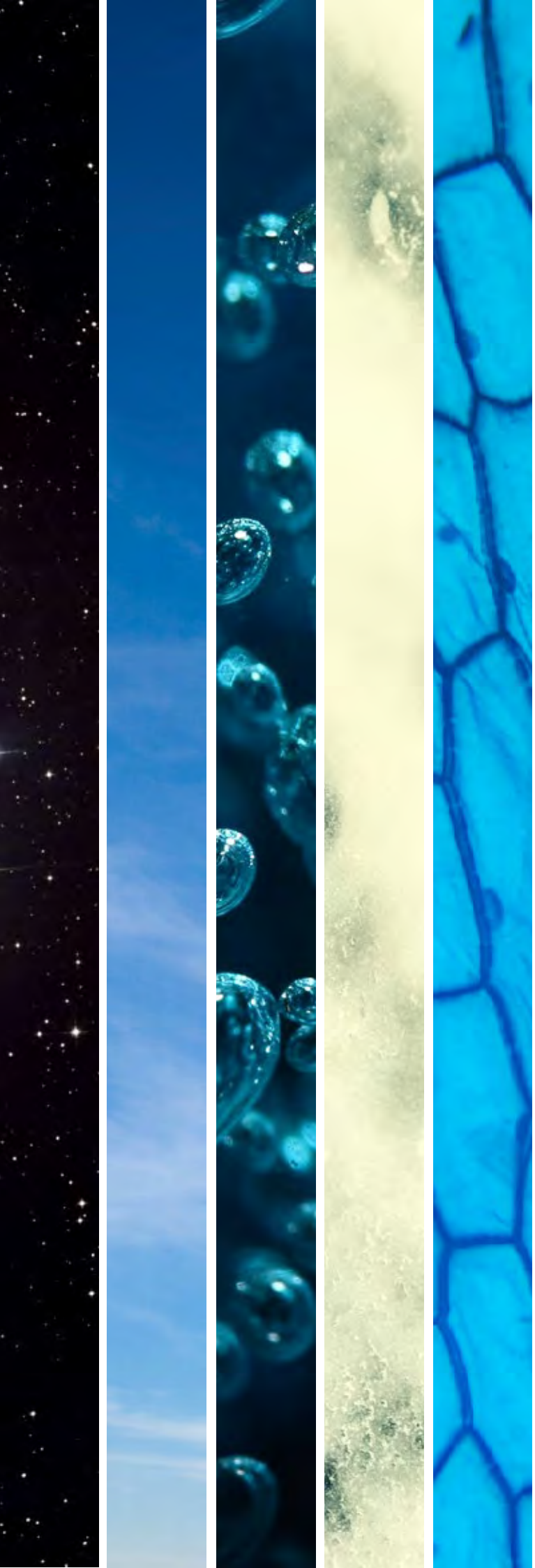


0499 Other Earth Sciences		0 UoEs were assessed in this FoR	
FTEs	52.9	Rating	Distribution
Research outputs	344.4	5	0
Research income	$1,577,908	4	0
UoEs assessed	0	3	0
Esteem count	1	2	0
Patents	0	1	0
Research commercialisation income	$0	**Total**	**0**

Research outputs by type

Note: There is no FoR rating distribution for 0499





05 Environmental Sciences

Environmental Sciences is comprised of the following four-digit codes:

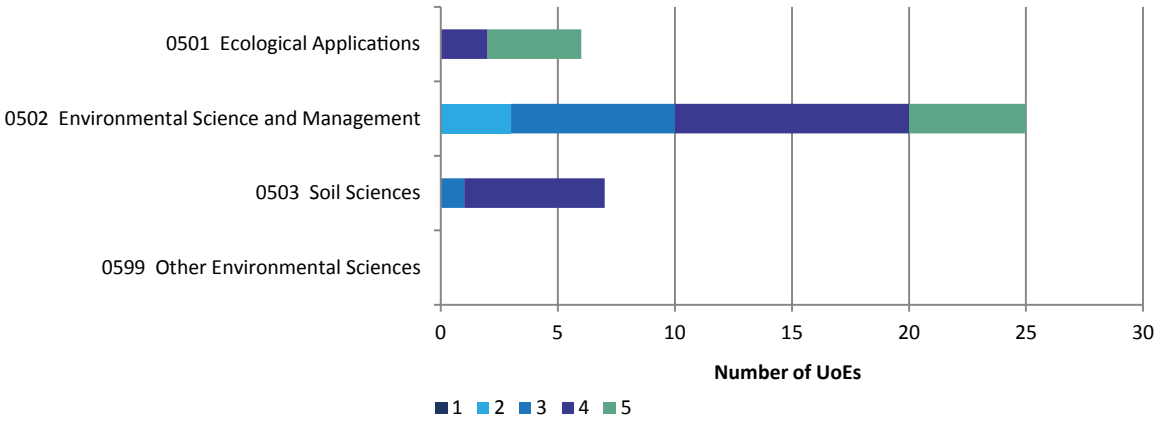
05	**Environmental Sciences**	**89**
0501	Ecological Applications	92
0502	Environmental Science and Management	92
0503	Soil Sciences	92
0599	Other Environmental Sciences	93

05 Environmental Sciences		35 out of 38 assessed UoEs were rated at or above world standard	
FTEs	746.6	Rating	Distribution
Research outputs	7,549.0	5	9
Research income	$293,936,492	4	18
UoEs assessed	38	3	8
Esteem count	63.7	2	3
Patents	3.6	1	0
Research commercialisation income	$778,079	**Total**	**38**

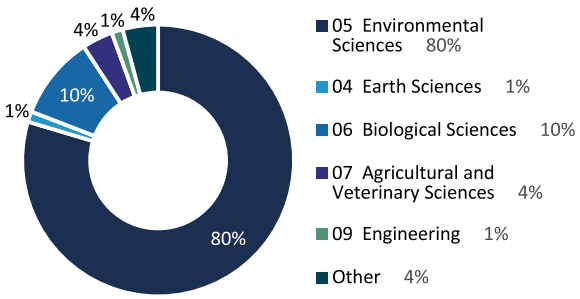
FoR overview

Environmental Sciences (05) accounted for approximately 2% of the research outputs submitted to ERA 2012. Journal articles comprised 76% of the total research outputs submitted to Environmental Sciences. Approximately 20% of the 05 research outputs were also coded to other two-digit codes, with almost half of these coded to the Biological Sciences (06). Environmental Science and Management (0502) is the largest sub-discipline in terms of research outputs, staffing levels and research income.

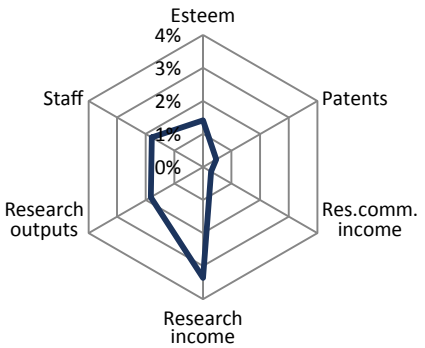
Number of UoEs per rating scale score



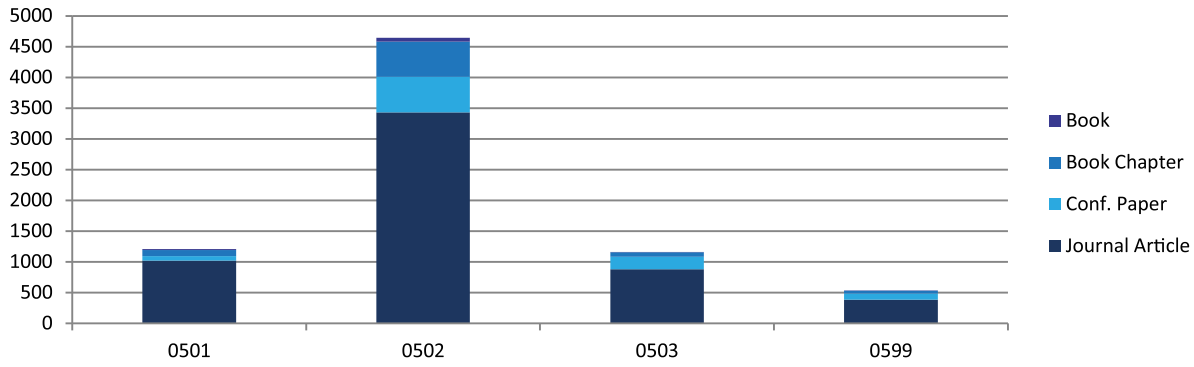
Disciplinary profile



Contribution to national landscape (%)

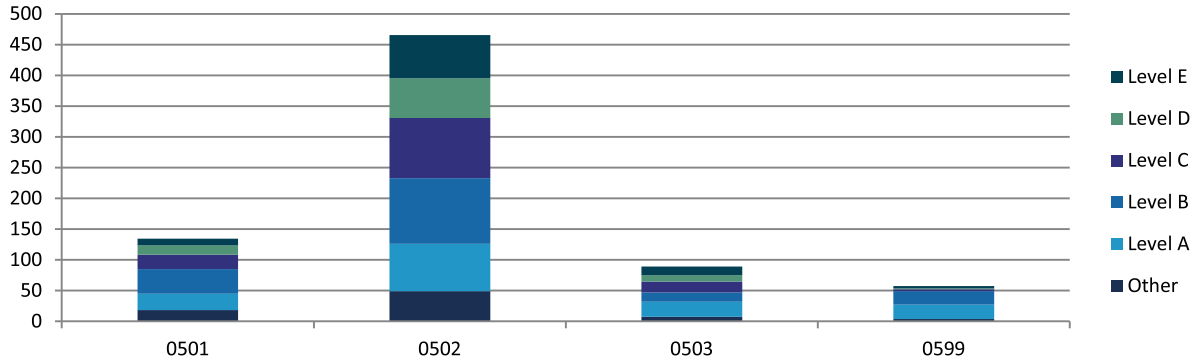


Research outputs submitted by type



FoR code		Book	Book Chapter	Conference Paper	Journal Article	Total
0501	Ecological Applications	16.5	97.5	71.2	1,023.8	1,209.0
0502	Environmental Science and Management	60.3	574.5	579.3	3,429.6	4,643.7
0503	Soil Sciences	3.1	73.1	201.4	883.1	1,160.7
0599	Other Environmental Sciences	4.1	43.3	101.5	386.7	535.6
Total		84.0	788.4	953.4	5,723.2	7,549.0

Staffing profile by academic level

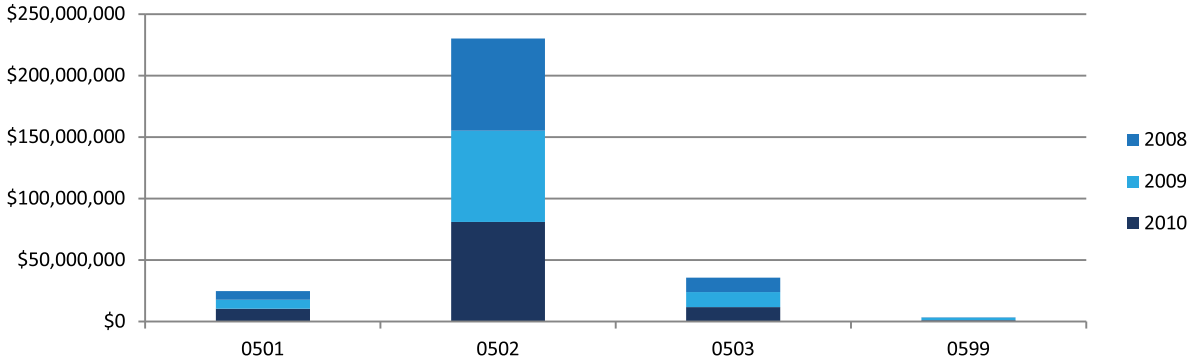


FoR code		Level E	Level D	Level C	Level B	Level A	Other	Total
0501	Ecological Applications	10.7	15.0	23.8	39.7	26.7	18.5	134.4
0502	Environmental Science and Management	70.2	64.8	97.7	106.4	77.3	49.1	465.5
0503	Soil Sciences	13.9	10.4	17.8	14.8	24.9	7.3	89.1
0599	Other Environmental Sciences	3.9	1.5	3.2	21.9	23.1	4.0	57.6
Total		98.7	91.7	142.5	182.8	152.0	78.9	746.6

Patent profile

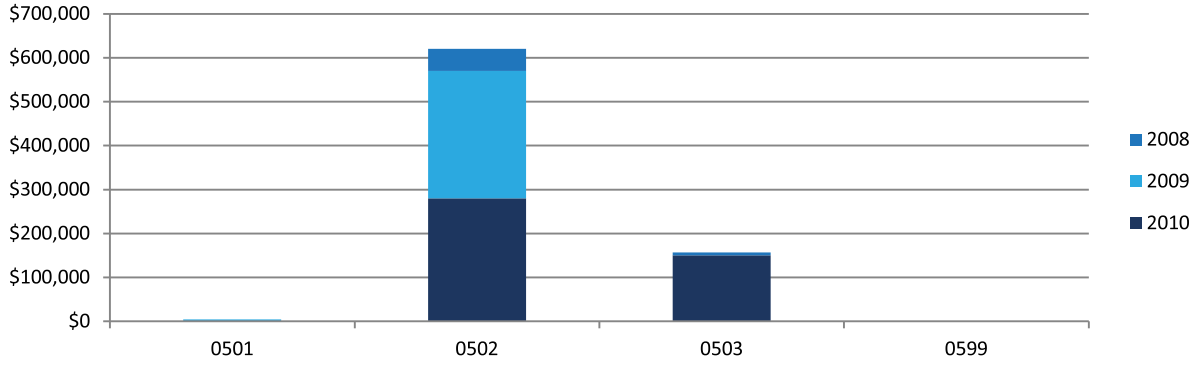
FoR code		Australia	USA	Europe	Japan	Other Int'l	Triadic	Total
0501	Ecological Applications	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0502	Environmental Science and Management	1.0	0.0	0.0	0.0	0.0	0.0	1.0
0503	Soil Sciences	0.8	0.0	0.0	0.0	1.8	0.0	2.6
0599	Other Environmental Sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total		1.8	0.0	0.0	0.0	1.8	0.0	3.6

Research income by year—all categories ($)



FoR code		2008	2009	2010	Total
0501	Ecological Applications	$6,829,492	$7,440,134	$10,453,316	$24,722,942
0502	Environmental Science and Management	$74,824,542	$74,265,413	$81,004,743	$230,094,698
0503	Soil Sciences	$11,488,894	$12,270,016	$11,892,709	$35,651,619
0599	Other Environmental Sciences	$194,054	$2,052,581	$1,220,598	$3,467,233
Total		$93,336,982	$96,028,144	$104,571,366	$293,936,492

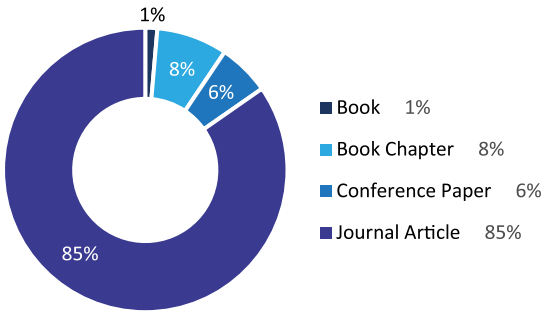
Research commercialisation income by year ($)



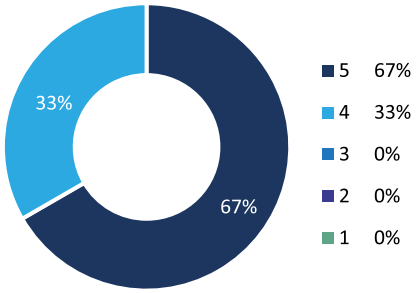
FoR code		2008	2009	2010	Total
0501	Ecological Applications	$0	$313	$429	$742
0502	Environmental Science and Management	$50,132	$289,697	$280,311	$620,140
0503	Soil Sciences	$7,114	$0	$150,083	$157,197
0599	Other Environmental Sciences	$0	$0	$0	$0
Total		$57,246	$290,010	$430,823	$778,079

0501 Ecological Applications			6 out of 6 assessed UoEs were rated at or above world standard	
FTEs	134.4		Rating	Distribution
Research outputs	1,209.0		5	4
Research income	$24,722,942		4	2
UoEs assessed	6		3	0
Esteem count	13.1		2	0
Patents	0		1	0
Research commercialisation income	$742		**Total**	**6**

Research outputs by type

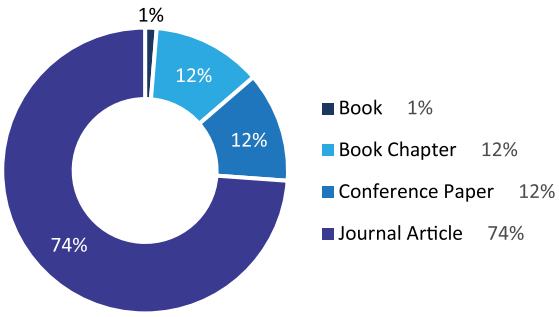


FoR rating distribution

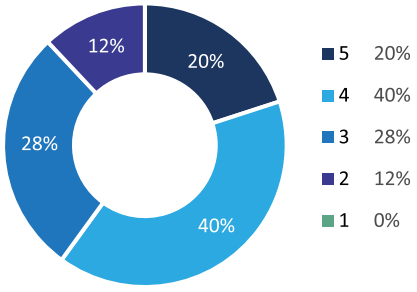


0502 Environmental Science and Management			22 out of 25 assessed UoEs were rated at or above world standard	
FTEs	465.5		Rating	Distribution
Research outputs	4,643.7		5	5
Research income	$230,094,698		4	10
UoEs assessed	25		3	7
Esteem count	40.9		2	3
Patents	1.0		1	0
Research commercialisation income	$620,140		**Total**	**25**

Research outputs by type

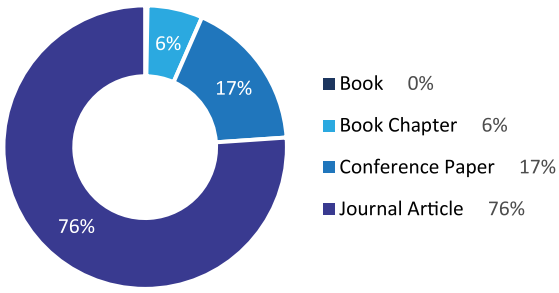


FoR rating distribution

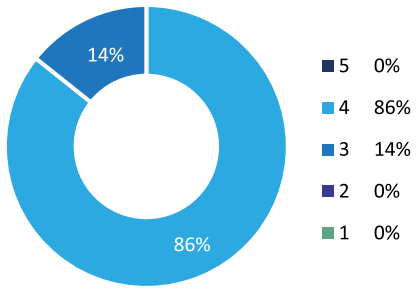


0503 Soil Sciences			7 out of 7 assessed UoEs were rated at or above world standard	
FTEs	89.1		Rating	Distribution
Research outputs	1,160.7		5	0
Research income	$35,651,619		4	6
UoEs assessed	7		3	1
Esteem count	7.3		2	0
Patents	2.6		1	0
Research commercialisation income	$157,197		**Total**	**7**

Research outputs by type



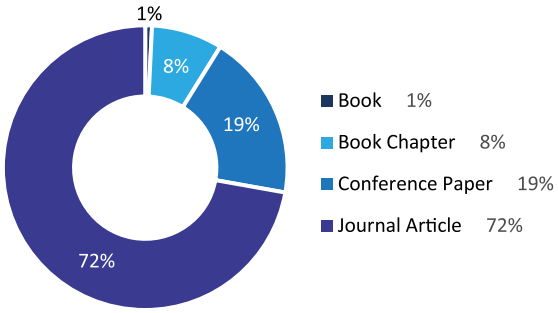
FoR rating distribution

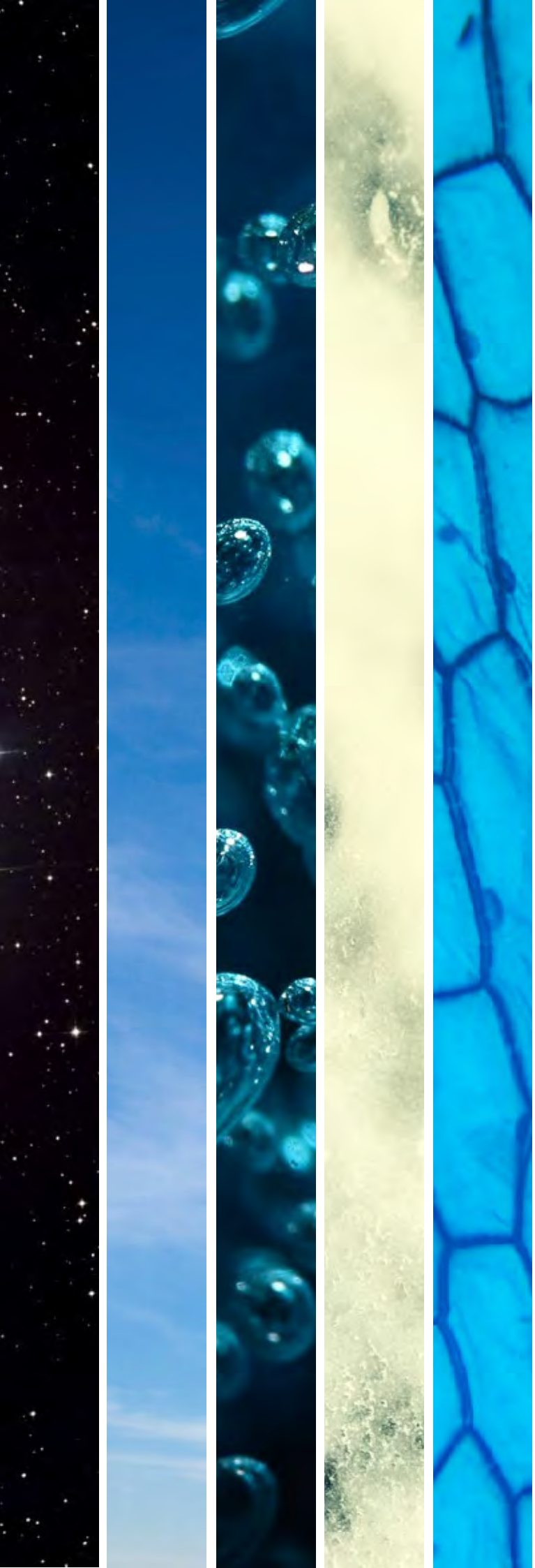


0599 Other Environmental Sciences			0 UoEs were assessed in this FoR
FTEs	57.6	Rating	Distribution
Research outputs	535.6	5	0
Research income	$3,467,233	4	0
UoEs assessed	0	3	0
Esteem count	2.4	2	0
Patents	0	1	0
Research commercialisation income	$0	**Total**	**0**

Research outputs by type

Note: There is no FoR rating distribution for 0599





06 Biological Sciences

Biological Sciences is comprised of the following four-digit codes:

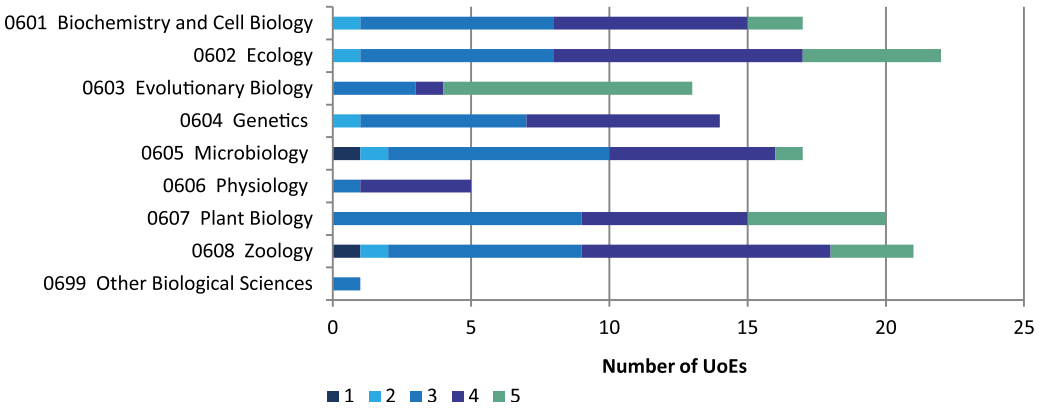
06	**Biological Sciences**	**95**
0601	Biochemistry and Cell Biology	98
0602	Ecology	98
0603	Evolutionary Biology	98
0604	Genetics	99
0605	Microbiology	99
0606	Physiology	99
0607	Plant Biology	100
0608	Zoology	100
0699	Other Biological Sciences	100

06 Biological Sciences		123 out of 130 assessed UoEs were rated at or above world standard	
FTEs	3,327.5	Rating	Distribution
Research outputs	30,867.3	5	25
Research income	$968,397,230	4	49
UoEs assessed	130	3	49
Esteem count	478.9	2	5
Patents	118.9	1	2
Research commercialisation income	$3,359,764	**Total**	**130**

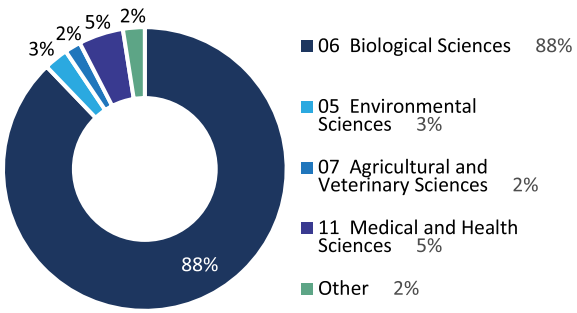
FoR overview

Biological Sciences (06) accounted for approximately 8% of the research outputs submitted to ERA 2012 and approximately 15% of all patents. The majority of the Biological Sciences research outputs were journal articles. Approximately 12% of Biological Sciences research outputs were also coded to other two-digit FoRs, with 5% co-apportioned to Medical and Health Sciences (11). Biochemistry and Cell Biology (0601) was the largest sub-discipline in terms of research outputs, staffing and research income.

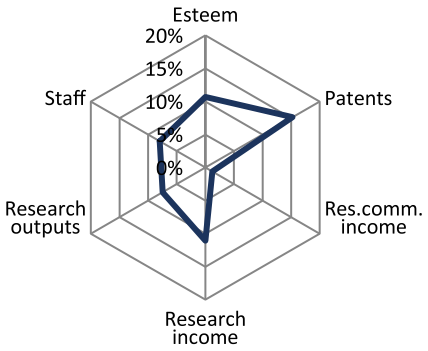
Number of UoEs per rating scale score



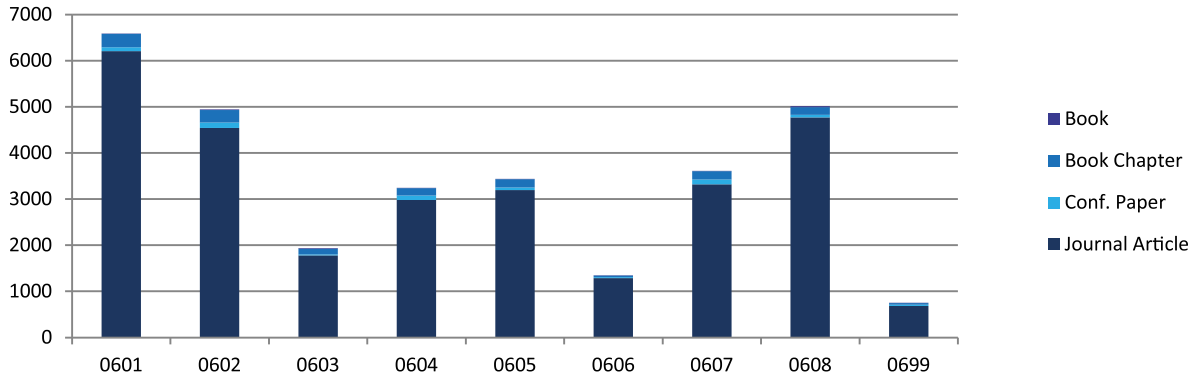
Disciplinary profile



Contribution to national landscape (%)

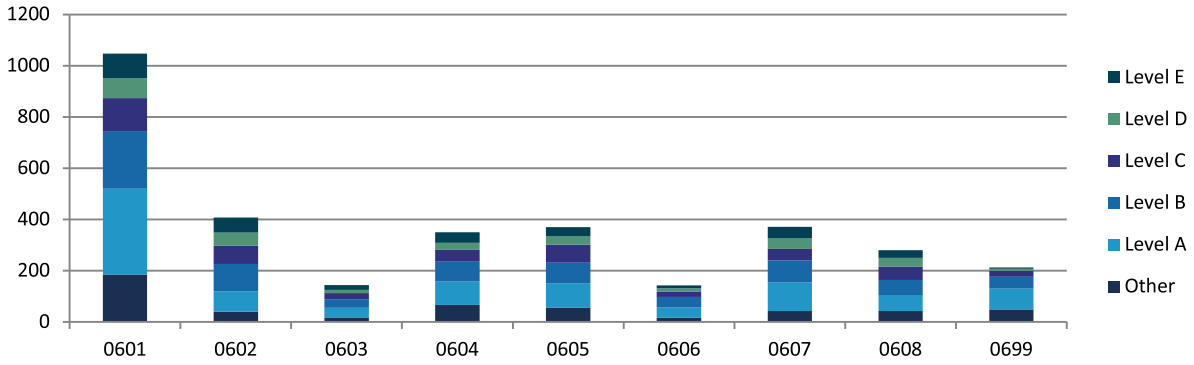


Research outputs submitted by type



FoR code		Book	Book Chapter	Conference Paper	Journal Article	Total
0601	Biochemistry and Cell Biology	1.2	290.0	85.7	6,206.6	6,583.5
0602	Ecology	16.0	266.5	121.7	4,541.2	4,945.4
0603	Evolutionary Biology	11.4	126.5	17.6	1,782.6	1,938.1
0604	Genetics	1.5	156.4	101.8	2,978.2	3,237.9
0605	Microbiology	5.5	182.5	52.0	3,197.9	3,437.9
0606	Physiology	3.3	36.3	22.2	1,286.9	1,348.7
0607	Plant Biology	9.8	179.9	105.8	3,318.5	3,614.0
0608	Zoology	19.1	167.9	60.6	4,767.1	5,014.7
0699	Other Biological Sciences	3.5	29.6	26.8	687.2	747.1
Total		71.3	1,435.6	594.2	28,766.2	30,867.3

Staffing profile by academic level

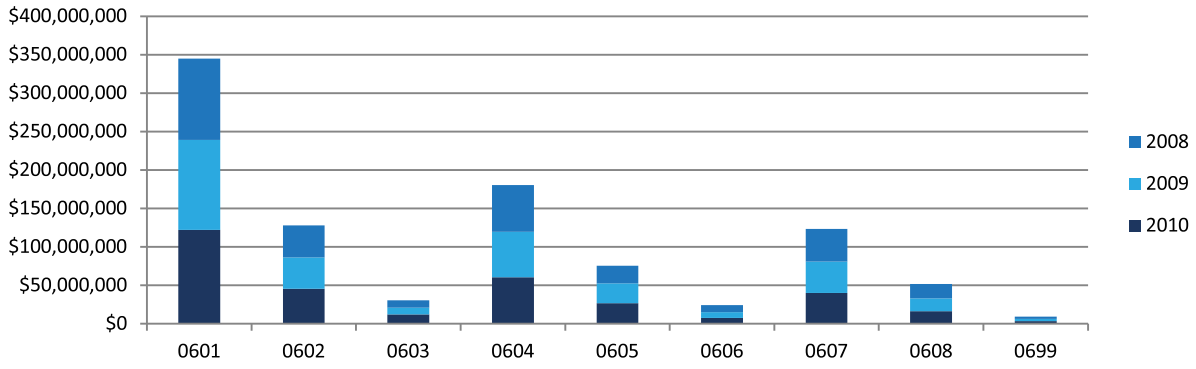


FoR code		Level E	Level D	Level C	Level B	Level A	Other	Total
0601	Biochemistry and Cell Biology	96.4	76.9	130.5	223.3	334.8	184.9	1,046.8
0602	Ecology	59.5	50.9	70.9	108.2	78.7	40.1	408.3
0603	Evolutionary Biology	18.7	11.5	24.8	32.8	38.0	18.0	143.8
0604	Genetics	40.7	28.5	45.0	78.4	91.2	66.4	350.2
0605	Microbiology	36.0	32.7	69.5	80.2	94.3	57.0	369.7
0606	Physiology	11.7	13.4	20.6	41.2	39.3	17.0	143.2
0607	Plant Biology	44.1	42.3	44.9	85.8	111.1	43.5	371.7
0608	Zoology	30.7	33.8	52.4	57.8	63.0	42.9	280.6
0699	Other Biological Sciences	5.7	8.0	22.5	46.8	81.1	49.1	213.2
Total		343.5	298.0	481.1	754.5	931.5	518.9	3,327.5

Patent profile

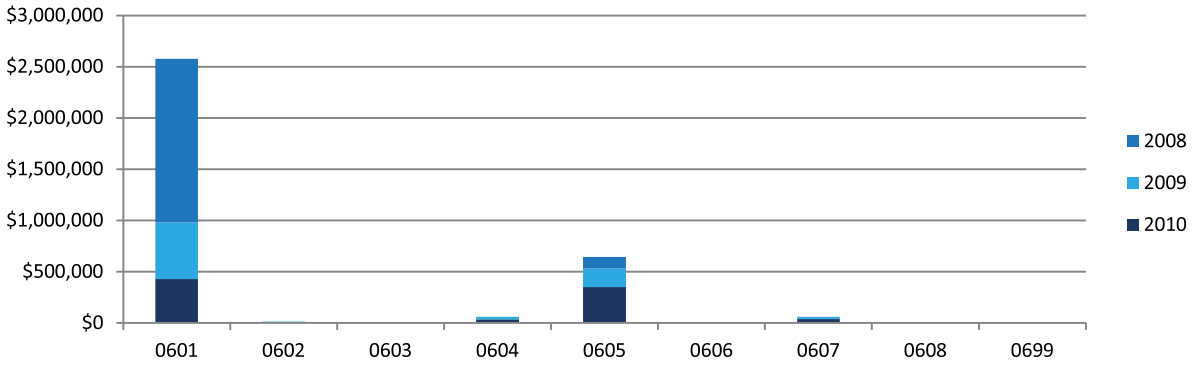
FoR code		Australia	USA	Europe	Japan	Other Int'l	Triadic	Total
0601	Biochemistry and Cell Biology	6.8	13.6	6.5	2.7	17.8	0.0	47.4
0602	Ecology	0.0	0.0	0.0	0.0	0.4	0.0	0.4
0603	Evolutionary Biology	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0604	Genetics	2.4	4.2	0.6	1.0	4.1	0.0	12.3
0605	Microbiology	4.9	3.7	2.2	3.1	16.6	0.0	30.5
0606	Physiology	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0607	Plant Biology	4.6	5.9	1.9	0.7	13.3	0.0	26.4
0608	Zoology	1.3	0.3	0.0	0.0	0.3	0.0	1.9
0699	Other Biological Sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total		20.0	27.7	11.2	7.5	52.5	0.0	118.9

Research income by year—all categories ($)



FoR code		2008	2009	2010	Total
0601	Biochemistry and Cell Biology	$106,005,081	$116,830,774	$122,112,647	$344,948,502
0602	Ecology	$41,654,362	$40,741,764	$45,767,128	$128,163,254
0603	Evolutionary Biology	$9,595,551	$9,008,633	$12,072,378	$30,676,562
0604	Genetics	$60,585,899	$59,083,294	$60,690,249	$180,359,442
0605	Microbiology	$22,655,612	$25,966,535	$26,859,748	$75,481,895
0606	Physiology	$9,051,635	$7,362,576	$7,854,044	$24,268,255
0607	Plant Biology	$42,483,086	$41,039,272	$40,003,747	$123,526,105
0608	Zoology	$18,503,630	$16,734,278	$16,539,615	$51,777,523
0699	Other Biological Sciences	$2,733,809	$2,912,267	$3,549,616	$9,195,692
Total		$313,268,665	$319,679,393	$335,449,172	$968,397,230

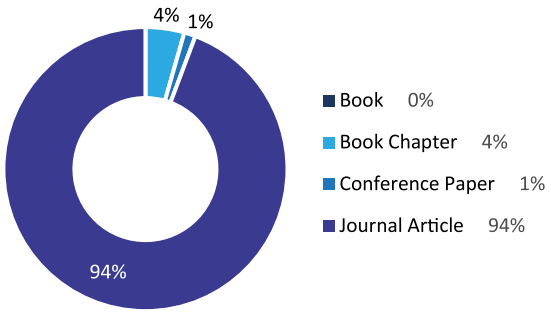
Research commercialisation income by year ($)



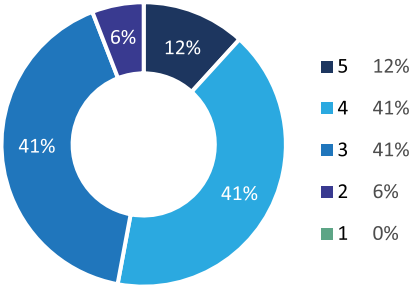
FoR code		2008	2009	2010	Total
0601	Biochemistry and Cell Biology	$1,595,481	$552,473	$430,054	$2,578,008
0602	Ecology	$0	$15,058	$0	$15,058
0603	Evolutionary Biology	$0	$0	$0	$0
0604	Genetics	$0	$23,903	$36,831	$60,734
0605	Microbiology	$111,763	$181,607	$351,215	$644,585
0606	Physiology	$196	$1,508	$0	$1,704
0607	Plant Biology	$2,480	$19,037	$38,158	$59,675
0608	Zoology	$0	$0	$0	$0
0699	Other Biological Sciences	$0	$0	$0	$0
Total		$1,709,920	$793,586	$856,258	$3,359,764

0601 Biochemistry and Cell Biology		16 out of 17 assessed UoEs were rated at or above world standard	
FTEs	1046.8	Rating	Distribution
Research outputs	6,583.5	5	2
Research income	$344,948,502	4	7
UoEs assessed	17	3	7
Esteem count	173.3	2	1
Patents	47.4	1	0
Research commercialisation income	$2,578,008	**Total**	**17**

Research outputs by type

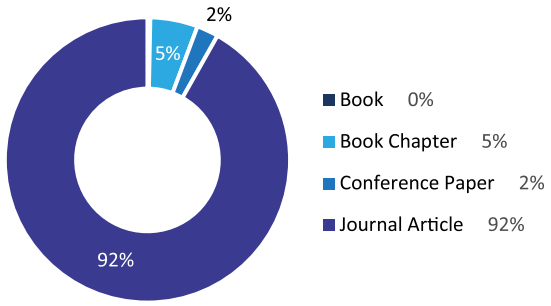


FoR rating distribution

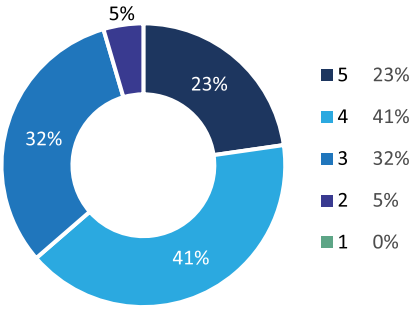


0602 Ecology		21 out of 22 assessed UoEs were rated at or above world standard	
FTEs	408.3	Rating	Distribution
Research outputs	4,945.4	5	5
Research income	$128,163,254	4	9
UoEs assessed	22	3	7
Esteem count	51.7	2	1
Patents	0.4	1	0
Research commercialisation income	$15,058	**Total**	**22**

Research outputs by type

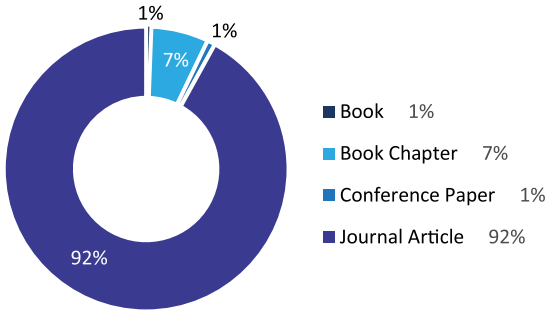


FoR rating distribution

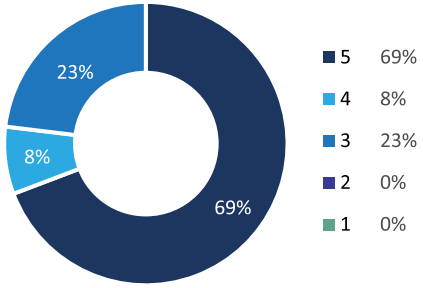


0603 Evolutionary Biology		13 out of 13 assessed UoEs were rated at or above world standard	
FTEs	143.8	Rating	Distribution
Research outputs	1,938.1	5	9
Research income	$30,676,562	4	1
UoEs assessed	13	3	3
Esteem count	45.7	2	0
Patents	0	1	0
Research commercialisation income	$0	**Total**	**13**

Research outputs by type



FoR rating distribution



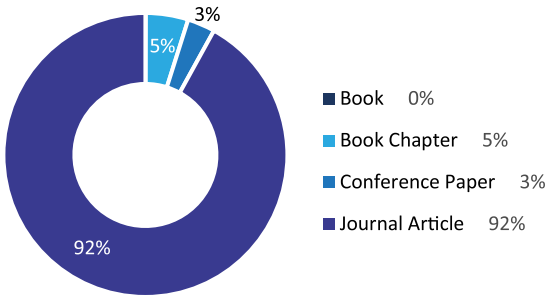
0604 Genetics

13 out of 14 assessed UoEs were rated at or above world standard

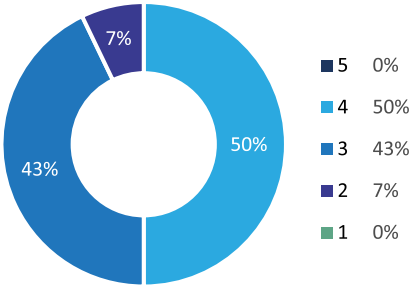
FTEs	350.2
Research outputs	3,237.9
Research income	$180,359,442
UoEs assessed	14
Esteem count	68.9
Patents	12.3
Research commercialisation income	$60,734

Rating	Distribution
5	0
4	7
3	6
2	1
1	0
Total	**14**

Research outputs by type



FoR rating distribution



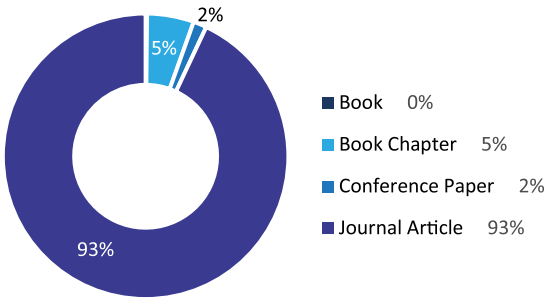
0605 Microbiology

15 out of 17 assessed UoEs were rated at or above world standard

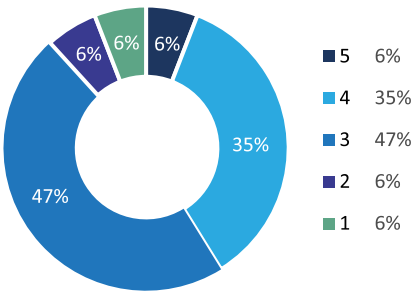
FTEs	369.7
Research outputs	3,437.9
Research income	$75,481,895
UoEs assessed	17
Esteem count	29.4
Patents	30.5
Research commercialisation income	$644,585

Rating	Distribution
5	1
4	6
3	8
2	1
1	1
Total	**17**

Research outputs by type



FoR rating distribution



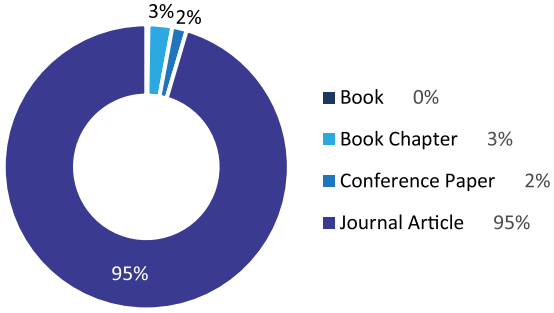
0606 Physiology

5 out of 5 assessed UoEs were rated at or above world standard

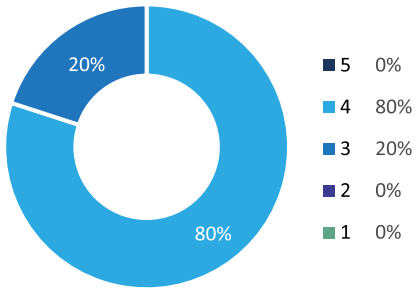
FTEs	143.2
Research outputs	1,348.7
Research income	$24,268,255
UoEs assessed	5
Esteem count	21.4
Patents	0
Research commercialisation income	$1,704

Rating	Distribution
5	0
4	4
3	1
2	0
1	0
Total	**5**

Research outputs by type

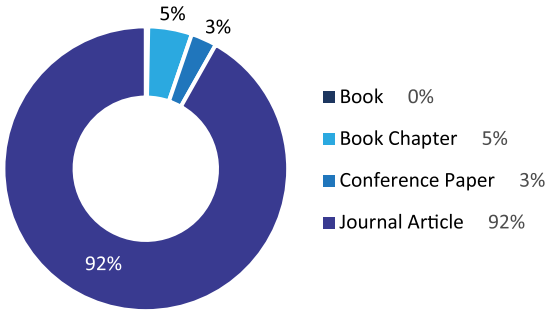


FoR rating distribution

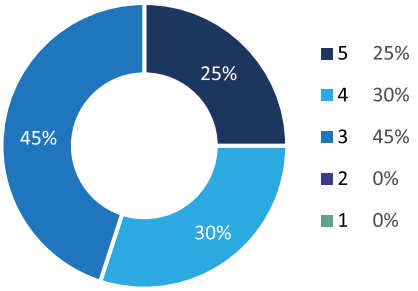


0607 Plant Biology			20 out of 20 assessed UoEs were rated at or above world standard	
FTEs	371.7		Rating	Distribution
Research outputs	3,614.0		5	5
Research income	$123,526,105		4	6
UoEs assessed	20		3	9
Esteem count	46.9		2	0
Patents	26.4		1	0
Research commercialisation income	$59,675		**Total**	**20**

Research outputs by type

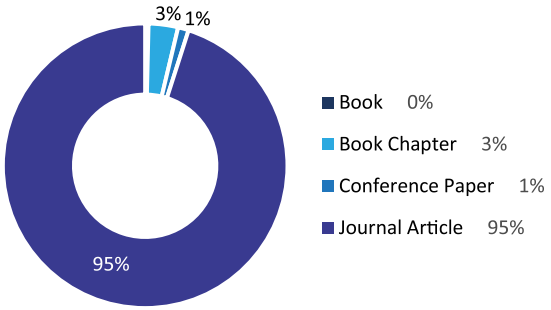


FoR rating distribution

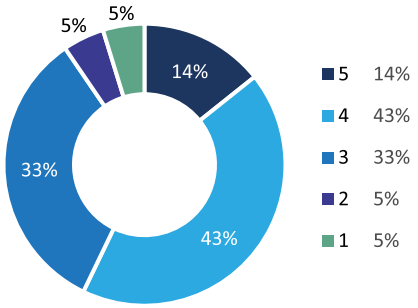


0608 Zoology			19 out of 21 assessed UoEs were rated at or above world standard	
FTEs	280.6		Rating	Distribution
Research outputs	5,014.7		5	3
Research income	$51,777,523		4	9
UoEs assessed	21		3	7
Esteem count	39.1		2	1
Patents	1.9		1	1
Research commercialisation income	$0		**Total**	**21**

Research outputs by type

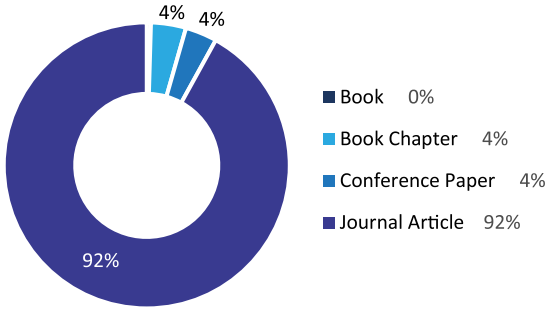


FoR rating distribution

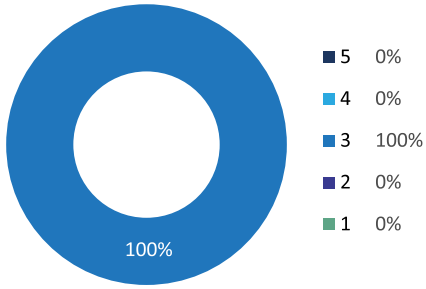


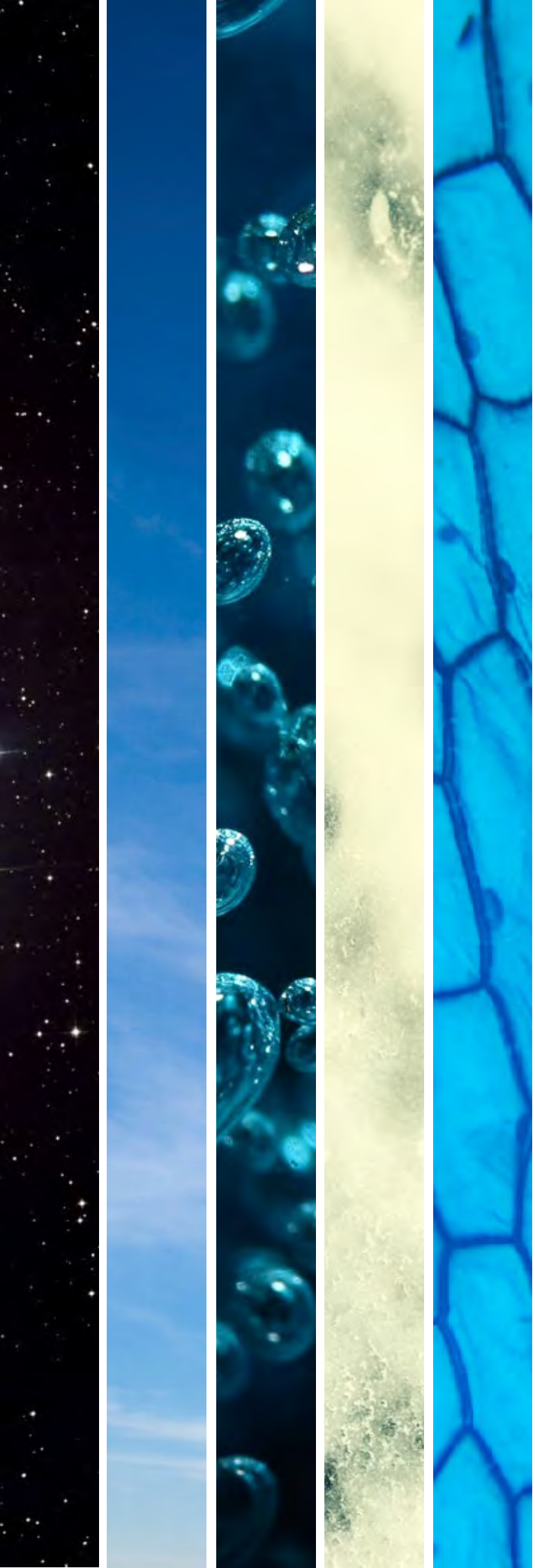
0699 Other Biological Sciences			1 out of 1 assessed UoEs were rated at or above world standard	
FTEs	213.2		Rating	Distribution
Research outputs	747.1		5	0
Research income	$9,195,692		4	0
UoEs assessed	1		3	1
Esteem count	2.5		2	0
Patents	0		1	0
Research commercialisation income	$0		**Total**	**1**

Research outputs by type



FoR rating distribution





07 Agricultural and Veterinary Sciences

Agricultural and Veterinary Sciences is comprised of the following four-digit codes:

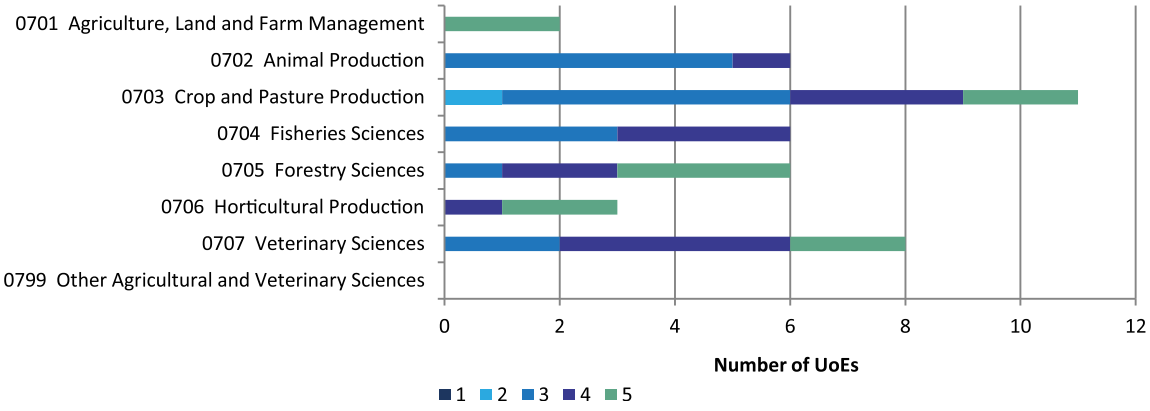
07	**Agricultural and Veterinary Sciences**	**102**
0701	Agriculture, Land and Farm Management	105
0702	Animal Production	105
0703	Crop and Pasture Production	105
0704	Fisheries Sciences	106
0705	Forestry Sciences	106
0706	Horticultural Production	106
0707	Veterinary Sciences	107
0799	Other Agricultural and Veterinary Sciences	107

07 Agricultural and Veterinary Sciences		41 out of 42 assessed UoEs were rated at or above world standard	
FTEs	1,102.1	Rating	Distribution
Research outputs	11,032.1	5	11
Research income	$461,716,131	4	14
UoEs assessed	42	3	16
Esteem count	37.1	2	1
Patents	45.6	1	0
Research commercialisation income	$33,747,615	**Total**	**42**

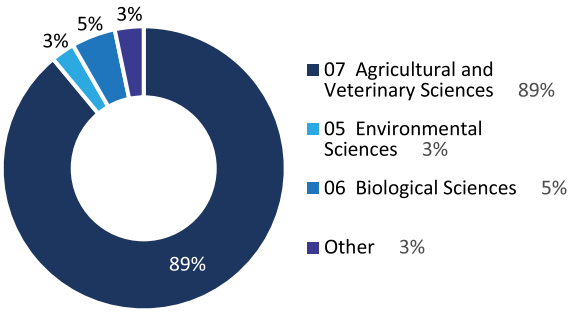
FoR overview

Agricultural and Veterinary Sciences (07) accounted for approximately 3% of the research outputs submitted to ERA 2012 . While most of the Agricultural and Veterinary Sciences research outputs were journal articles, there was a significant proportion of conference papers. Approximately 11% of the 07 research outputs were also coded to other two-digit FoRs, with the largest of these being Biological Sciences (06) at 5%. More than 10% of the research commercialisation income submitted to ERA 2012 was from Agricultural and Veterinary Sciences.

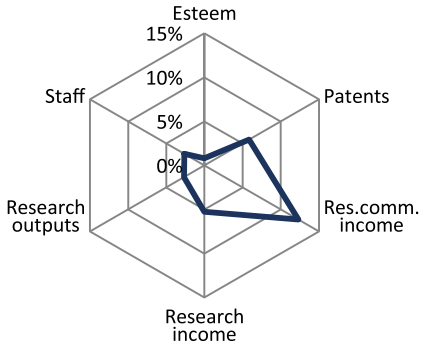
Number of UoEs per rating scale score



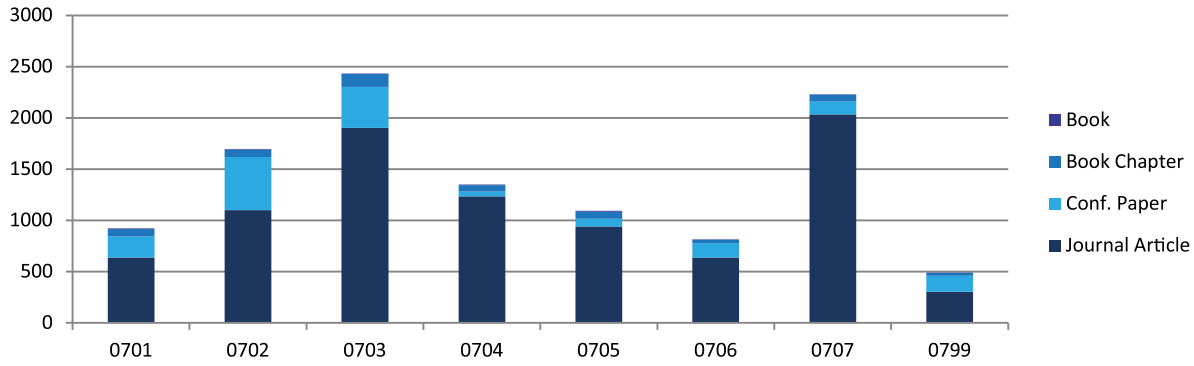
Disciplinary profile



Contribution to national landscape (%)

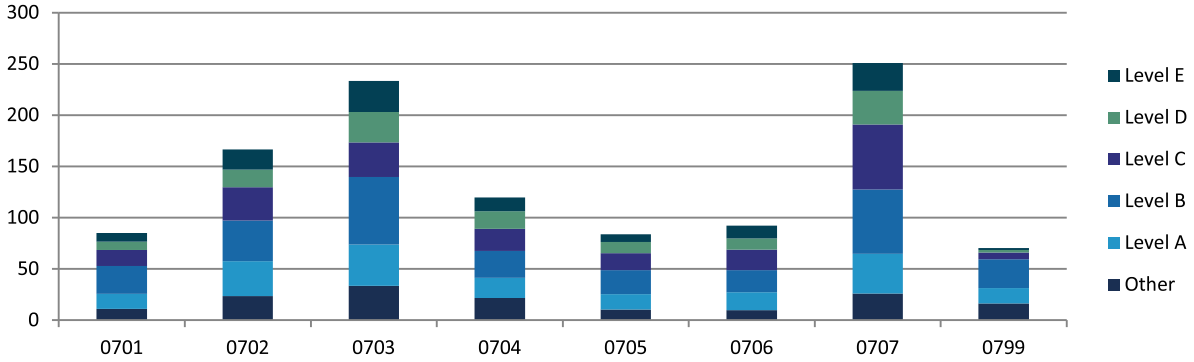


Research outputs submitted by type



FoR code		Book	Book Chapter	Conference Paper	Journal Article	Total
0701	Agriculture, Land and Farm Management	5.2	71.2	207.1	637.8	921.3
0702	Animal Production	5.9	71.5	520.2	1,099.7	1,697.3
0703	Crop and Pasture Production	3.5	126.6	399.5	1,904.1	2,433.7
0704	Fisheries Sciences	6.5	64.4	46.6	1,233.8	1,351.3
0705	Forestry Sciences	8.3	70.1	75.6	940.0	1,094.0
0706	Horticultural Production	2.3	32.5	140.3	639.7	814.8
0707	Veterinary Sciences	2.5	69.4	125.9	2,032.5	2,230.3
0799	Other Agricultural and Veterinary Sciences	2.4	25.9	155.4	305.7	489.4
Total		36.6	531.6	1,670.6	8,793.3	11,032.1

Staffing profile by academic level

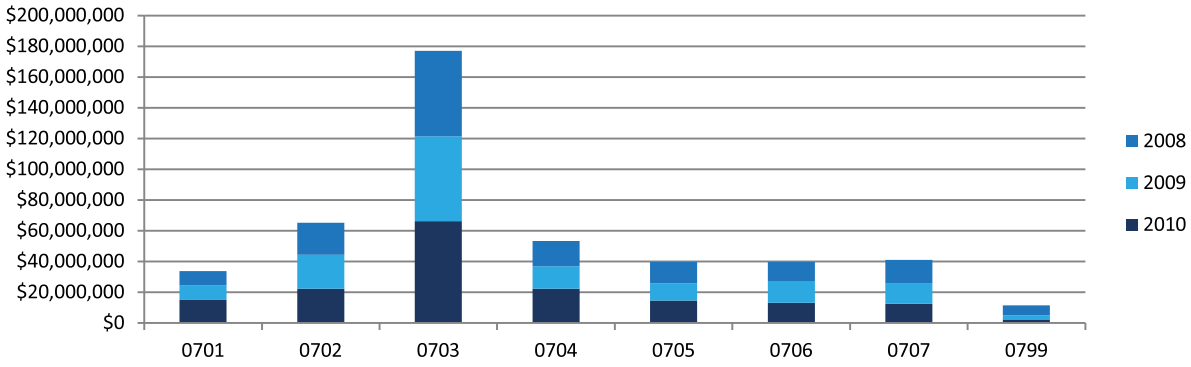


FoR code		Level E	Level D	Level C	Level B	Level A	Other	Total
0701	Agriculture, Land and Farm Management	8.5	8.3	15.5	27.1	14.7	11.1	85.2
0702	Animal Production	19.5	17.3	32.4	39.7	34.0	23.6	166.5
0703	Crop and Pasture Production	30.3	29.7	33.7	66.0	40.0	33.7	233.4
0704	Fisheries Sciences	13.3	17.2	21.6	26.2	19.6	21.8	119.7
0705	Forestry Sciences	7.3	11.1	16.3	23.5	14.9	10.6	83.7
0706	Horticultural Production	12.4	11.1	19.9	21.7	17.3	9.9	92.3
0707	Veterinary Sciences	27.1	32.7	63.5	62.6	38.7	26.2	250.8
0799	Other Agricultural and Veterinary Sciences	2.1	2.5	6.3	28.2	14.9	16.5	70.5
Total		120.5	129.9	209.2	295.0	194.1	153.4	1,102.1

Patent profile

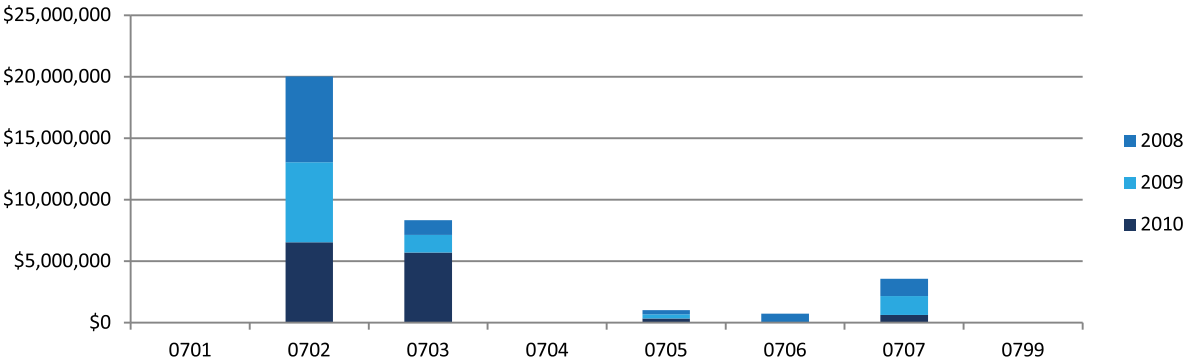
FoR code		Australia	USA	Europe	Japan	Other Int'l	Triadic	Total
0701	Agriculture, Land and Farm Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0702	Animal Production	0.0	0.0	0.0	0.0	1.5	0.0	1.5
0703	Crop and Pasture Production	1.8	1.9	0.6	0.1	4.8	0.0	9.2
0704	Fisheries Sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0705	Forestry Sciences	2.3	0.0	0.8	0.8	14.8	0.0	18.7
0706	Horticultural Production	2.6	1.2	0.5	0.0	0.5	0.0	4.8
0707	Veterinary Sciences	1.0	2.1	0.6	0.6	7.1	0.0	11.4
0799	Other Agricultural and Veterinary Sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total		7.7	5.2	2.5	1.5	28.7	0.0	45.6

Research income by year—all categories ($)



FoR code		2008	2009	2010	Total
0701	Agriculture, Land and Farm Management	$9,380,595	$9,208,296	$15,143,592	$33,732,483
0702	Animal Production	$20,752,021	$22,175,142	$22,274,261	$65,201,424
0703	Crop and Pasture Production	$55,559,827	$55,219,907	$66,195,814	$176,975,548
0704	Fisheries Sciences	$16,423,776	$14,521,237	$22,433,227	$53,378,240
0705	Forestry Sciences	$13,936,765	$11,244,988	$14,706,528	$39,888,281
0706	Horticultural Production	$12,597,232	$13,994,418	$13,301,901	$39,893,551
0707	Veterinary Sciences	$15,424,540	$13,104,888	$12,559,193	$41,088,621
0799	Other Agricultural and Veterinary Sciences	$6,490,086	$2,747,183	$2,320,714	$11,557,983
Total		$150,564,842	$142,216,059	$168,935,230	$461,716,131

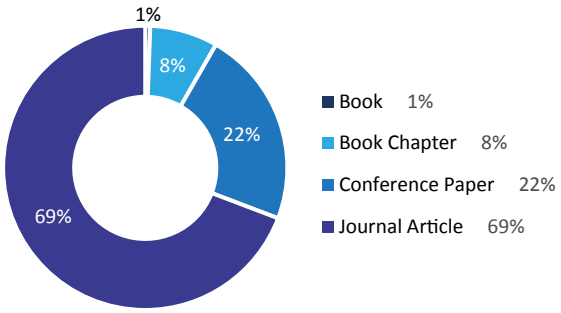
Research commercialisation income by year ($)



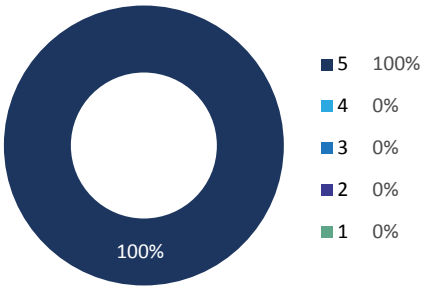
FoR code		2008	2009	2010	Total
0701	Agriculture, Land and Farm Management	$0	$0	$0	$0
0702	Animal Production	$6,974,941	$6,513,618	$6,538,637	$20,027,196
0703	Crop and Pasture Production	$1,188,550	$1,433,033	$5,706,910	$8,328,493
0704	Fisheries Sciences	$0	$0	$38,998	$38,998
0705	Forestry Sciences	$342,150	$341,463	$340,776	$1,024,389
0706	Horticultural Production	$732,853	$0	$18,180	$751,033
0707	Veterinary Sciences	$1,402,132	$1,531,405	$643,969	$3,577,506
0799	Other Agricultural and Veterinary Sciences	$0	$0	$0	$0
Total		$10,640,626	$9,819,519	$13,287,470	$33,747,615

0701 Agriculture, Land and Farm Management		2 out of 2 assessed UoEs were rated at or above world standard	
FTEs	85.2	Rating	Distribution
Research outputs	921.3	5	2
Research income	$33,732,483	4	0
UoEs assessed	2	3	0
Esteem count	2.6	2	0
Patents	0	1	0
Research commercialisation income	$0	**Total**	**2**

Research outputs by type

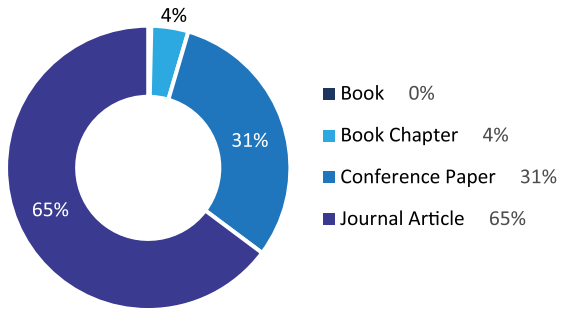


FoR rating distribution

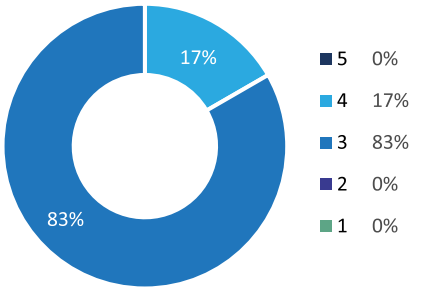


0702 Animal Production		6 out of 6 assessed UoEs were rated at or above world standard	
FTEs	166.5	Rating	Distribution
Research outputs	1,697.3	5	0
Research income	$65,201,424	4	1
UoEs assessed	6	3	5
Esteem count	3.2	2	0
Patents	1.5	1	0
Research commercialisation income	$20,027,196	**Total**	**6**

Research outputs by type

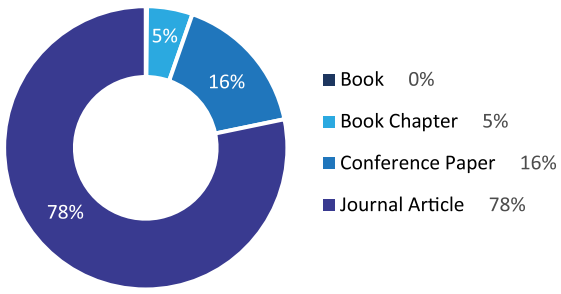


FoR rating distribution

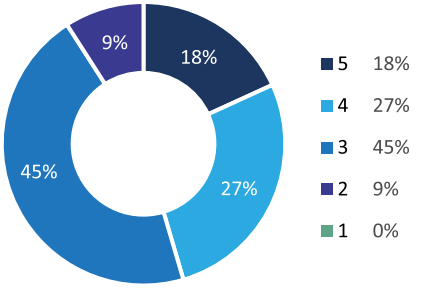


0703 Crop and Pasture Production		10 out of 11 assessed UoEs were rated at or above world standard	
FTEs	233.4	Rating	Distribution
Research outputs	2,433.7	5	2
Research income	$176,975,548	4	3
UoEs assessed	11	3	5
Esteem count	9.4	2	1
Patents	9.2	1	0
Research commercialisation income	$8,328,493	**Total**	**11**

Research outputs by type

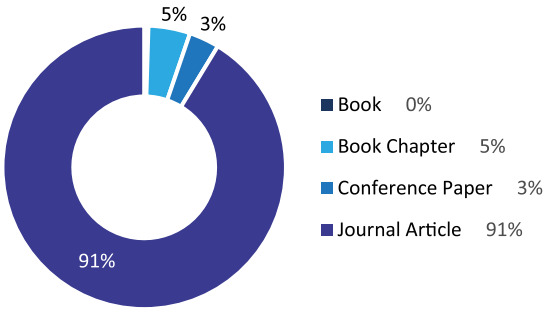


FoR rating distribution

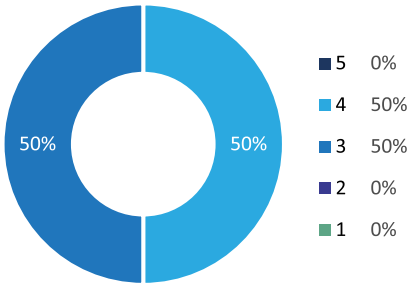


0704 Fisheries Sciences		6 out of 6 assessed UoEs were rated at or above world standard	
FTEs	119.7	Rating	Distribution
Research outputs	1,351.3	5	0
Research income	$53,378,240	4	3
UoEs assessed	6	3	3
Esteem count	5.3	2	0
Patents	0	1	0
Research commercialisation income	$38,998	**Total**	**6**

Research outputs by type

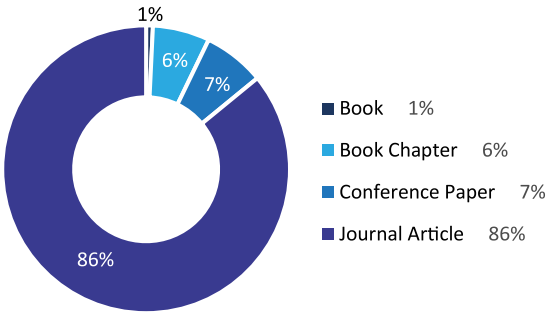


FoR rating distribution

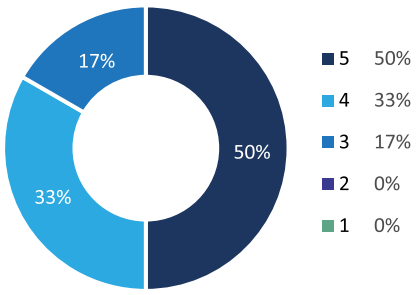


0705 Forestry Sciences		6 out of 6 assessed UoEs were rated at or above world standard	
FTEs	83.7	Rating	Distribution
Research outputs	1,094.0	5	3
Research income	$39,888,281	4	2
UoEs assessed	6	3	1
Esteem count	7.1	2	0
Patents	18.7	1	0
Research commercialisation income	$1,024,389	**Total**	**6**

Research outputs by type

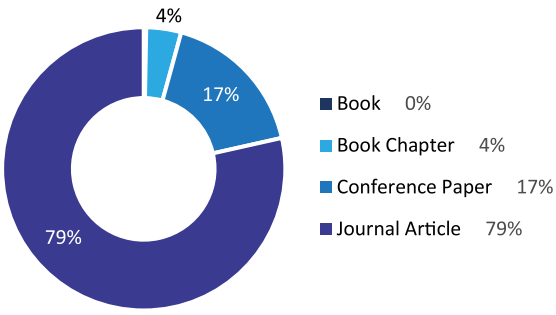


FoR rating distribution

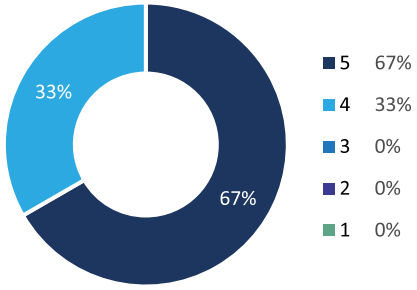


0706 Horticultural Production		3 out of 3 assessed UoEs were rated at or above world standard	
FTEs	92.3	Rating	Distribution
Research outputs	814.8	5	2
Research income	$39,893,551	4	1
UoEs assessed	3	3	0
Esteem count	2.5	2	0
Patents	4.8	1	0
Research commercialisation income	$751,033	**Total**	**3**

Research outputs by type

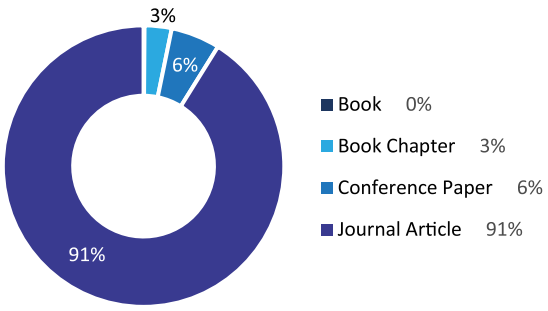


FoR rating distribution

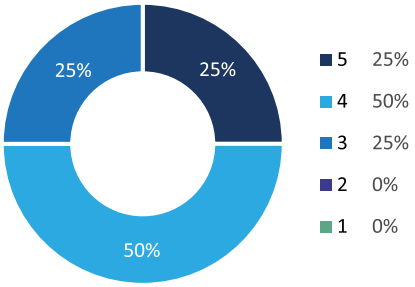


0707 Veterinary Sciences		8 out of 8 assessed UoEs were rated at or above world standard	
FTEs	250.8	Rating	Distribution
Research outputs	2,230.3	5	2
Research income	$41,088,621	4	4
UoEs assessed	8	3	2
Esteem count	7	2	0
Patents	11.4	1	0
Research commercialisation income	$3,577,506	**Total**	**8**

Research outputs by type

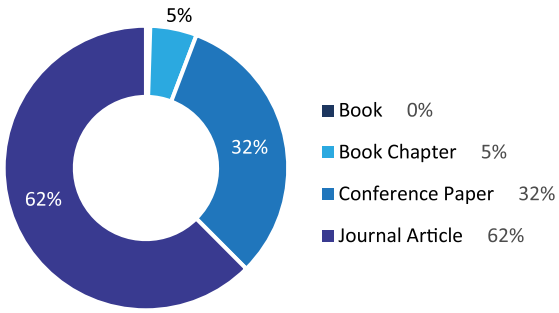


FoR rating distribution

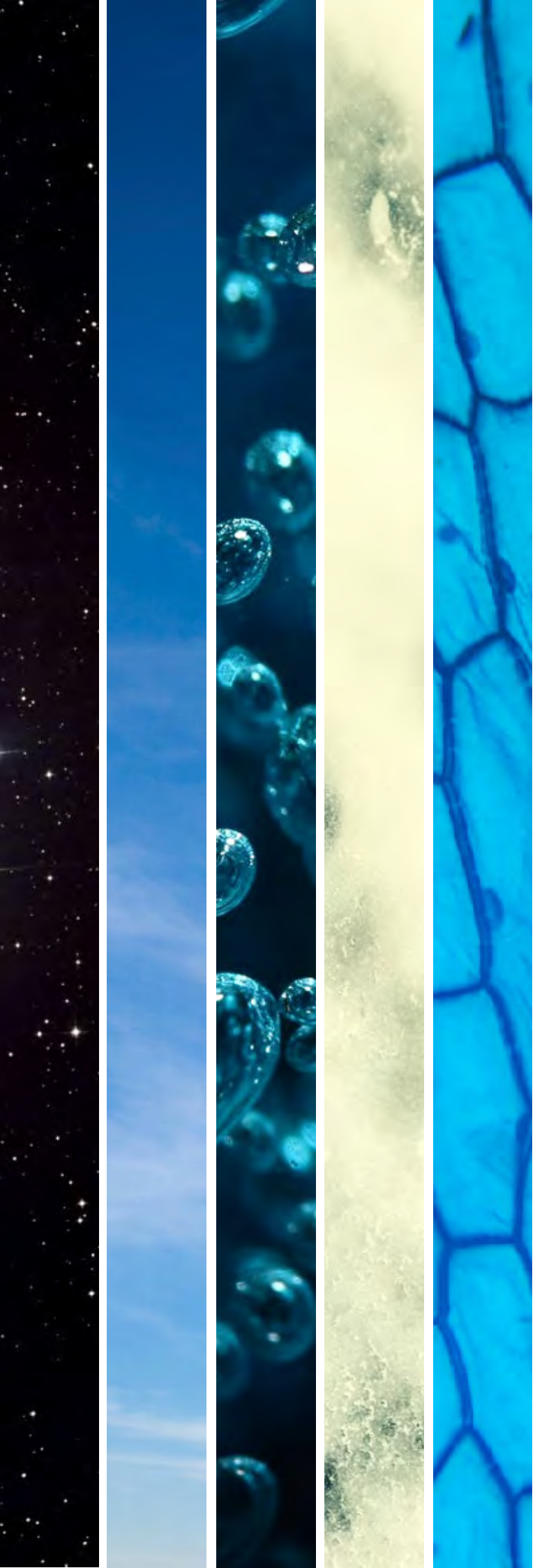


0799 Other Agricultural and Veterinary Sciences		0 UoEs were assessed in this FoR	
FTEs	70.5	Rating	Distribution
Research outputs	489.4	5	0
Research income	$11,557,983	4	0
UoEs assessed	0	3	0
Esteem count	0	2	0
Patents	0	1	0
Research commercialisation income	$0	**Total**	**0**

Research outputs by type



Note: There is no FoR rating distribution for 0799



08 Information and Computing Sciences

Information and Computing Sciences is comprised of the following four-digit codes:

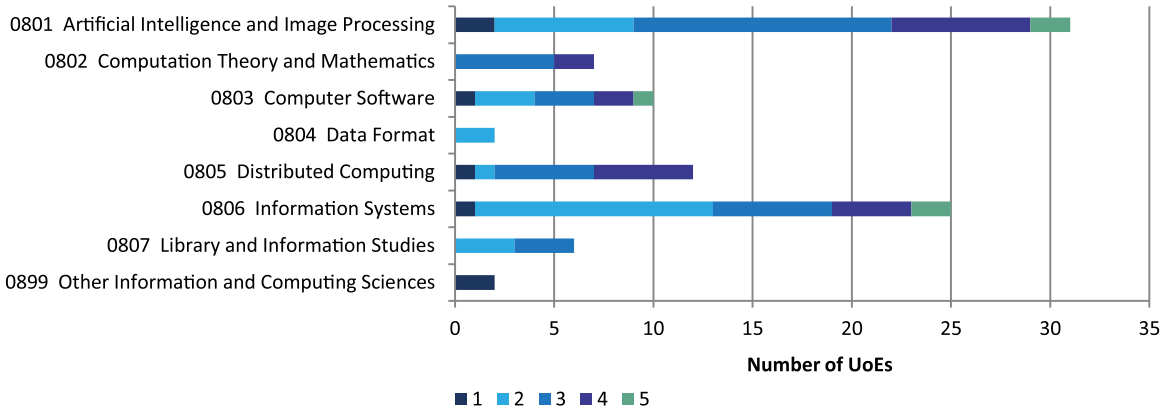
08	**Information and Computing Sciences**	**109**
0801	Artificial Intelligence and Image Processing	112
0802	Computation Theory and Mathematics	112
0803	Computer Software	112
0804	Data Format	113
0805	Distributed Computing	113
0806	Information Systems	113
0807	Library and Information Studies	114
0899	Other Information and Computing Sciences	114

08 Information and Computing Sciences		60 out of 95 assessed UoEs were rated at or above world standard	
FTEs	1,734.0	Rating	Distribution
Research outputs	24,164.7	5	5
Research income	$221,997,038	4	20
UoEs assessed	95	3	35
Esteem count	72.2	2	28
Patents	18.9	1	7
Research commercialisation income	$26,449,744	**Total**	**95**

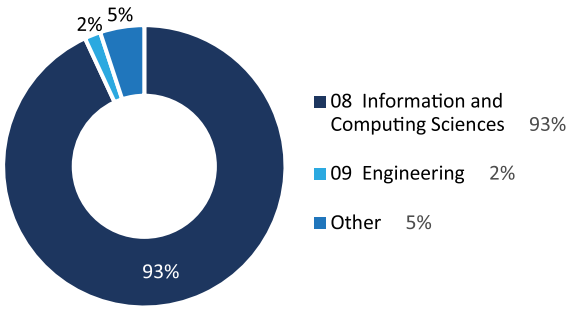
FoR overview

Information and Computing Sciences (08) accounted for approximately 6% of the research outputs submitted to ERA 2012. Conference papers were the most common research output type. Information and Computing Sciences contributed approximately 10% of the total research commercialisation income submitted to ERA 2012. Approximately 2% of the Information and Computing Sciences research outputs were also coded to Engineering (09). Although Data Format (0804) had relatively low research outputs and staffing, it contributed a proportionately high amount of research commercialisation income.

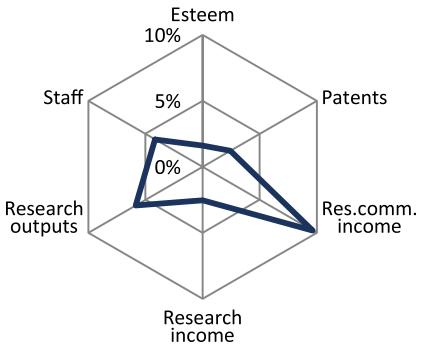
Number of UoEs per rating scale score



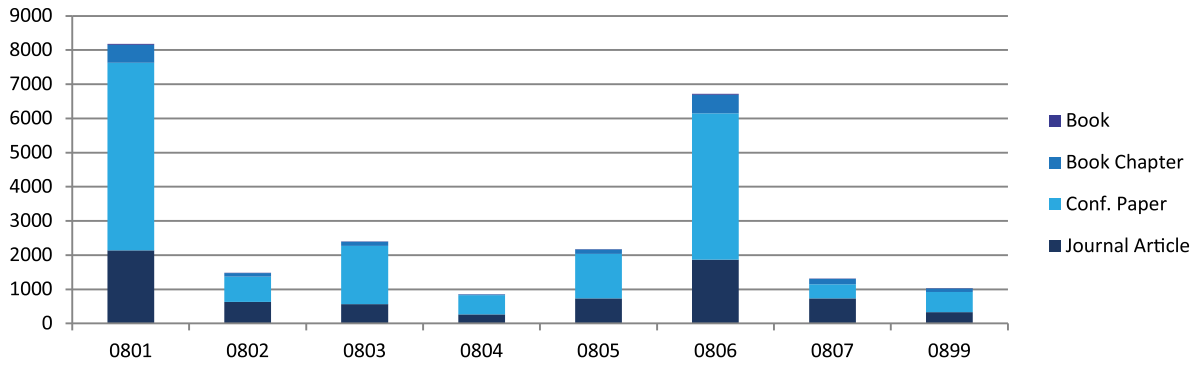
Disciplinary profile



Contribution to national landscape (%)

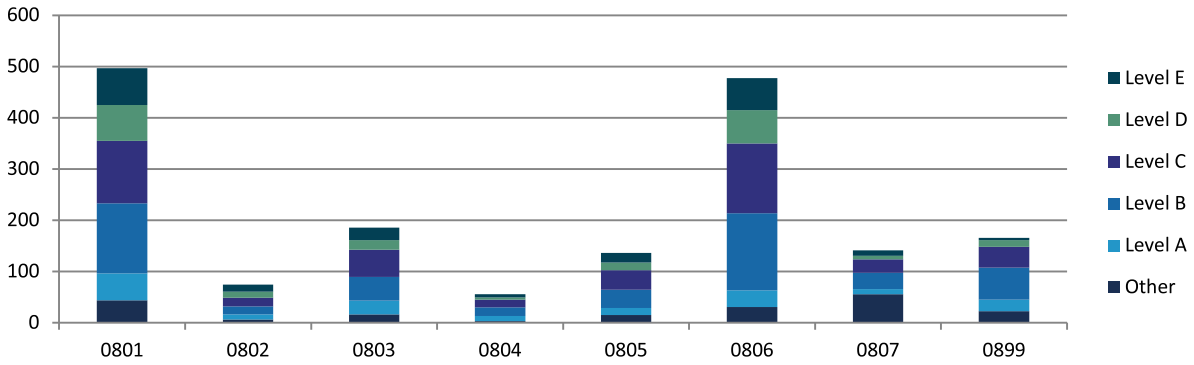


Research outputs submitted by type



FoR code		Book	Book Chapter	Conference Paper	Journal Article	Total
0801	Artificial Intelligence and Image Processing	30.1	523.5	5,483.3	2,144.6	8,181.5
0802	Computation Theory and Mathematics	4.7	105.3	743.7	630.0	1,483.7
0803	Computer Software	12.9	121.5	1,705.8	565.5	2,405.7
0804	Data Format	4.3	25.0	562.0	265.1	856.4
0805	Distributed Computing	5.7	134.0	1,298.9	736.5	2,175.1
0806	Information Systems	31.4	541.3	4,280.1	1,866.5	6,719.3
0807	Library and Information Studies	6.3	158.2	415.8	732.5	1,312.8
0899	Other Information and Computing Sciences	4.2	103.5	586.5	336.0	1,030.2
Total		99.6	1,712.3	15,076.1	7,276.7	24,164.7

Staffing profile by academic level

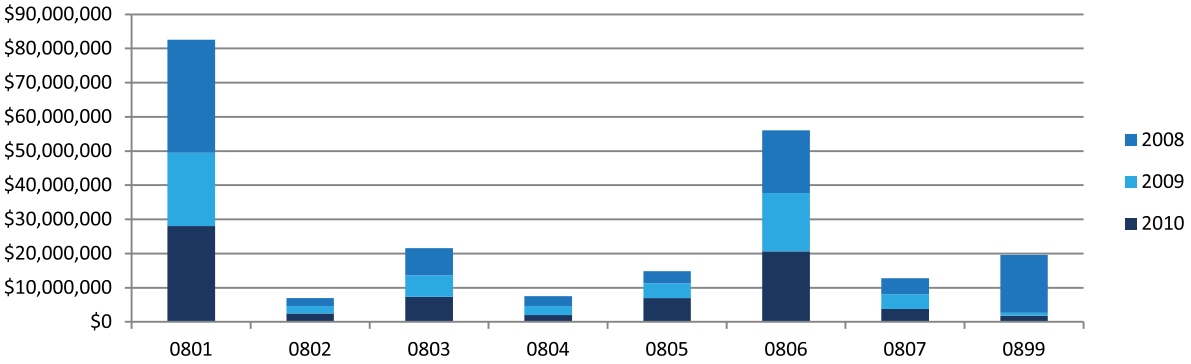


FoR code		Level E	Level D	Level C	Level B	Level A	Other	Total
0801	Artificial Intelligence and Image Processing	72.1	69.8	121.4	136.8	52.5	44.2	496.8
0802	Computation Theory and Mathematics	13.4	12.4	16.7	15.4	10.3	6.3	74.5
0803	Computer Software	23.9	19.0	53.2	46.4	26.5	16.6	185.6
0804	Data Format	6.0	4.4	14.9	17.2	9.5	3.7	55.7
0805	Distributed Computing	18.8	14.9	38.0	35.4	14.2	15.0	136.3
0806	Information Systems	62.8	64.8	136.2	150.5	32.5	30.6	477.4
0807	Library and Information Studies	10.8	6.8	26.6	31.9	9.5	56.1	141.7
0899	Other Information and Computing Sciences	4.7	12.9	40.6	62.5	22.3	23.0	166.0
Total		212.5	205.0	447.6	496.1	177.3	195.5	1,734.0

Patent profile

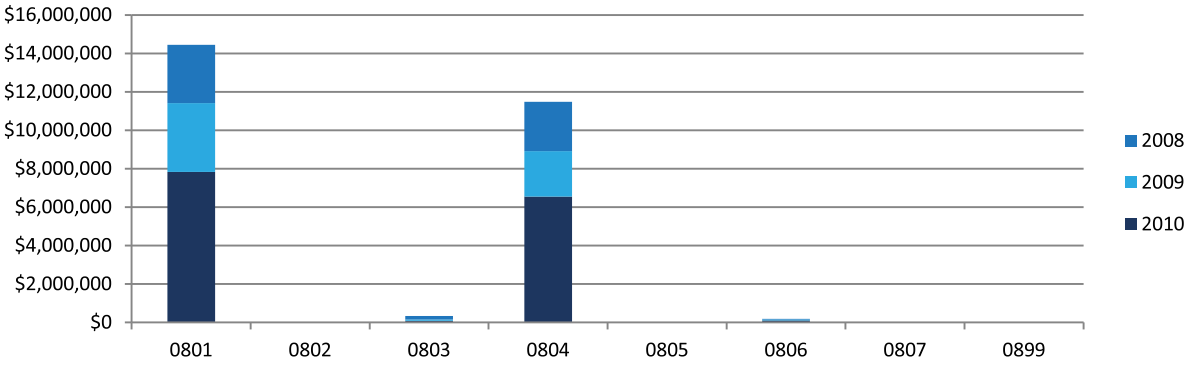
FoR code		Australia	USA	Europe	Japan	Other Int'l	Triadic	Total
0801	Artificial Intelligence and Image Processing	9.2	2.5	0.3	0.3	2.4	0.0	14.7
0802	Computation Theory and Mathematics	0.0	1.0	0.0	0.0	0.0	0.0	1.0
0803	Computer Software	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0804	Data Format	0.3	1.0	0.3	0.3	0.0	0.0	1.9
0805	Distributed Computing	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0806	Information Systems	0.3	1.0	0.0	0.0	0.0	0.0	1.3
0807	Library and Information Studies	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0899	Other Information and Computing Sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total		9.8	5.5	0.6	0.6	2.4	0.0	18.9

Research income by year—all categories ($)



FoR code		2008	2009	2010	Total
0801	Artificial Intelligence and Image Processing	$33,015,712	$21,453,142	$28,056,856	$82,525,710
0802	Computation Theory and Mathematics	$2,383,955	$2,165,811	$2,459,590	$7,009,356
0803	Computer Software	$7,958,208	$6,267,731	$7,363,331	$21,589,270
0804	Data Format	$2,957,413	$2,605,584	$2,010,097	$7,573,094
0805	Distributed Computing	$3,549,043	$4,285,192	$7,004,814	$14,839,049
0806	Information Systems	$18,383,513	$17,063,943	$20,635,486	$56,082,942
0807	Library and Information Studies	$4,672,611	$4,293,058	$3,772,011	$12,737,680
0899	Other Information and Computing Sciences	$16,984,864	$856,068	$1,799,005	$19,639,937
Total		$89,905,319	$58,990,529	$73,101,190	$221,997,038

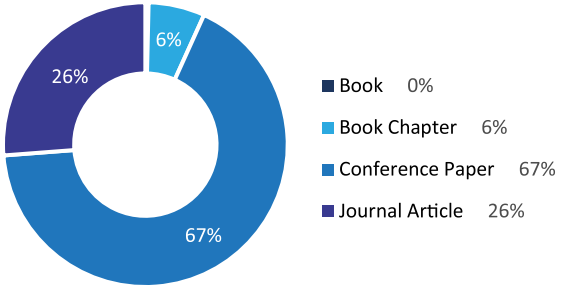
Research commercialisation income by year ($)



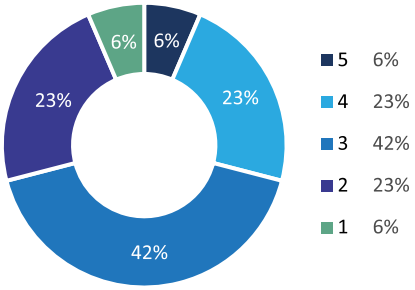
FoR code		2008	2009	2010	Total
0801	Artificial Intelligence and Image Processing	$3,035,980	$3,572,595	$7,836,305	$14,444,880
0802	Computation Theory and Mathematics	$0	$0	$0	$0
0803	Computer Software	$188,351	$63,966	$87,771	$340,088
0804	Data Format	$2,566,416	$2,359,488	$6,551,284	$11,477,188
0805	Distributed Computing	$0	$0	$0	$0
0806	Information Systems	$29,357	$43,340	$114,891	$187,588
0807	Library and Information Studies	$0	$0	$0	$0
0899	Other Information and Computing Sciences	$0	$0	$0	$0
Total		$5,820,104	$6,039,389	$14,590,251	$26,449,744

0801 Artificial Intelligence and Image Processing		22 out of 31 assessed UoEs were rated at or above world standard	
FTEs	496.8	Rating	Distribution
Research outputs	8,181.5	5	2
Research income	$82,525,710	4	7
UoEs assessed	31	3	13
Esteem count	30.6	2	7
Patents	14.7	1	2
Research commercialisation income	$14,444,880	**Total**	**31**

Research outputs by type

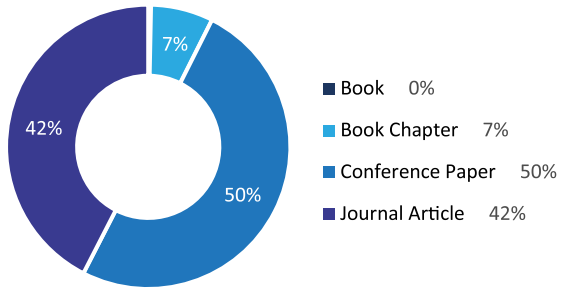


FoR rating distribution

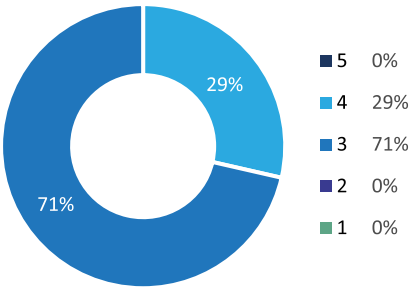


0802 Computation Theory and Mathematics		7 out of 7 assessed UoEs were rated at or above world standard	
FTEs	74.5	Rating	Distribution
Research outputs	1,483.7	5	0
Research income	$7,009,356	4	2
UoEs assessed	7	3	5
Esteem count	8.8	2	0
Patents	1.0	1	0
Research commercialisation income	$0	**Total**	**7**

Research outputs by type

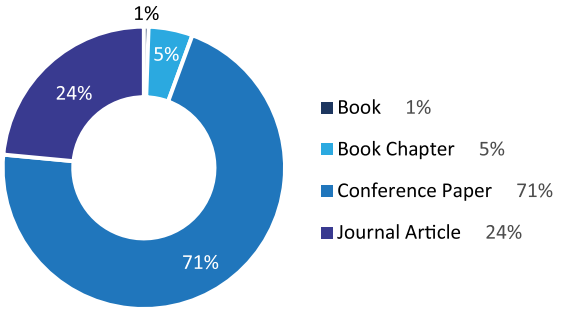


FoR rating distribution

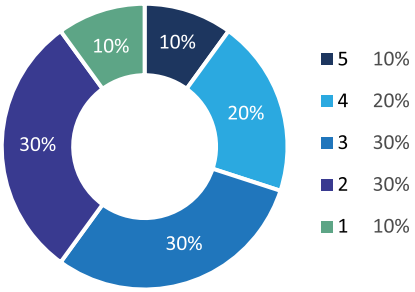


0803 Computer Software		6 out of 10 assessed UoEs were rated at or above world standard	
FTEs	185.6	Rating	Distribution
Research outputs	2,405.7	5	1
Research income	$21,589,270	4	2
UoEs assessed	10	3	3
Esteem count	6.5	2	3
Patents	0	1	1
Research commercialisation income	$340,088	**Total**	**10**

Research outputs by type

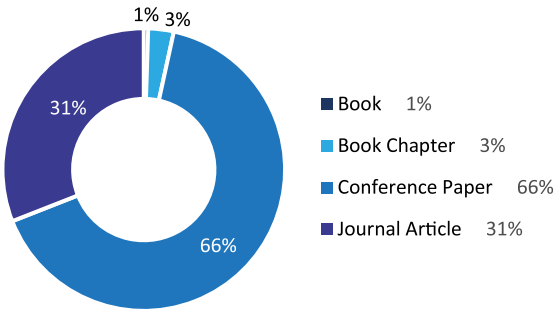


FoR rating distribution

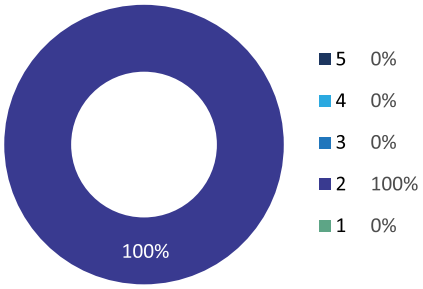


0804 Data Format			0 out of 2 assessed UoEs were rated at or above world standard	
FTEs	55.7		Rating	Distribution
Research outputs	856.4		5	0
Research income	$7,573,094		4	0
UoEs assessed	2		3	0
Esteem count	1.4		2	2
Patents	1.9		1	0
Research commercialisation income	$11,477,188		**Total**	**2**

Research outputs by type

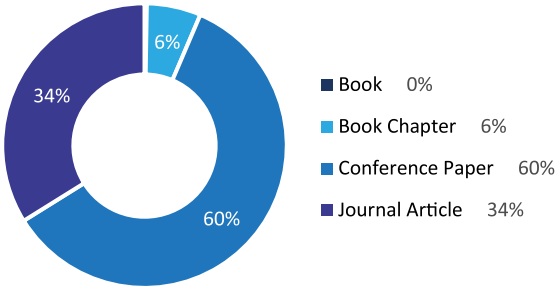


FoR rating distribution

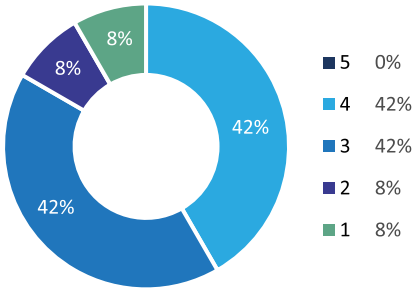


0805 Distributed Computing			10 out of 12 assessed UoEs were rated at or above world standard	
FTEs	136.3		Rating	Distribution
Research outputs	2,175.1		5	0
Research income	$14,839,049		4	5
UoEs assessed	12		3	5
Esteem count	5.3		2	1
Patents	0		1	1
Research commercialisation income	$0		**Total**	**12**

Research outputs by type

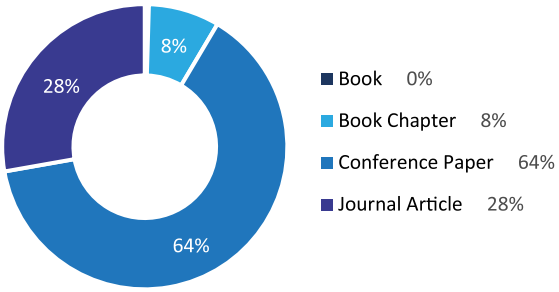


FoR rating distribution

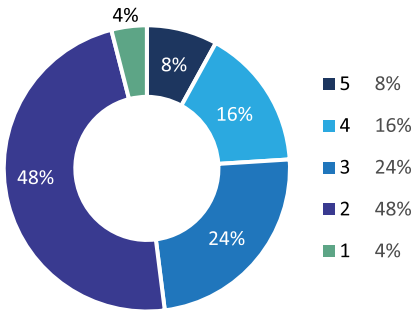


0806 Information Systems			12 out of 25 assessed UoEs were rated at or above world standard	
FTEs	477.4		Rating	Distribution
Research outputs	6,719.3		5	2
Research income	$56,082,942		4	4
UoEs assessed	25		3	6
Esteem count	17		2	12
Patents	1.3		1	1
Research commercialisation income	$187,588		**Total**	**25**

Research outputs by type

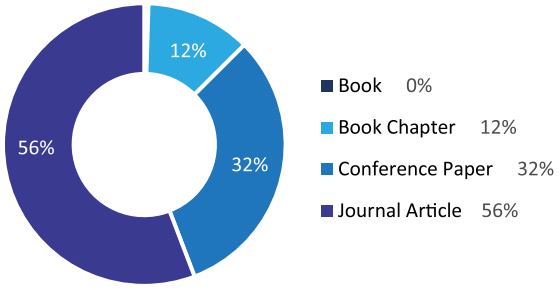


FoR rating distribution

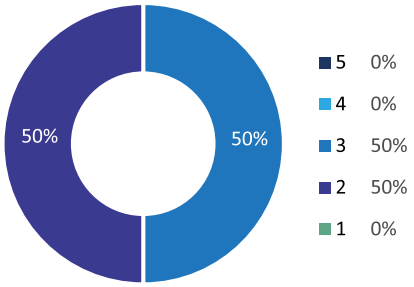


0807 Library and Information Studies			3 out of 6 assessed UoEs were rated at or above world standard	
FTEs	141.7		Rating	Distribution
Research outputs	1,312.8		5	0
Research income	$12,737,680		4	0
UoEs assessed	6		3	3
Esteem count	2		2	3
Patents	0		1	0
Research commercialisation income	$0		**Total**	**6**

Research outputs by type

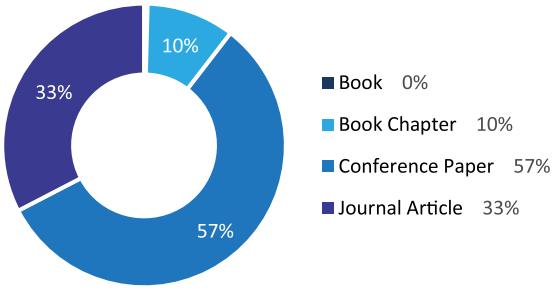


FoR rating distribution

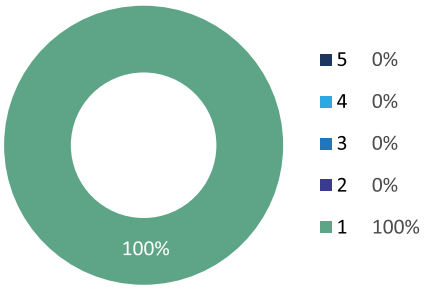


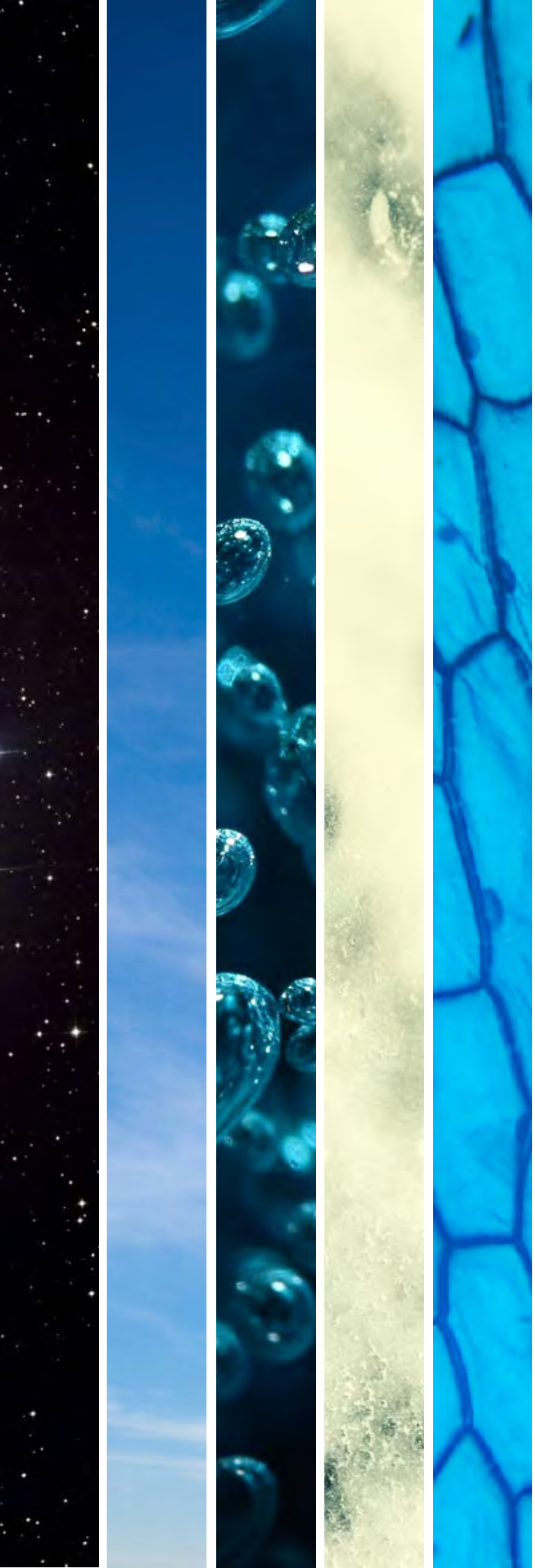
0899 Other Information and Computing Sciences			0 out of 2 assessed UoEs were rated at or above world standard	
FTEs	166.0		Rating	Distribution
Research outputs	1,030.2		5	0
Research income	$19,639,937		4	0
UoEs assessed	2		3	0
Esteem count	0.6		2	0
Patents	0		1	2
Research commercialisation income	$0		**Total**	**2**

Research outputs by type



FoR rating distribution





09 Engineering

Engineering is comprised of the following four-digit codes:

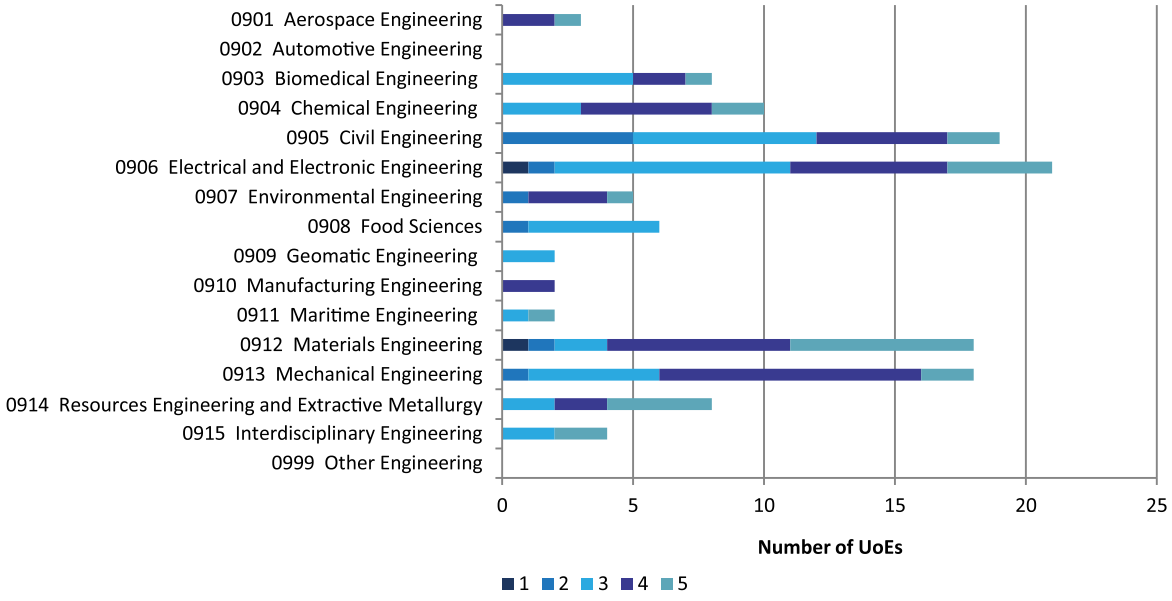
09	**Engineering**	**116**
0901	Aerospace Engineering	120
0902	Automotive Engineering	120
0903	Biomedical Engineering	120
0904	Chemical Engineering	121
0905	Civil Engineering	121
0906	Electrical and Electronic Engineering	121
0907	Environmental Engineering	122
0908	Food Sciences	122
0909	Geomatic Engineering	122
0910	Manufacturing Engineering	123
0911	Maritime Engineering	123
0912	Materials Engineering	123
0913	Mechanical Engineering	124
0914	Resources Engineering and Extractive Metallurgy	124
0915	Interdisciplinary Engineering	124
0999	Other Engineering	125

09 Engineering			114 out of 126 assessed UoEs were rated at or above world standard	
FTEs	3,131.0		Rating	Distribution
Research outputs	48,366.8		5	27
Research income	$965,457,937		4	44
UoEs assessed	126		3	43
Esteem count	343.5		2	10
Patents	206.6		1	2
Research commercialisation income	$44,596,284		**Total**	**126**

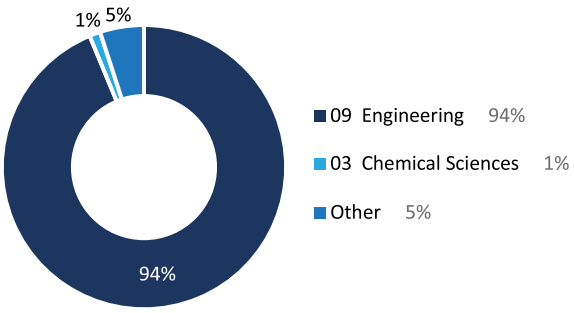
FoR overview

Engineering (09) accounted for approximately 12% of the research outputs submitted to ERA 2012. Almost 27% of the patents submitted to ERA 2012 were in Engineering. While journal articles were the predominant research output type, a large proportion of conference publications were also submitted to Engineering codes. Electrical and Electronic Engineering (0906) was the largest sub-discipline in terms of research outputs, staffing and research income.

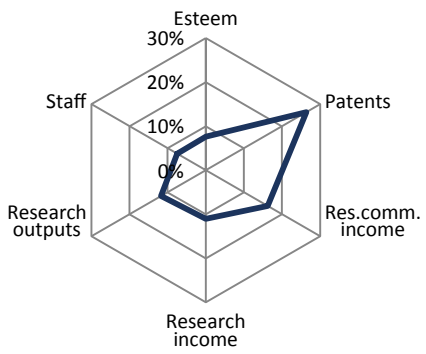
Number of UoEs per rating scale score



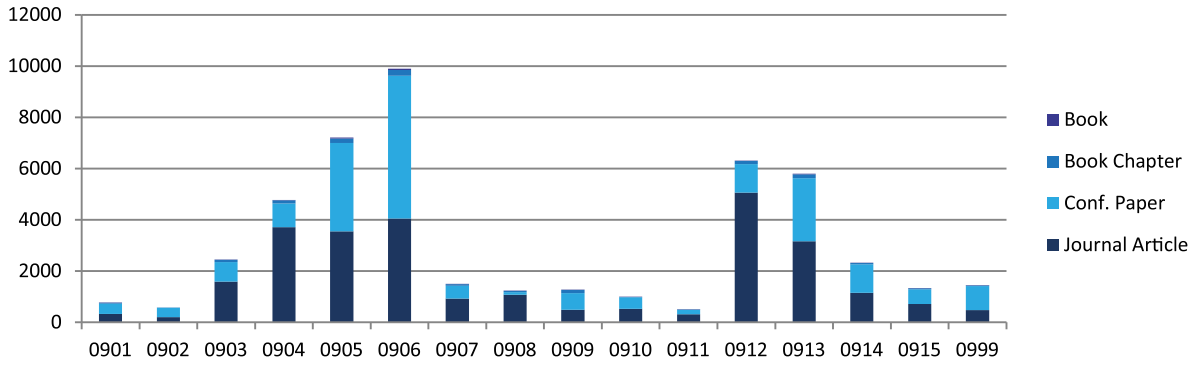
Disciplinary profile



Contribution to national landscape (%)

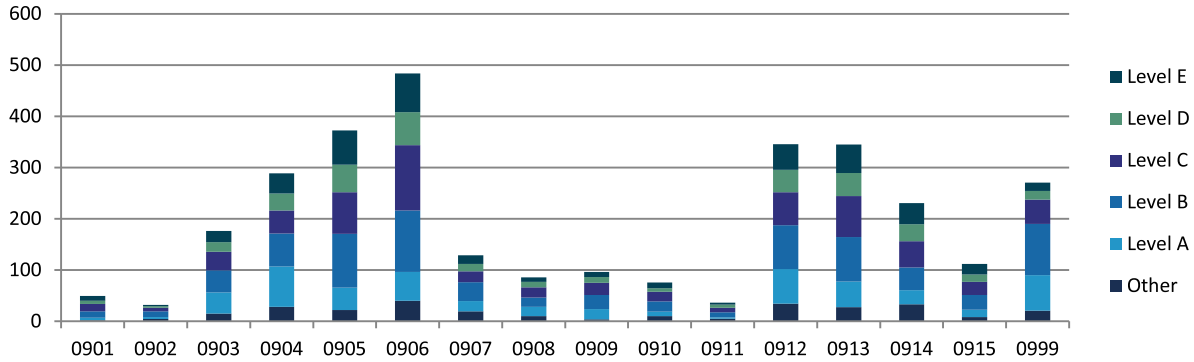


Research outputs submitted by type



FoR code		Book	Book Chapter	Conference Paper	Journal Article	Total
0901	Aerospace Engineering	2.4	38.1	397.5	326.7	764.7
0902	Automotive Engineering	0.0	10.1	358.4	203.7	572.2
0903	Biomedical Engineering	2.7	91.4	762.5	1,587.5	2,444.1
0904	Chemical Engineering	4.2	119.0	928.1	3,713.3	4,764.6
0905	Civil Engineering	27.3	177.5	3,444.1	3,558.6	7,207.5
0906	Electrical and Electronic Engineering	38.4	232.8	5,566.4	4,053.2	9,890.8
0907	Environmental Engineering	4.3	56.3	503.7	926.9	1,491.2
0908	Food Sciences	0.5	58.7	97.5	1,078.2	1,234.9
0909	Geomatic Engineering	6.5	126.2	650.2	495.7	1,278.6
0910	Manufacturing Engineering	0.6	18.4	447.1	529.9	996.0
0911	Maritime Engineering	1.0	4.0	178.4	320.4	503.8
0912	Materials Engineering	12.9	125.3	1,122.6	5,057.8	6,318.6
0913	Mechanical Engineering	15.7	157.5	2,452.9	3,171.0	5,797.1
0914	Resources Engineering and Extractive Metallurgy	4.0	49.4	1,116.4	1,151.4	2,321.2
0915	Interdisciplinary Engineering	1.6	32.5	578.2	719.9	1,332.2
0999	Other Engineering	3.7	26.0	941.9	477.7	1,449.3
Total		125.8	1,323.2	19,545.9	27,371.9	48,366.8

Staffing profile by academic level

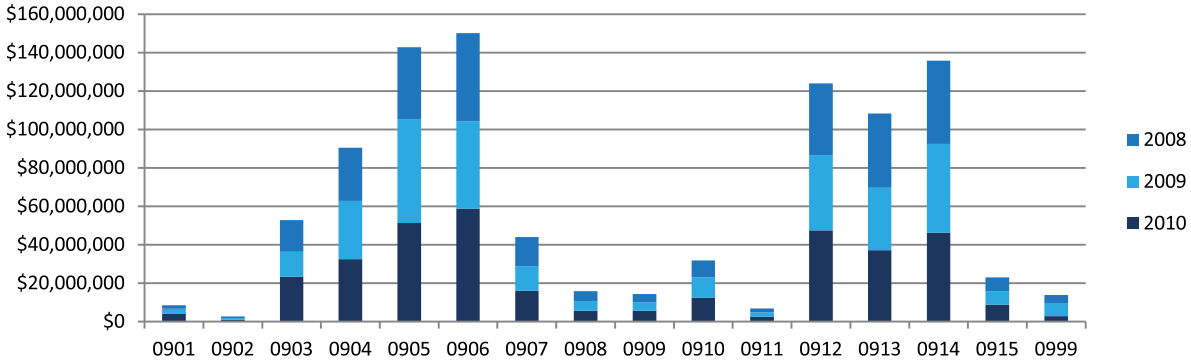


FoR code		Level E	Level D	Level C	Level B	Level A	Other	Total
0901	Aerospace Engineering	9.8	6.3	14.1	12.8	4.7	2.2	49.9
0902	Automotive Engineering	2.1	3.2	7.2	11.1	3.6	4.7	31.9
0903	Biomedical Engineering	21.8	19.2	35.8	43.4	41.0	15.4	176.6
0904	Chemical Engineering	39.5	33.1	44.7	64.5	78.4	28.5	288.7
0905	Civil Engineering	66.6	53.8	81.4	105.1	43.3	22.3	372.5
0906	Electrical and Electronic Engineering	75.8	64.0	127.3	120.1	56.2	40.3	483.7
0907	Environmental Engineering	16.8	14.0	21.4	36.9	20.2	19.4	128.7
0908	Food Sciences	8.9	10.6	19.7	18.5	17.9	10.4	86.0
0909	Geomatic Engineering	9.6	11.2	23.7	27.9	19.6	4.3	96.3
0910	Manufacturing Engineering	11.2	7.1	18.8	20.1	8.7	10.2	76.1
0911	Maritime Engineering	3.8	6.2	9.2	9.8	2.4	5.4	36.8
0912	Materials Engineering	49.4	43.8	64.6	85.5	67.6	34.4	345.3
0913	Mechanical Engineering	55.8	45.2	79.5	87.1	49.9	27.7	345.2
0914	Resources Engineering and Extractive Metallurgy	41.4	32.8	51.5	44.5	27.2	33.4	230.8
0915	Interdisciplinary Engineering	20.5	14.1	25.6	29.1	14.3	8.4	112.0
0999	Other Engineering	16.1	17.0	47.4	99.8	69.2	21.0	270.5
Total		449.1	381.6	671.9	816.2	524.2	288.0	3,131.0

Patent profile

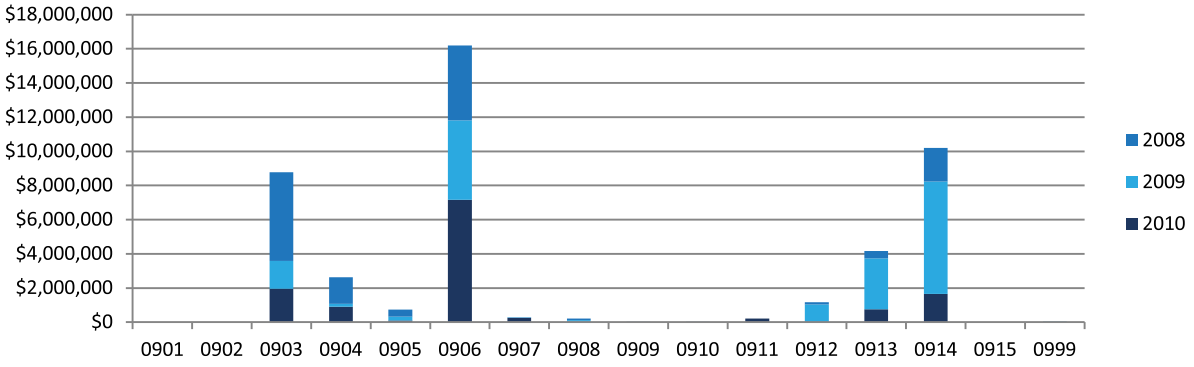
FoR code		Australia	USA	Europe	Japan	Other Int'l	Triadic	Total
0901	Aerospace Engineering	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0902	Automotive Engineering	0.0	3.0	0.0	0.0	1.0	0.0	4.0
0903	Biomedical Engineering	7.6	4.7	2.2	0.0	5.7	0.0	20.2
0904	Chemical Engineering	8.2	5.2	5.1	0.4	25.6	0.0	44.5
0905	Civil Engineering	4.0	0.0	1.0	0.0	6.0	0.0	11.0
0906	Electrical and Electronic Engineering	8.9	12.7	1.7	0.9	7.8	0.0	32.0
0907	Environmental Engineering	3.0	2.0	0.0	0.0	8.0	0.0	13.0
0908	Food Sciences	1.6	2.5	0.0	0.2	0.5	0.0	4.8
0909	Geomatic Engineering	1.0	0.0	0.0	0.0	0.0	0.0	1.0
0910	Manufacturing Engineering	0.0	1.0	0.0	0.0	2.0	0.0	3.0
0911	Maritime Engineering	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0912	Materials Engineering	4.8	5.3	0.3	1.2	10.4	0.0	22.0
0913	Mechanical Engineering	5.0	4.0	0.0	1.5	5.8	0.0	16.3
0914	Resources Engineering and Extractive Metallurgy	5.0	4.6	1.9	0.0	20.3	0.0	31.8
0915	Interdisciplinary Engineering	1.0	1.5	0.0	0.0	0.5	0.0	3.0
0999	Other Engineering	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total		50.1	46.5	12.2	4.2	93.6	0.0	206.6

Research income by year—all categories ($)



FoR code		2008	2009	2010	Total
0901	Aerospace Engineering	$1,814,739	$2,672,224	$4,122,248	$8,609,211
0902	Automotive Engineering	$826,356	$842,614	$997,742	$2,666,712
0903	Biomedical Engineering	$16,500,178	$13,033,114	$23,393,424	$52,926,716
0904	Chemical Engineering	$27,500,732	$30,296,861	$32,620,959	$90,418,552
0905	Civil Engineering	$37,718,556	$53,722,415	$51,405,214	$142,846,185
0906	Electrical and Electronic Engineering	$45,684,728	$45,535,481	$58,817,346	$150,037,555
0907	Environmental Engineering	$15,419,677	$12,675,562	$16,006,047	$44,101,286
0908	Food Sciences	$5,159,436	$4,933,660	$5,744,573	$15,837,669
0909	Geomatic Engineering	$4,216,671	$4,417,950	$5,697,895	$14,332,516
0910	Manufacturing Engineering	$8,792,191	$10,398,900	$12,617,917	$31,809,008
0911	Maritime Engineering	$2,016,871	$2,402,876	$2,515,011	$6,934,758
0912	Materials Engineering	$37,309,462	$39,064,169	$47,546,678	$123,920,309
0913	Mechanical Engineering	$38,621,245	$32,497,859	$37,176,749	$108,295,853
0914	Resources Engineering and Extractive Metallurgy	$43,252,142	$46,110,726	$46,361,997	$135,724,865
0915	Interdisciplinary Engineering	$7,424,038	$6,758,113	$8,900,800	$23,082,951
0999	Other Engineering	$4,434,873	$6,585,903	$2,893,015	$13,913,791
Total		$296,691,895	$311,948,427	$356,817,615	$965,457,937

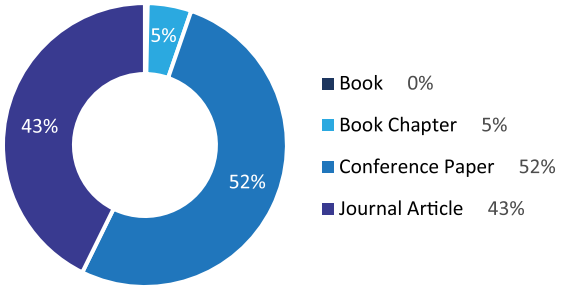
Research commercialisation income by year ($)



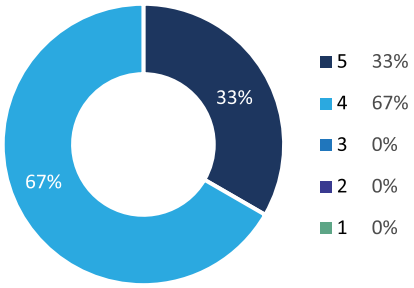
FoR code		2008	2009	2010	Total
0901	Aerospace Engineering	$0	$0	$0	$0
0902	Automotive Engineering	$0	$0	$0	$0
0903	Biomedical Engineering	$5,189,334	$1,630,715	$1,960,972	$8,781,021
0904	Chemical Engineering	$1,549,754	$162,477	$913,350	$2,625,581
0905	Civil Engineering	$418,871	$224,815	$100,899	$744,585
0906	Electrical and Electronic Engineering	$4,371,767	$4,643,055	$7,170,945	$16,185,767
0907	Environmental Engineering	$5,708	$767	$249,654	$256,129
0908	Food Sciences	$91,455	$87,634	$35,648	$214,737
0909	Geomatic Engineering	$5,042	$0	$0	$5,042
0910	Manufacturing Engineering	$2,664	$0	$0	$2,664
0911	Maritime Engineering	$0	$0	$214,785	$214,785
0912	Materials Engineering	$136,628	$1,039,246	$1,378	$1,177,252
0913	Mechanical Engineering	$419,699	$2,984,960	$755,122	$4,159,781
0914	Resources Engineering and Extractive Metallurgy	$1,954,021	$6,581,020	$1,656,236	$10,191,277
0915	Interdisciplinary Engineering	$0	$0	$0	$0
0999	Other Engineering	$8,001	$29,662	$0	$37,663
Total		$14,152,944	$17,384,351	$13,058,989	$44,596,284

0901 Aerospace Engineering		3 out of 3 assessed UoEs were rated at or above world standard	
FTEs	49.9	Rating	Distribution
Research outputs	764.7	5	1
Research income	$8,609,211	4	2
UoEs assessed	3	3	0
Esteem count	1.2	2	0
Patents	0	1	0
Research commercialisation income	$0	**Total**	**3**

Research outputs by type

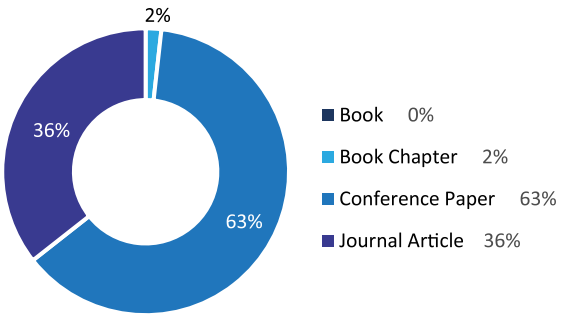


FoR rating distribution



0902 Automotive Engineering		0 UoEs were assessed in this FoR	
FTEs	31.9	Rating	Distribution
Research outputs	572.2	5	0
Research income	$2,666,712	4	0
UoEs assessed	0	3	0
Esteem count	0.4	2	0
Patents	4.0	1	0
Research commercialisation income	$0	**Total**	**0**

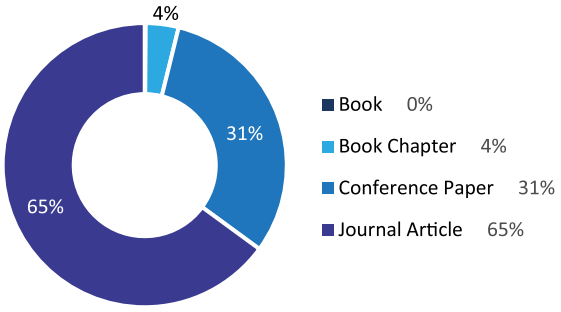
Research outputs by type



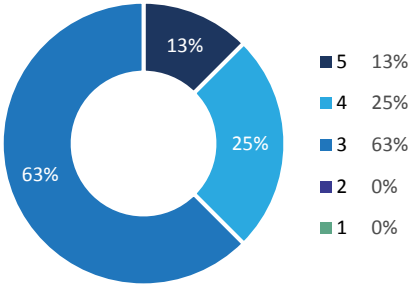
Note: There is no FoR rating distribution for 0902

0903 Biomedical Engineering		8 out of 8 assessed UoEs were rated at or above world standard	
FTEs	176.6	Rating	Distribution
Research outputs	2,444.1	5	1
Research income	$52,926,716	4	2
UoEs assessed	8	3	5
Esteem count	21.4	2	0
Patents	20.2	1	0
Research commercialisation income	$8,781,021	**Total**	**8**

Research outputs by type

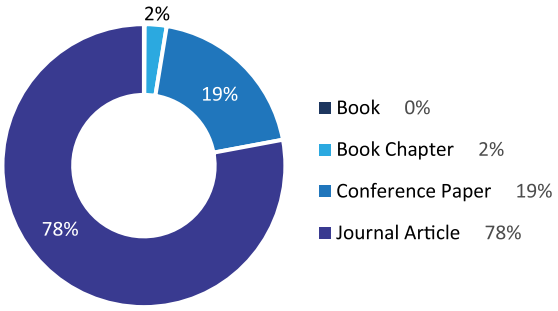


FoR rating distribution

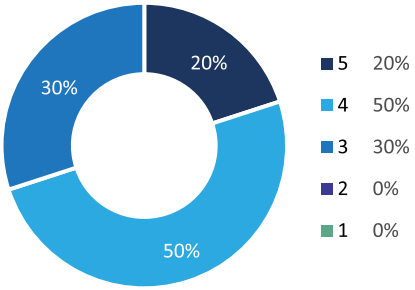


0904 Chemical Engineering			10 out of 10 assessed UoEs were rated at or above world standard	
FTEs	288.7		Rating	Distribution
Research outputs	4,764.6		5	2
Research income	$90,418,552		4	5
UoEs assessed	10		3	3
Esteem count	51.5		2	0
Patents	44.5		1	0
Research commercialisation income	$2,625,581		**Total**	**10**

Research outputs by type

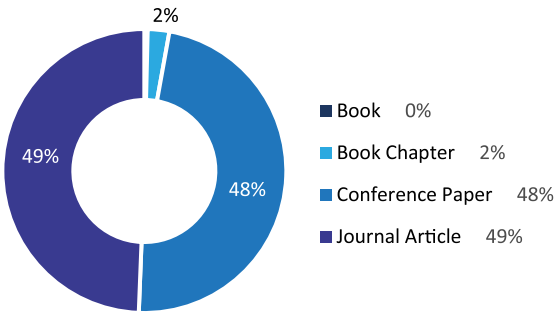


FoR rating distribution

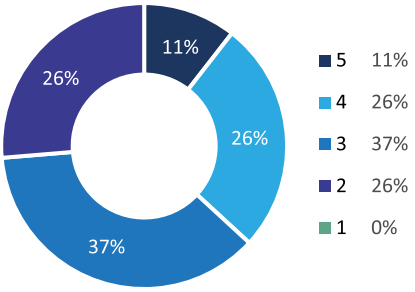


0905 Civil Engineering			14 out of 19 assessed UoEs were rated at or above world standard	
FTEs	372.5		Rating	Distribution
Research outputs	7,207.5		5	2
Research income	$142,846,185		4	5
UoEs assessed	19		3	7
Esteem count	38.9		2	5
Patents	11.0		1	0
Research commercialisation income	$744,585		**Total**	**19**

Research outputs by type

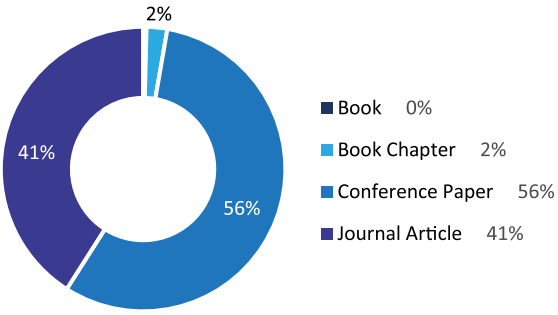


FoR rating distribution

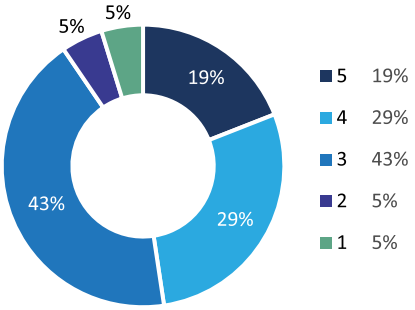


0906 Electrical and Electronic Engineering			19 out of 21 assessed UoEs were rated at or above world standard	
FTEs	483.7		Rating	Distribution
Research outputs	9,890.8		5	4
Research income	$150,037,555		4	6
UoEs assessed	21		3	9
Esteem count	61.5		2	1
Patents	32.0		1	1
Research commercialisation income	$16,185,767		**Total**	**21**

Research outputs by type

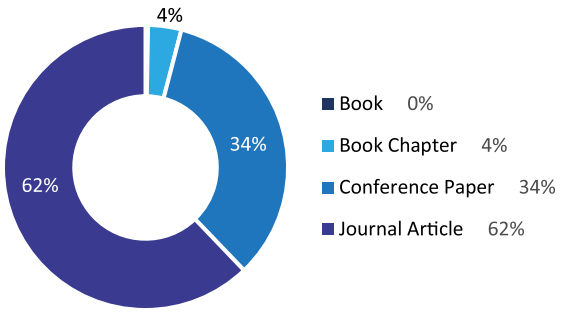


FoR rating distribution

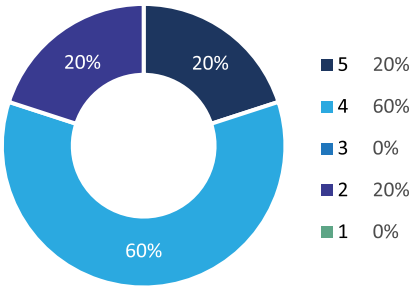


0907 Environmental Engineering		4 out of 5 assessed UoEs were rated at or above world standard	
FTEs	128.7	Rating	Distribution
Research outputs	1,491.2	5	1
Research income	$44,101,286	4	3
UoEs assessed	5	3	0
Esteem count	6.4	2	1
Patents	13.0	1	0
Research commercialisation income	$256,129	**Total**	**5**

Research outputs by type

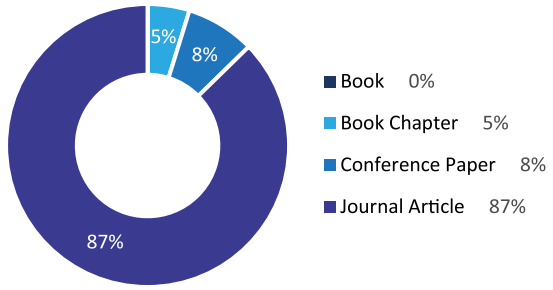


FoR rating distribution

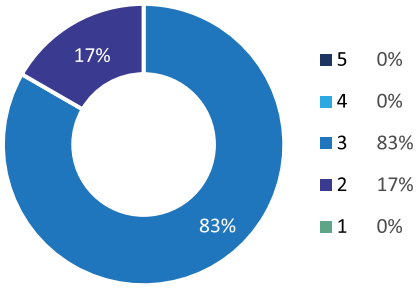


0908 Food Sciences		5 out of 6 assessed UoEs were rated at or above world standard	
FTEs	86.0	Rating	Distribution
Research outputs	1,234.9	5	0
Research income	$15,837,669	4	0
UoEs assessed	6	3	5
Esteem count	0.2	2	1
Patents	4.8	1	0
Research commercialisation income	$214,737	**Total**	**6**

Research outputs by type

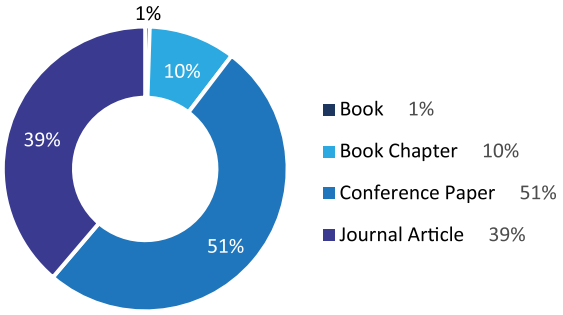


FoR rating distribution

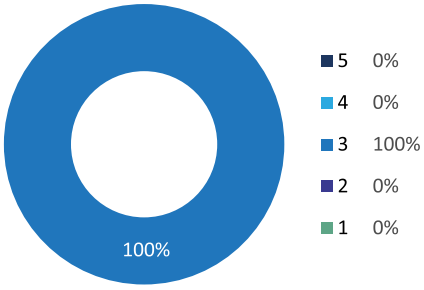


0909 Geomatic Engineering		2 out of 2 assessed UoEs were rated at or above world standard	
FTEs	96.3	Rating	Distribution
Research outputs	1,278.6	5	0
Research income	$14,332,516	4	0
UoEs assessed	2	3	2
Esteem count	10.2	2	0
Patents	1.0	1	0
Research commercialisation income	$5,042	**Total**	**2**

Research outputs by type

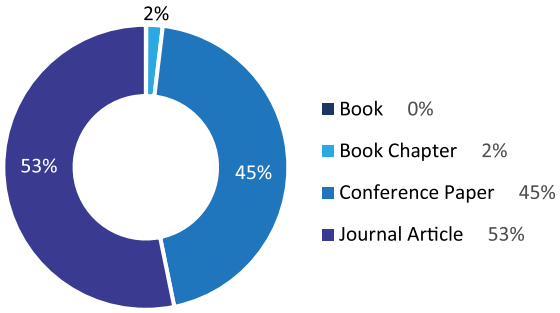


FoR rating distribution

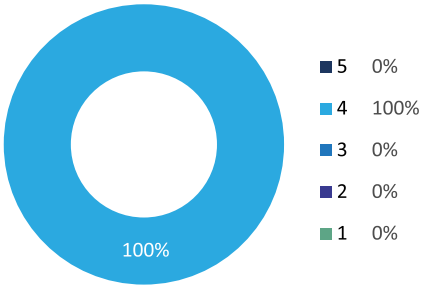


0910 Manufacturing Engineering		2 out of 2 assessed UoEs were rated at or above world standard	
FTEs	76.1	Rating	Distribution
Research outputs	996.0	5	0
Research income	$31,809,008	4	2
UoEs assessed	2	3	0
Esteem count	8.8	2	0
Patents	3.0	1	0
Research commercialisation income	$2,664	**Total**	**2**

Research outputs by type

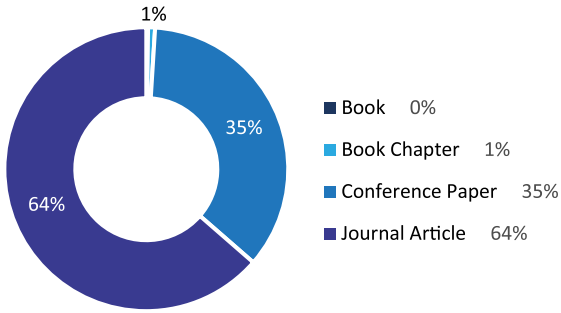


FoR rating distribution

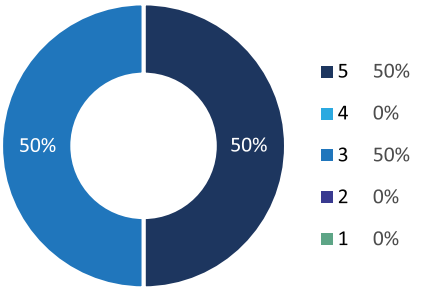


0911 Maritime Engineering		2 out of 2 assessed UoEs were rated at or above world standard	
FTEs	36.8	Rating	Distribution
Research outputs	503.8	5	1
Research income	$6,934,758	4	0
UoEs assessed	2	3	1
Esteem count	3	2	0
Patents	0	1	0
Research commercialisation income	$214,785	**Total**	**2**

Research outputs by type

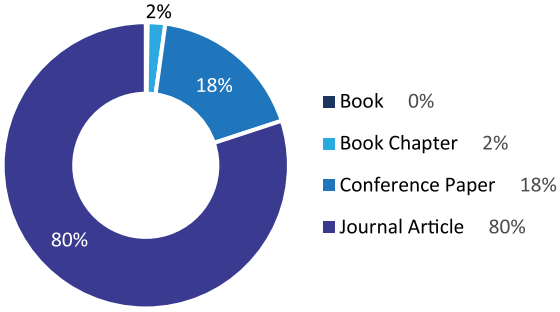


FoR rating distribution

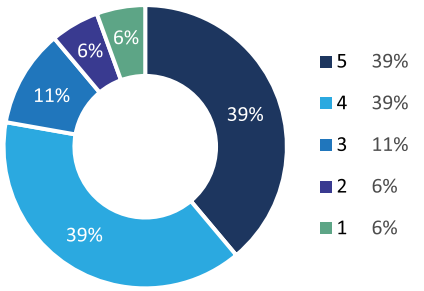


0912 Materials Engineering		16 out of 18 assessed UoEs were rated at or above world standard	
FTEs	345.3	Rating	Distribution
Research outputs	6,318.6	5	7
Research income	$123,920,309	4	7
UoEs assessed	18	3	2
Esteem count	76.5	2	1
Patents	22.0	1	1
Research commercialisation income	$1,177,252	**Total**	**18**

Research outputs by type

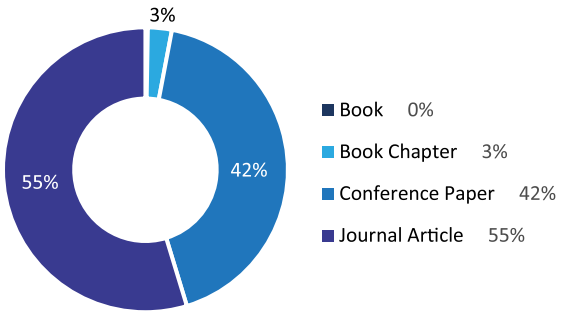


FoR rating distribution

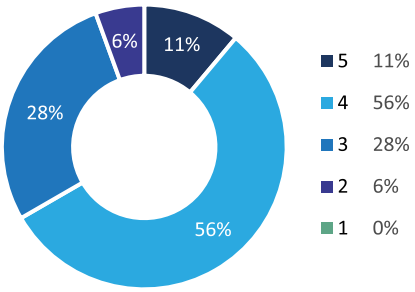


0913 Mechanical Engineering		17 out of 18 assessed UoEs were rated at or above world standard	
FTEs	345.2	Rating	Distribution
Research outputs	5,797.1	5	2
Research income	$108,295,853	4	10
UoEs assessed	18	3	5
Esteem count	34.7	2	1
Patents	16.3	1	0
Research commercialisation income	$4,159,781	**Total**	**18**

Research outputs by type

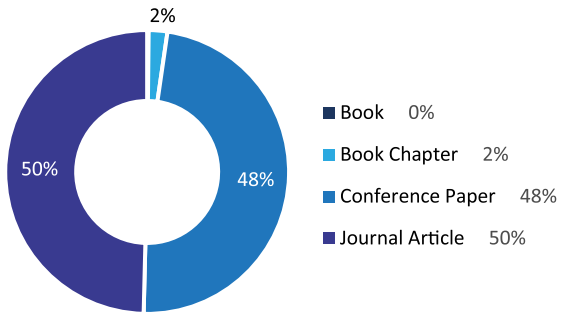


FoR rating distribution

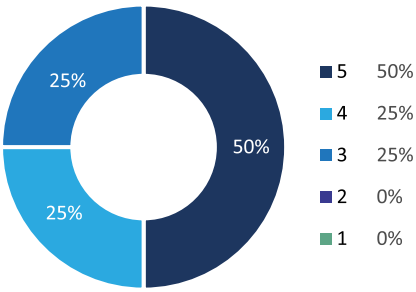


0914 Resources Engineering and Extractive Metallurgy		8 out of 8 assessed UoEs were rated at or above world standard	
FTEs	230.8	Rating	Distribution
Research outputs	2,321.2	5	4
Research income	$135,724,865	4	2
UoEs assessed	8	3	2
Esteem count	22.5	2	0
Patents	31.8	1	0
Research commercialisation income	$10,191,277	**Total**	**8**

Research outputs by type

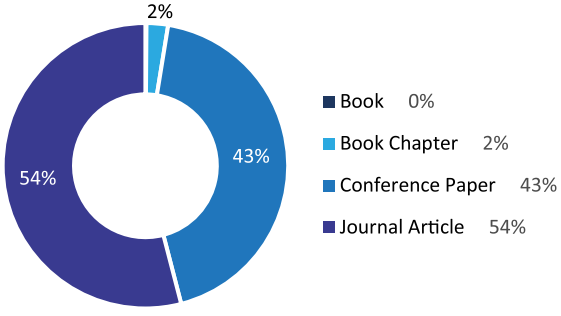


FoR rating distribution

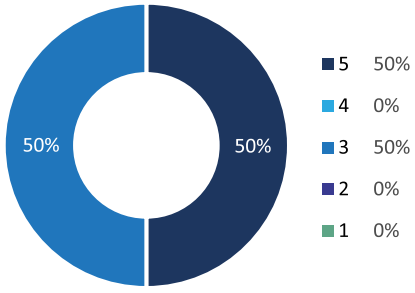


0915 Interdisciplinary Engineering		4 out of 4 assessed UoEs were rated at or above world standard	
FTEs	112.0	Rating	Distribution
Research outputs	1,332.2	5	2
Research income	$23,082,951	4	0
UoEs assessed	4	3	2
Esteem count	5.5	2	0
Patents	3.0	1	0
Research commercialisation income	$0	**Total**	**4**

Research outputs by type



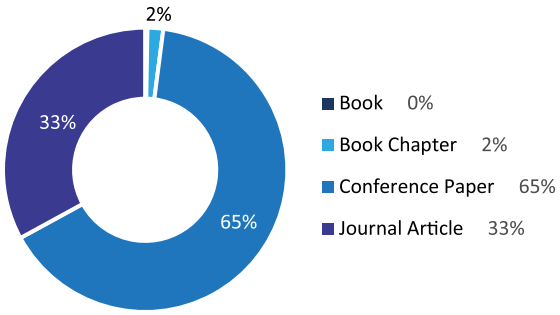
FoR rating distribution

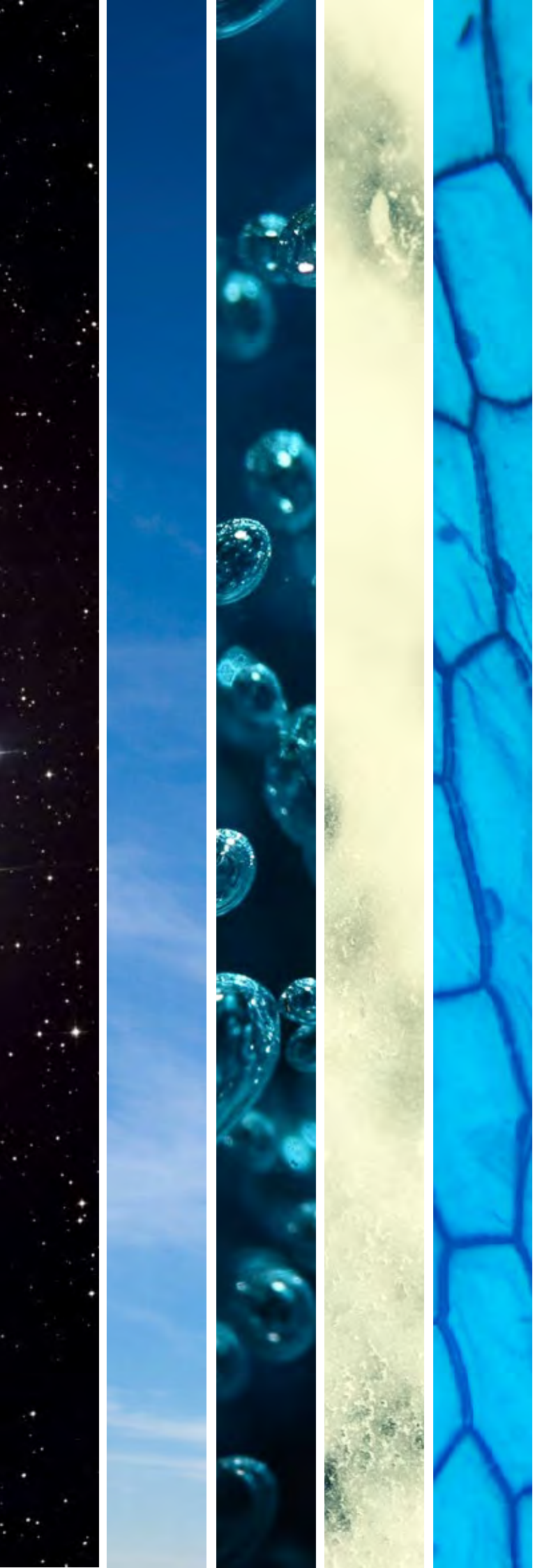


0999 Other Engineering			0 UoEs were assessed in this FoR
FTEs	270.5	Rating	Distribution
Research outputs	1,449.3	5	0
Research income	$13,913,791	4	0
UoEs assessed	0	3	0
Esteem count	0.8	2	0
Patents	0	1	0
Research commercialisation income	$37,663	**Total**	**0**

Research outputs by type

Note: There is no FoR rating distribution for 0999





10 Technology

Technology is comprised of the following four-digit codes:

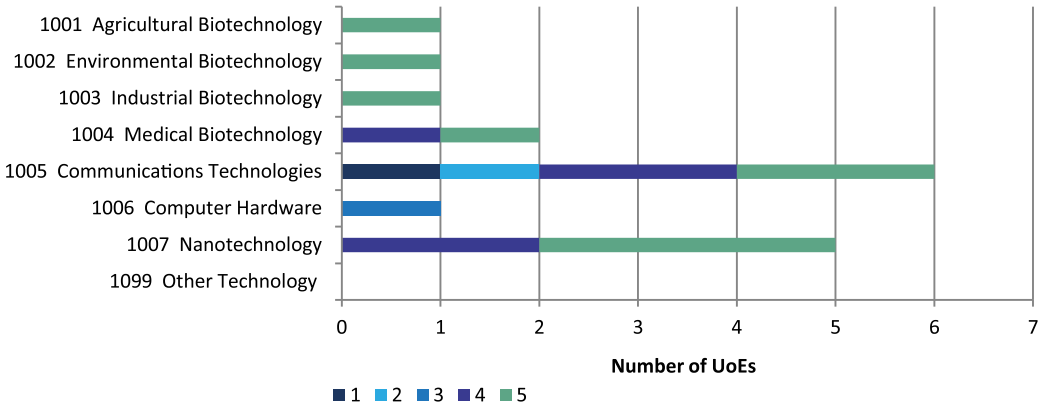
10	**Technology**	**127**
1001	Agricultural Biotechnology	130
1002	Environmental Biotechnology	130
1003	Industrial Biotechnology	130
1004	Medical Biotechnology	131
1005	Communications Technologies	131
1006	Computer Hardware	131
1007	Nanotechnology	132
1099	Other Technology	132

10 Technology			15 out of 17 assessed UoEs were rated at or above world standard	
FTEs	626.9		Rating	Distribution
Research outputs	6,055.3		5	9
Research income	$116,716,243		4	5
UoEs assessed	17		3	1
Esteem count	52.2		2	1
Patents	38.2		1	1
Research commercialisation income	$3,318,807		**Total**	**17**

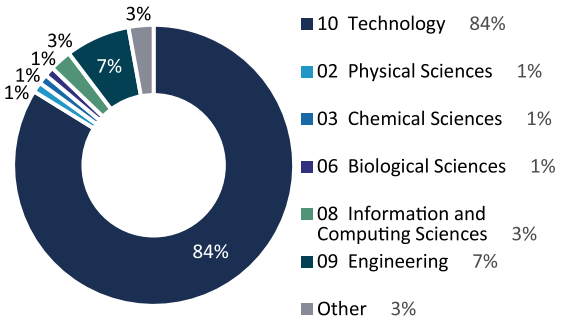
FoR overview

Technology (10) accounted for approximately 2% of the research outputs submitted to ERA 2012. The majority of the Technology research outputs were conference papers. Approximately 5% of the patents submitted to ERA 2012 were from Technology. Of the 16% of Technology research outputs also coded to other FoRs, Technology shared the largest proportion (7%) of its research outputs with Engineering (09).

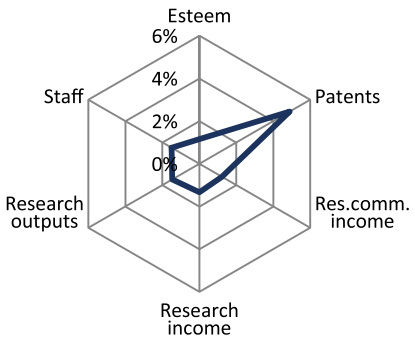
Number of UoEs per rating scale score



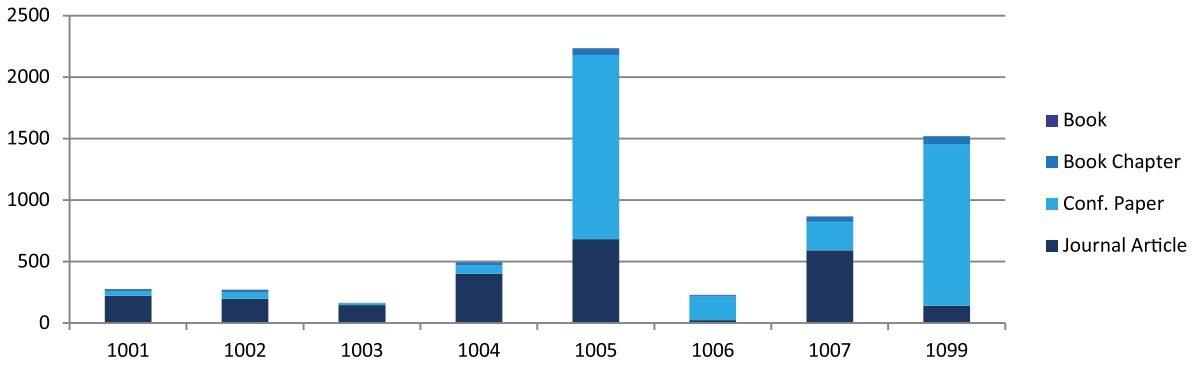
Disciplinary profile



Contribution to national landscape (%)

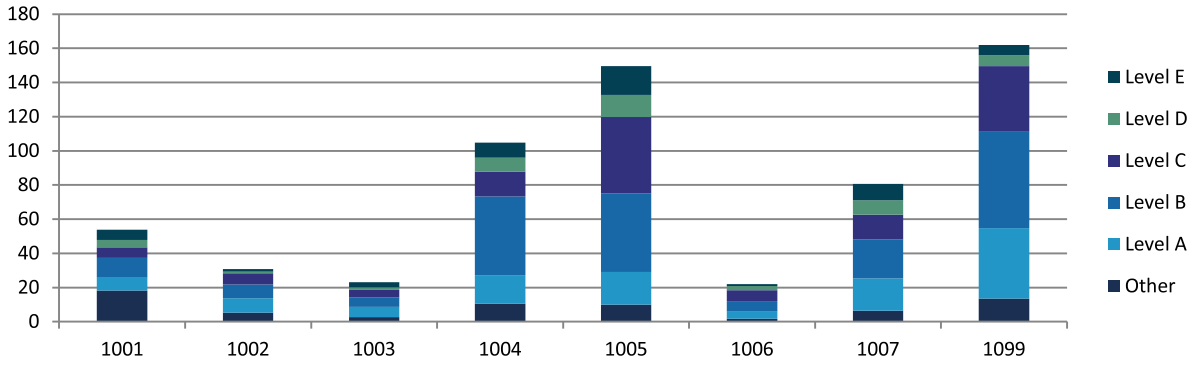


Research outputs submitted by type



FoR code		Book	Book Chapter	Conference Paper	Journal Article	Total
1001	Agricultural Biotechnology	0.0	21.4	33.0	222.6	277.0
1002	Environmental Biotechnology	0.5	19.7	51.1	198.6	269.9
1003	Industrial Biotechnology	0.0	5.1	14.7	146.3	166.1
1004	Medical Biotechnology	0.5	22.0	70.5	401.1	494.1
1005	Communications Technologies	3.9	49.9	1,496.4	682.9	2,233.1
1006	Computer Hardware	2.0	8.5	194.5	25.4	230.4
1007	Nanotechnology	2.0	41.1	231.7	591.9	866.7
1099	Other Technology	1.0	60.9	1,313.8	142.3	1,518.0
Total		9.9	228.6	3,405.7	2,411.1	6,055.3

Staffing profile by academic level

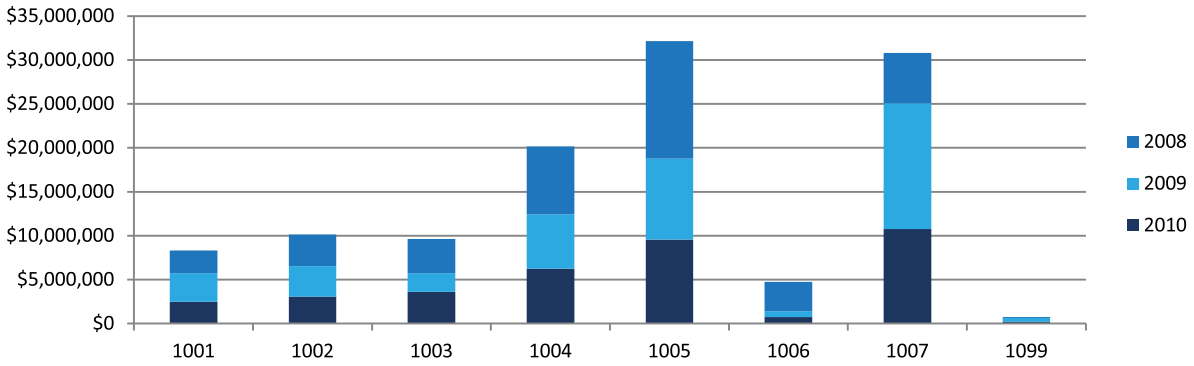


FoR code		Level E	Level D	Level C	Level B	Level A	Other	Total
1001	Agricultural Biotechnology	6.0	4.3	6.1	11.6	7.5	18.3	53.8
1002	Environmental Biotechnology	1.6	0.9	6.5	8.1	8.5	5.3	30.9
1003	Industrial Biotechnology	3.0	1.5	4.3	5.7	5.9	2.8	23.2
1004	Medical Biotechnology	8.8	8.3	14.4	46.1	16.6	10.6	104.8
1005	Communications Technologies	16.8	12.9	44.8	45.9	19.0	10.1	149.5
1006	Computer Hardware	1.2	2.3	6.4	6.2	4.2	1.7	22.0
1007	Nanotechnology	9.6	8.4	14.5	22.9	18.9	6.4	80.7
1099	Other Technology	6.1	6.3	38.5	56.4	41.1	13.6	162.0
Total		53.1	44.9	135.5	202.9	121.7	68.8	626.9

Patent profile

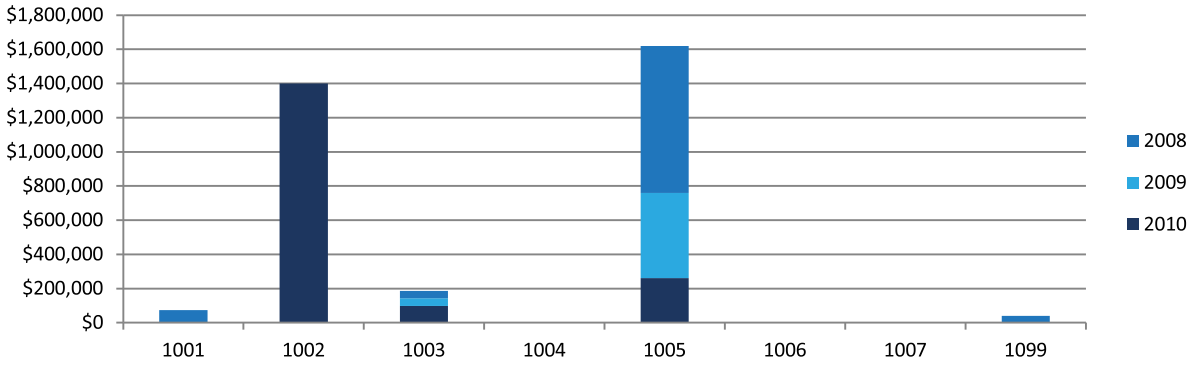
FoR code		Australia	USA	Europe	Japan	Other Int'l	Triadic	Total
1001	Agricultural Biotechnology	1.0	0.0	0.5	0.0	0.5	0.0	2.0
1002	Environmental Biotechnology	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1003	Industrial Biotechnology	0.9	0.9	0.7	0.0	0.9	0.0	3.4
1004	Medical Biotechnology	4.0	3.3	0.4	1.0	8.5	0.0	17.2
1005	Communications Technologies	2.0	1.6	0.6	0.6	9.4	0.0	14.2
1006	Computer Hardware	0.3	0.0	0.0	0.0	0.0	0.0	0.3
1007	Nanotechnology	0.3	0.2	0.0	0.0	0.6	0.0	1.1
1099	Other Technology	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total		8.5	6.0	2.2	1.6	19.9	0.0	38.2

Research income by year—all categories ($)



FoR code		2008	2009	2010	Total
1001	Agricultural Biotechnology	$2,559,944	$3,248,939	$2,498,644	$8,307,527
1002	Environmental Biotechnology	$3,617,105	$3,450,615	$3,080,504	$10,148,224
1003	Industrial Biotechnology	$3,903,067	$2,107,914	$3,613,980	$9,624,961
1004	Medical Biotechnology	$7,753,097	$6,161,083	$6,262,107	$20,176,287
1005	Communications Technologies	$13,357,024	$9,231,874	$9,553,580	$32,142,478
1006	Computer Hardware	$3,357,804	$665,644	$745,369	$4,768,817
1007	Nanotechnology	$5,726,801	$14,295,569	$10,775,099	$30,797,469
1099	Other Technology	$110,437	$445,443	$194,600	$750,480
Total		$40,385,279	$39,607,081	$36,723,883	$116,716,243

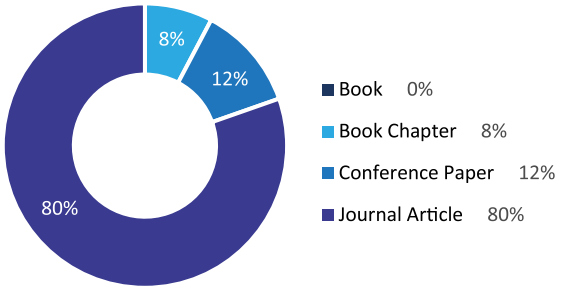
Research commercialisation income by year ($)



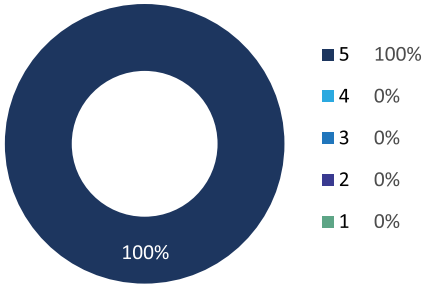
FoR code		2008	2009	2010	Total
1001	Agricultural Biotechnology	$73,668	$0	$0	$73,668
1002	Environmental Biotechnology	$0	$0	$1,399,582	$1,399,582
1003	Industrial Biotechnology	$42,366	$44,247	$98,910	$185,523
1004	Medical Biotechnology	$0	$0	$0	$0
1005	Communications Technologies	$860,373	$499,105	$260,703	$1,620,181
1006	Computer Hardware	$0	$0	$0	$0
1007	Nanotechnology	$0	$0	$0	$0
1099	Other Technology	$39,853	$0	$0	$39,853
Total		$1,016,260	$543,352	$1,759,195	$3,318,807

1001 Agricultural Biotechnology		1 out of 1 assessed UoEs were rated at or above world standard	
FTEs	53.8	Rating	Distribution
Research outputs	277.0	5	1
Research income	$8,307,527	4	0
UoEs assessed	1	3	0
Esteem count	3.2	2	0
Patents	2.0	1	0
Research commercialisation income	$73,668	**Total**	**1**

Research outputs by type

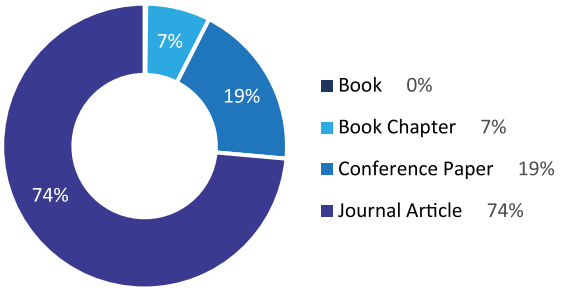


FoR rating distribution

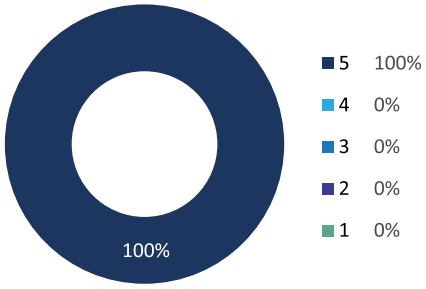


1002 Environmental Biotechnology		1 out of 1 assessed UoEs were rated at or above world standard	
FTEs	30.9	Rating	Distribution
Research outputs	269.9	5	1
Research income	$10,148,224	4	0
UoEs assessed	1	3	0
Esteem count	1.3	2	0
Patents	0	1	0
Research commercialisation income	$1,399,582	**Total**	**1**

Research outputs by type

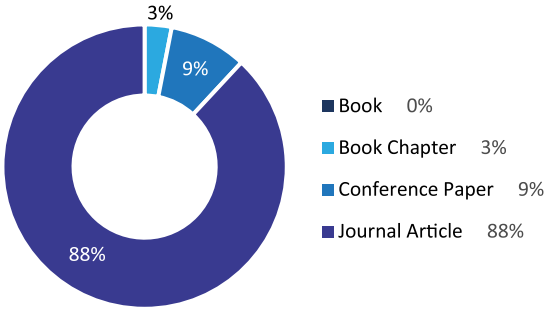


FoR rating distribution

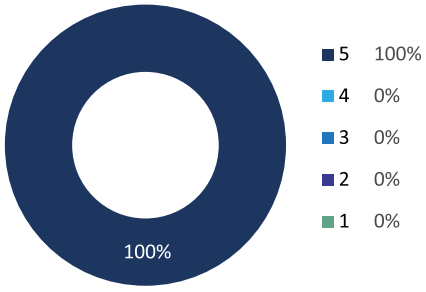


1003 Industrial Biotechnology		1 out of 1 assessed UoEs were rated at or above world standard	
FTEs	23.2	Rating	Distribution
Research outputs	166.1	5	1
Research income	$9,624,961	4	0
UoEs assessed	1	3	0
Esteem count	2.5	2	0
Patents	3.4	1	0
Research commercialisation income	$185,523	**Total**	**1**

Research outputs by type

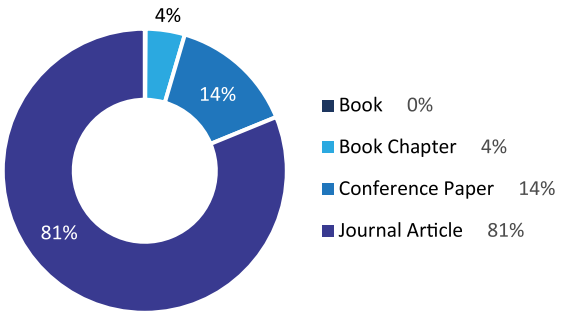


FoR rating distribution

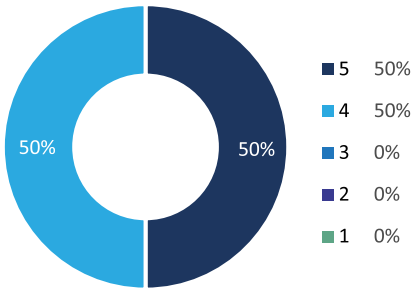


1004 Medical Biotechnology		2 out of 2 assessed UoEs were rated at or above world standard	
FTEs	104.8	Rating	Distribution
Research outputs	494.1	5	1
Research income	$20,176,287	4	1
UoEs assessed	2	3	0
Esteem count	3.4	2	0
Patents	17.2	1	0
Research commercialisation income	$0	**Total**	**2**

Research outputs by type

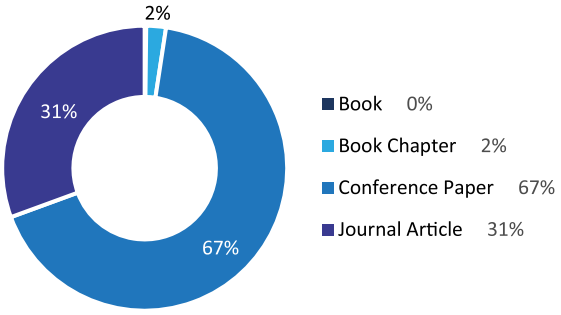


FoR rating distribution

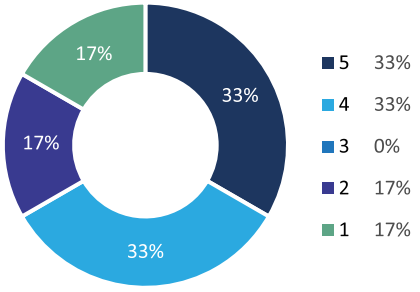


1005 Communications Technologies		4 out of 6 assessed UoEs were rated at or above world standard	
FTEs	149.5	Rating	Distribution
Research outputs	2,233.1	5	2
Research income	$32,142,478	4	2
UoEs assessed	6	3	0
Esteem count	22.3	2	1
Patents	14.2	1	1
Research commercialisation income	$1,620,181	**Total**	**6**

Research outputs by type

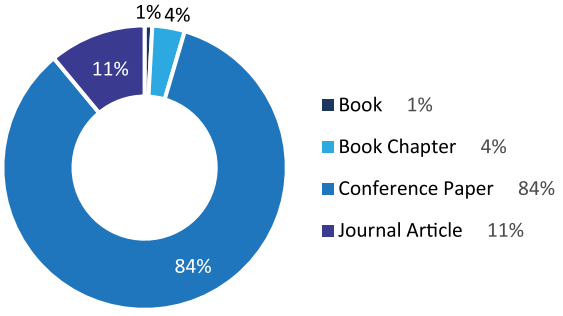


FoR rating distribution

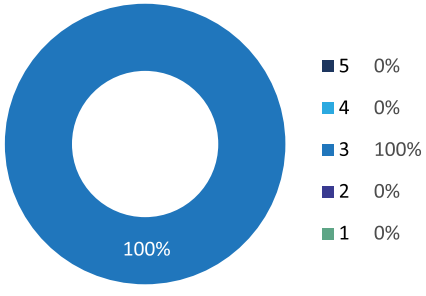


1006 Computer Hardware		1 out of 1 assessed UoEs were rated at or above world standard	
FTEs	22.0	Rating	Distribution
Research outputs	230.4	5	0
Research income	$4,768,817	4	0
UoEs assessed	1	3	1
Esteem count	0.9	2	0
Patents	0.3	1	0
Research commercialisation income	$0	**Total**	**1**

Research outputs by type

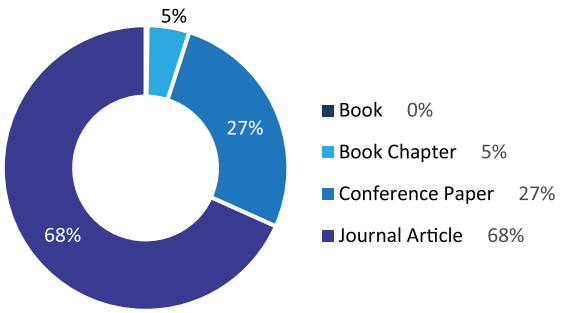


FoR rating distribution

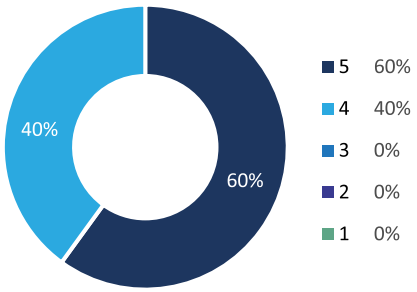


1007 Nanotechnology		5 out of 5 assessed UoEs were rated at or above world standard	
FTEs	80.7	Rating	Distribution
Research outputs	866.7	5	3
Research income	$30,797,469	4	2
UoEs assessed	5	3	0
Esteem count	17.5	2	0
Patents	1.1	1	0
Research commercialisation income	$0	**Total**	**5**

Research outputs by type

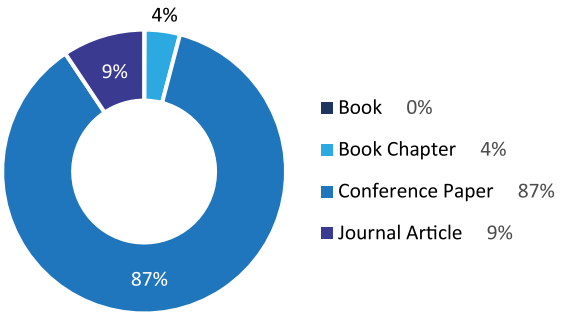


FoR rating distribution

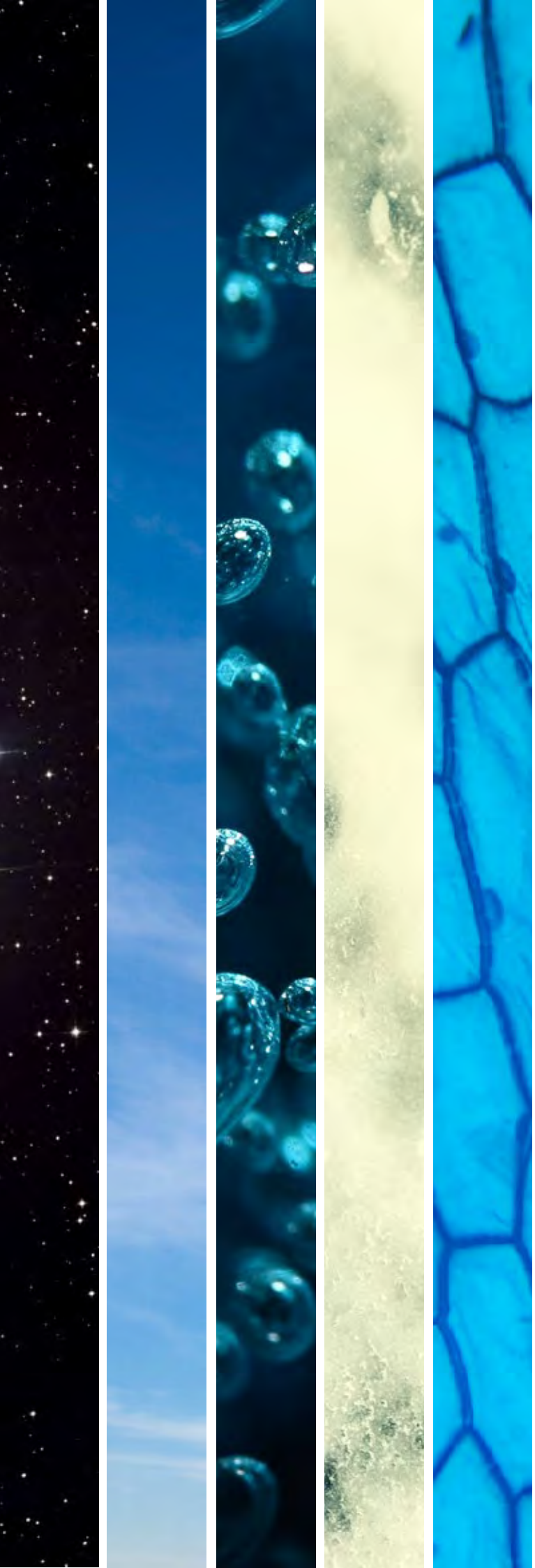


1099 Other Technology		0 UoEs were assessed in this FoR	
FTEs	162.0	Rating	Distribution
Research outputs	1,518.0	5	0
Research income	$750,480	4	0
UoEs assessed	0	3	0
Esteem count	1.1	2	0
Patents	0	1	0
Research commercialisation income	$39,853	**Total**	**0**

Research outputs by type



Note: There is no FoR rating distribution for 1099



11 Medical and Health Sciences

Medical and Health Sciences is comprised of the following four-digit codes:

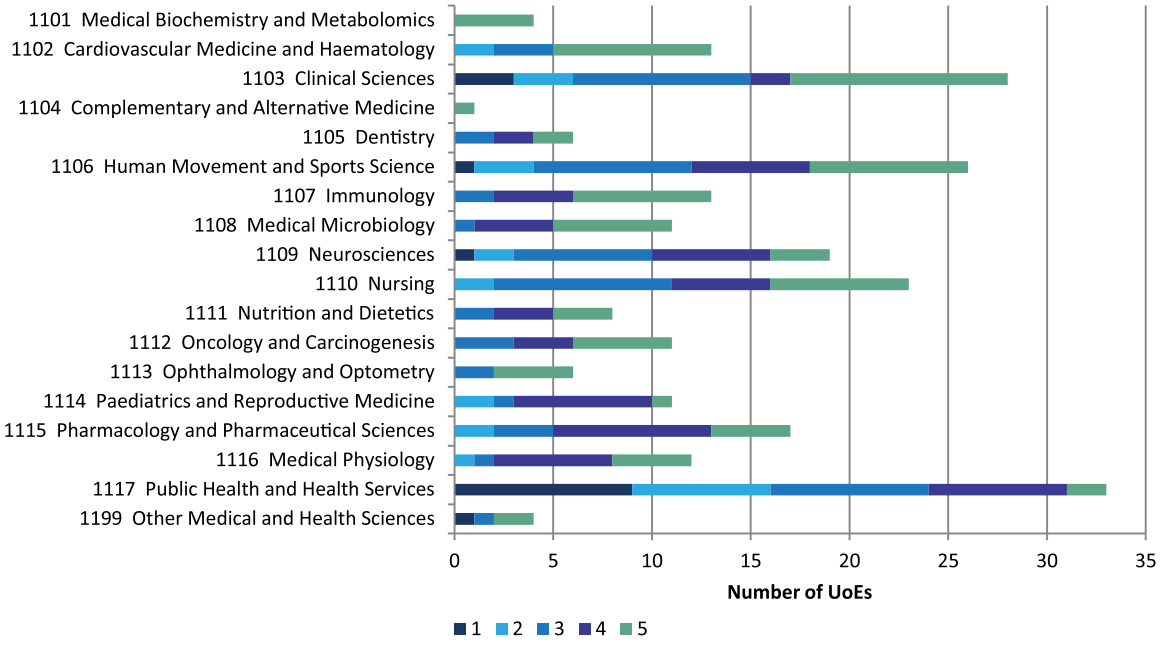
11	**Medical and Health Sciences**	**134**
1101	Medical Biochemistry and Metabolomics	139
1102	Cardiovascular Medicine and Haematology	139
1103	Clinical Sciences	139
1104	Complementary and Alternative Medicine	140
1105	Dentistry	140
1106	Human Movement and Sports Science	140
1107	Immunology	141
1108	Medical Microbiology	141
1109	Neurosciences	141
1110	Nursing	142
1111	Nutrition and Dietetics	142
1112	Oncology and Carcinogenesis	142
1113	Ophthalmology and Optometry	143
1114	Paediatrics and Reproductive Medicine	143
1115	Pharmacology and Pharmaceutical Sciences	143
1116	Medical Physiology	144
1117	Public Health and Health Services	144
1199	Other Medical and Health Sciences	144

11 Medical and Health Sciences		207 out of 246 assessed UoEs were rated at or above world standard	
FTEs	9,236.9	Rating	Distribution
Research outputs	91,859.9	5	82
Research income	$3,427,611,545	4	63
UoEs assessed	246	3	62
Esteem count	1,330.5	2	24
Patents	208.8	1	15
Research commercialisation income	$124,094,578	**Total**	**246**

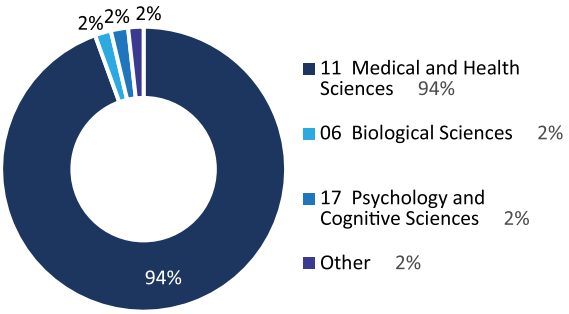
FoR overview

Medical and Health Sciences (11) accounted for approximately 22% of the research outputs submitted to ERA 2012. Journal articles are the most common research output type in the Medical and Health Sciences. Of the 6% of Medical and Health Sciences research outputs co-apportioned to other two-digit FoR codes Biological Sciences (06) and Psychology and Cognitive Sciences (17) both comprised 2%. The two largest Medical and Health Sciences Disciplines were the Clinical Sciences (1103) and Public Health and Health Services (1117).

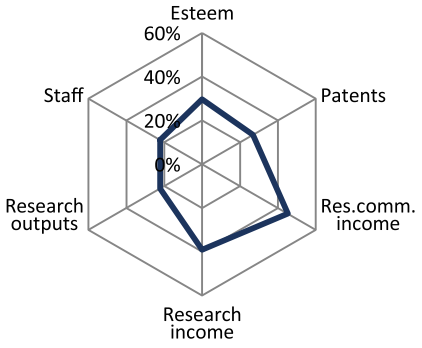
Number of UoEs per rating scale score



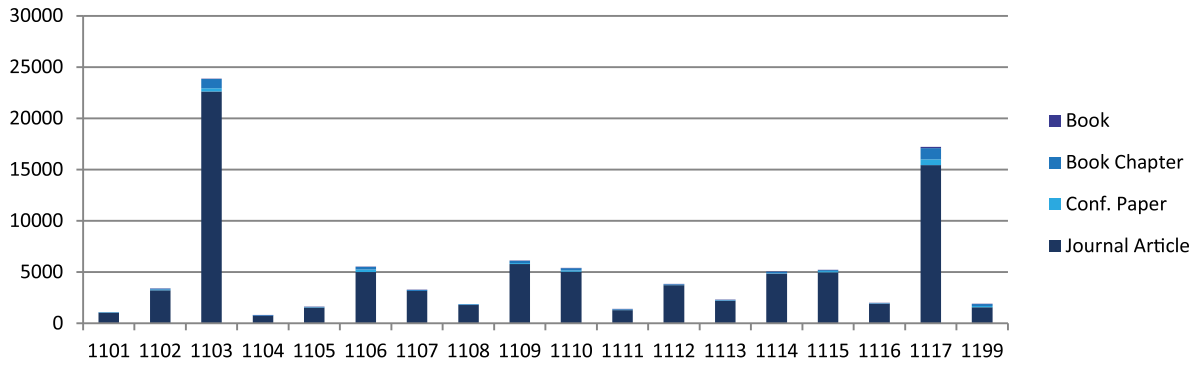
Disciplinary profile



Contribution to national landscape (%)

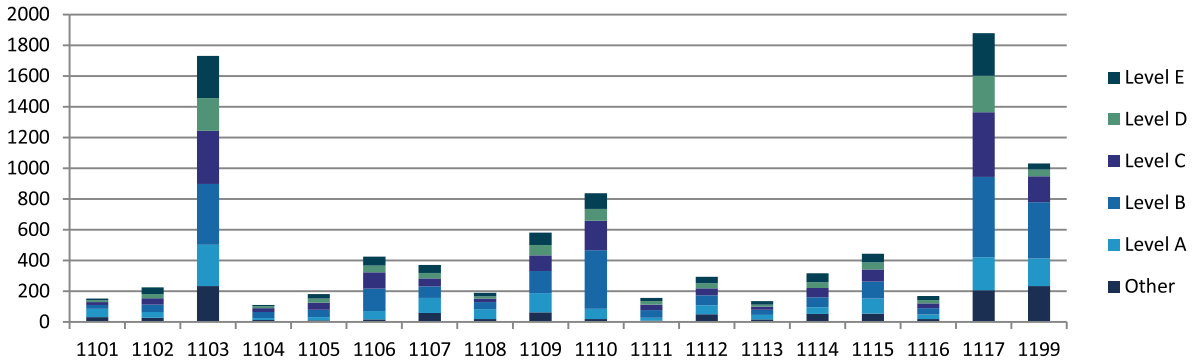


Research outputs submitted by type



FoR code		Book	Book Chapter	Conference Paper	Journal Article	Total
1101	Medical Biochemistry and Metabolomics	0.0	33.5	7.4	1,047.0	1,087.9
1102	Cardiovascular Medicine and Haematology	3.0	106.9	43.2	3,238.1	3,391.2
1103	Clinical Sciences	54.0	899.6	299.1	22,625.6	23,878.3
1104	Complementary and Alternative Medicine	9.0	64.7	10.9	729.9	814.5
1105	Dentistry	3.0	37.6	27.2	1,550.7	1,618.5
1106	Human Movement and Sports Science	15.5	240.1	256.9	5,000.1	5,512.6
1107	Immunology	1.1	96.3	19.6	3,158.1	3,275.1
1108	Medical Microbiology	0.0	58.0	10.0	1,782.5	1,850.5
1109	Neurosciences	10.4	237.0	84.2	5,785.5	6,117.1
1110	Nursing	30.4	242.7	103.6	5,051.2	5,427.9
1111	Nutrition and Dietetics	8.0	72.2	27.5	1,284.8	1,392.5
1112	Oncology and Carcinogenesis	3.3	78.6	21.1	3,725.2	3,828.2
1113	Ophthalmology and Optometry	2.0	58.4	43.9	2,189.4	2,293.7
1114	Paediatrics and Reproductive Medicine	5.3	167.3	28.5	4,853.8	5,054.9
1115	Pharmacology and Pharmaceutical Sciences	1.9	117.8	109.1	4,981.5	5,210.3
1116	Medical Physiology	2.4	46.7	38.3	1,911.8	1,999.2
1117	Public Health and Health Services	113.1	1,095.2	550.6	15,444.9	17,203.8
1199	Other Medical and Health Sciences	25.4	190.5	123.0	1,564.8	1,903.7
Total		287.8	3,843.1	1,804.1	85,924.9	91,859.9

Staffing profile by academic level

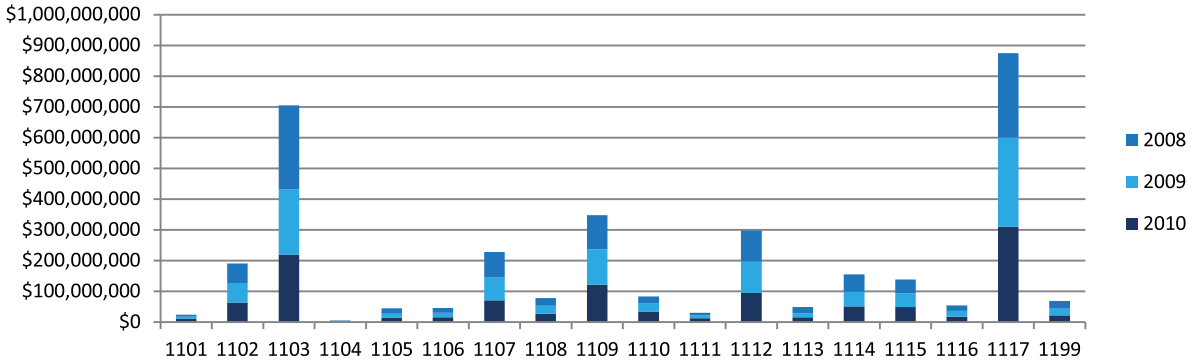


FoR code		Level E	Level D	Level C	Level B	Level A	Other	Total
1101	Medical Biochemistry and Metabolomics	10.5	10.7	18.5	25.5	54.7	32.1	152.0
1102	Cardiovascular Medicine and Haematology	43.0	27.3	43.4	47.7	36.1	28.6	226.1
1103	Clinical Sciences	275.0	211.8	346.3	394.7	269.6	234.0	1,731.4
1104	Complementary and Alternative Medicine	6.8	14.1	25.3	37.8	13.3	13.4	110.7
1105	Dentistry	30.4	25.9	46.9	47.4	20.9	10.8	182.3
1106	Human Movement and Sports Science	56.5	45.1	104.8	146.0	54.7	17.7	424.8
1107	Immunology	51.8	35.7	53.0	73.6	99.3	58.4	371.8
1108	Medical Microbiology	22.5	13.8	23.6	45.1	65.1	19.8	189.9
1109	Neurosciences	81.8	65.4	102.8	143.7	125.7	62.5	581.9
1110	Nursing	100.9	78.3	191.0	381.1	65.8	19.9	837.0
1111	Nutrition and Dietetics	20.5	22.5	34.4	51.2	17.9	9.7	156.2
1112	Oncology and Carcinogenesis	42.3	33.8	45.1	64.5	58.8	50.6	295.1
1113	Ophthalmology and Optometry	23.5	13.0	19.7	34.9	27.5	18.6	137.2
1114	Paediatrics and Reproductive Medicine	57.3	38.4	59.9	65.0	42.7	53.9	317.2
1115	Pharmacology and Pharmaceutical Sciences	55.7	45.9	79.1	112.0	96.5	55.6	444.8
1116	Medical Physiology	27.9	20.0	32.0	42.3	28.3	19.6	170.1
1117	Public Health and Health Services	275.3	238.5	418.8	522.9	214.2	207.7	1,877.4
1199	Other Medical and Health Sciences	38.6	43.8	169.4	366.9	177.4	234.9	1,031.0
Total		1,220.3	984.0	1,814.0	2,602.3	1,468.5	1,147.8	9,236.9

Patent profile

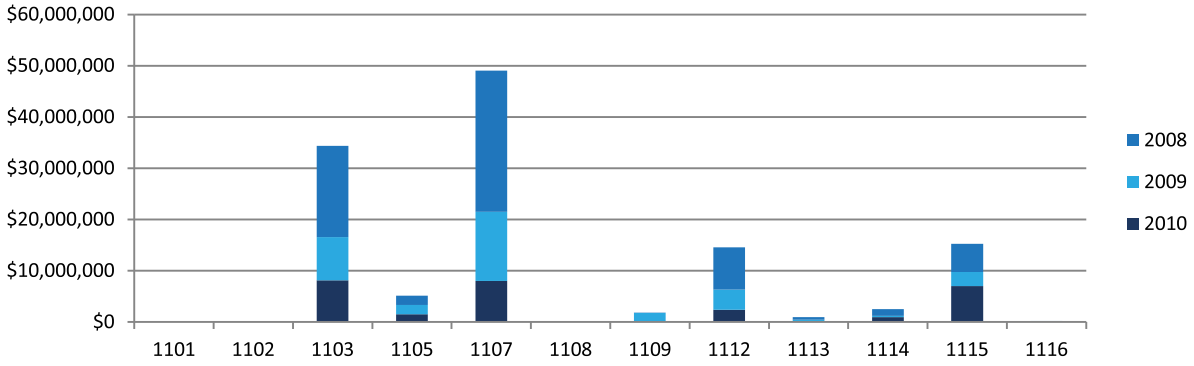
FoR code		Australia	USA	Europe	Japan	Other Int'l	Triadic	Total
1101	Medical Biochemistry and Metabolomics	0.7	1.8	1.0	1.0	0.0	0.0	4.5
1102	Cardiovascular Medicine and Haematology	2.8	2.5	0.0	0.0	1.0	0.0	6.3
1103	Clinical Sciences	7.4	9.6	3.4	3.9	26.7	0.0	51.0
1104	Complementary and Alternative Medicine	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1105	Dentistry	1.2	3.3	1.2	2.4	13.5	0.0	21.6
1106	Human Movement and Sports Science	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1107	Immunology	7.1	2.8	1.5	0.7	3.8	0.0	15.9
1108	Medical Microbiology	2.8	0.2	1.4	0.4	5.3	0.0	10.1
1109	Neurosciences	4.9	5.2	5.0	0.0	10.5	0.0	25.6
1110	Nursing	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1111	Nutrition and Dietetics	0.0	0.4	0.0	0.4	0.4	0.0	1.2
1112	Oncology and Carcinogenesis	4.5	6.9	4.3	0.3	3.3	0.0	19.3
1113	Ophthalmology and Optometry	1.0	5.8	2.0	1.0	2.0	0.0	11.8
1114	Paediatrics and Reproductive Medicine	5.0	1.0	2.0	0.0	5.0	0.0	13.0
1115	Pharmacology and Pharmaceutical Sciences	4.9	4.1	2.5	1.0	11.0	0.0	23.5
1116	Medical Physiology	2.1	1.3	0.0	0.0	1.6	0.0	5.0
1117	Public Health and Health Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1199	Other Medical and Health Sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total		44.4	44.9	24.3	11.1	84.1	0.0	208.8

Research income by year—all categories ($)



FoR code		2008	2009	2010	Total
1101	Medical Biochemistry and Metabolomics	$6,450,721	$7,860,978	$10,536,718	$24,848,417
1102	Cardiovascular Medicine and Haematology	$63,341,782	$63,693,066	$63,875,763	$190,910,611
1103	Clinical Sciences	$273,435,534	$211,498,226	$220,578,445	$705,512,205
1104	Complementary and Alternative Medicine	$2,173,223	$1,905,290	$1,805,382	$5,883,895
1105	Dentistry	$17,217,395	$12,999,249	$14,649,339	$44,865,983
1106	Human Movement and Sports Science	$15,267,809	$15,472,051	$15,700,409	$46,440,269
1107	Immunology	$82,606,941	$74,320,481	$71,322,206	$228,249,628
1108	Medical Microbiology	$24,548,343	$26,166,201	$27,406,257	$78,120,801
1109	Neurosciences	$111,223,790	$113,828,827	$122,556,866	$347,609,483
1110	Nursing	$23,214,826	$26,951,678	$33,589,360	$83,755,864
1111	Nutrition and Dietetics	$7,938,330	$10,097,894	$12,721,389	$30,757,613
1112	Oncology and Carcinogenesis	$100,698,408	$102,105,302	$95,476,230	$298,279,940
1113	Ophthalmology and Optometry	$19,927,018	$12,616,078	$16,397,097	$48,940,193
1114	Paediatrics and Reproductive Medicine	$55,703,509	$48,145,141	$51,531,538	$155,380,188
1115	Pharmacology and Pharmaceutical Sciences	$44,883,684	$45,528,826	$48,993,687	$139,406,197
1116	Medical Physiology	$17,707,433	$18,369,952	$18,604,005	$54,681,390
1117	Public Health and Health Services	$273,180,683	$290,189,737	$311,064,760	$874,435,180
1199	Other Medical and Health Sciences	$25,254,852	$22,267,057	$22,011,779	$69,533,688
Total		$1,164,774,281	$1,104,016,034	$1,158,821,230	$3,427,611,545

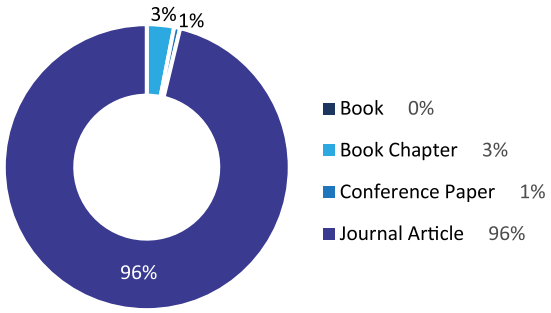
Research commercialisation income by year ($)



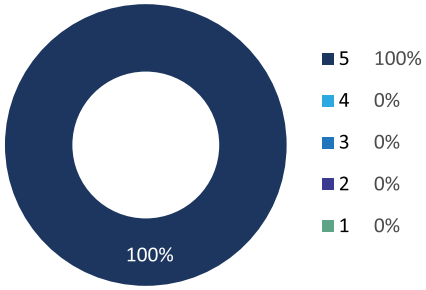
FoR code		2008	2009	2010	Total
1101	Medical Biochemistry and Metabolomics	$2,594	$0	$12,959	$15,553
1102	Cardiovascular Medicine and Haematology	$88,956	$7,948	$28,880	$125,784
1103	Clinical Sciences	$17,850,168	$8,403,702	$8,145,812	$34,399,682
1104	Complementary and Alternative Medicine	$0	$0	$0	$0
1105	Dentistry	$1,802,087	$1,807,500	$1,538,276	$5,147,863
1106	Human Movement and Sports Science	$0	$0	$0	$0
1107	Immunology	$27,546,700	$13,508,066	$7,997,229	$49,051,995
1108	Medical Microbiology	$794	$518	$19,808	$21,120
1109	Neurosciences	$15,751	$1,714,174	$95,066	$1,824,991
1110	Nursing	$0	$0	$0	$0
1111	Nutrition and Dietetics	$0	$0	$0	$0
1112	Oncology and Carcinogenesis	$8,241,385	$3,936,099	$2,399,304	$14,576,788
1113	Ophthalmology and Optometry	$477,051	$286,554	$191,620	$955,225
1114	Paediatrics and Reproductive Medicine	$1,296,881	$232,566	$967,524	$2,496,971
1115	Pharmacology and Pharmaceutical Sciences	$5,501,152	$2,778,171	$7,000,724	$15,280,047
1116	Medical Physiology	$97,615	$82,874	$18,070	$198,559
1117	Public Health and Health Services	$0	$0	$0	$0
1199	Other Medical and Health Sciences	$0	$0	$0	$0
Total		$62,921,134	$32,758,172	$28,415,272	$124,094,578

1101 Medical Biochemistry and Metabolomics		4 out of 4 assessed UoEs were rated at or above world standard	
FTEs	152.0	Rating	Distribution
Research outputs	1,087.9	5	4
Research income	$24,848,417	4	0
UoEs assessed	4	3	0
Esteem count	19.2	2	0
Patents	4.5	1	0
Research commercialisation income	$15,553	**Total**	**4**

Research outputs by type

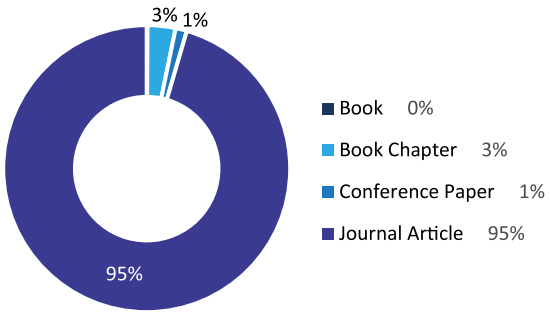


FoR rating distribution

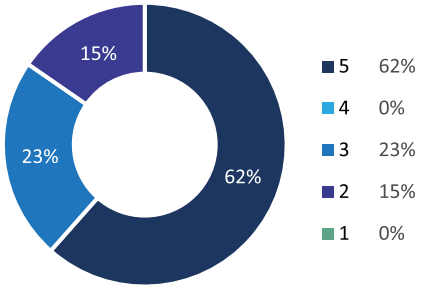


1102 Cardiovascular Medicine and Haematology		11 out of 13 assessed UoEs were rated at or above world standard	
FTEs	226.1	Rating	Distribution
Research outputs	3,391.2	5	8
Research income	$190,910,611	4	0
UoEs assessed	13	3	3
Esteem count	52.2	2	2
Patents	6.3	1	0
Research commercialisation income	$125,784	**Total**	**13**

Research outputs by type

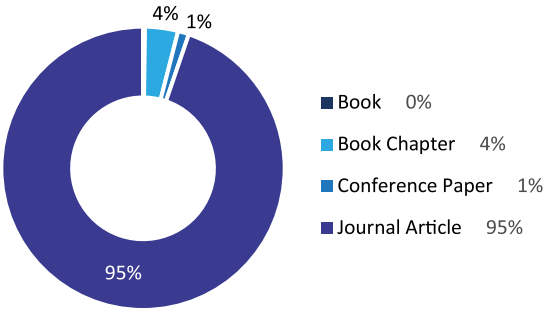


FoR rating distribution

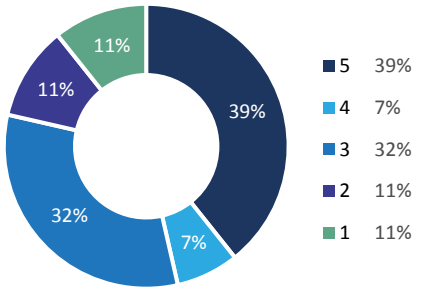


1103 Clinical Sciences		22 out of 28 assessed UoEs were rated at or above world standard	
FTEs	1731.4	Rating	Distribution
Research outputs	23,878.3	5	11
Research income	$705,512,205	4	2
UoEs assessed	28	3	9
Esteem count	166.7	2	3
Patents	51.0	1	3
Research commercialisation income	$34,399,682	**Total**	**28**

Research outputs by type

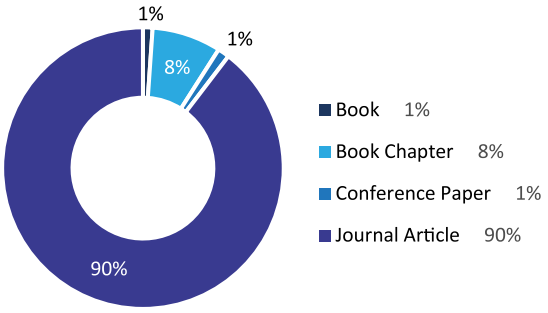


FoR rating distribution

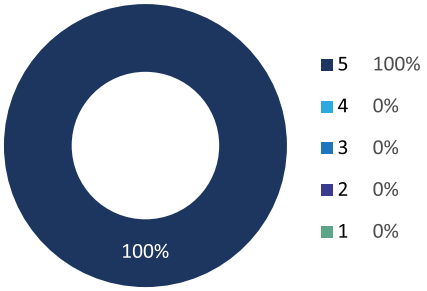


1104 Complementary and Alternative Medicine		1 out of 1 assessed UoEs were rated at or above world standard	
FTEs	110.7	Rating	Distribution
Research outputs	814.5	5	1
Research income	$5,883,895	4	0
UoEs assessed	1	3	0
Esteem count	2.3	2	0
Patents	0.0	1	0
Research commercialisation income	-	**Total**	**1**

Research outputs by type

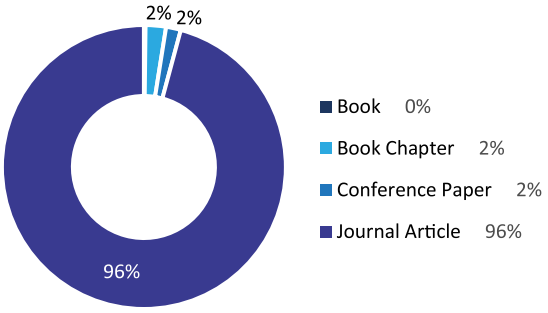


FoR rating distribution

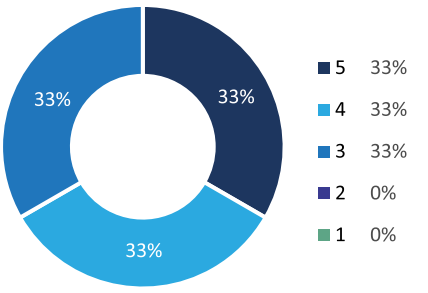


1105 Dentistry		6 out of 6 assessed UoEs were rated at or above world standard	
FTEs	182.3	Rating	Distribution
Research outputs	1,618.5	5	2
Research income	$44,865,983	4	2
UoEs assessed	6	3	2
Esteem count	5.7	2	0
Patents	21.6	1	0
Research commercialisation income	$5,147,863	**Total**	**6**

Research outputs by type

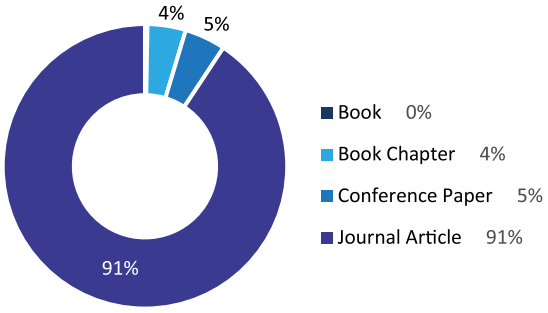


FoR rating distribution

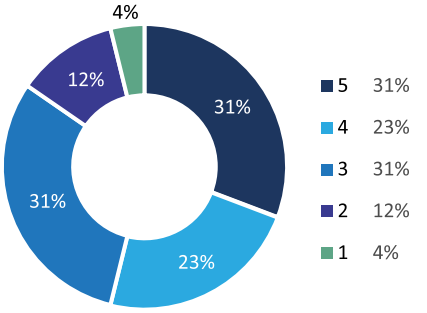


1106 Human Movement and Sports Science		22 out of 26 assessed UoEs were rated at or above world standard	
FTEs	424.8	Rating	Distribution
Research outputs	5,512.6	5	8
Research income	$46,440,269	4	6
UoEs assessed	26	3	8
Esteem count	25	2	3
Patents	0.0	1	1
Research commercialisation income	-	**Total**	**26**

Research outputs by type

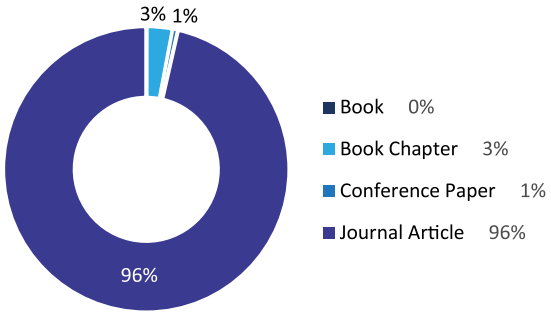


FoR rating distribution

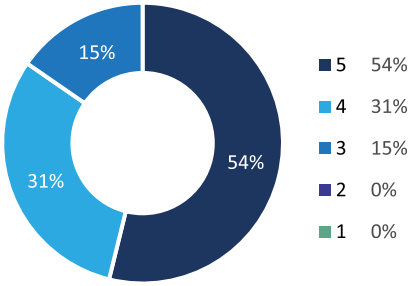


1107 Immunology		13 out of 13 assessed UoEs were rated at or above world standard	
FTEs	371.8	Rating	Distribution
Research outputs	3,275.1	5	7
Research income	$228,249,628	4	4
UoEs assessed	13	3	2
Esteem count	84.9	2	0
Patents	15.9	1	0
Research commercialisation income	$49,051,995	**Total**	**13**

Research outputs by type

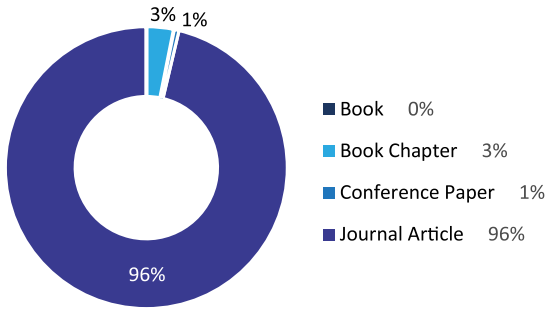


FoR rating distribution

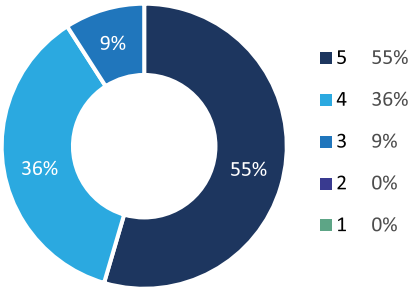


1108 Medical Microbiology		11 out of 11 assessed UoEs were rated at or above world standard	
FTEs	189.9	Rating	Distribution
Research outputs	1,850.5	5	6
Research income	$78,120,801	4	4
UoEs assessed	11	3	1
Esteem count	33.3	2	0
Patents	10.1	1	0
Research commercialisation income	$21,120	**Total**	**11**

Research outputs by type

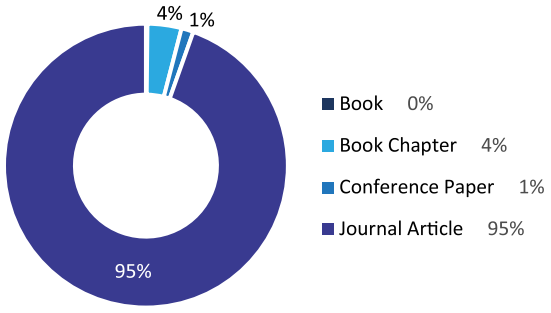


FoR rating distribution

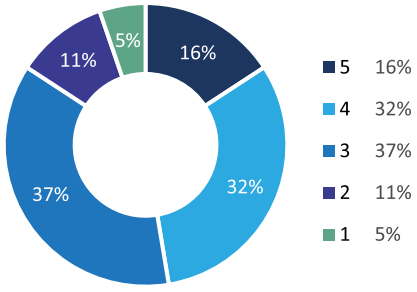


1109 Neurosciences		16 out of 19 assessed UoEs were rated at or above world standard	
FTEs	581.9	Rating	Distribution
Research outputs	6,117.1	5	3
Research income	$347,609,483	4	6
UoEs assessed	19	3	7
Esteem count	148.8	2	2
Patents	25.6	1	1
Research commercialisation income	$1,824,991	**Total**	**19**

Research outputs by type

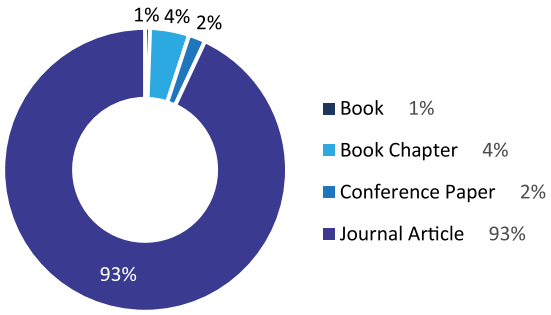


FoR rating distribution

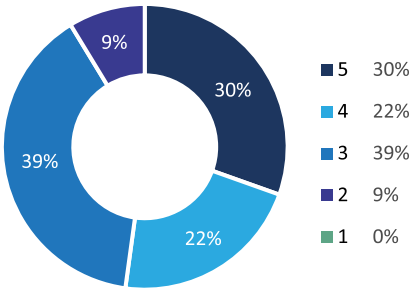


1110 Nursing		21 out of 23 assessed UoEs were rated at or above world standard	
FTEs	837.0	Rating	Distribution
Research outputs	5,427.9	5	7
Research income	$83,755,864	4	5
UoEs assessed	23	3	9
Esteem count	21.5	2	2
Patents	0.0	1	0
Research commercialisation income	-	**Total**	**23**

Research outputs by type

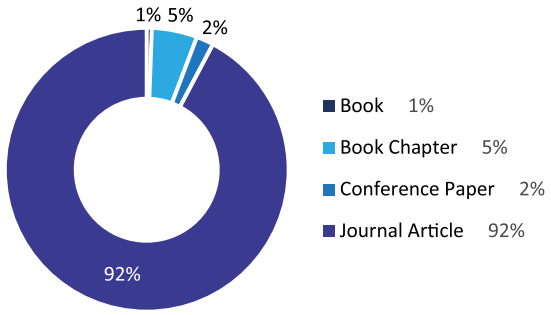


FoR rating distribution

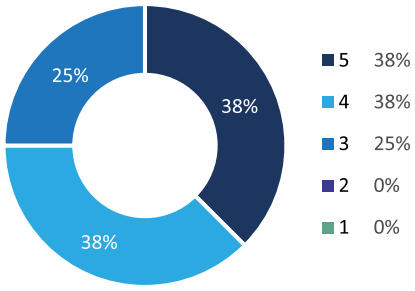


1111 Nutrition and Dietetics		8 out of 8 assessed UoEs were rated at or above world standard	
FTEs	156.2	Rating	Distribution
Research outputs	1,392.5	5	3
Research income	$30,757,613	4	3
UoEs assessed	8	3	2
Esteem count	14.4	2	0
Patents	1.2	1	0
Research commercialisation income	-	**Total**	**8**

Research outputs by type

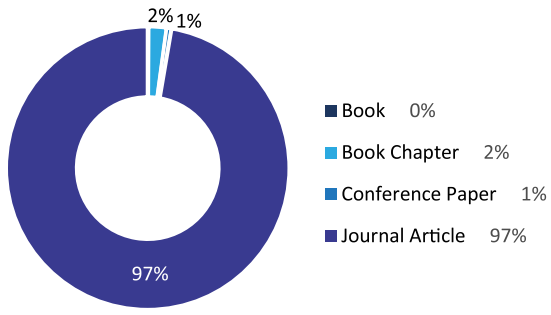


FoR rating distribution

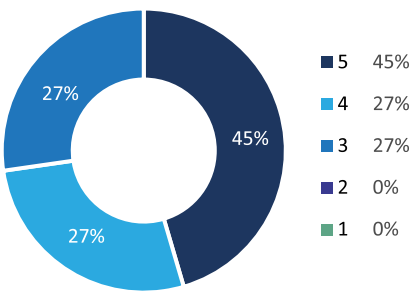


1112 Oncology and Carcinogenesis		11 out of 11 assessed UoEs were rated at or above world standard	
FTEs	295.1	Rating	Distribution
Research outputs	3,828.2	5	5
Research income	$298,279,940	4	3
UoEs assessed	11	3	3
Esteem count	51.9	2	0
Patents	19.3	1	0
Research commercialisation income	$14,576,788	**Total**	**11**

Research outputs by type

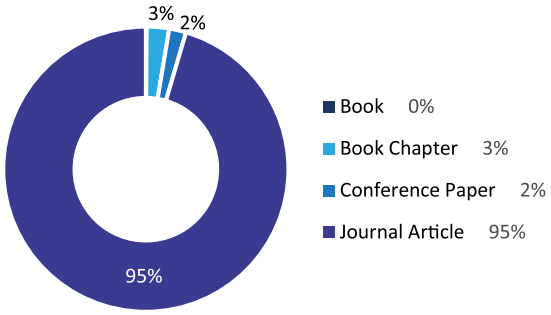


FoR rating distribution

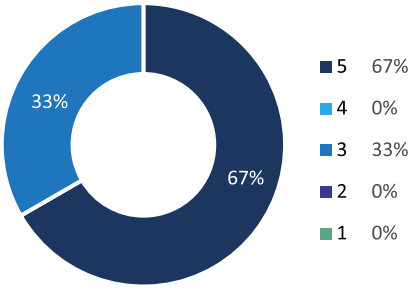


1113 Ophthalmology and Optometry		6 out of 6 assessed UoEs were rated at or above world standard	
FTEs	137.2	Rating	Distribution
Research outputs	2,293.7	5	4
Research income	$48,940,193	4	0
UoEs assessed	6	3	2
Esteem count	11.6	2	0
Patents	11.8	1	0
Research commercialisation income	$955,225	**Total**	**6**

Research outputs by type

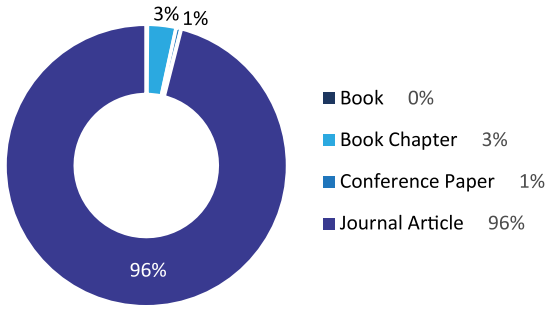


FoR rating distribution

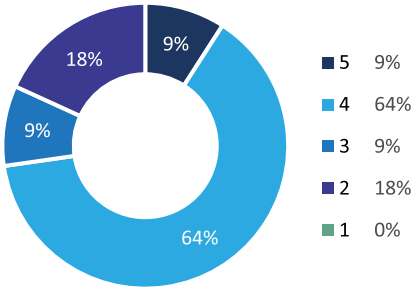


1114 Paediatrics and Reproductive Medicine		9 out of 11 assessed UoEs were rated at or above world standard	
FTEs	317.2	Rating	Distribution
Research outputs	5,054.9	5	1
Research income	$155,380,188	4	7
UoEs assessed	11	3	1
Esteem count	47.0	2	2
Patents	13.0	1	0
Research commercialisation income	$2,496,971	**Total**	**11**

Research outputs by type

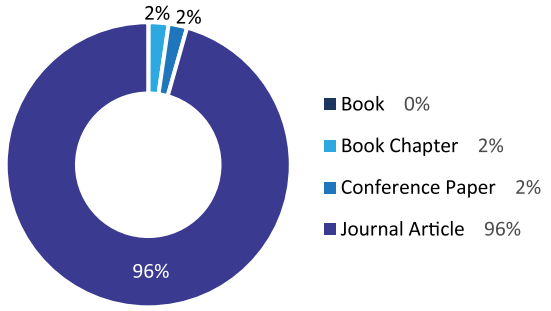


FoR rating distribution

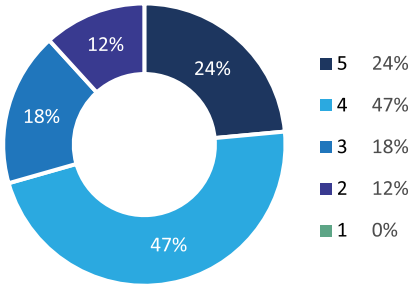


1115 Pharmacology and Pharmaceutical Sciences		15 out of 17 assessed UoEs were rated at or above world standard	
FTEs	444.8	Rating	Distribution
Research outputs	5,210.3	5	4
Research income	$139,406,197	4	8
UoEs assessed	17	3	3
Esteem count	38.3	2	2
Patents	23.5	1	0
Research commercialisation income	$15,280,047	**Total**	**17**

Research outputs by type

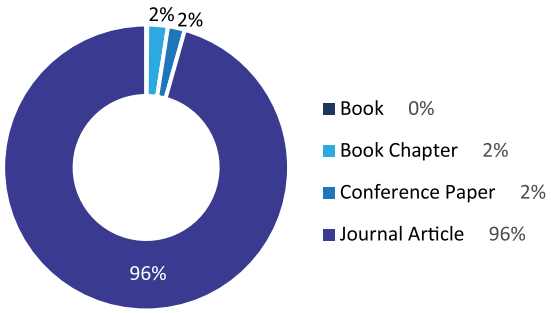


FoR rating distribution

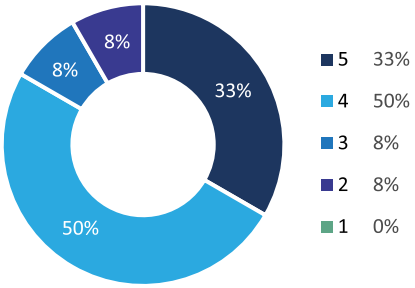


1116 Medical Physiology		11 out of 12 assessed UoEs were rated at or above world standard	
FTEs	170.1	Rating	Distribution
Research outputs	1,999.2	5	4
Research income	$54,681,390	4	6
UoEs assessed	12	3	1
Esteem count	42.7	2	1
Patents	5.0	1	0
Research commercialisation income	$198,559	**Total**	**12**

Research outputs by type

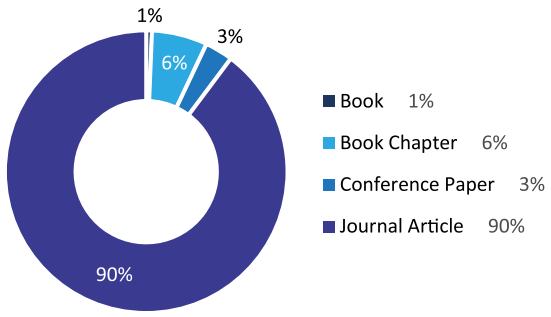


FoR rating distribution

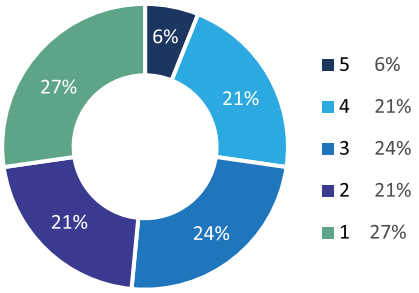


1117 Public Health and Health Services		17 out of 33 assessed UoEs were rated at or above world standard	
FTEs	1,877.4	Rating	Distribution
Research outputs	17,203.8	5	2
Research income	$874,435,180	4	7
UoEs assessed	33	3	8
Esteem count	533.3	2	7
Patents	0.0	1	9
Research commercialisation income	-	**Total**	**33**

Research outputs by type

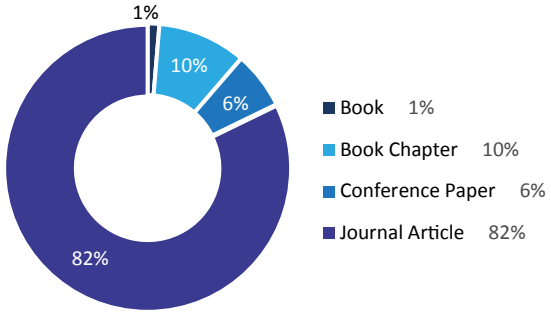


FoR rating distribution

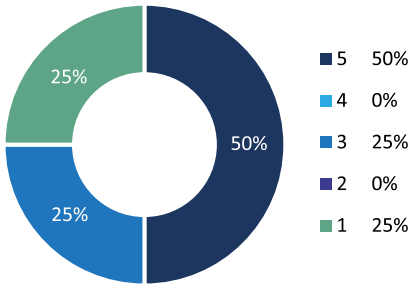


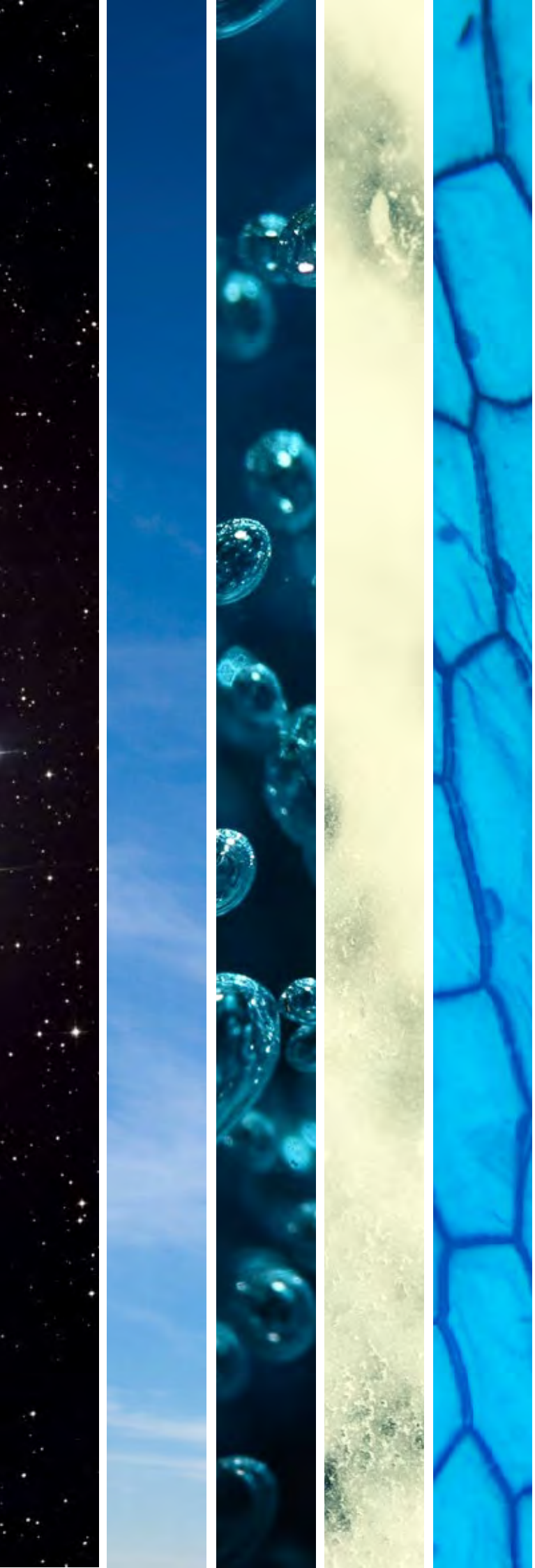
1199 Other Medical and Health Sciences		3 out of 4 assessed UoEs were rated at or above world standard	
FTEs	1,031.0	Rating	Distribution
Research outputs	1,903.7	5	2
Research income	$69,533,688	4	0
UoEs assessed	4	3	1
Esteem count	31.7	2	0
Patents	0.0	1	1
Research commercialisation income	-	**Total**	**4**

Research outputs by type



FoR rating distribution





12 Built Environment and Design

Built Environment and Design is comprised of the following four-digit codes:

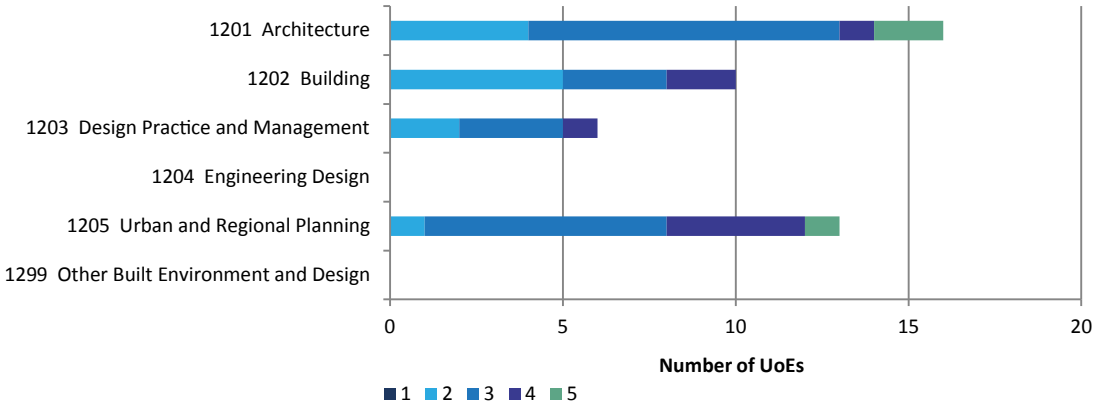
12	**Built Environment and Design**	**146**
1201	Architecture	149
1202	Building	149
1203	Design Practice and Management	149
1204	Engineering Design	150
1205	Urban and Regional Planning	150
1299	Other Built Environment and Design	150

12 Built Environment and Design		33 out of 45 assessed UoEs were rated at or above world standard	
FTEs	958.4	Rating	Distribution
Research outputs	7,930.2	5	3
Research income	$75,603,783	4	8
UoEs assessed	45	3	22
Esteem count	19.1	2	12
Patents	0.0	1	0
Research commercialisation income	$98,333	**Total**	**45**

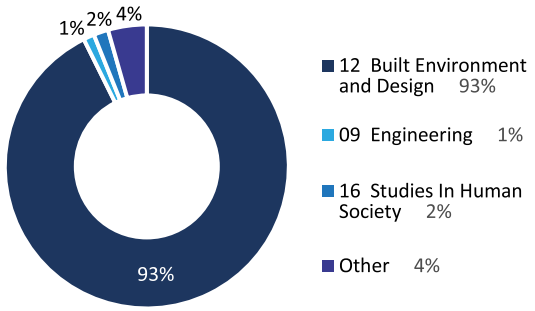
FoR overview

Built Environment and Design (12) accounted for approximately 2% of the research outputs submitted to ERA 2012. Overall, conference papers were the most common research output type, followed by journal articles. Non-traditional research outputs comprised a high proportion of outputs in Architecture (1201) and Design Practice and Management (1203). Of the 7% of research outputs co-apportioned to codes outside of Built Environment and Design, 2% were shared with Studies in Human Society (16) and 1% with Engineering (09).

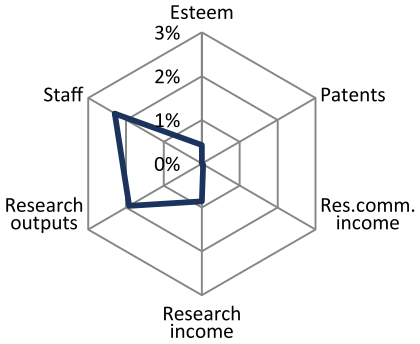
Number of UoEs per rating scale score



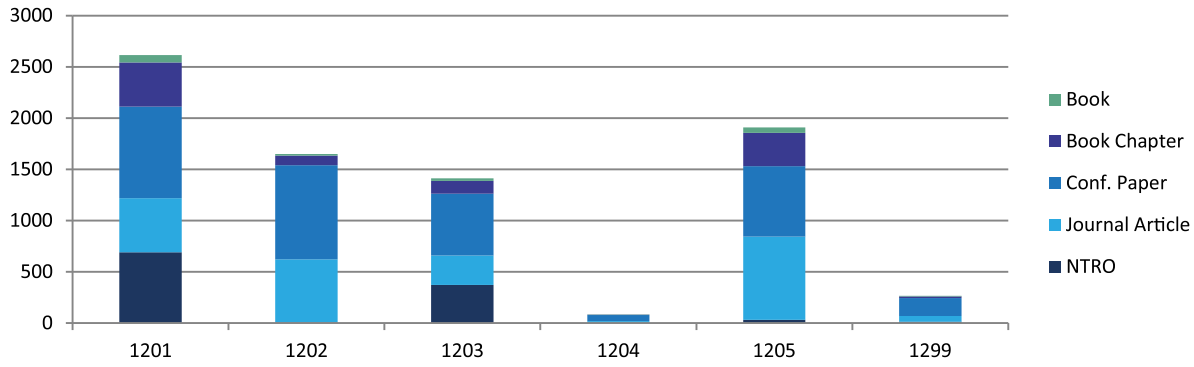
Disciplinary profile



Contribution to national landscape (%)

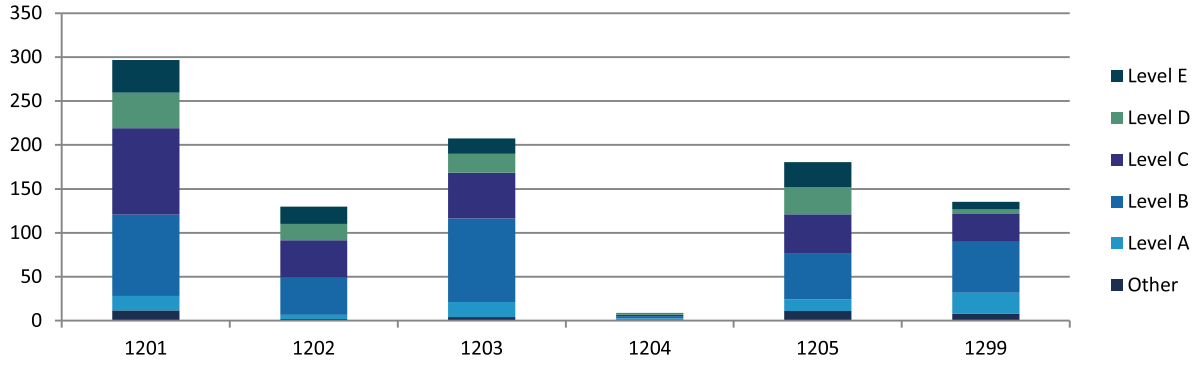


Research outputs submitted by type



FoR code		Book	Book Chapter	Conference Paper	Journal Article	NTRO	Total
1201	Architecture	68.9	431.5	893.8	528.1	690.9	2,613.2
1202	Building	17.2	92.8	917.2	616.3	8.0	1,651.5
1203	Design Practice and Management	25.8	122.4	602.8	287.9	373.5	1,412.4
1204	Engineering Design	0.3	1.3	56.9	21.3	0.0	79.8
1205	Urban and Regional Planning	50.8	326.7	685.8	810.4	34.2	1,907.9
1299	Other Built Environment and Design	4.5	15.9	173.7	56.8	14.5	265.4
Total		167.5	990.6	3,330.2	2,320.8	1,121.1	7,930.2

Staffing profile by academic level

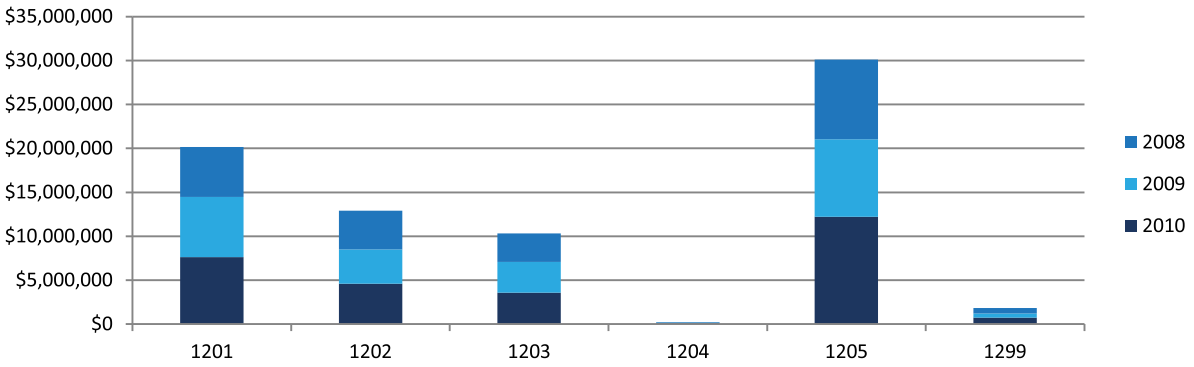


FoR code		Level E	Level D	Level C	Level B	Level A	Other	Total
1201	Architecture	37.0	40.5	98.2	92.5	16.3	12.0	296.5
1202	Building	19.8	18.4	42.6	42.5	4.7	1.9	129.9
1203	Design Practice and Management	17.2	21.6	52.2	94.9	17.4	4.0	207.3
1204	Engineering Design	0.8	1.3	1.5	2.6	2.5	0.2	8.9
1205	Urban and Regional Planning	28.8	30.8	44.0	52.9	13.0	11.1	180.6
1299	Other Built Environment and Design	8.6	5.2	31.7	58.0	23.7	8.0	135.2
Total		112.2	117.8	270.2	343.4	77.6	37.2	958.4

Patent profile

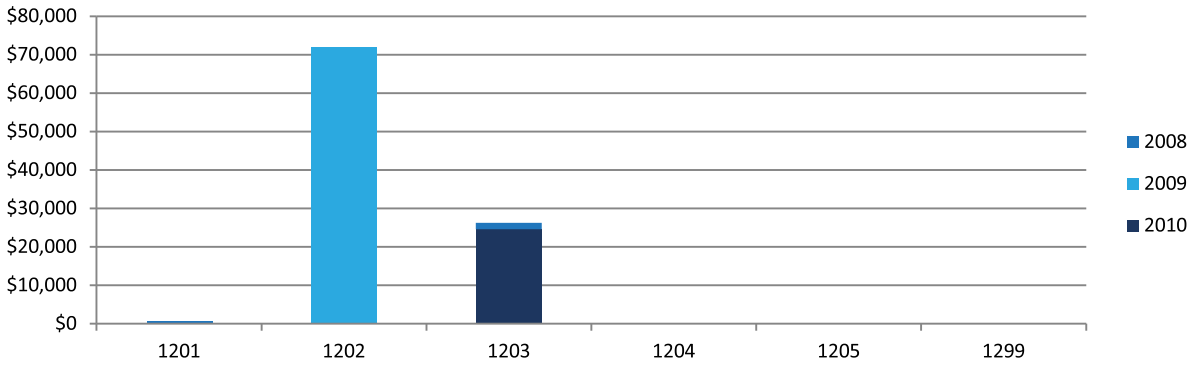
Note: There were no Patents submitted by UoEs in this FoR.

Research income by year—all categories ($)



FoR code		2008	2009	2010	Total
1201	Architecture	$5,696,254	$6,840,321	$7,631,548	$20,168,123
1202	Building	$4,417,849	$3,894,044	$4,614,023	$12,925,916
1203	Design Practice and Management	$3,258,866	$3,496,265	$3,576,690	$10,331,821
1204	Engineering Design	$53,139	$28,132	$138,491	$219,762
1205	Urban and Regional Planning	$9,068,713	$8,812,351	$12,226,655	$30,107,719
1299	Other Built Environment and Design	$632,791	$488,730	$728,921	$1,850,442
Total		$23,127,612	$23,559,843	$28,916,328	$75,603,783

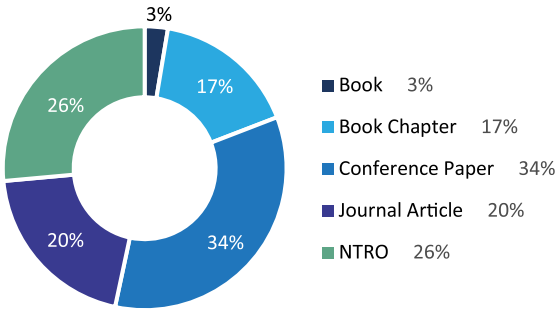
Research commercialisation income by year ($)



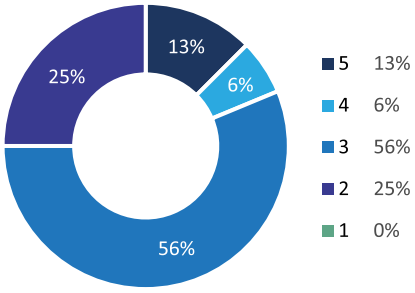
FoR code		2008	2009	2010	Total
1201	Architecture	$72	$0	$0	$72
1202	Building	$0	$71,997	$0	$71,997
1203	Design Practice and Management	$1,652	$0	$24,612	$26,264
1204	Engineering Design	$0	$0	$0	$0
1205	Urban and Regional Planning	$0	$0	$0	$0
1299	Other Built Environment and Design	$0	$0	$0	$0
Total		$1,724	$71,997	$24,612	$98,333

1201 Architecture		12 out of 16 assessed UoEs were rated at or above world standard	
FTEs	296.5	Rating	Distribution
Research outputs	2,613.2	5	2
Research income	$20,168,123	4	1
UoEs assessed	16	3	9
Esteem count	12.9	2	4
Patents	0.0	1	0
Research commercialisation income	$72	**Total**	**16**

Research outputs by type

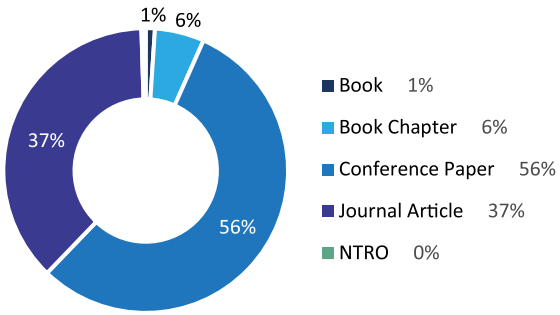


FoR rating distribution

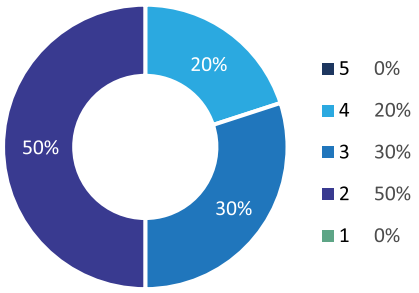


1202 Building		5 out of 10 assessed UoEs were rated at or above world standard	
FTEs	129.9	Rating	Distribution
Research outputs	1,651.5	5	0
Research income	$12,925,916	4	2
UoEs assessed	10	3	3
Esteem count	0.6	2	5
Patents	0.0	1	0
Research commercialisation income	$71,997	**Total**	**10**

Research outputs by type

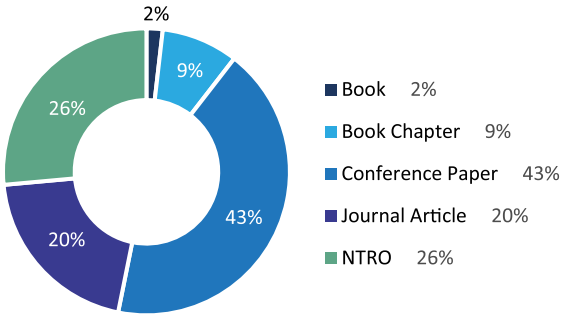


FoR rating distribution

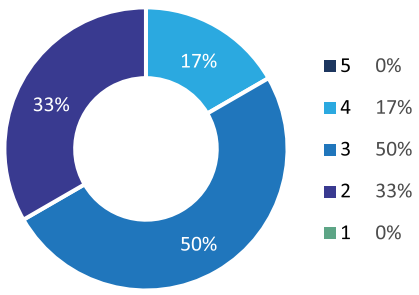


1203 Design Practice and Management		4 out of 6 assessed UoEs were rated at or above world standard	
FTEs	207.3	Rating	Distribution
Research outputs	1,412.4	5	0
Research income	$10,331,821	4	1
UoEs assessed	6	3	3
Esteem count	0.5	2	2
Patents	0.0	1	0
Research commercialisation income	$26,264	**Total**	**6**

Research outputs by type



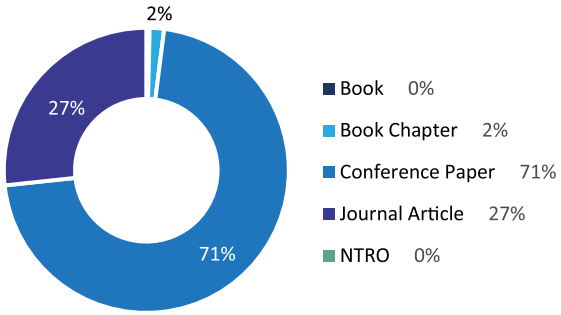
FoR rating distribution



1204 Engineering Design		0 UoEs were assessed in this FoR	
FTEs	8.9	Rating	Distribution
Research outputs	79.8	5	0
Research income	$219,762	4	0
UoEs assessed	0	3	0
Esteem count	0.0	2	0
Patents	0.0	1	0
Research commercialisation income	$0	**Total**	**0**

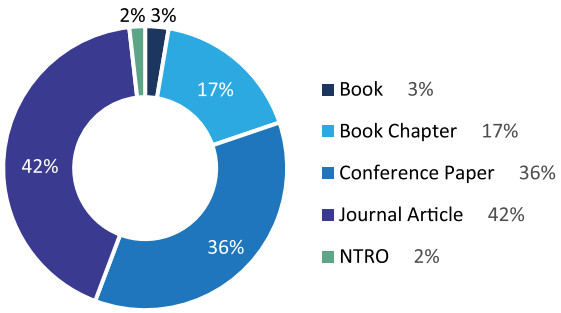
Research outputs by type

Note: There is no FoR rating distribution for 1204

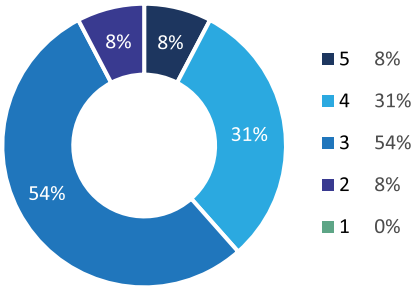


1205 Urban and Regional Planning		12 out of 13 assessed UoEs were rated at or above world standard	
FTEs	180.6	Rating	Distribution
Research outputs	1,907.9	5	1
Research income	$30,107,719	4	4
UoEs assessed	13	3	7
Esteem count	4.7	2	1
Patents	0.0	1	0
Research commercialisation income	$0	**Total**	**13**

Research outputs by type



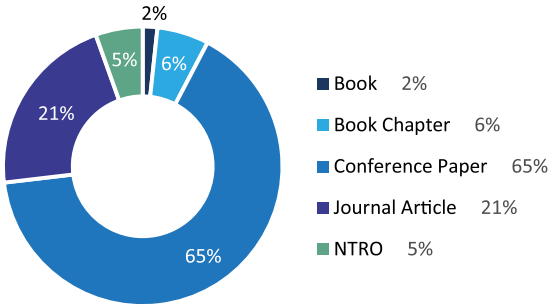
FoR rating distribution

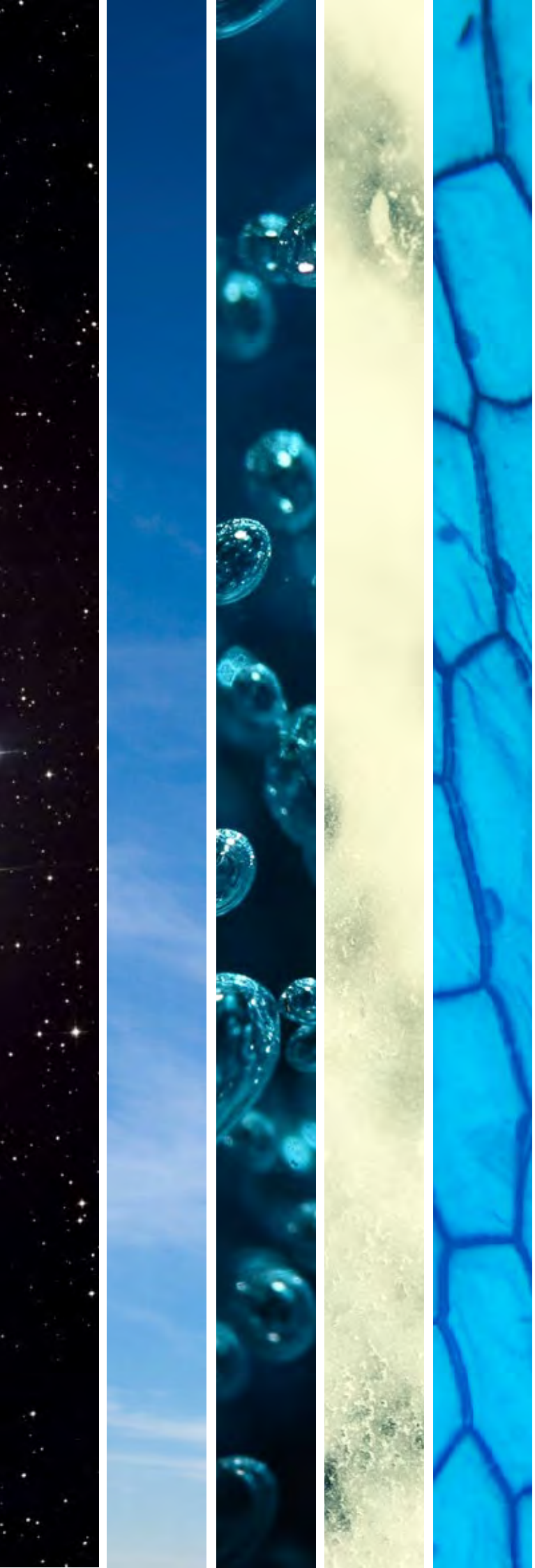


1299 Other Built Environment and Design		0 UoEs were assessed in this FoR	
FTEs	135.2	Rating	Distribution
Research outputs	265.4	5	0
Research income	$1,850,442	4	0
UoEs assessed	0	3	0
Esteem count	0.4	2	0
Patents	0.0	1	0
Research commercialisation income	$0	**Total**	**0**

Research outputs by type

Note: There is no FoR rating distribution for 1299





13 Education

Education is comprised of the following four-digit codes:

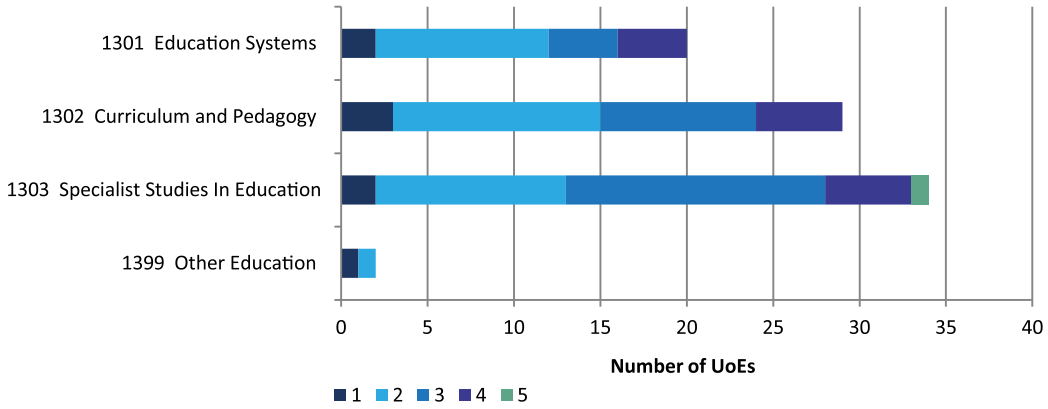
13	**Education**	**152**
1301	Education Systems	155
1302	Curriculum and Pedagogy	155
1303	Specialist Studies in Education	155
1399	Other Education	156

13 Education			43 out of 85 assessed UoEs were rated at or above world standard	
FTEs	2,973.9		Rating	Distribution
Research outputs	18,703.6		5	1
Research income	$182,068,131		4	14
UoEs assessed	85		3	28
Esteem count	56.9		2	34
Patents	-		1	8
Research commercialisation income	$1,453,868		**Total**	**85**

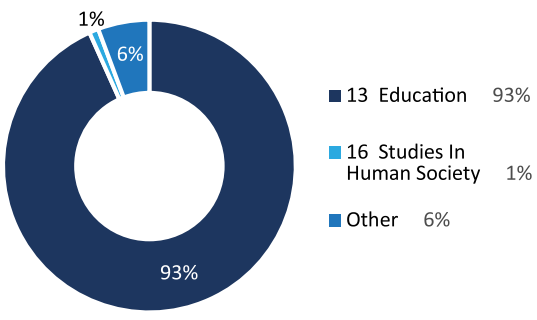
FoR overview

Education (13) accounted for approximately 5% of the research outputs submitted to ERA 2012. Education also accounted for around 8% of the staff submitted to ERA 2012. The most common research output type was journal articles, though the proportions of conference papers and book chapters were also high. Approximately 7% of Education research outputs were co-apportioned to other FoR codes, with 1% being shared with Studies in Human Society (16). Specialist Studies in Education (1303) was the largest Education sub-discipline in terms of assessed UoEs.

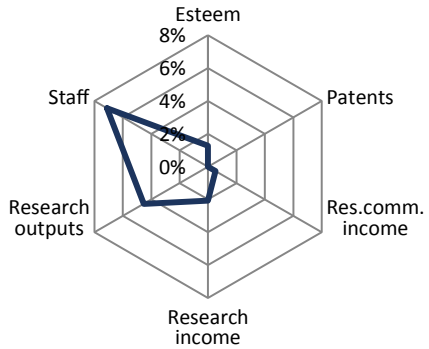
Number of UoEs per rating scale score



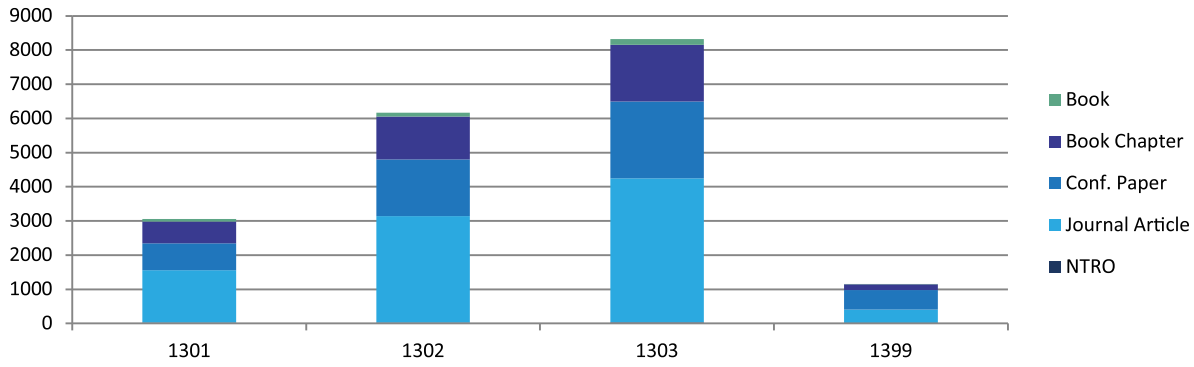
Disciplinary profile



Contribution to national landscape (%)

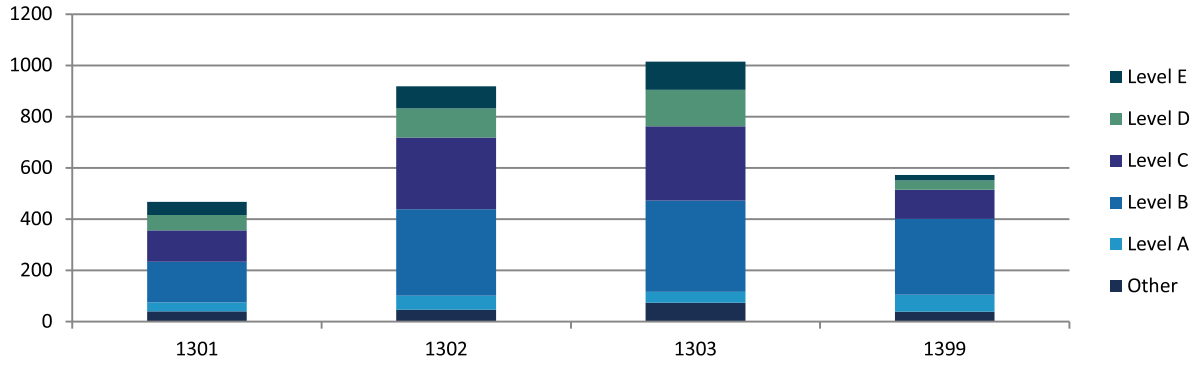


Research outputs submitted by type



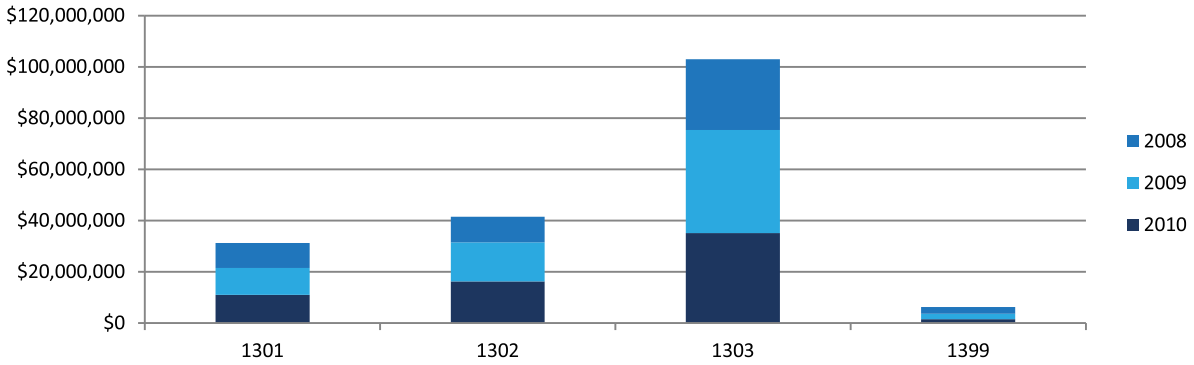
FoR code		Book	Book Chapter	Conference Paper	Journal Article	NTRO	Total
1301	Education Systems	75.5	639.6	781.8	1,543.6	19.5	3,060.0
1302	Curriculum and Pedagogy	112.5	1,250.4	1,657.2	3,117.4	27.5	6,165.0
1303	Specialist Studies in Education	175.0	1,657.1	2,241.6	4,221.2	28.6	8,323.5
1399	Other Education	12.1	167.8	571.0	400.2	4.0	1,155.1
Total		375.1	3,714.9	5,251.6	9,282.4	79.6	18,703.6

Staffing profile by academic level



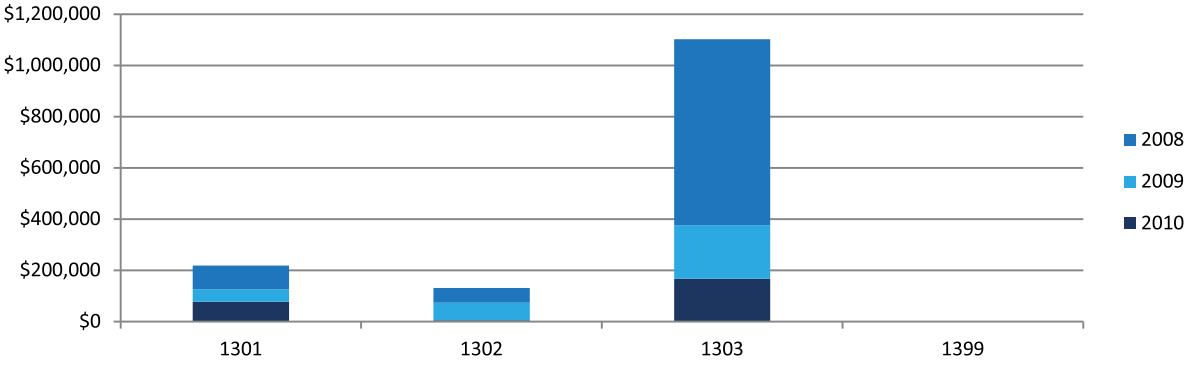
FoR code		Level E	Level D	Level C	Level B	Level A	Other	Total
1301	Education Systems	51.4	59.7	123.0	158.5	35.1	40.2	467.9
1302	Curriculum and Pedagogy	86.4	113.9	279.3	337.0	54.6	47.3	918.5
1303	Specialist Studies in Education	110.4	143.0	289.5	355.1	43.5	73.7	1,015.2
1399	Other Education	21.0	36.8	113.5	296.0	65.7	39.3	572.3
Total		269.2	353.4	805.3	1,146.6	198.9	200.5	2,973.9

Research income by year—all categories ($)



FoR code	2008	2009	2010	Total
1301 Education Systems	$9,843,754	$10,416,983	$11,060,318	$31,321,055
1302 Curriculum and Pedagogy	$9,922,009	$15,301,991	$16,288,182	$41,512,182
1303 Specialist Studies in Education	$27,655,873	$40,179,494	$35,139,811	$102,975,178
1399 Other Education	$2,526,662	$2,205,191	$1,527,863	$6,259,716
Total	$49,948,298	$68,103,659	$64,016,174	$182,068,131

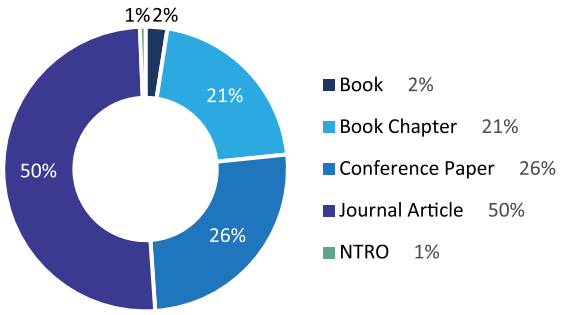
Research commercialisation income by year ($)



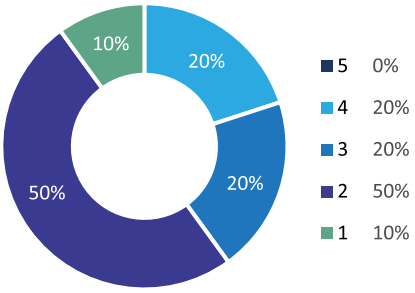
FoR code	2008	2009	2010	Total
1301 Education Systems	$93,298	$47,807	$78,503	$219,608
1302 Curriculum and Pedagogy	$57,783	$68,105	$5,830	$131,718
1303 Specialist Studies in Education	$726,517	$207,522	$168,503	$1,102,542
1399 Other Education	$0	$0	$0	$0
Total	$877,598	$323,434	$252,836	$1,453,868

1301 Education Systems		8 out of 20 assessed UoEs were rated at or above world standard	
FTEs	467.9	Rating	Distribution
Research outputs	3,060.0	5	0
Research income	$31,321,055	4	4
UoEs assessed	20	3	4
Esteem count	10.8	2	10
Patents	-	1	2
Research commercialisation income	$219,608	**Total**	**20**

Research outputs by type

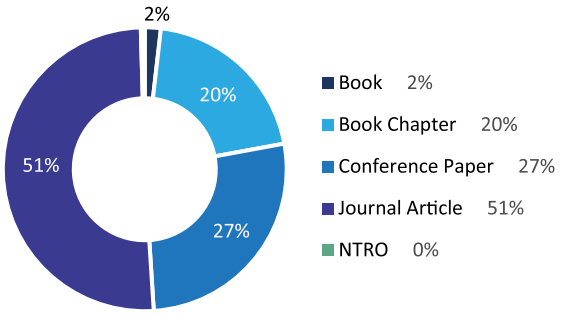


FoR rating distribution

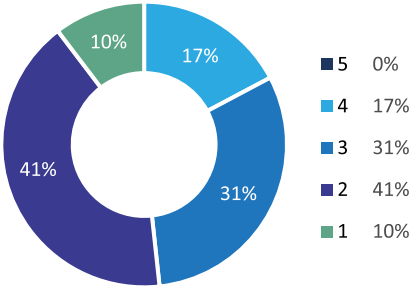


1302 Curriculum and Pedagogy		14 out of 29 assessed UoEs were rated at or above world standard	
FTEs	918.5	Rating	Distribution
Research outputs	6,165.0	5	0
Research income	$41,512,182	4	5
UoEs assessed	29	3	9
Esteem count	18.5	2	12
Patents	-	1	3
Research commercialisation income	$131,718	**Total**	**29**

Research outputs by type

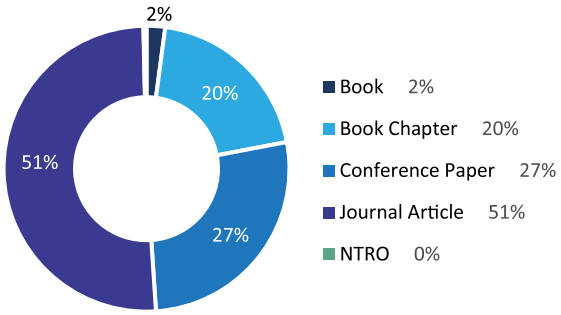


FoR rating distribution

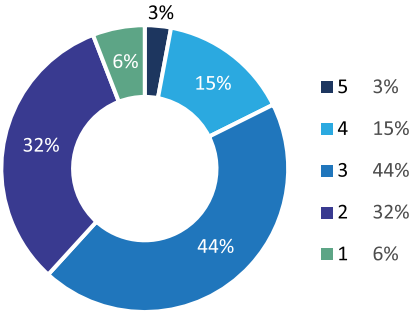


1303 Specialist Studies in Education		21 out of 34 assessed UoEs were rated at or above world standard	
FTEs	1015.2	Rating	Distribution
Research outputs	8,323.5	5	1
Research income	$102,975,178	4	5
UoEs assessed	34	3	15
Esteem count	25.4	2	11
Patents	-	1	2
Research commercialisation income	$1,102,542	**Total**	**34**

Research outputs by type

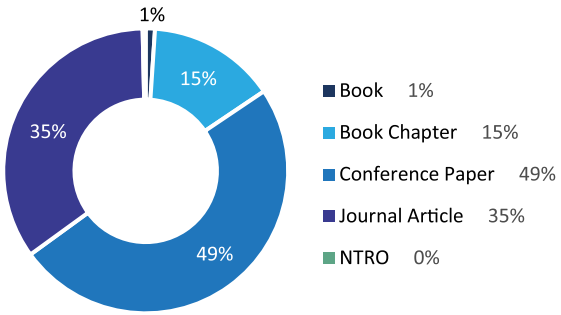


FoR rating distribution

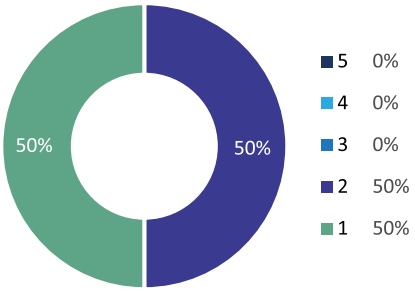


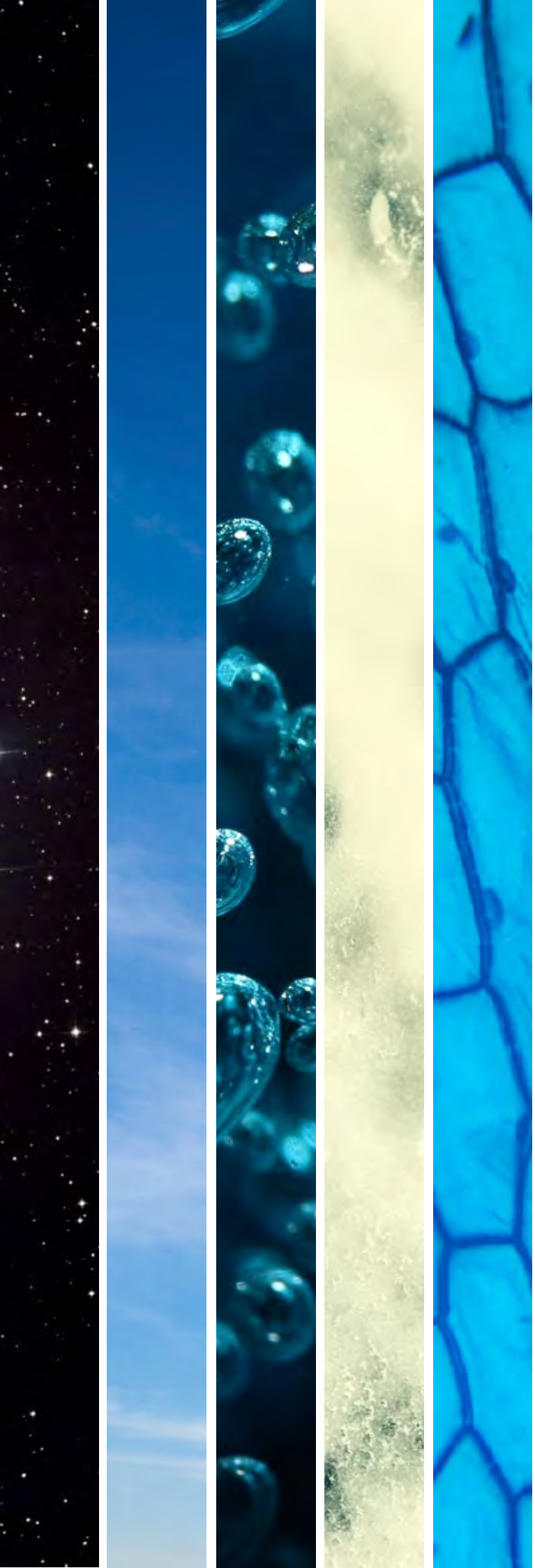
1399 Other Education		0 out of 2 assessed UoEs were rated at or above world standard	
FTEs	572.3	Rating	Distribution
Research outputs	1,155.1	5	0
Research income	$6,259,716	4	0
UoEs assessed	2	3	0
Esteem count	2.2	2	1
Patents	-	1	1
Research commercialisation income	$0	**Total**	**2**

Research outputs by type



FoR rating distribution





14 Economics

Economics is comprised of the following four-digit codes:

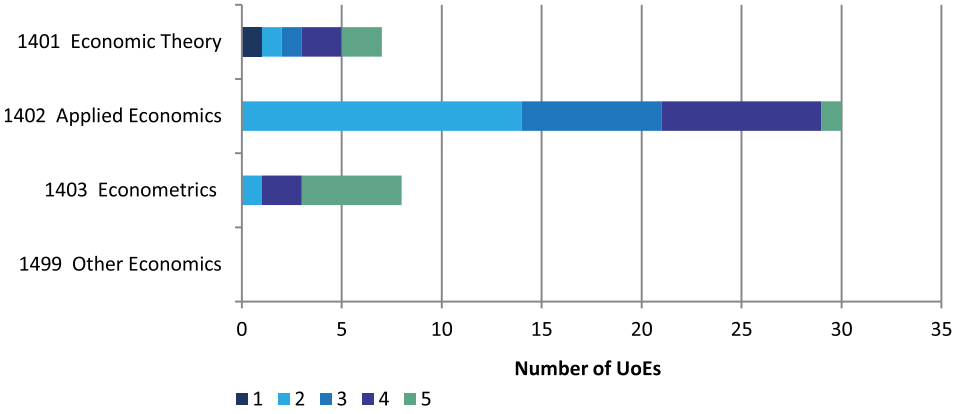
14	**Economics**	**158**
1401	Economic Theory	161
1402	Applied Economics	161
1403	Econometrics	161
1499	Other Economics	162

14 Economics			28 out of 45 assessed UoEs were rated at or above world standard	
FTEs	1,063.6		Rating	Distribution
Research outputs	7,629.3		5	8
Research income	$170,490,185		4	12
UoEs assessed	45		3	8
Esteem count	98.1		2	16
Patents	-		1	1
Research commercialisation income	$198,175		**Total**	**45**

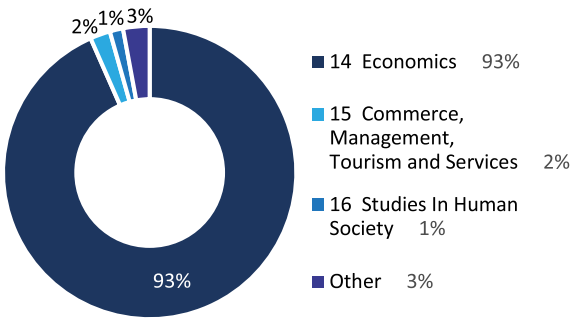
FoR overview

Economics (14) accounted for approximately 2% of the research outputs submitted to ERA 2012. Journal articles were the primary research output type. Of the 6% of research outputs co-apportioned to codes outside of Economics, 2% were coded to Commerce, Management, Tourism and Services (15) and 1% to Studies in Human Society (16). Applied Economics (1402) is the largest Economics sub-discipline, in terms of research outputs, staffing levels and research income.

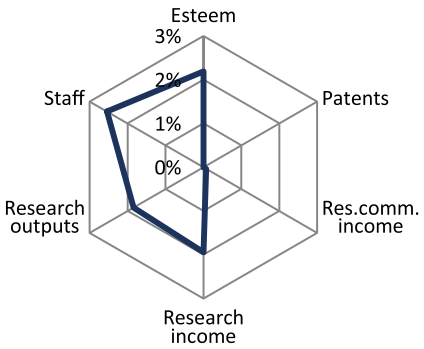
Number of UoEs per rating scale score



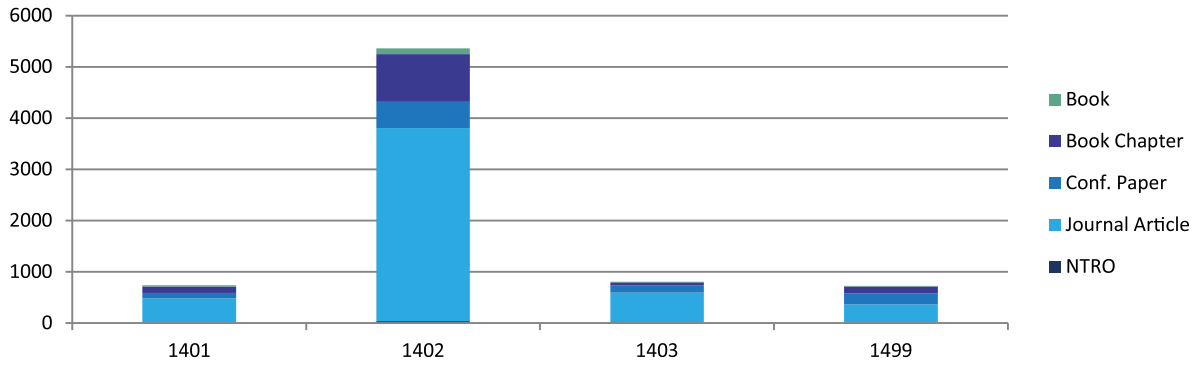
Disciplinary profile



Contribution to national landscape (%)

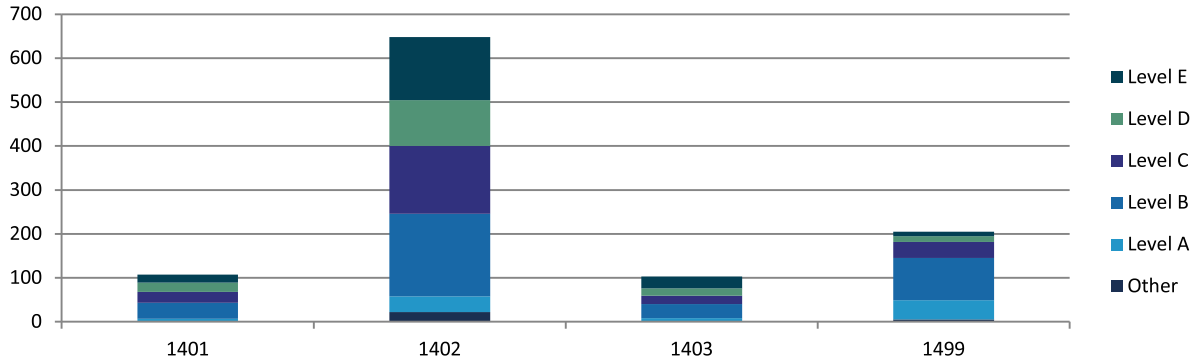


Research outputs submitted by type



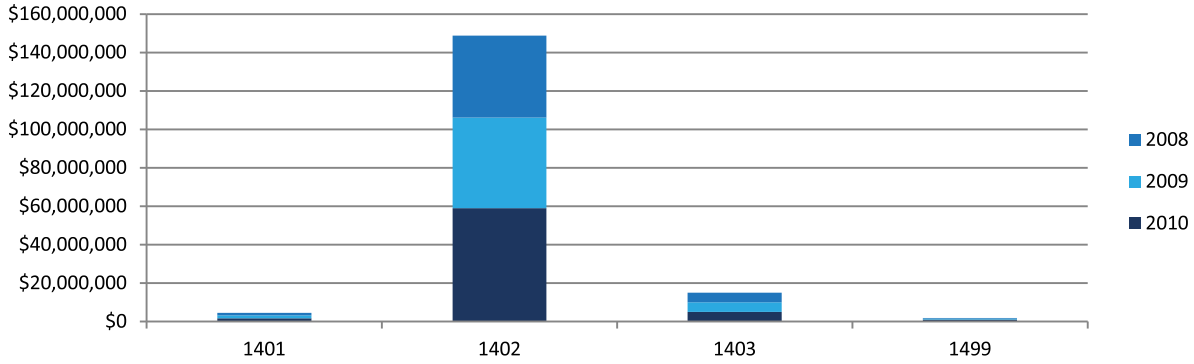
FoR code		Book	Book Chapter	Conference Paper	Journal Article	NTRO	Total
1401	Economic Theory	23.9	127.2	103.0	484.9	0.0	739.0
1402	Applied Economics	112.1	926.5	511.9	3,765.3	41.9	5,357.7
1403	Econometrics	10.9	64.8	136.6	586.0	10.0	808.3
1499	Other Economics	11.1	130.3	218.2	355.4	9.3	724.3
Total		158.0	1,248.8	969.7	5,191.6	61.2	7,629.3

Staffing profile by academic level



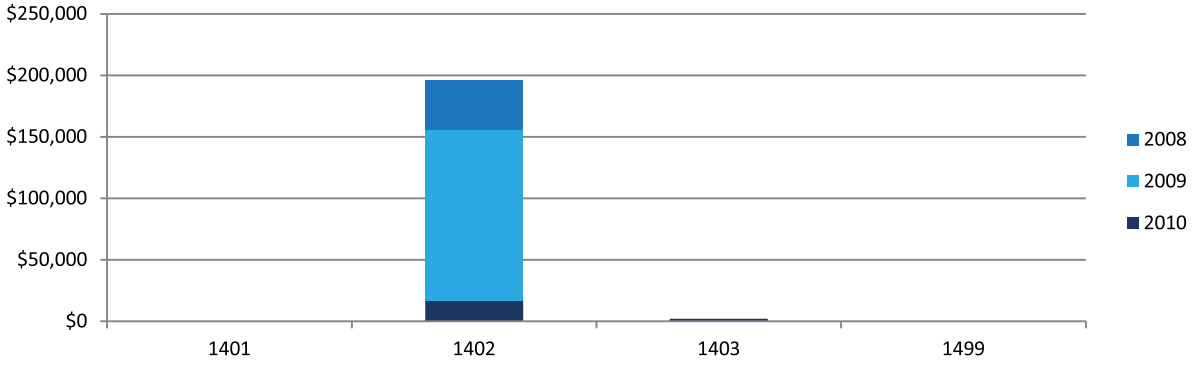
FoR code		Level E	Level D	Level C	Level B	Level A	Other	Total
1401	Economic Theory	18.2	21.4	25.0	36.2	5.1	1.7	107.6
1402	Applied Economics	143.1	104.1	154.3	188.0	36.0	22.2	647.7
1403	Econometrics	27.2	17.0	18.8	32.1	7.0	1.2	103.3
1499	Other Economics	9.9	13.4	36.1	96.5	43.3	5.8	205.0
Total		198.4	155.9	234.2	352.8	91.4	30.9	1,063.6

Research income by year—all categories ($)



FoR code	2008	2009	2010	Total
1401 Economic Theory	$1,430,019	$1,520,614	$1,682,003	$4,632,636
1402 Applied Economics	$42,668,740	$46,987,244	$59,103,178	$148,759,162
1403 Econometrics	$5,058,149	$4,927,018	$5,119,714	$15,104,881
1499 Other Economics	$492,801	$342,195	$1,158,510	$1,993,506
Total	$49,649,709	$53,777,071	$67,063,405	$170,490,185

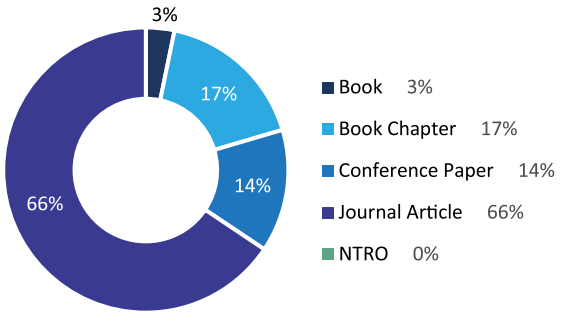
Research commercialisation income by year ($)



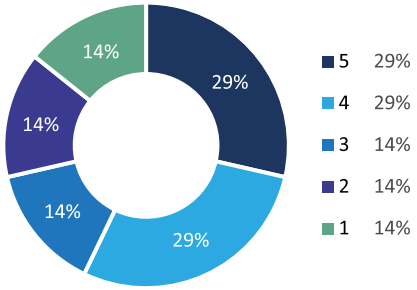
FoR code	2008	2009	2010	Total
1401 Economic Theory	$0	$0	$0	$0
1402 Applied Economics	$40,490	$138,441	$17,077	$196,008
1403 Econometrics	$0	$0	$2,167	$2,167
1499 Other Economics	$0	$0	$0	$0
Total	$40,490	$138,441	$19,244	$198,175

1401 Economic Theory		5 out of 7 assessed UoEs were rated at or above world standard	
FTEs	107.6	Rating	Distribution
Research outputs	739.0	5	2
Research income	$4,632,636	4	2
UoEs assessed	7	3	1
Esteem count	9.3	2	1
Patents	-	1	1
Research commercialisation income	$0	**Total**	**7**

Research outputs by type

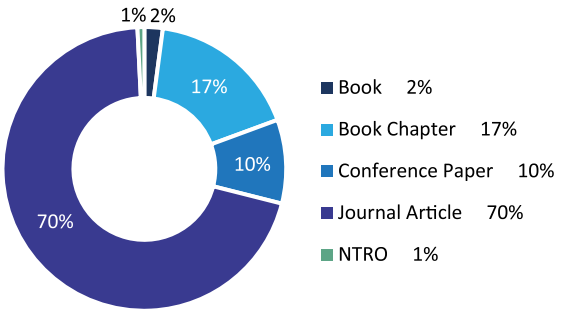


FoR rating distribution

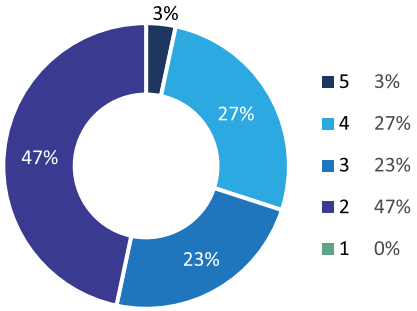


1402 Applied Economics		16 out of 30 assessed UoEs were rated at or above world standard	
FTEs	647.7	Rating	Distribution
Research outputs	5,357.7	5	1
Research income	$148,759,162	4	8
UoEs assessed	30	3	7
Esteem count	67.6	2	14
Patents	-	1	0
Research commercialisation income	$196,008	**Total**	**30**

Research outputs by type

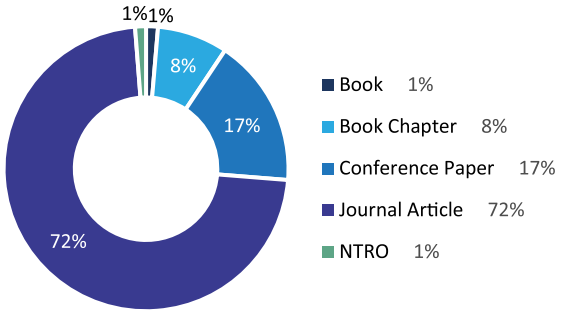


FoR rating distribution

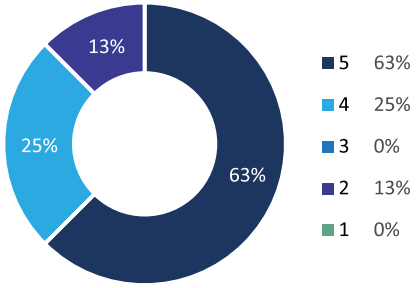


1403 Econometrics		7 out of 8 assessed UoEs were rated at or above world standard	
FTEs	103.3	Rating	Distribution
Research outputs	808.3	5	5
Research income	$15,104,881	4	2
UoEs assessed	8	3	0
Esteem count	17.6	2	1
Patents	-	1	0
Research commercialisation income	$2,167	**Total**	**8**

Research outputs by type



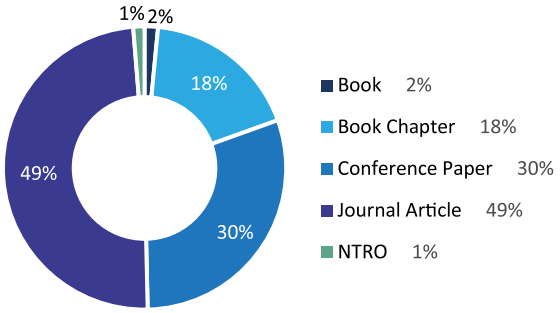
FoR rating distribution

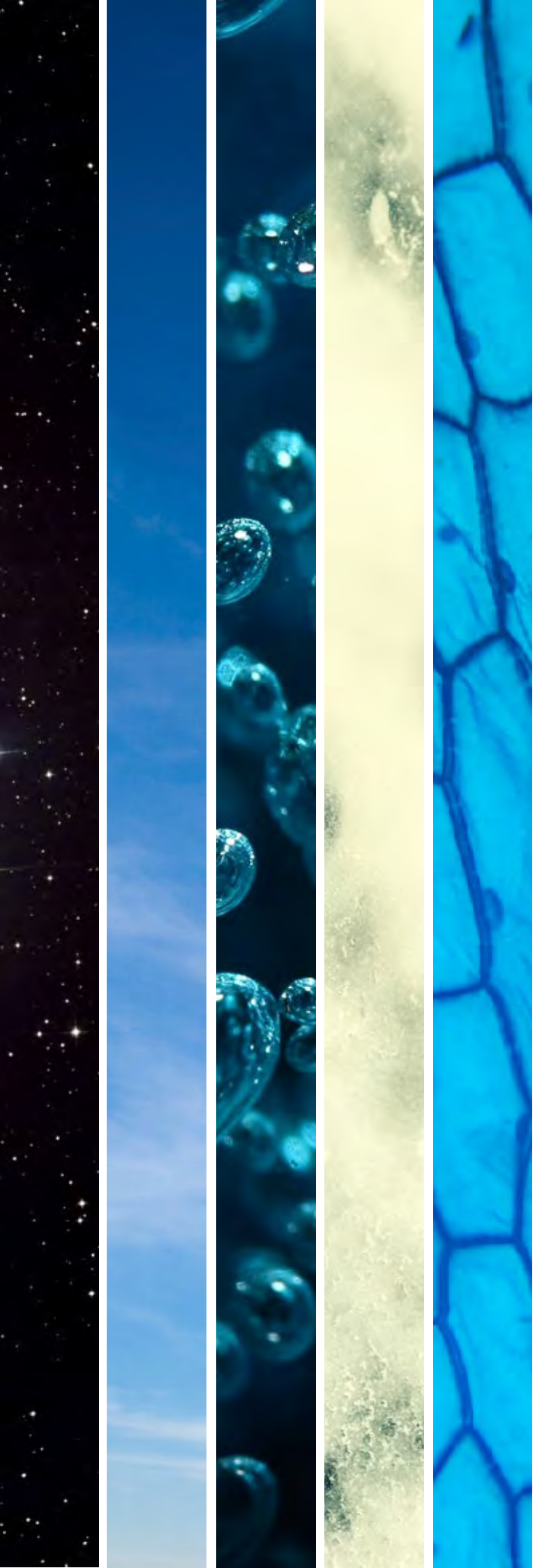


1499 Other Economics		0 UoEs were assessed in this FoR	
FTEs	205.0	Rating	Distribution
Research outputs	724.3	5	0
Research income	$1,993,506	4	0
UoEs assessed	0	3	0
Esteem count	3.6	2	0
Patents	-	1	0
Research commercialisation income	$0	**Total**	**0**

Research outputs by type

Note: There is no FoR rating distribution for 1499





15 Commerce, Management, Tourism and Services

Commerce, Management, Tourism and Services is comprised of the following four-digit codes:

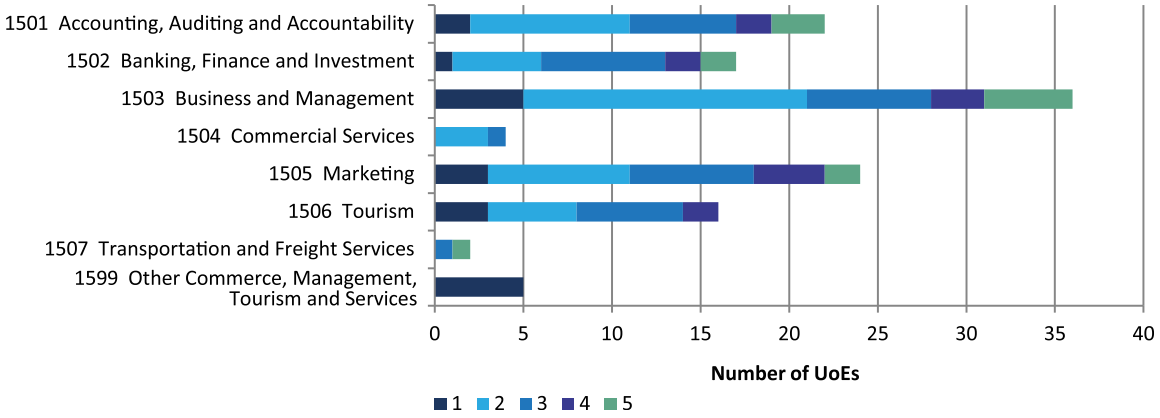
15	**Commerce, Management, Tourism and Services**	**164**
1501	Accounting, Auditing and Accountability	167
1502	Banking, Finance and Investment	167
1503	Business and Management	167
1504	Commercial Services	168
1505	Marketing	168
1506	Tourism	168
1507	Transportation and Freight Services	169
1599	Other Commerce, Management, Tourism and Services	169

15 Commerce, Management, Tourism and Services		61 out of 126 assessed UoEs were rated at or above world standard	
FTEs	3,239.7	Rating	Distribution
Research outputs	24,640.6	5	13
Research income	$139,010,593	4	13
UoEs assessed	126	3	35
Esteem count	40.9	2	46
Patents	-	1	19
Research commercialisation income	$1,344,615	**Total**	**126**

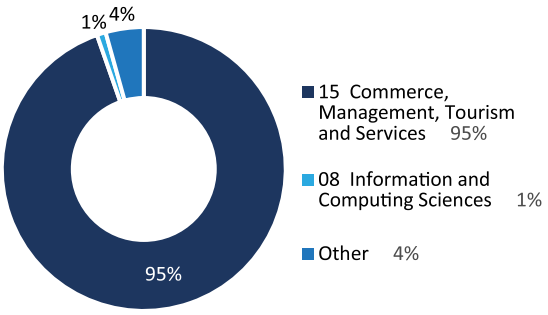
FoR overview

Commerce, Management, Tourism and Services (15) contributed approximately 6% of the research outputs to ERA 2012. Journal articles were the most common research output type, though a relatively high proportion of conference papers were submitted. Only a small proportion (5%) of research outputs were co-apportioned to other two-digit FoRs, with 1% being co-apportioned to Information and Computing Sciences (08). Business and Management (1503) was the largest discipline sub-grouping in terms of assessed UoEs.

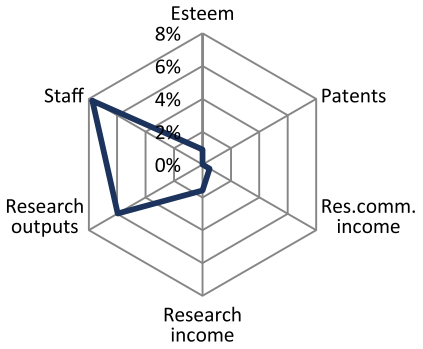
Number of UoEs per rating scale score



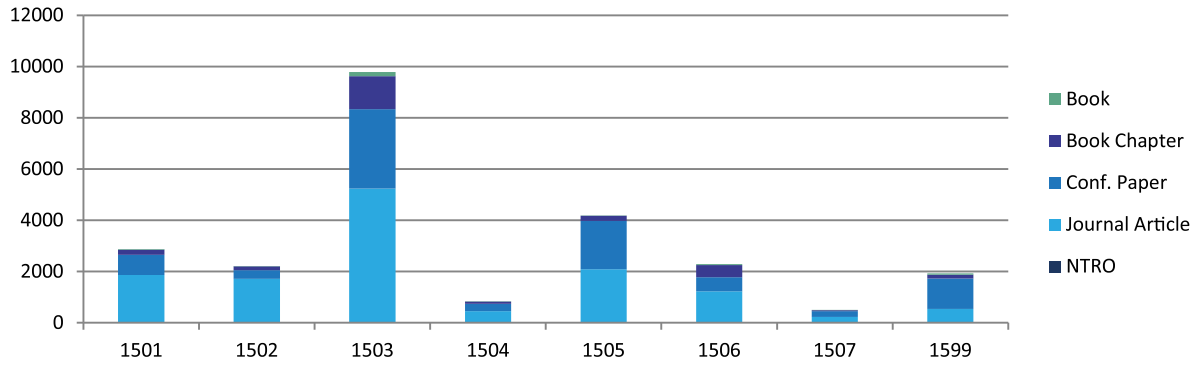
Disciplinary profile



Contribution to national landscape (%)

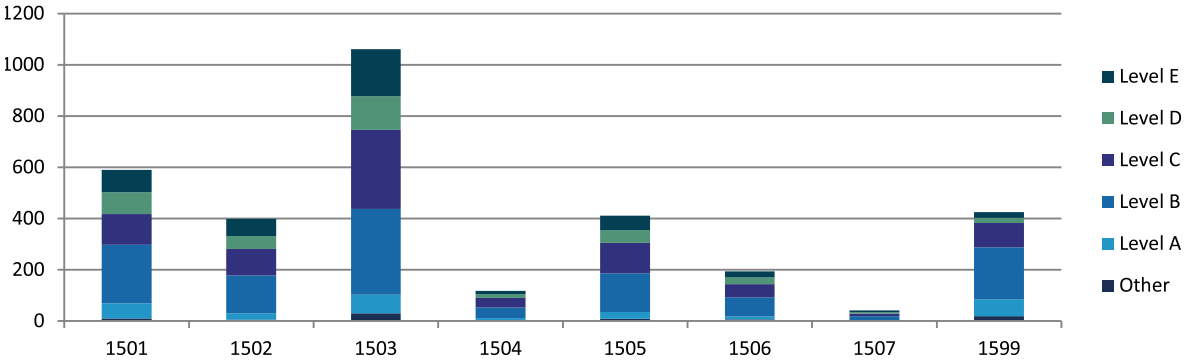


Research outputs submitted by type



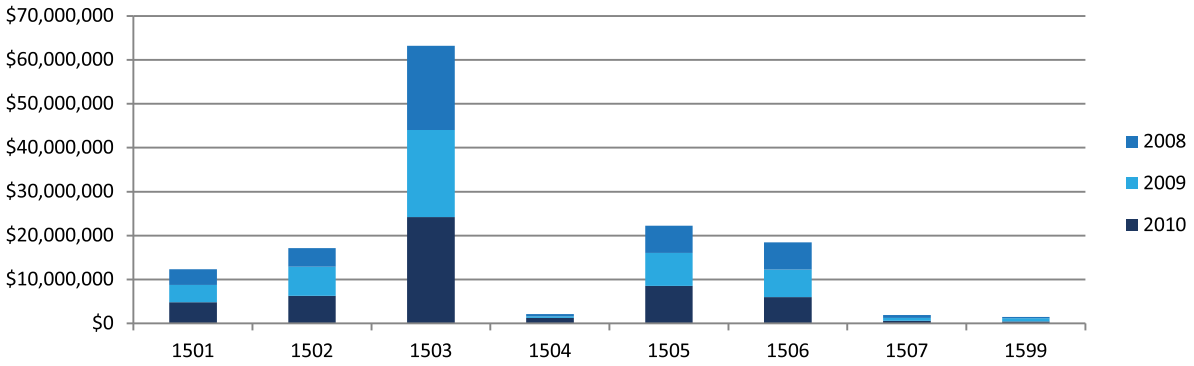
FoR code		Book	Book Chapter	Conference Paper	Journal Article	NTRO	Total
1501	Accounting, Auditing and Accountability	31.8	193.6	781.9	1,870.3	2.5	2,880.1
1502	Banking, Finance and Investment	22.8	142.8	341.1	1,712.3	2.0	2,221.0
1503	Business and Management	168.1	1,283.2	3,095.2	5,231.5	11.3	9,789.3
1504	Commercial Services	10.4	88.3	282.6	458.1	2.0	841.4
1505	Marketing	17.6	201.0	1,881.3	2,093.3	2.0	4,195.2
1506	Tourism	37.0	472.0	543.8	1,200.1	34.8	2,287.7
1507	Transportation and Freight Services	8.7	32.2	233.9	226.5	0.0	501.3
1599	Other Commerce, Management, Tourism and Services	40.6	151.7	1,186.1	546.0	0.2	1,924.6
Total		337.0	2,564.8	8,345.9	13,338.1	54.8	24,640.6

Staffing profile by academic level



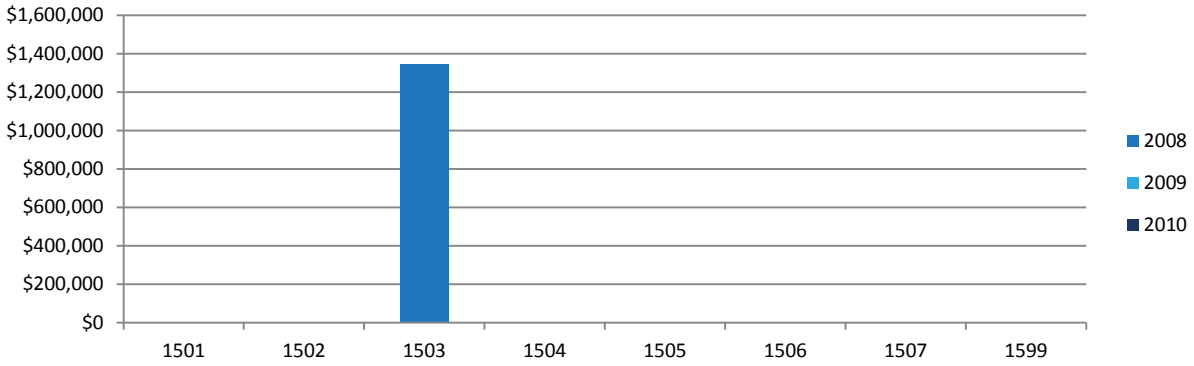
FoR code		Level E	Level D	Level C	Level B	Level A	Other	Total
1501	Accounting, Auditing and Accountability	87.4	85.1	120.6	228.4	58.4	10.7	590.6
1502	Banking, Finance and Investment	66.7	49.7	104.5	146.7	24.9	6.1	398.6
1503	Business and Management	183.3	131.3	308.6	335.0	72.4	30.4	1,061.0
1504	Commercial Services	12.6	15.9	37.5	40.7	8.8	3.1	118.6
1505	Marketing	55.5	49.8	118.5	151.4	26.8	9.0	411.0
1506	Tourism	24.0	25.6	52.0	74.2	11.9	6.3	194.0
1507	Transportation and Freight Services	7.3	5.2	9.3	15.6	1.0	2.8	41.2
1599	Other Commerce, Management, Tourism and Services	22.3	20.1	95.0	202.4	65.6	19.3	424.7
Total		459.1	382.7	846.0	1,194.4	269.8	87.7	3,239.7

Research income by year—all categories ($)



FoR code		2008	2009	2010	Total
1501	Accounting, Auditing and Accountability	$3,565,220	$3,943,863	$4,840,243	$12,349,326
1502	Banking, Finance and Investment	$4,249,106	$6,636,142	$6,288,904	$17,174,152
1503	Business and Management	$19,159,814	$19,838,984	$24,195,914	$63,194,712
1504	Commercial Services	$462,191	$395,655	$1,267,601	$2,125,447
1505	Marketing	$6,237,780	$7,484,011	$8,563,860	$22,285,651
1506	Tourism	$6,169,516	$6,295,781	$5,976,314	$18,441,611
1507	Transportation and Freight Services	$712,336	$636,400	$605,257	$1,953,993
1599	Other Commerce, Management, Tourism and Services	$251,905	$777,601	$456,195	$1,485,701
Total		$40,807,868	$46,008,437	$52,194,288	$139,010,593

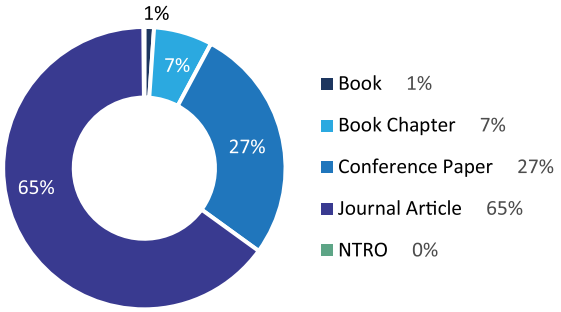
Research commercialisation income by year ($)



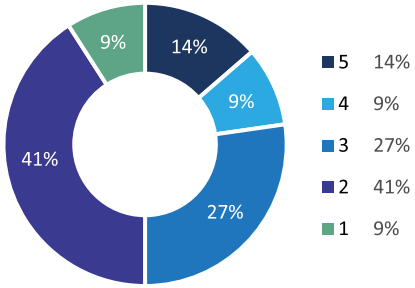
FoR code		2008	2009	2010	Total
1501	Accounting, Auditing and Accountability	$0	$0	$0	$0
1502	Banking, Finance and Investment	$0	$0	$0	$0
1503	Business and Management	$1,344,067	$0	$548	$1,344,615
1504	Commercial Services	$0	$0	$0	$0
1505	Marketing	$0	$0	$0	$0
1506	Tourism	$0	$0	$0	$0
1507	Transportation and Freight Services	$0	$0	$0	$0
1599	Other Commerce, Management, Tourism and Services	$0	$0	$0	$0
Total		$1,344,067	$0	$548	$1,344,615

1501 Accounting, Auditing and Accountability		11 out of 22 assessed UoEs were rated at or above world standard	
FTEs	590.6	Rating	Distribution
Research outputs	2,880.1	5	3
Research income	$12,349,326	4	2
UoEs assessed	22	3	6
Esteem count	6.8	2	9
Patents	-	1	2
Research commercialisation income	$0	**Total**	**22**

Research outputs by type

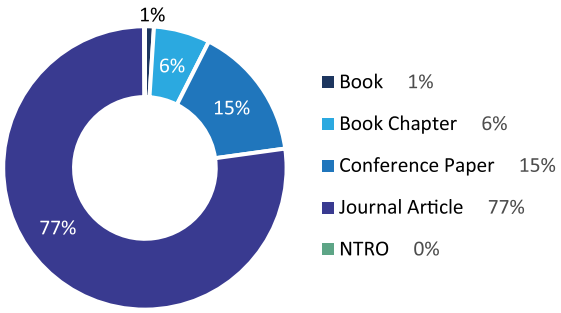


FoR rating distribution

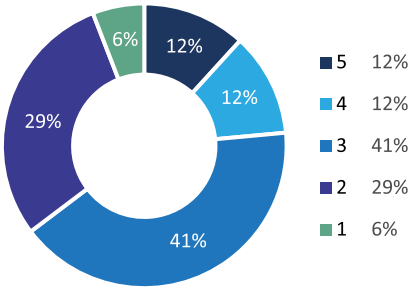


1502 Banking, Finance and Investment		11 out of 17 assessed UoEs were rated at or above world standard	
FTEs	398.6	Rating	Distribution
Research outputs	2,221.0	5	2
Research income	$17,174,152	4	2
UoEs assessed	17	3	7
Esteem count	4.2	2	5
Patents	-	1	1
Research commercialisation income	$0	**Total**	**17**

Research outputs by type

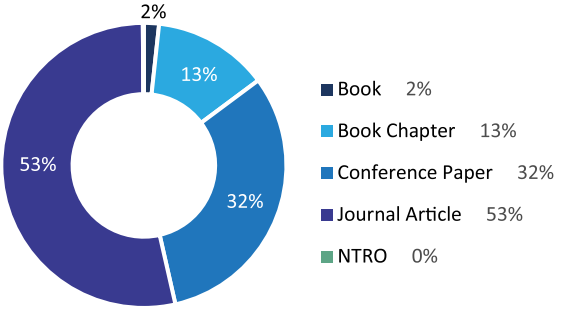


FoR rating distribution

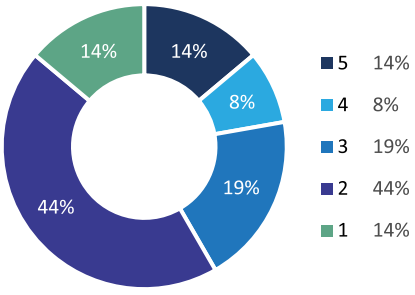


1503 Business and Management		15 out of 36 assessed UoEs were rated at or above world standard	
FTEs	1,061.0	Rating	Distribution
Research outputs	9,789.3	5	5
Research income	$63,194,712	4	3
UoEs assessed	36	3	7
Esteem count	25.6	2	16
Patents	-	1	5
Research commercialisation income	$1,344,615	**Total**	**36**

Research outputs by type

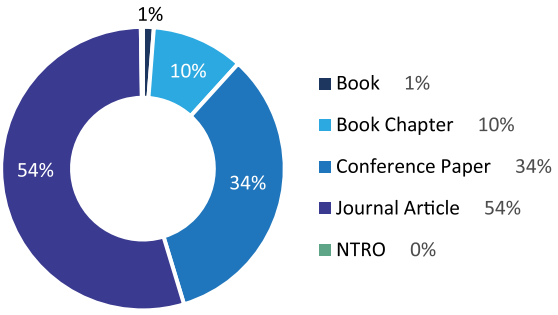


FoR rating distribution

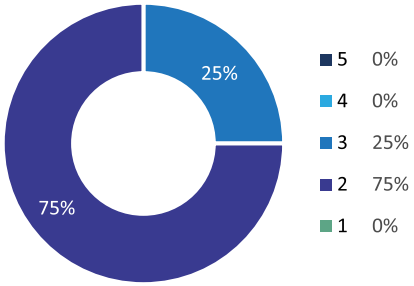


1504 Commercial Services			1 out of 4 assessed UoEs were rated at or above world standard	
FTEs	118.6		Rating	Distribution
Research outputs	841.4		5	0
Research income	$2,125,447		4	0
UoEs assessed	4		3	1
Esteem count	0.0		2	3
Patents	-		1	0
Research commercialisation income	$0		**Total**	**4**

Research outputs by type

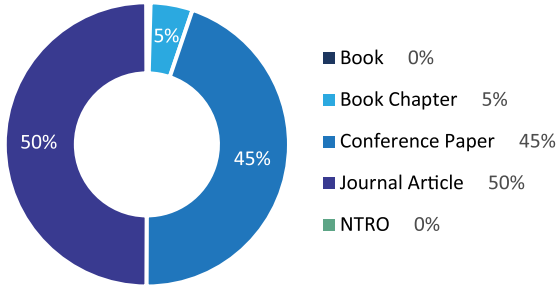


FoR rating distribution

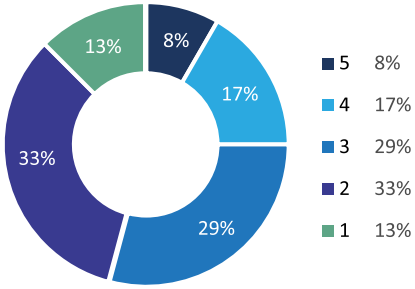


1505 Marketing			13 out of 24 assessed UoEs were rated at or above world standard	
FTEs	411.0		Rating	Distribution
Research outputs	4,195.2		5	2
Research income	$22,285,651		4	4
UoEs assessed	24		3	7
Esteem count	1.4		2	8
Patents	-		1	3
Research commercialisation income	$0		**Total**	**24**

Research outputs by type

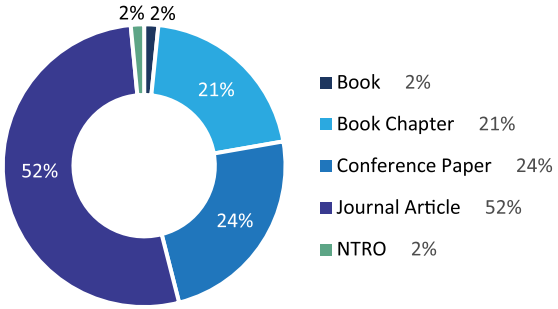


FoR rating distribution

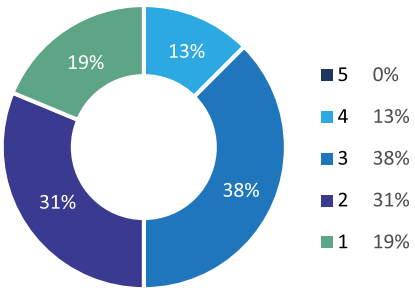


1506 Tourism			8 out of 16 assessed UoEs were rated at or above world standard	
FTEs	194.0		Rating	Distribution
Research outputs	2,287.7		5	0
Research income	$18,441,611		4	2
UoEs assessed	16		3	6
Esteem count	1.5		2	5
Patents	-		1	3
Research commercialisation income	$0		**Total**	**16**

Research outputs by type

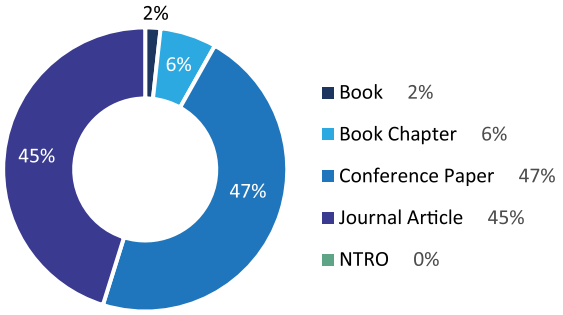


FoR rating distribution

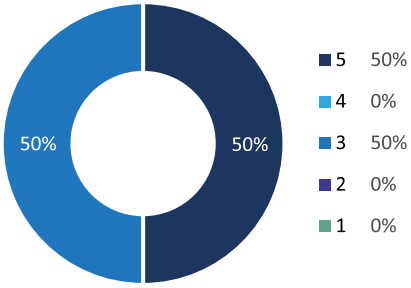


1507 Transportation and Freight Services		2 out of 2 assessed UoEs were rated at or above world standard	
FTEs	41.2	Rating	Distribution
Research outputs	501.3	5	1
Research income	$1,953,993	4	0
UoEs assessed	2	3	1
Esteem count	1.4	2	0
Patents	-	1	0
Research commercialisation income	$0	**Total**	**2**

Research outputs by type

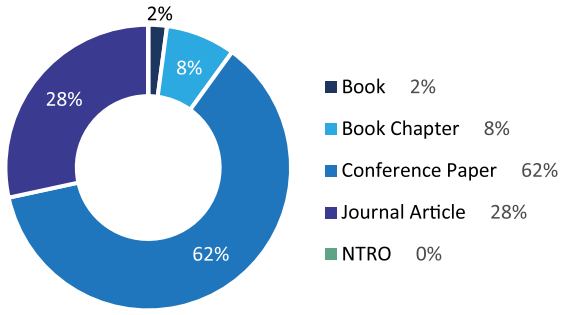


FoR rating distribution

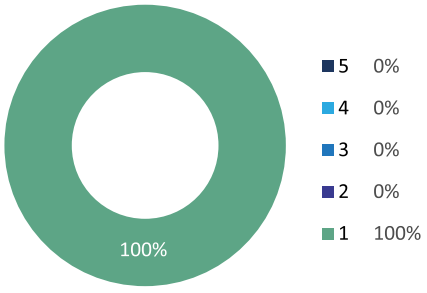


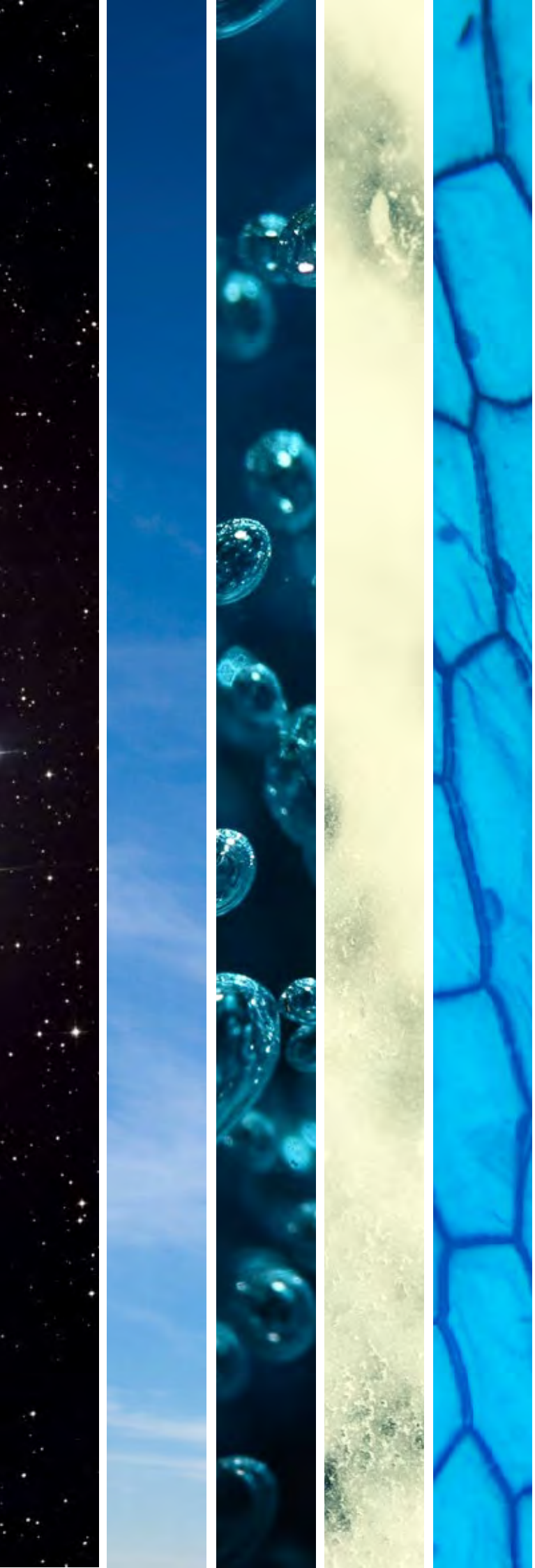
1599 Other Commerce, Management, Tourism and Services		0 out of 5 assessed UoEs were rated at or above world standard	
FTEs	424.7	Rating	Distribution
Research outputs	1,924.6	5	0
Research income	$1,485,701	4	0
UoEs assessed	5	3	0
Esteem count	0.0	2	0
Patents	-	1	5
Research commercialisation income	$0	**Total**	**5**

Research outputs by type



FoR rating distribution





16 Studies in Human Society

Studies in Human Society is comprised of the following four-digit codes:

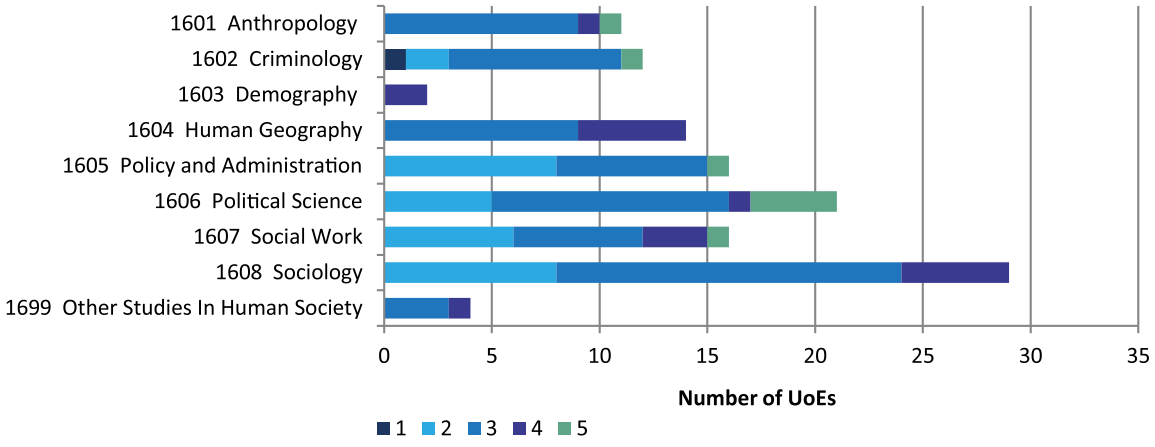
16	**Studies in Human Society**	**171**
1601	Anthropology	174
1602	Criminology	174
1603	Demography	174
1604	Human Geography	175
1605	Policy and Administration	175
1606	Political Science	175
1607	Social Work	176
1608	Sociology	176
1699	Other Studies in Human Society	176

16 Studies in Human Society		95 out of 125 assessed UoEs were rated at or above world standard	
FTEs	2,343.8	Rating	Distribution
Research outputs	20,495.3	5	8
Research income	$307,417,007	4	18
UoEs assessed	125	3	69
Esteem count	286.0	2	29
Patents	-	1	1
Research commercialisation income	$65,468	**Total**	**125**

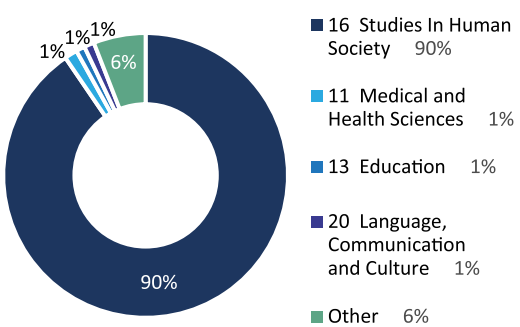
FoR overview

Studies in Human Society (16) contributed approximately 5% of the research outputs to ERA 2012. Around 6% of the esteem measures submitted to ERA 2012 were from Studies in Human Society. Journal articles were the most common research output type, followed by book chapters. Of the 9% of research outputs co-apportioned to other disciplines, 1% was shared with Medical and Health Sciences (11), Education (13) and Language, Communication and Culture (20). Political Science (1606) and Sociology (1608) were the largest discipline sub-groupings, while Criminology (1602) contributed the highest amount of research commercialisation income.

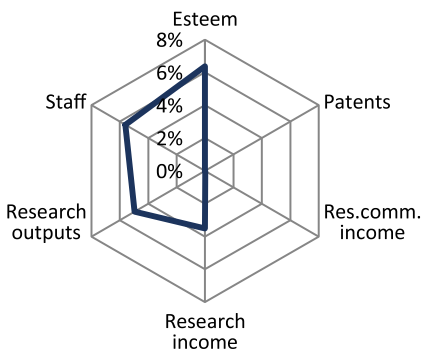
Number of UoEs per rating scale score



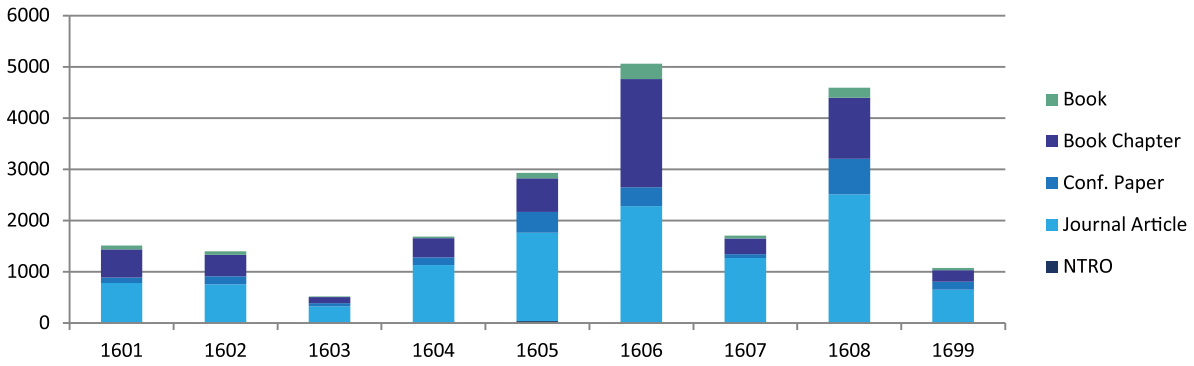
Disciplinary profile



Contribution to national landscape (%)

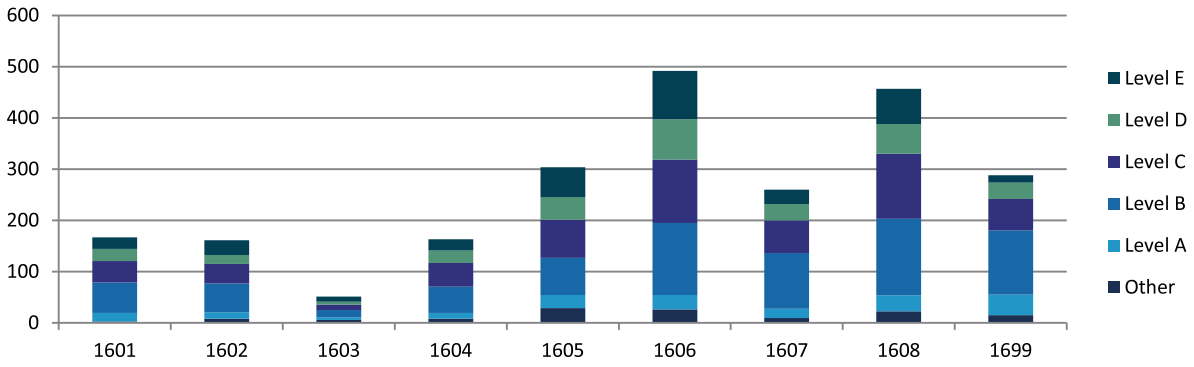


Research outputs submitted by type



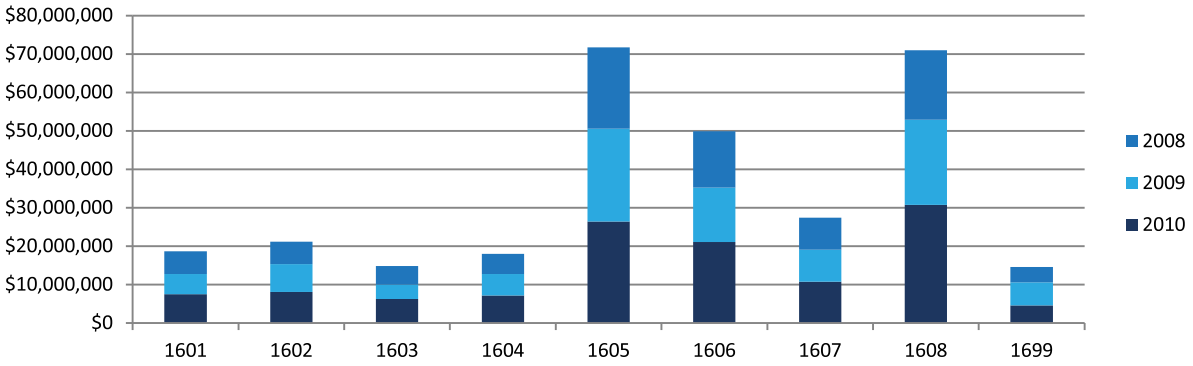
FoR code		Book	Book Chapter	Conference Paper	Journal Article	NTRO	Total
1601	Anthropology	78.4	549.5	101.0	778.3	7.7	1,514.9
1602	Criminology	70.1	417.7	156.2	746.5	10.4	1,400.9
1603	Demography	12.8	116.0	61.8	326.9	2.0	519.5
1604	Human Geography	36.6	369.0	154.5	1,123.2	8.0	1,691.3
1605	Policy and Administration	105.8	657.8	402.4	1,722.1	43.4	2,931.5
1606	Political Science	303.5	2,105.4	369.7	2,276.3	7.0	5,061.9
1607	Social Work	54.7	304.5	79.2	1,263.8	4.7	1,706.9
1608	Sociology	192.0	1,191.9	691.4	2,506.8	8.9	4,591.0
1699	Other Studies in Human Society	43.4	224.8	157.9	647.8	3.5	1,077.4
Total		897.3	5,936.6	2,174.1	11,391.7	95.6	20,495.3

Staffing profile by academic level



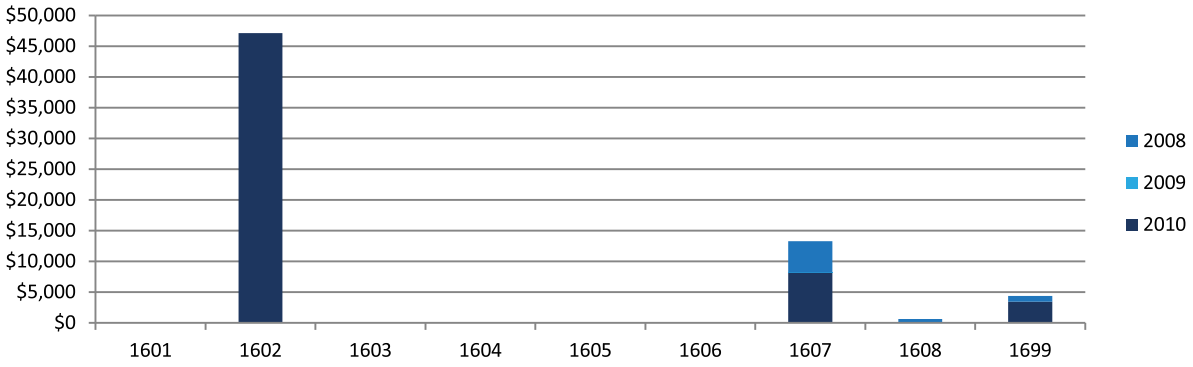
FoR code		Level E	Level D	Level C	Level B	Level A	Other	Total
1601	Anthropology	22.8	24.0	41.8	58.9	17.1	2.7	167.3
1602	Criminology	28.7	17.2	38.4	56.3	12.6	8.2	161.4
1603	Demography	10.3	5.8	10.4	14.3	5.3	5.7	51.8
1604	Human Geography	22.1	24.0	46.1	51.2	11.3	8.6	163.3
1605	Policy and Administration	58.2	44.2	74.1	72.3	25.7	29.2	303.7
1606	Political Science	94.5	78.8	123.6	140.0	28.1	26.8	491.8
1607	Social Work	28.2	31.6	63.9	108.8	17.9	9.7	260.1
1608	Sociology	68.7	57.9	126.9	148.7	31.7	22.6	456.5
1699	Other Studies in Human Society	14.2	31.6	61.5	125.2	40.0	15.4	287.9
Total		347.7	315.1	586.7	775.7	189.7	128.9	2,343.8

Research income by year—all categories ($)



FoR code	2008	2009	2010	Total
1601 Anthropology	$5,886,412	$5,321,538	$7,492,570	$18,700,520
1602 Criminology	$5,886,369	$7,228,887	$8,109,416	$21,224,672
1603 Demography	$4,848,771	$3,717,377	$6,302,037	$14,868,185
1604 Human Geography	$5,228,989	$5,597,327	$7,191,646	$18,017,962
1605 Policy and Administration	$21,138,471	$24,167,865	$26,421,006	$71,727,342
1606 Political Science	$14,618,357	$14,136,438	$21,138,242	$49,893,037
1607 Social Work	$8,281,413	$8,372,595	$10,746,139	$27,400,147
1608 Sociology	$18,088,501	$22,115,171	$30,761,061	$70,964,733
1699 Other Studies in Human Society	$4,043,385	$5,939,247	$4,637,777	$14,620,409
Total	$88,020,668	$96,596,445	$122,799,894	$307,417,007

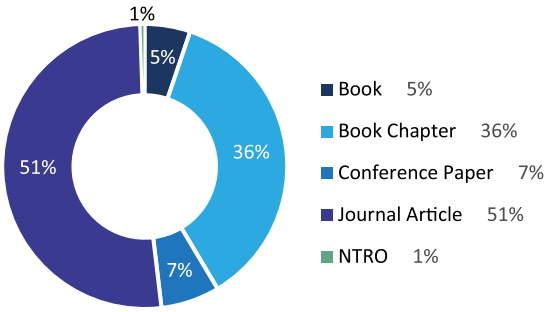
Research commercialisation income by year ($)



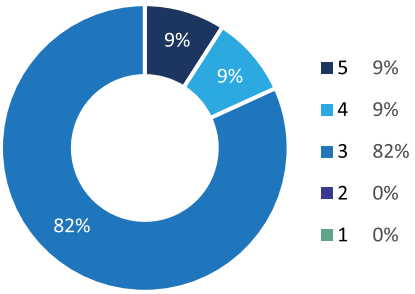
FoR code	2008	2009	2010	Total
1601 Anthropology	$0	$0	$0	$0
1602 Criminology	$0	$0	$47,104	$47,104
1603 Demography	$0	$0	$0	$0
1604 Human Geography	$0	$0	$0	$0
1605 Policy and Administration	$0	$0	$0	$0
1606 Political Science	$0	$0	$0	$0
1607 Social Work	$5,087	$83	$8,122	$13,292
1608 Sociology	$658	$0	$0	$658
1699 Other Studies in Human Society	$975	$0	$3,439	$4,414
Total	$6,720	$83	$58,665	$65,468

1601 Anthropology			11 out of 11 assessed UoEs were rated at or above world standard	
FTEs	167.3		Rating	Distribution
Research outputs	1,514.9		5	1
Research income	$18,700,520		4	1
UoEs assessed	11		3	9
Esteem count	61.2		2	0
Patents	-		1	0
Research commercialisation income	$0		**Total**	**11**

Research outputs by type

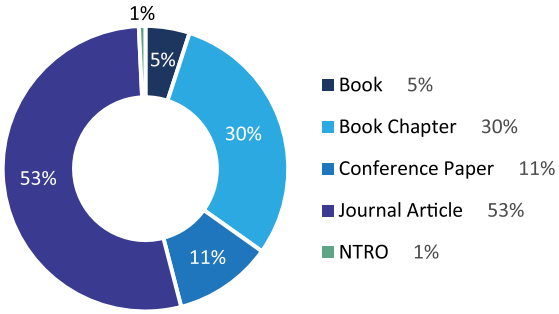


FoR rating distribution

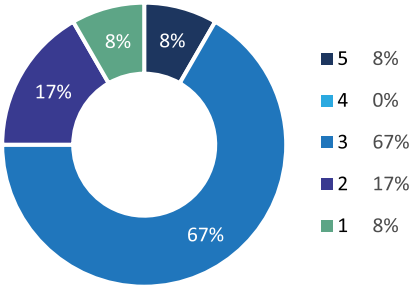


1602 Criminology			9 out of 12 assessed UoEs were rated at or above world standard	
FTEs	161.4		Rating	Distribution
Research outputs	1,400.9		5	1
Research income	$21,224,672		4	0
UoEs assessed	12		3	8
Esteem count	13.2		2	2
Patents	-		1	1
Research commercialisation income	$47,104		**Total**	**12**

Research outputs by type

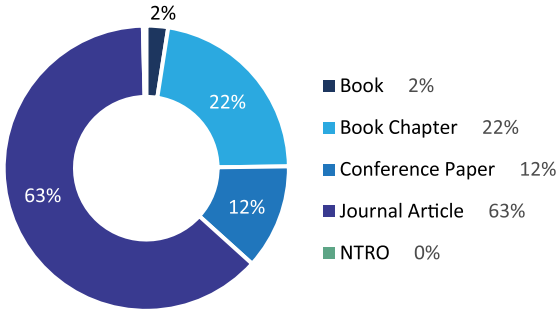


FoR rating distribution

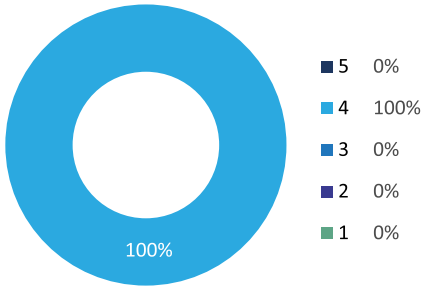


1603 Demography			2 out of 2 assessed UoEs were rated at or above world standard	
FTEs	51.8		Rating	Distribution
Research outputs	519.5		5	0
Research income	$14,868,185		4	2
UoEs assessed	2		3	0
Esteem count	9.0		2	0
Patents	-		1	0
Research commercialisation income	$0		**Total**	**2**

Research outputs by type

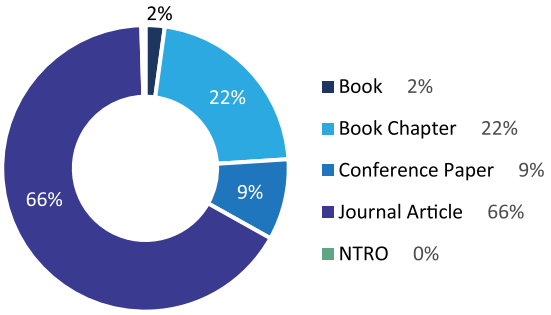


FoR rating distribution

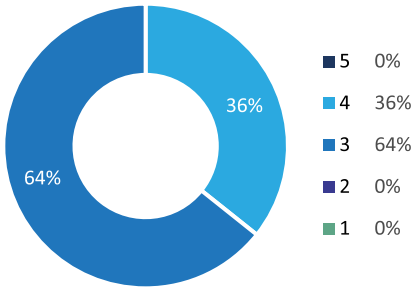


1604 Human Geography		14 out of 14 assessed UoEs were rated at or above world standard	
FTEs	163.3	Rating	Distribution
Research outputs	1,691.3	5	0
Research income	$18,017,962	4	5
UoEs assessed	14	3	9
Esteem count	25.0	2	0
Patents	-	1	0
Research commercialisation income	$0	**Total**	**14**

Research outputs by type

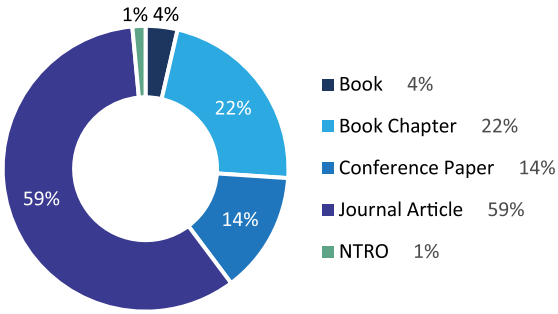


FoR rating distribution

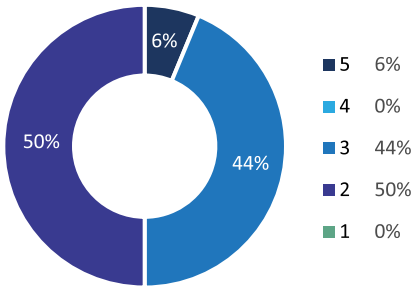


1605 Policy and Administration		8 out of 16 assessed UoEs were rated at or above world standard	
FTEs	303.7	Rating	Distribution
Research outputs	2,931.5	5	1
Research income	$71,727,342	4	0
UoEs assessed	16	3	7
Esteem count	28.4	2	8
Patents	-	1	0
Research commercialisation income	$0	**Total**	**16**

Research outputs by type

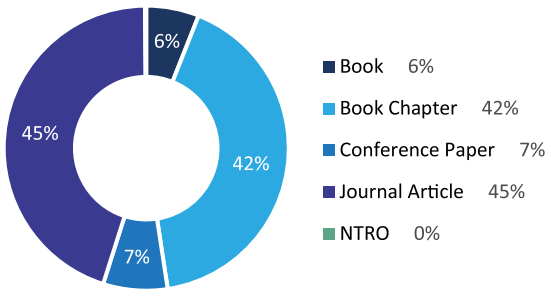


FoR rating distribution

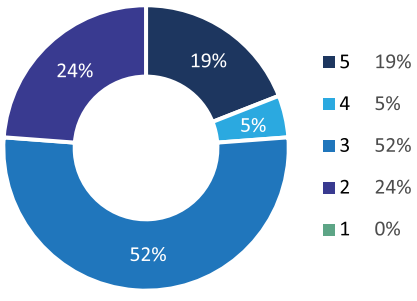


1606 Political Science		16 out of 21 assessed UoEs were rated at or above world standard	
FTEs	491.8	Rating	Distribution
Research outputs	5,061.9	5	4
Research income	$49,893,037	4	1
UoEs assessed	21	3	11
Esteem count	69.9	2	5
Patents	-	1	0
Research commercialisation income	$0	**Total**	**21**

Research outputs by type

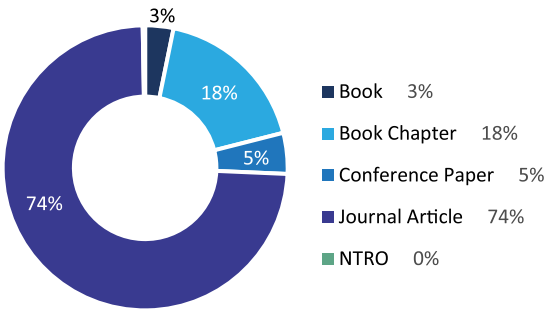


FoR rating distribution

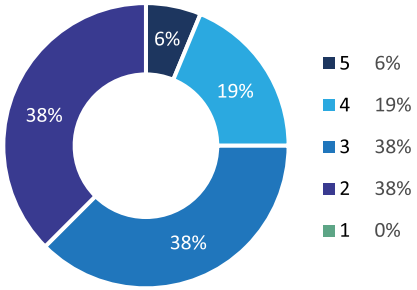


1607 Social Work		10 out of 16 assessed UoEs were rated at or above world standard	
FTEs	260.1	Rating	Distribution
Research outputs	1,706.9	5	1
Research income	$27,400,147	4	3
UoEs assessed	16	3	6
Esteem count	7.2	2	6
Patents	-	1	0
Research commercialisation income	$13,292	**Total**	**16**

Research outputs by type

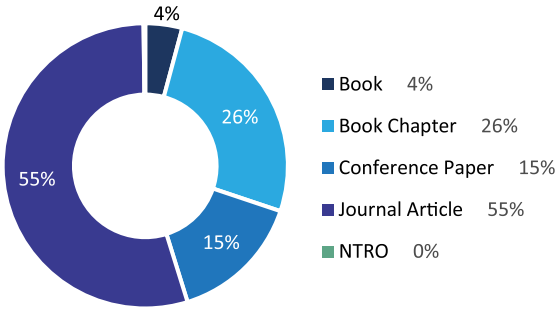


FoR rating distribution

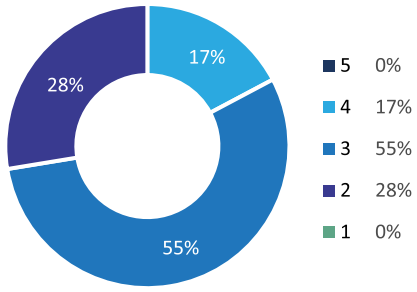


1608 Sociology		21 out of 29 assessed UoEs were rated at or above world standard	
FTEs	456.5	Rating	Distribution
Research outputs	4,591.0	5	0
Research income	$70,964,733	4	5
UoEs assessed	29	3	16
Esteem count	49.2	2	8
Patents	-	1	0
Research commercialisation income	$658	**Total**	**29**

Research outputs by type

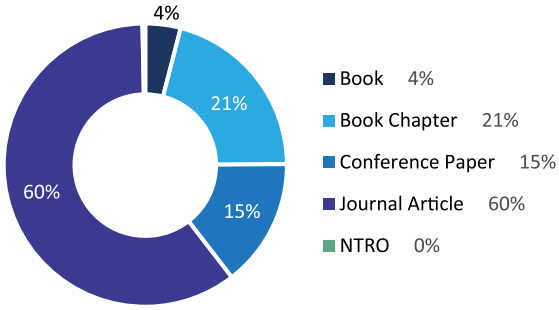


FoR rating distribution

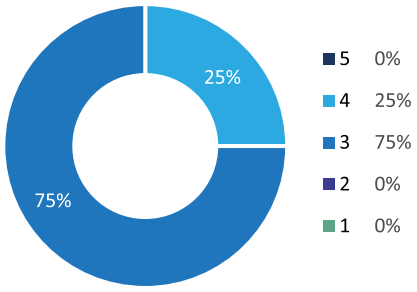


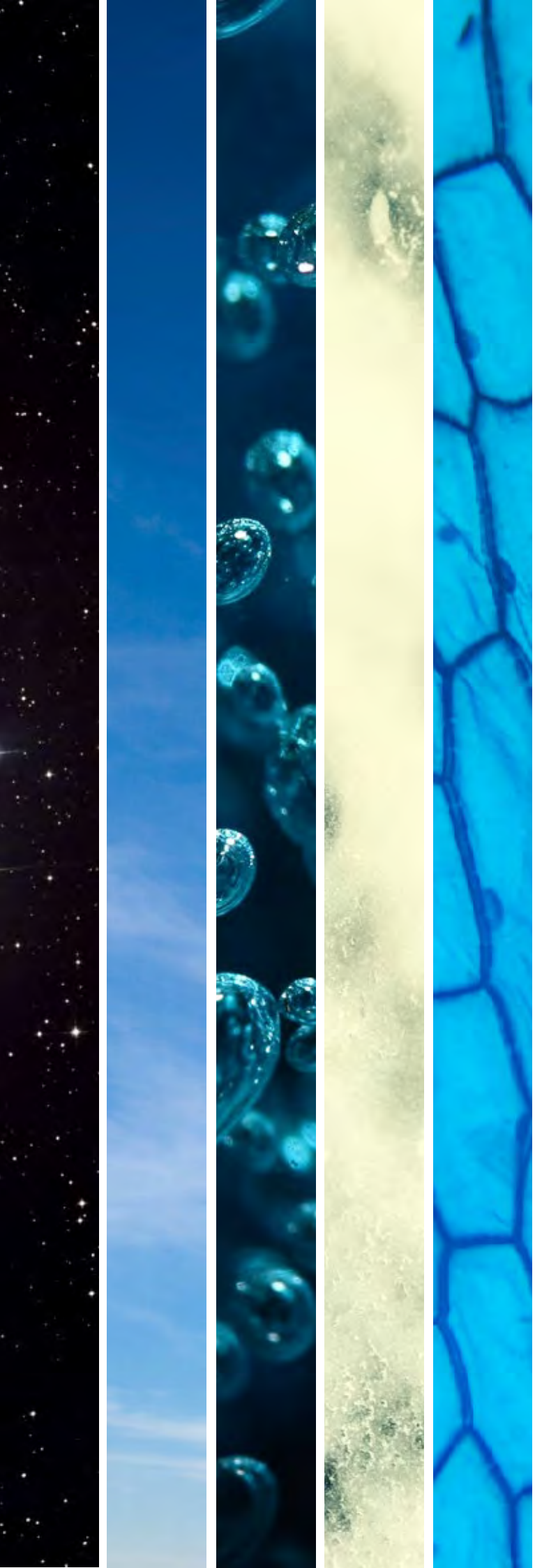
1699 Other Studies in Human Society		4 out of 4 assessed UoEs were rated at or above world standard	
FTEs	287.9	Rating	Distribution
Research outputs	1,077.4	5	0
Research income	$14,620,409	4	1
UoEs assessed	4	3	3
Esteem count	22.9	2	0
Patents	-	1	0
Research commercialisation income	$4,414	**Total**	**4**

Research outputs by type



FoR rating distribution





17 Psychology and Cognitive Sciences

Psychology and Cognitive Sciences is comprised of the following four-digit codes:

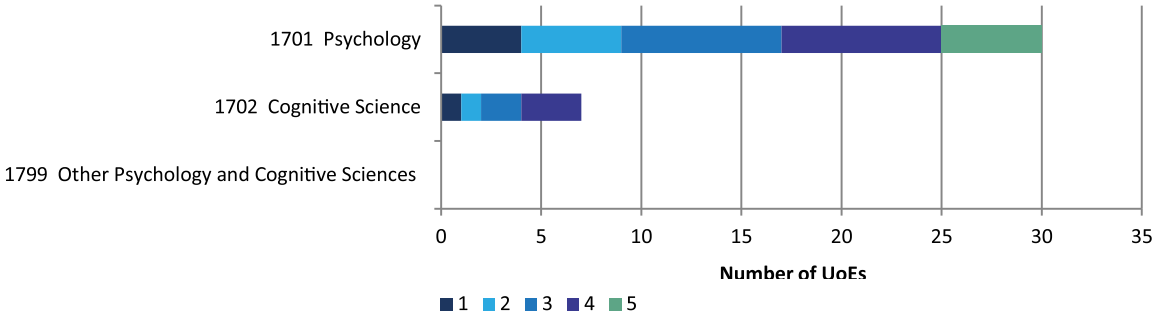
17	**Psychology and Cognitive Sciences**	**178**
1701	Psychology	181
1702	Cognitive Sciences	181
1799	Other Psychology and Cognitive Sciences	181

17 Psychology and Cognitive Sciences		26 out of 37 assessed UoEs were rated at or above world standard	
FTEs	1,428.6	Rating	Distribution
Research outputs	14,951.3	5	5
Research income	$206,928,540	4	11
UoEs assessed	37	3	10
Esteem count	183.4	2	6
Patents	-	1	5
Research commercialisation income	$2,241,599	**Total**	**37**

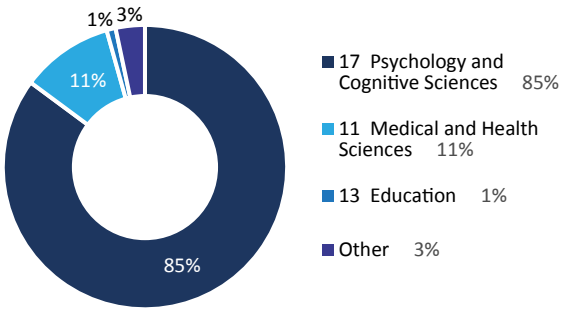
FoR overview

Psychology and Cognitive Sciences (17) contributed approximately 4% of the research outputs to ERA 2012. Journal articles were the main research output. A relatively high proportion of research outputs were co-apportioned to other two-digit FoRs, with 11% shared with Medical and Health Sciences (11) and 1% with Education (13).

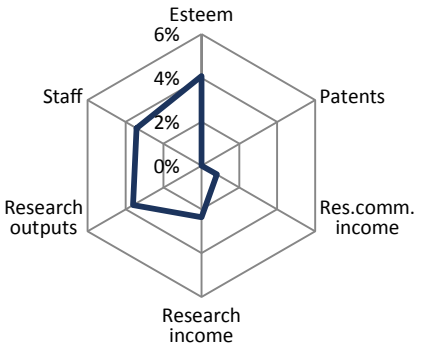
Number of UoEs per rating scale score



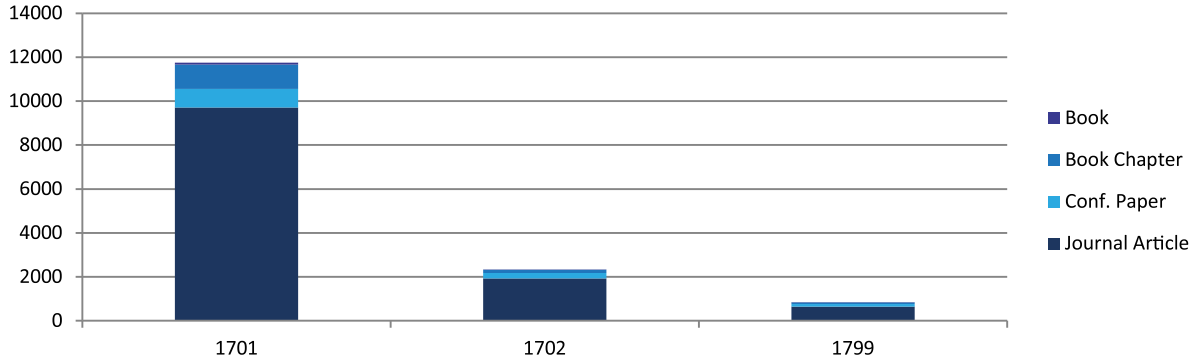
Disciplinary profile



Contribution to national landscape (%)

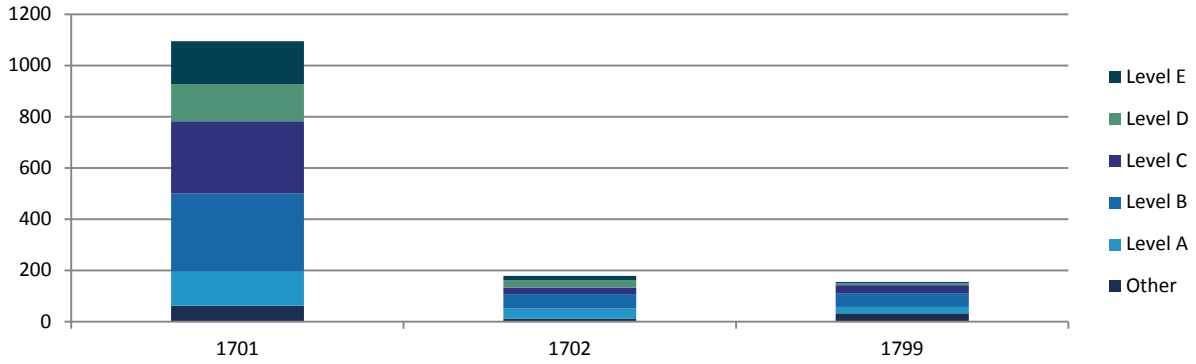


Research outputs submitted by type



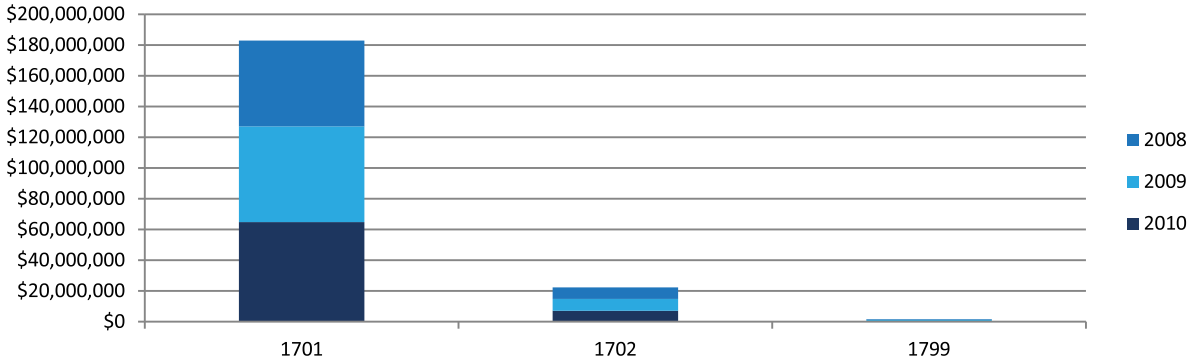
FoR code		Book	Book Chapter	Conference Paper	Journal Article	Total
1701	Psychology	86.1	1,111.7	851.4	9,706.6	11,755.8
1702	Cognitive Sciences	13.5	145.6	243.3	1,934.3	2,336.7
1799	Other Psychology and Cognitive Sciences	15.0	72.0	120.5	651.3	858.8
Total		114.6	1,329.3	1,215.2	12,292.2	14,951.3

Staffing profile by academic level



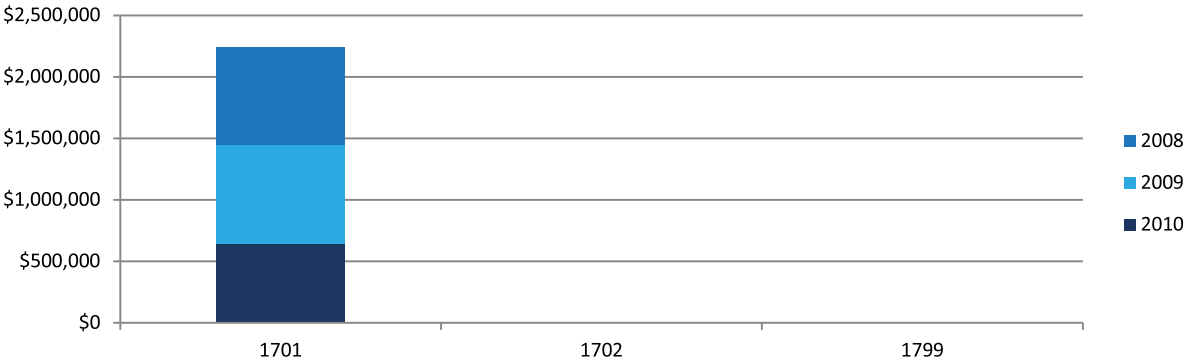
FoR code		Level E	Level D	Level C	Level B	Level A	Other	Total
1701	Psychology	167.2	145.8	280.1	306.9	131.6	63.2	1,094.8
1702	Cognitive Sciences	17.5	28.0	25.5	56.4	39.8	11.5	178.7
1799	Other Psychology and Cognitive Sciences	5.2	7.5	30.6	54.3	24.3	33.2	155.1
Total		189.9	181.3	336.2	417.6	195.7	107.9	1,428.6

Research income by year—all categories ($)



FoR code		2008	2009	2010	Total
1701	Psychology	$55,872,896	$62,235,290	$64,837,012	$182,945,198
1702	Cognitive Sciences	$7,473,885	$7,633,627	$7,196,515	$22,304,027
1799	Other Psychology and Cognitive Sciences	$411,811	$972,862	$294,642	$1,679,315
Total		$63,758,592	$70,841,779	$72,328,169	$206,928,540

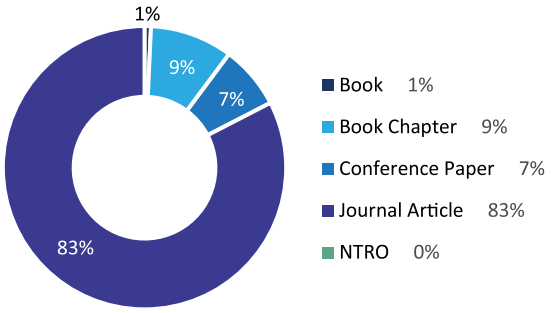
Research commercialisation income by year ($)



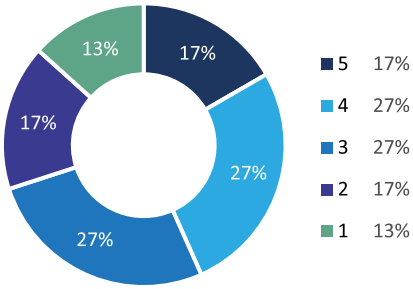
FoR code		2008	2009	2010	Total
1701	Psychology	$791,581	$809,927	$640,091	$2,241,599
1702	Cognitive Sciences	$0	$0	$0	$0
1799	Other Psychology and Cognitive Sciences	$0	$0	$0	$0
Total		$791,581	$809,927	$640,091	$2,241,599

1701 Psychology			21 out of 30 assessed UoEs were rated at or above world standard	
FTEs	1,094.8		Rating	Distribution
Research outputs	11,755.8		5	5
Research income	$182,945,198		4	8
UoEs assessed	30		3	8
Esteem count	146.9		2	5
Patents	-		1	4
Research commercialisation income	$2,241,599		**Total**	**30**

Research outputs by type

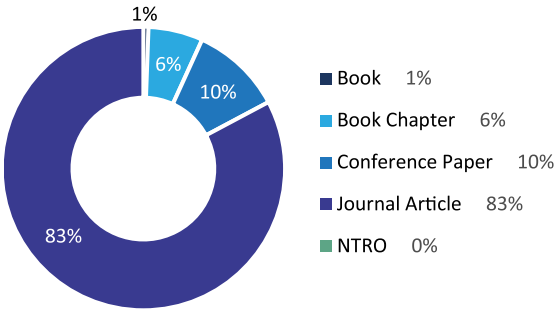


FoR rating distribution

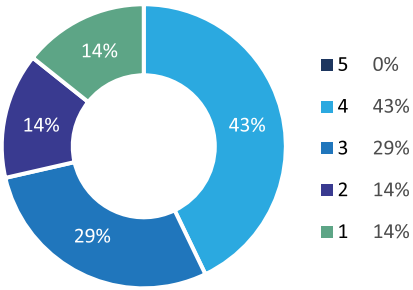


1702 Cognitive Sciences			5 out of 7 assessed UoEs were rated at or above world standard	
FTEs	178.7		Rating	Distribution
Research outputs	2,336.7		5	0
Research income	$22,304,027		4	3
UoEs assessed	7		3	2
Esteem count	34.4		2	1
Patents	-		1	1
Research commercialisation income	$0		**Total**	**7**

Research outputs by type

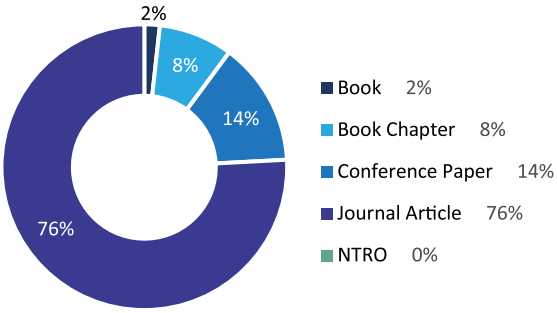


FoR rating distribution

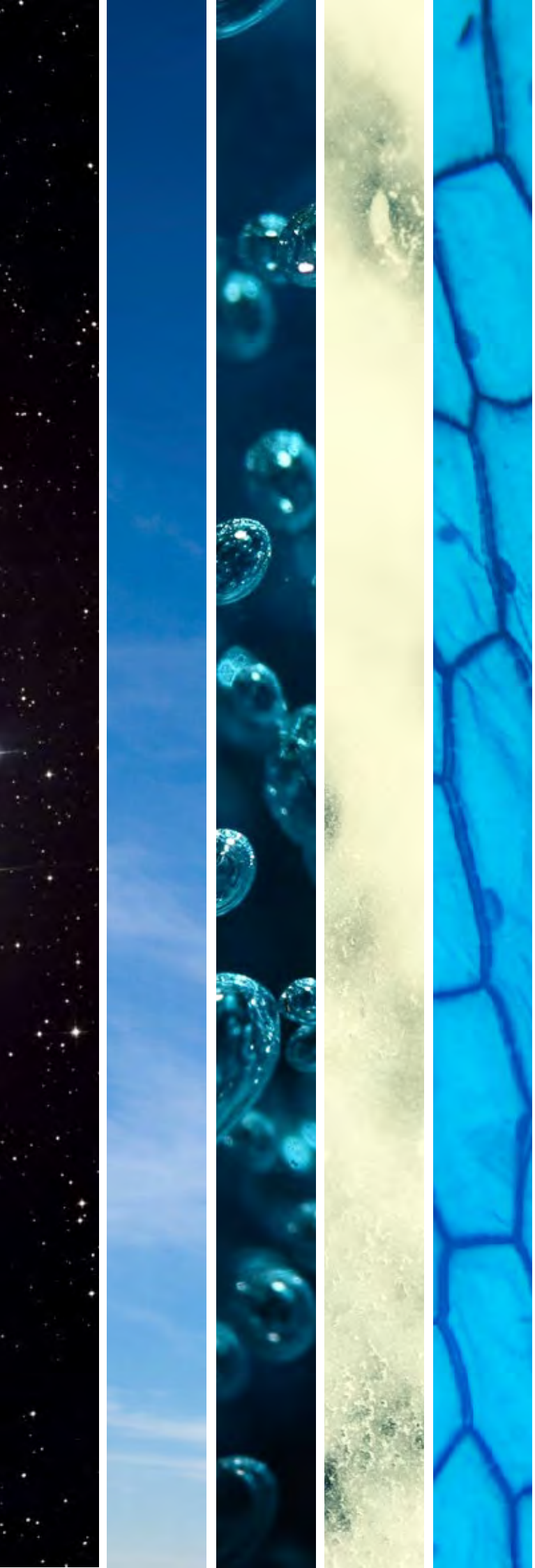


1799 Other Psychology and Cognitive Sciences			0 UoEs were assessed in this FoR	
FTEs	155.1		Rating	Distribution
Research outputs	858.8		5	0
Research income	$1,679,315		4	0
UoEs assessed	0		3	0
Esteem count	2.1		2	0
Patents	-		1	0
Research commercialisation income	$0		**Total**	**0**

Research outputs by type



Note: There is no FoR rating distribution for 1799



18 Law and Legal Studies

Law and Legal Studies is comprised of the following four-digit codes:

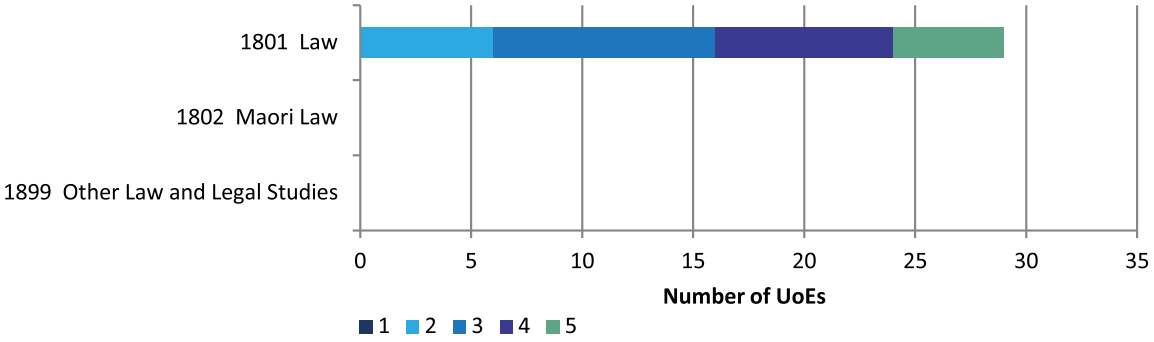
18	**Law and Legal Studies**	**183**
1801	Law	185
1802	Maori Law	185
1899	Other Law and Legal Studies	185

18 Law and Legal Studies		23 out of 29 assessed UoEs were rated at or above world standard	
FTEs	1,324.3	Rating	Distribution
Research outputs	9,177.5	5	5
Research income	$61,740,745	4	8
UoEs assessed	29	3	10
Esteem count	56.3	2	6
Patents	-	1	0
Research commercialisation income	-	**Total**	**29**

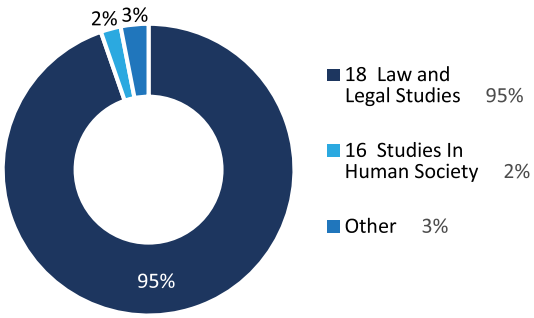
FoR overview

Law and Legal Studies (18) contributed approximately 2% of the research outputs to ERA 2012. Of the 5% of research outputs co-apportioned to other two-digit FoRs, the largest share (2%) was with Studies in Human Society (16). Journal articles were the main research output type.

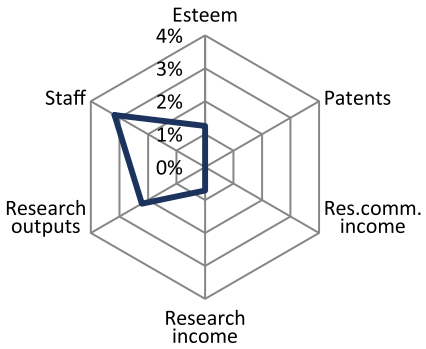
Number of UoEs per rating scale score



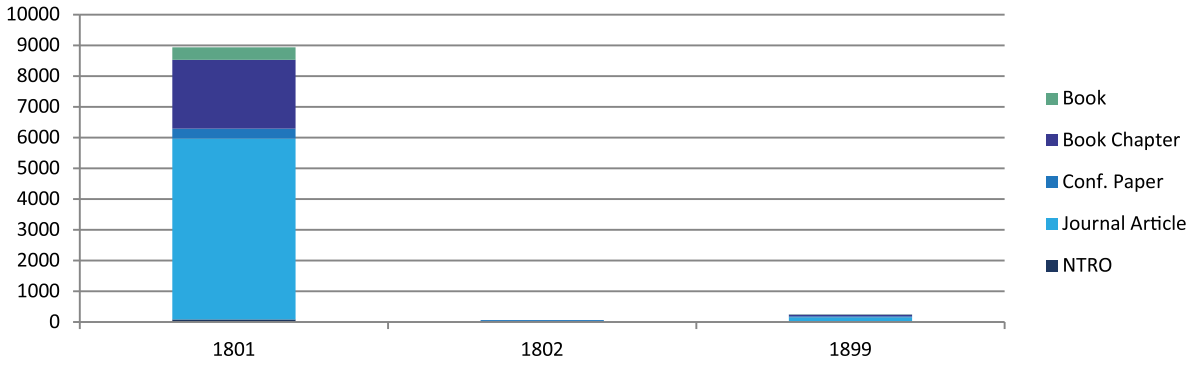
Disciplinary profile



Contribution to national landscape (%)



Research outputs submitted by type



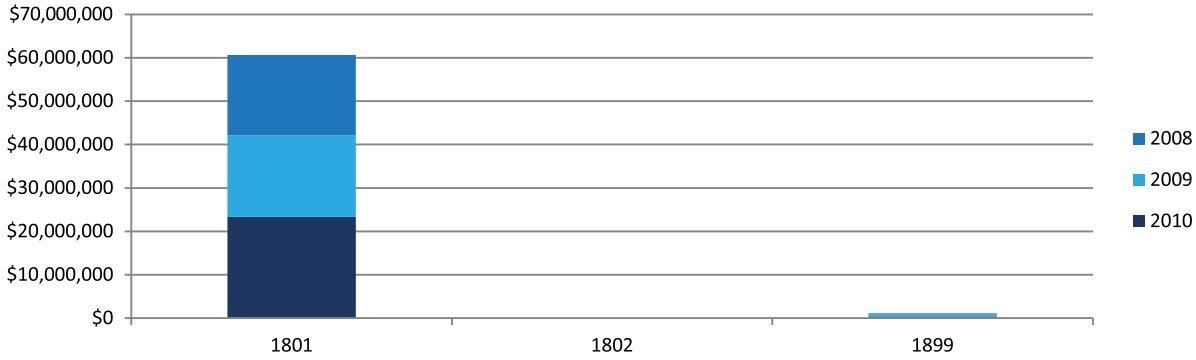
FoR code		Book	Book Chapter	Conference Paper	Journal Article	NTRO	Total
1801	Law	407.0	2,241.6	318.5	5,879.1	88.4	8,934.6
1802	Maori Law	0.0	0.0	1.0	0.0	0.0	1.0
1899	Other Law and Legal Studies	2.7	48.8	42.9	130.5	17.0	241.9
Total		409.7	2,290.4	362.4	6,009.6	105.4	9,177.5

Staffing profile by academic level



FoR code		Level E	Level D	Level C	Level B	Level A	Other	Total
1801	Law	232.3	205.3	340.3	311.9	73.3	27.8	1,190.9
1802	Maori Law	0.0	0.0	0.0	0.6	0.0	0.0	0.6
1899	Other Law and Legal Studies	7.3	6.8	24.0	70.2	19.8	4.7	132.8
Total		239.6	212.1	364.3	382.7	93.1	32.5	1,324.3

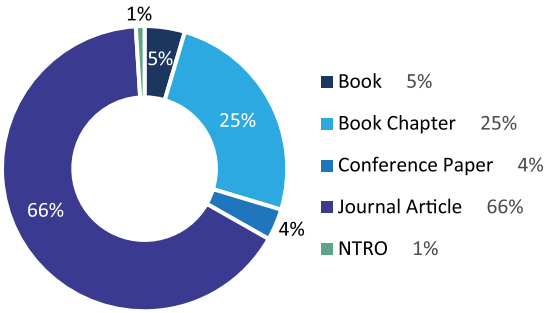
Research income by year—all categories ($)



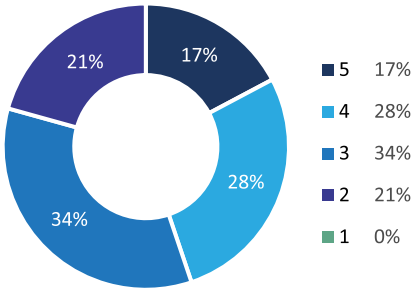
FoR code		2008	2009	2010	Total
1801	Law	$18,537,555	$18,743,455	$23,365,352	$60,646,362
1802	Maori Law	$0	$0	$0	$0
1899	Other Law and Legal Studies	$174,992	$524,407	$394,984	$1,094,383
Total		$18,712,547	$19,267,862	$23,760,336	$61,740,745

1801 Law		23 out of 29 assessed UoEs were rated at or above world standard	
FTEs	1,190.9	Rating	Distribution
Research outputs	8,934.6	5	5
Research income	$60,646,362	4	8
UoEs assessed	29	3	10
Esteem count	55.7	2	6
Patents	-	1	0
Research commercialisation income	-	**Total**	**29**

Research outputs by type

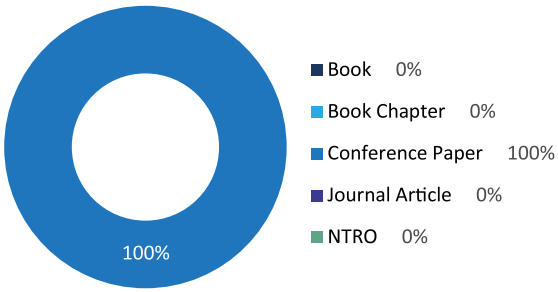


FoR rating distribution



1802 Maori Law		0 UoEs were assessed in this FoR	
FTEs	0.6	Rating	Distribution
Research outputs	1.0	5	0
Research income	$0	4	0
UoEs assessed	0	3	0
Esteem count	0.0	2	0
Patents	-	1	0
Research commercialisation income	-	**Total**	**0**

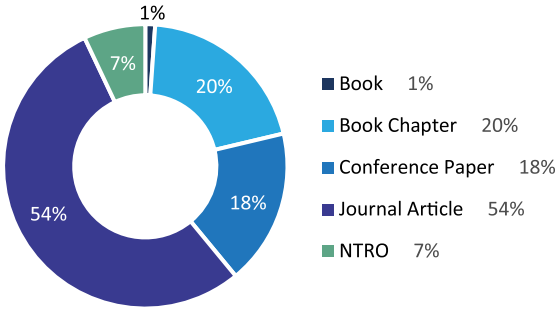
Research outputs by type



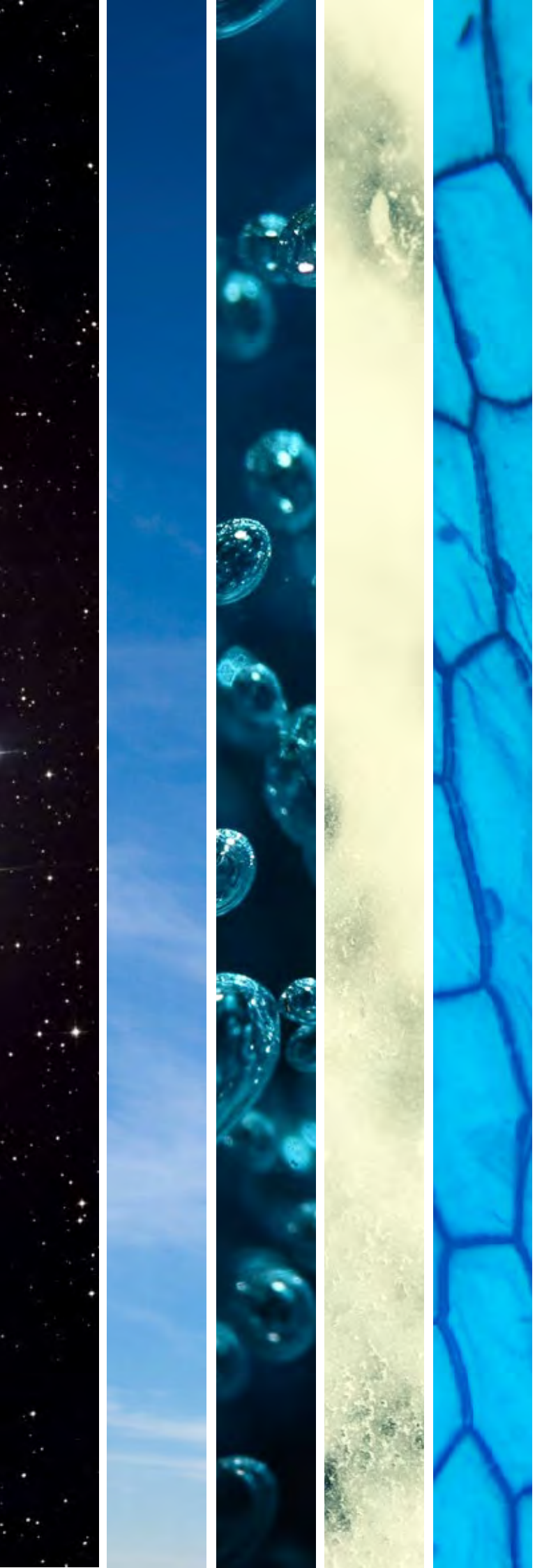
Note: There is no FoR rating distribution for 1802

1899 Other Law and Legal Studies		0 UoEs were assessed in this FoR	
FTEs	132.8	Rating	Distribution
Research outputs	241.9	5	0
Research income	$1,094,383	4	0
UoEs assessed	0	3	0
Esteem count	0.6	2	0
Patents	-	1	0
Research commercialisation income	-	**Total**	**0**

Research outputs by type



Note: There is no FoR rating distribution for 1899



19 Studies in Creative Arts and Writing

Studies in Creative Arts and Writing is comprised of the following four-digit codes:

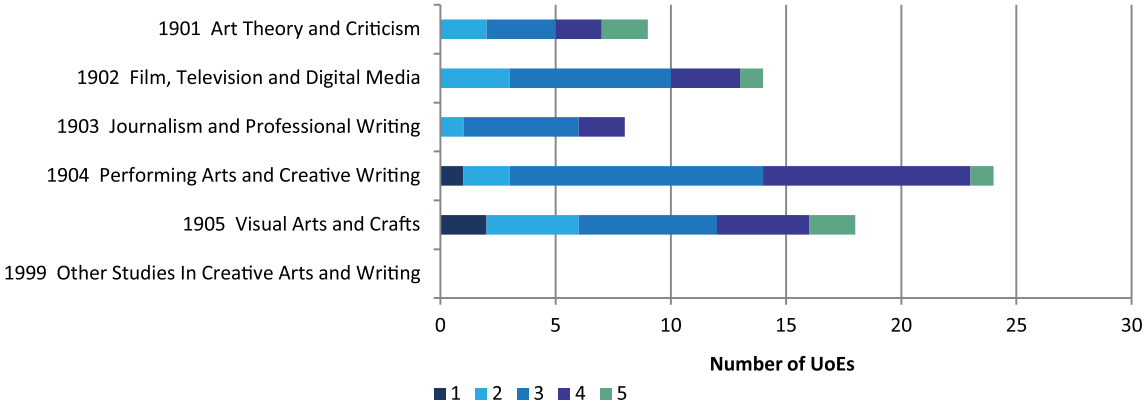
19	**Studies in Creative Arts and Writing**	**187**
1901	Art Theory and Criticism	190
1902	Film, Television and Digital Media	190
1903	Journalism and Professional Writing	190
1904	Performing Arts and Creative Writing	191
1905	Visual Arts and Crafts	191
1999	Other Studies in Creative Arts and Writing	191

19 Studies in Creative Arts and Writing		58 out of 73 assessed UoEs were rated at or above world standard	
FTEs	1,566.1	Rating	Distribution
Research outputs	12,377.0	5	6
Research income	$32,424,756	4	20
UoEs assessed	73	3	32
Esteem count	120.3	2	12
Patents	0.0	1	3
Research commercialisation income	$127,013	**Total**	**73**

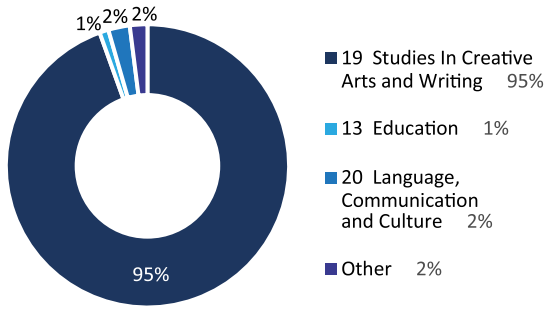
FoR overview

Studies in Creative Arts and Writing (19) contributed approximately 3% of the research outputs to ERA 2012. Non-traditional research outputs were the main research output type. A small proportion (5%) of research outputs were shared with other two-digit FoRs, with 2% shared with Language, Communication and Culture (20) and 1% shared with Education (13). Performing Arts and Creative Writing (1904) was the largest sub-discipline in terms of staffing, research outputs and research income.

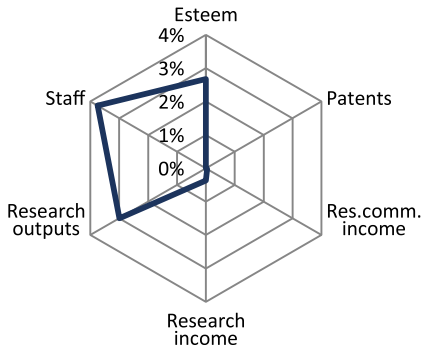
Number of UoEs per rating scale score



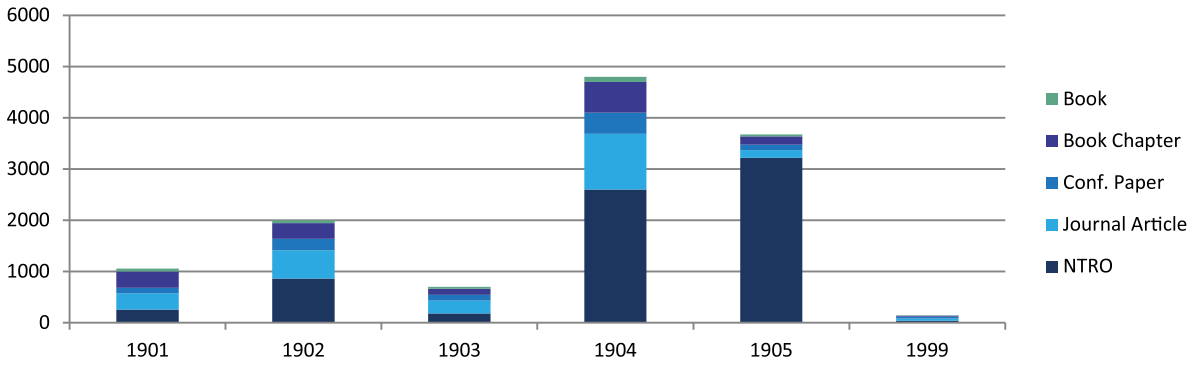
Disciplinary profile



Contribution to national landscape (%)

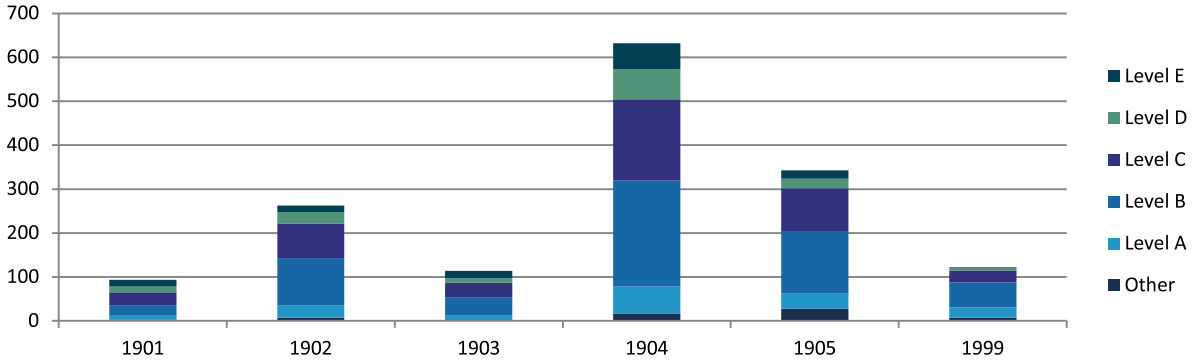


Research outputs submitted by type



FoR code		Book	Book Chapter	Conference Paper	Journal Article	NTRO	Total
1901	Art Theory and Criticism	55.9	318.5	103.5	317.8	262.0	1,057.7
1902	Film, Television and Digital Media	57.0	308.9	221.5	552.4	863.6	2,003.4
1903	Journalism and Professional Writing	34.5	118.6	110.2	252.8	183.7	699.8
1904	Performing Arts and Creative Writing	103.7	596.9	414.7	1,082.3	2,602.0	4,799.6
1905	Visual Arts and Crafts	35.3	165.2	105.4	148.5	3,219.0	3,673.4
1999	Other Studies in Creative Arts and Writing	2.4	19.3	39.3	40.6	41.5	143.1
Total		288.8	1,527.4	994.6	2,394.4	7,171.8	12,377.0

Staffing profile by academic level

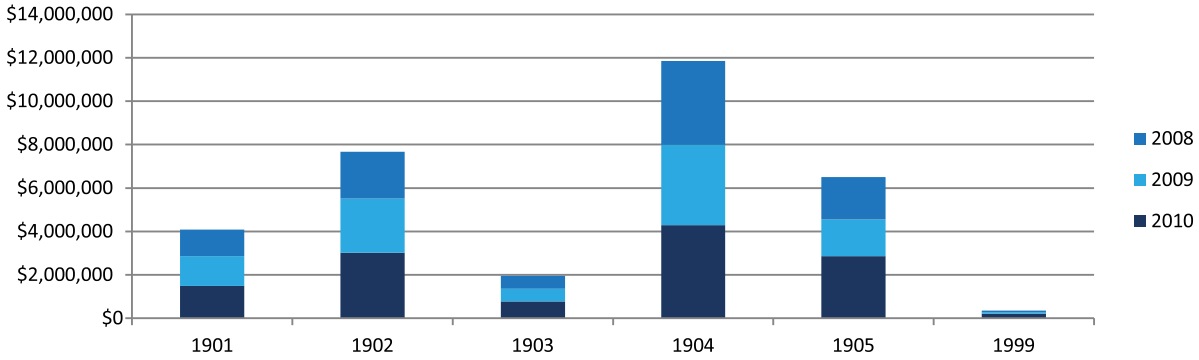


FoR code		Level E	Level D	Level C	Level B	Level A	Other	Total
1901	Art Theory and Criticism	15.0	13.1	29.2	23.8	9.2	3.1	93.4
1902	Film, Television and Digital Media	14.4	26.0	79.3	106.5	28.6	7.7	262.5
1903	Journalism and Professional Writing	16.7	10.6	32.4	41.0	11.3	2.0	114.0
1904	Performing Arts and Creative Writing	58.5	68.4	185.3	241.5	61.1	16.9	631.7
1905	Visual Arts and Crafts	19.0	21.2	99.1	141.0	33.9	28.3	342.5
1999	Other Studies in Creative Arts and Writing	2.0	5.5	26.9	57.0	23.2	7.4	122.0
Total		125.6	144.8	452.2	610.8	167.3	65.4	1,566.1

Patent profile

Note: There were no Patents submitted by UoEs in this FoR.

Research income by year—all categories ($)



FoR code		2008	2009	2010	Total
1901	Art Theory and Criticism	$1,216,328	$1,378,277	$1,487,105	$4,081,710
1902	Film, Television and Digital Media	$2,155,366	$2,500,246	$3,019,908	$7,675,520
1903	Journalism and Professional Writing	$590,793	$586,109	$778,214	$1,955,116
1904	Performing Arts and Creative Writing	$3,858,567	$3,699,698	$4,297,203	$11,855,468
1905	Visual Arts and Crafts	$1,950,545	$1,684,878	$2,863,883	$6,499,306
1999	Other Studies in Creative Arts and Writing	$75,824	$64,745	$217,067	$357,636
Total		$9,847,423	$9,913,953	$12,663,380	$32,424,756

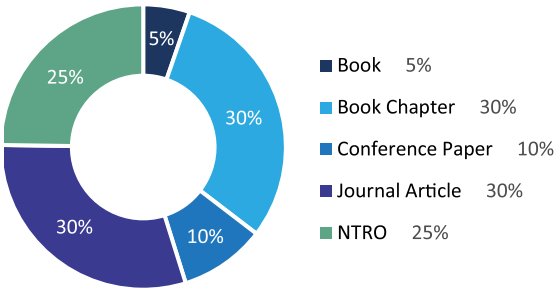
Research commercialisation income by year ($)



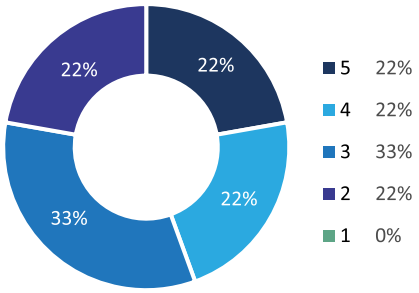
FoR code		2008	2009	2010	Total
1901	Art Theory and Criticism	$0	$0	$0	$0
1902	Film, Television and Digital Media	$100,658	$11,075	$15,280	$127,013
1903	Journalism and Professional Writing	$0	$0	$0	$0
1904	Performing Arts and Creative Writing	$0	$0	$0	$0
1905	Visual Arts and Crafts	$0	$0	$0	$0
1999	Other Studies in Creative Arts and Writing	$0	$0	$0	$0
Total		$100,658	$11,075	$15,280	$127,013

1901 Art Theory and Criticism		7 out of 9 assessed UoEs were rated at or above world standard	
FTEs	93.4	Rating	Distribution
Research outputs	1,057.7	5	2
Research income	$4,081,710	4	2
UoEs assessed	9	3	3
Esteem count	15.4	2	2
Patents	0.0	1	0
Research commercialisation income	$0	**Total**	**9**

Research outputs by type

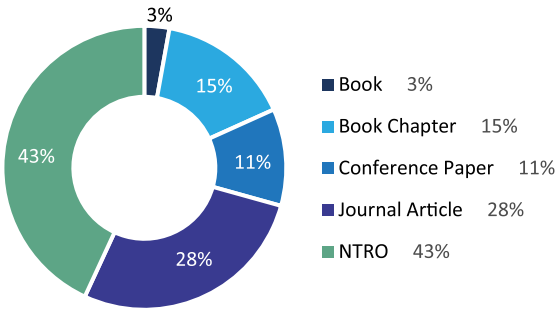


FoR rating distribution

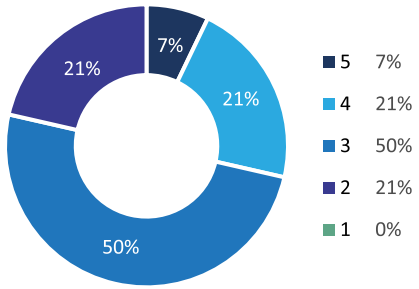


1902 Film, Television and Digital Media		11 out of 14 assessed UoEs were rated at or above world standard	
FTEs	262.5	Rating	Distribution
Research outputs	2,003.4	5	1
Research income	$7,675,520	4	3
UoEs assessed	14	3	7
Esteem count	13.1	2	3
Patents	0.0	1	0
Research commercialisation income	$127,013	**Total**	**14**

Research outputs by type

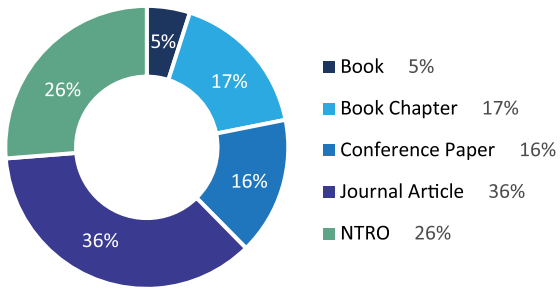


FoR rating distribution

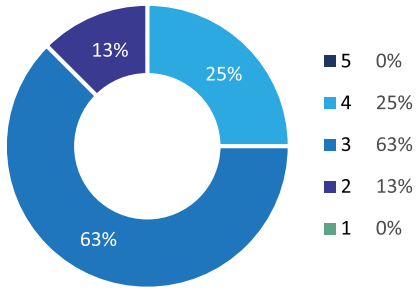


1903 Journalism and Professional Writing		7 out of 8 assessed UoEs were rated at or above world standard	
FTEs	114.0	Rating	Distribution
Research outputs	699.8	5	0
Research income	$1,955,116	4	2
UoEs assessed	8	3	5
Esteem count	0.5	2	1
Patents	0.0	1	0
Research commercialisation income	$0	**Total**	**8**

Research outputs by type

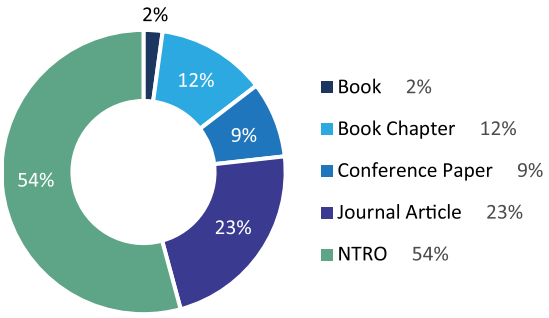


FoR rating distribution

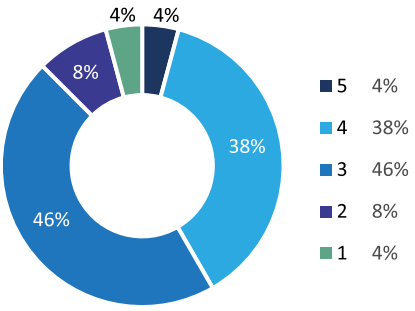


1904 Performing Arts and Creative Writing		21 out of 24 assessed UoEs were rated at or above world standard	
FTEs	631.7	Rating	Distribution
Research outputs	4,799.6	5	1
Research income	$11,855,468	4	9
UoEs assessed	24	3	11
Esteem count	47.5	2	2
Patents	0.0	1	1
Research commercialisation income	$0	**Total**	**24**

Research outputs by type

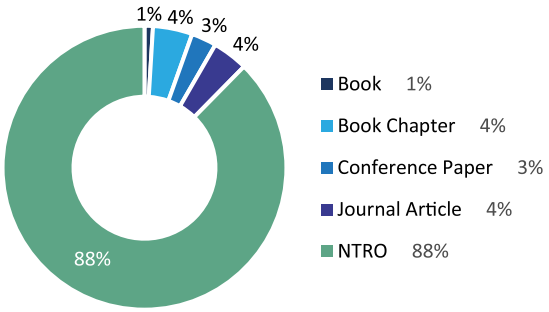


FoR rating distribution

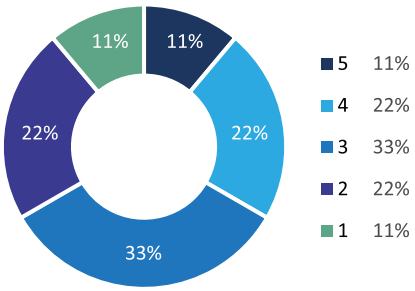


1905 Visual Arts and Crafts		12 out of 18 assessed UoEs were rated at or above world standard	
FTEs	342.5	Rating	Distribution
Research outputs	3,673.4	5	2
Research income	$6,499,306	4	4
UoEs assessed	18	3	6
Esteem count	43.1	2	4
Patents	0.0	1	2
Research commercialisation income	$0	**Total**	**18**

Research outputs by type

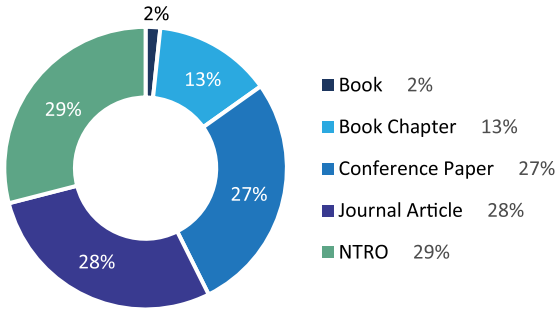


FoR rating distribution

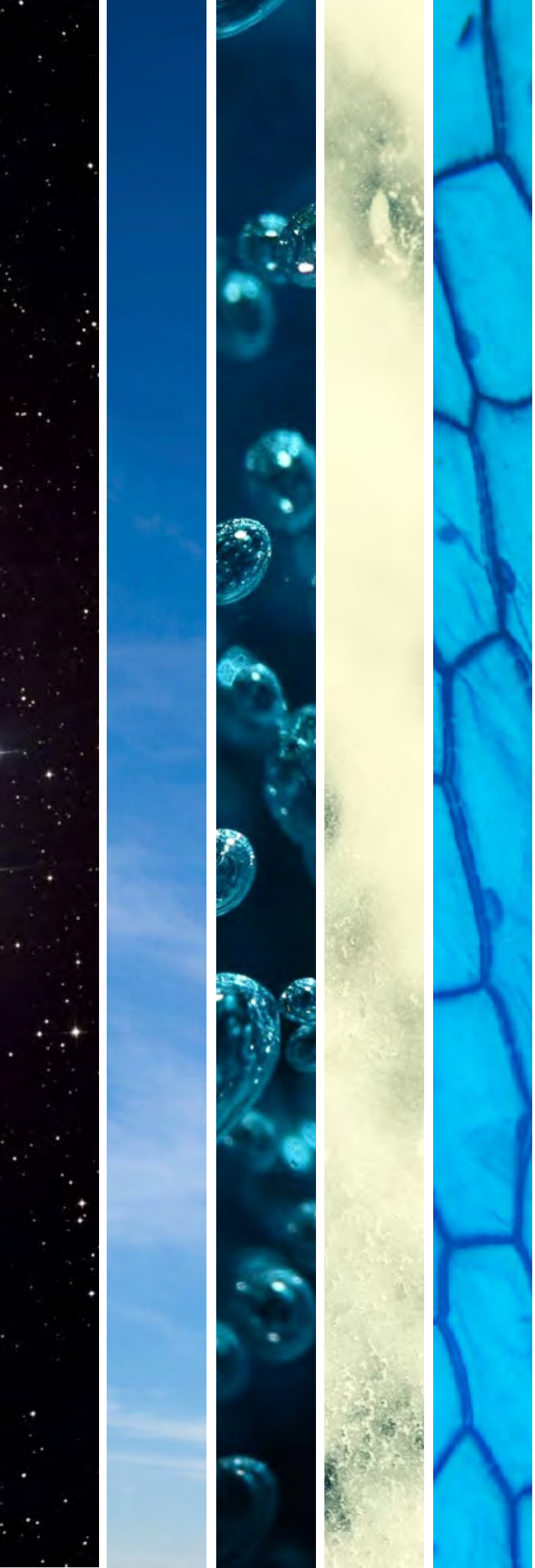


1999 Other Studies in Creative Arts and Writing		0 UoEs were assessed in this FoR	
FTEs	122.0	Rating	Distribution
Research outputs	143.1	5	0
Research income	$357,636	4	0
UoEs assessed	0	3	0
Esteem count	0.7	2	0
Patents	0.0	1	0
Research commercialisation income	$0	**Total**	**0**

Research outputs by type



Note: There is no FoR rating distribution for 1999



20 Language, Communication and Culture

Language, Communication and Culture is comprised of the following four-digit codes:

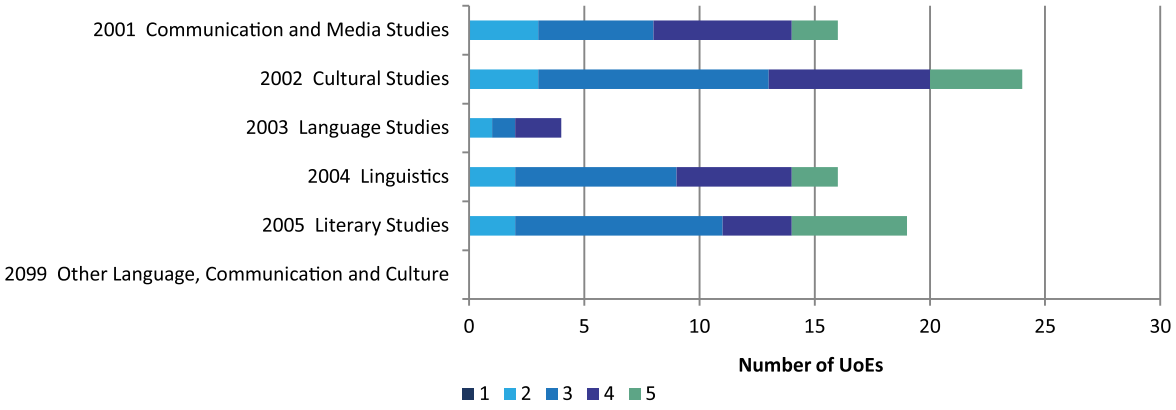
20	**Language, Communication and Culture**	**193**
2001	Communication and Media Studies	196
2002	Cultural Studies	196
2003	Language Studies	196
2004	Linguistics	197
2005	Literary Studies	197
2099	Other Language, Communication and Culture	197

20 Language, Communication and Culture		68 out of 79 assessed UoEs were rated at or above world standard	
FTEs	1,602.3	Rating	Distribution
Research outputs	12,179.6	5	13
Research income	$102,880,603	4	23
UoEs assessed	79	3	32
Esteem count	193.3	2	11
Patents	-	1	0
Research commercialisation income	$34,288	**Total**	**79**

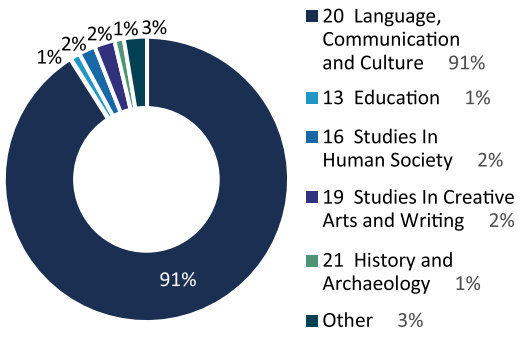
FoR overview

Language, Communication and Culture (20) contributed approximately 3% of the research outputs to ERA 2012. While journal articles were the most common research output type, a significant proportion were book chapters. Of the 9% of Language, Communication and Culture research outputs co-apportioned to other two-digit FoRs, 2% were shared with Studies in Human Society (16) and the same proportion with Studies in Creative Arts and Writing (19). Language, Communications and Culture contributed approximately 4% of the esteem measures submitted to ERA 2012. Cultural Studies (2002) and Literary Studies (2005) were the two largest disciplines in terms of staff and research outputs.

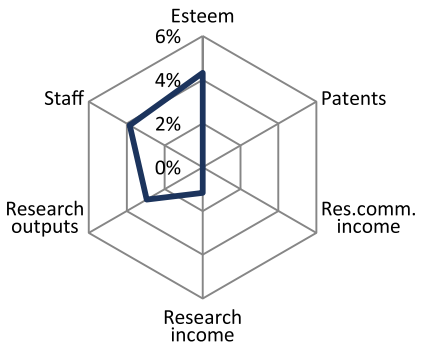
Number of UoEs per rating scale score



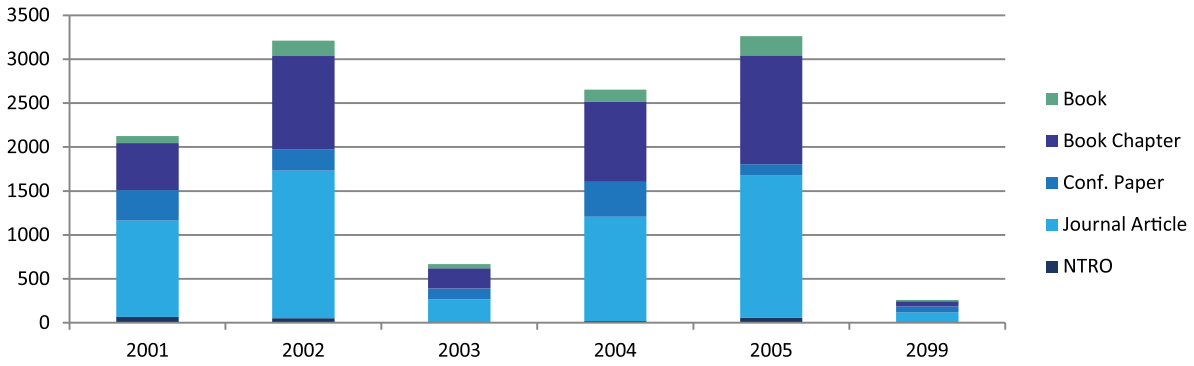
Disciplinary profile



Contribution to national landscape (%)

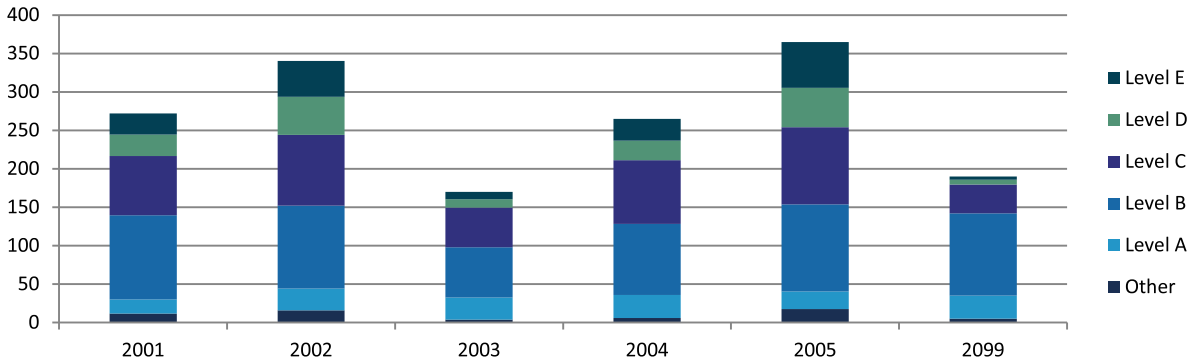


Research outputs submitted by type



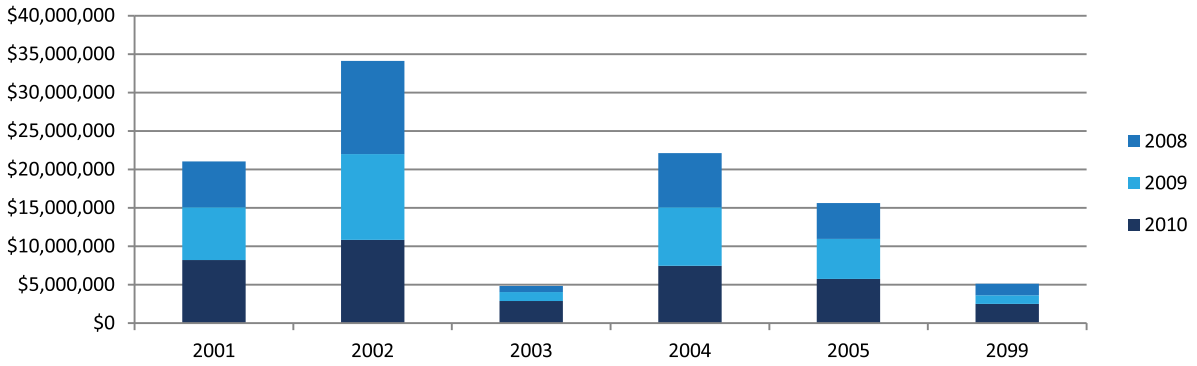
FoR code		Book	Book Chapter	Conference Paper	Journal Article	NTRO	Total
2001	Communication and Media Studies	81.5	536.1	346.3	1,096.8	65.7	2,126.4
2002	Cultural Studies	173.1	1,062.0	242.9	1,680.9	51.6	3,210.5
2003	Language Studies	47.7	229.1	121.1	267.0	2.0	666.9
2004	Linguistics	134.7	915.8	394.5	1,190.6	18.5	2,654.1
2005	Literary Studies	220.3	1,237.2	125.6	1,622.2	57.0	3,262.3
2099	Other Language, Communication and Culture	12.3	60.5	67.6	112.0	7.0	259.4
Total		669.6	4,040.7	1,298.0	5,969.5	201.8	12,179.6

Staffing profile by academic level



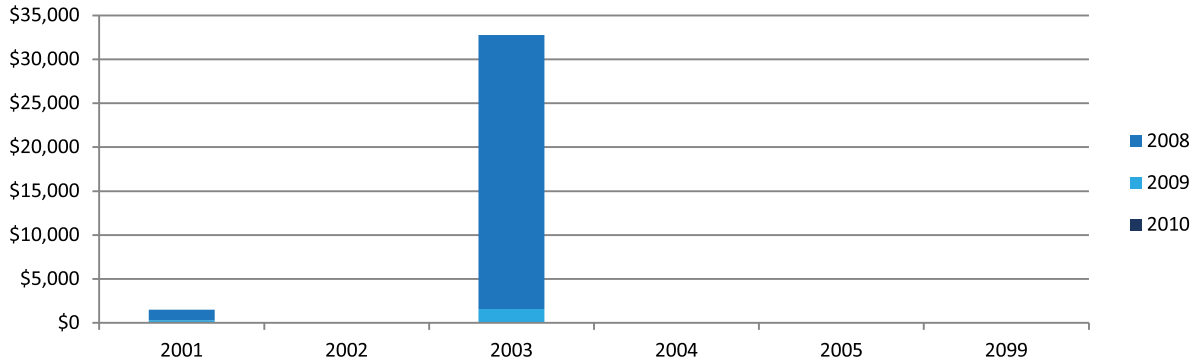
FoR code		Level E	Level D	Level C	Level B	Level A	Other	Total
2001	Communication and Media Studies	27.5	27.9	77.0	109.6	18.4	11.8	272.2
2002	Cultural Studies	46.5	49.5	91.9	108.1	28.1	16.1	340.2
2003	Language Studies	9.6	10.7	51.6	65.4	28.8	3.9	170.0
2004	Linguistics	28.1	25.6	82.6	92.8	29.9	5.9	264.9
2005	Literary Studies	59.5	51.3	100.3	113.1	23.0	17.6	364.8
2099	Other Language, Communication and Culture	4.2	6.3	37.5	107.2	29.8	5.2	190.2
Total		175.4	171.3	440.9	596.2	158.0	60.5	1,602.3

Research income by year—all categories ($)



FoR code		2008	2009	2010	Total
2001	Communication and Media Studies	$5,935,931	$6,863,624	$8,222,807	$21,022,362
2002	Cultural Studies	$12,092,763	$11,152,205	$10,850,782	$34,095,750
2003	Language Studies	$797,815	$1,153,097	$2,900,180	$4,851,092
2004	Linguistics	$7,031,944	$7,617,824	$7,458,685	$22,108,453
2005	Literary Studies	$4,694,873	$5,204,973	$5,743,704	$15,643,550
2099	Other Language, Communication and Culture	$1,497,180	$1,138,504	$2,523,712	$5,159,396
Total		$32,050,506	$33,130,227	$37,699,870	$102,880,603

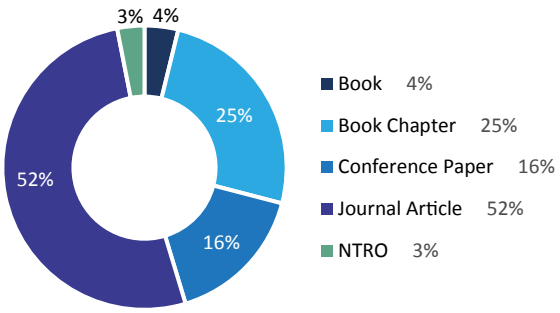
Research commercialisation income by year ($)



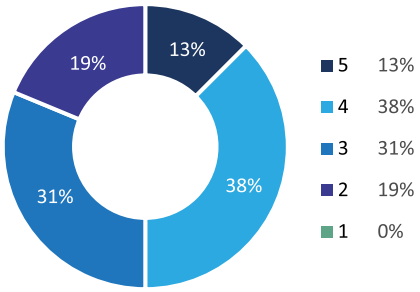
FoR code		2008	2009	2010	Total
2001	Communication and Media Studies	$1,203	$309	$0	$1,512
2002	Cultural Studies	$0	$0	$0	$0
2003	Language Studies	$31,205	$1,571	$0	$32,776
2004	Linguistics	$0	$0	$0	$0
2005	Literary Studies	$0	$0	$0	$0
2099	Other Language, Communication and Culture	$0	$0	$0	$0
Total		$32,408	$1,880	$0	$34,288

2001 Communication and Media Studies		13 out of 16 assessed UoEs were rated at or above world standard	
FTEs	272.2	Rating	Distribution
Research outputs	2,126.4	5	2
Research income	$21,022,362	4	6
UoEs assessed	16	3	5
Esteem count	16.5	2	3
Patents	-	1	0
Research commercialisation income	$1,512	**Total**	**16**

Research outputs by type

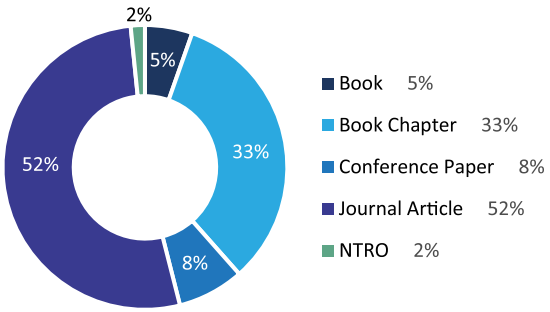


FoR rating distribution

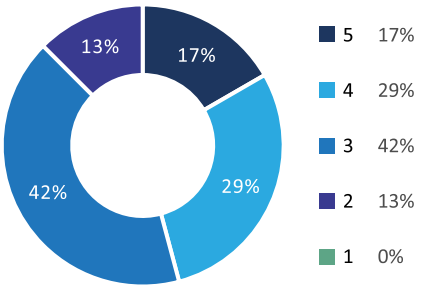


2002 Cultural Studies		21 out of 24 assessed UoEs were rated at or above world standard	
FTEs	340.2	Rating	Distribution
Research outputs	3,210.5	5	4
Research income	$34,095,750	4	7
UoEs assessed	24	3	10
Esteem count	42.6	2	3
Patents	-	1	0
Research commercialisation income	$0	**Total**	**24**

Research outputs by type

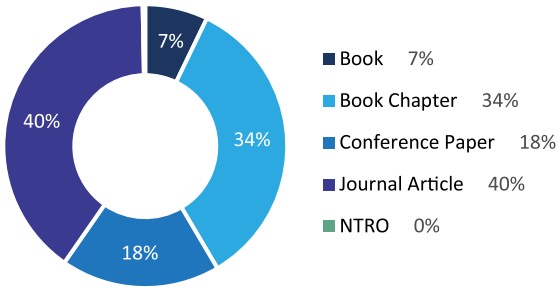


FoR rating distribution

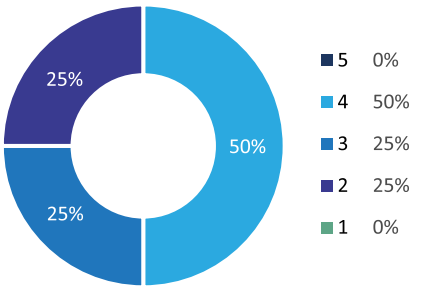


2003 Language Studies		3 out of 4 assessed UoEs were rated at or above world standard	
FTEs	170.0	Rating	Distribution
Research outputs	666.9	5	0
Research income	$4,851,092	4	2
UoEs assessed	4	3	1
Esteem count	12.9	2	1
Patents	-	1	0
Research commercialisation income	$32,776	**Total**	**4**

Research outputs by type

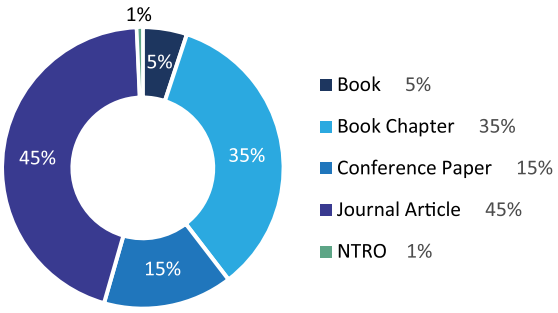


FoR rating distribution

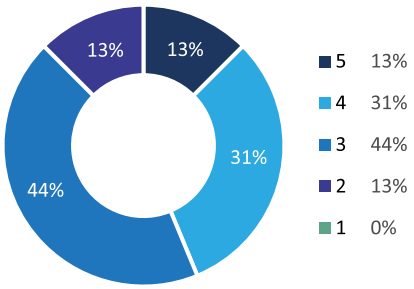


2004 Linguistics		14 out of 16 assessed UoEs were rated at or above world standard	
FTEs	264.9	Rating	Distribution
Research outputs	2,654.1	5	2
Research income	$22,108,453	4	5
UoEs assessed	16	3	7
Esteem count	48.9	2	2
Patents	-	1	0
Research commercialisation income	$0	**Total**	**16**

Research outputs by type

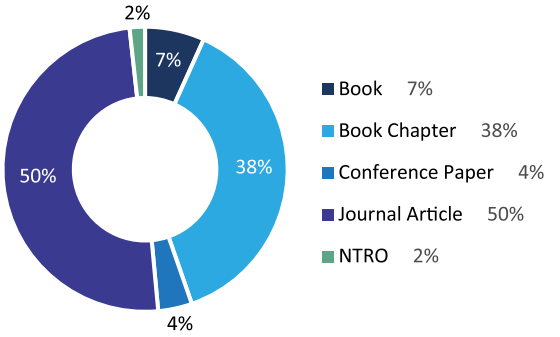


FoR rating distribution

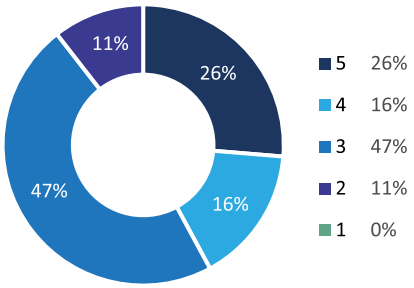


2005 Literary Studies		17 out of 19 assessed UoEs were rated at or above world standard	
FTEs	364.8	Rating	Distribution
Research outputs	3,262.3	5	5
Research income	$15,643,550	4	3
UoEs assessed	19	3	9
Esteem count	70.6	2	2
Patents	-	1	0
Research commercialisation income	$0	**Total**	**19**

Research outputs by type

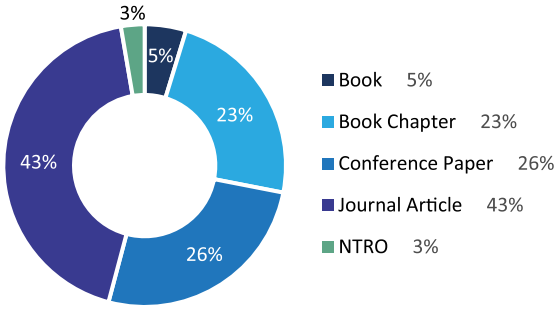


FoR rating distribution

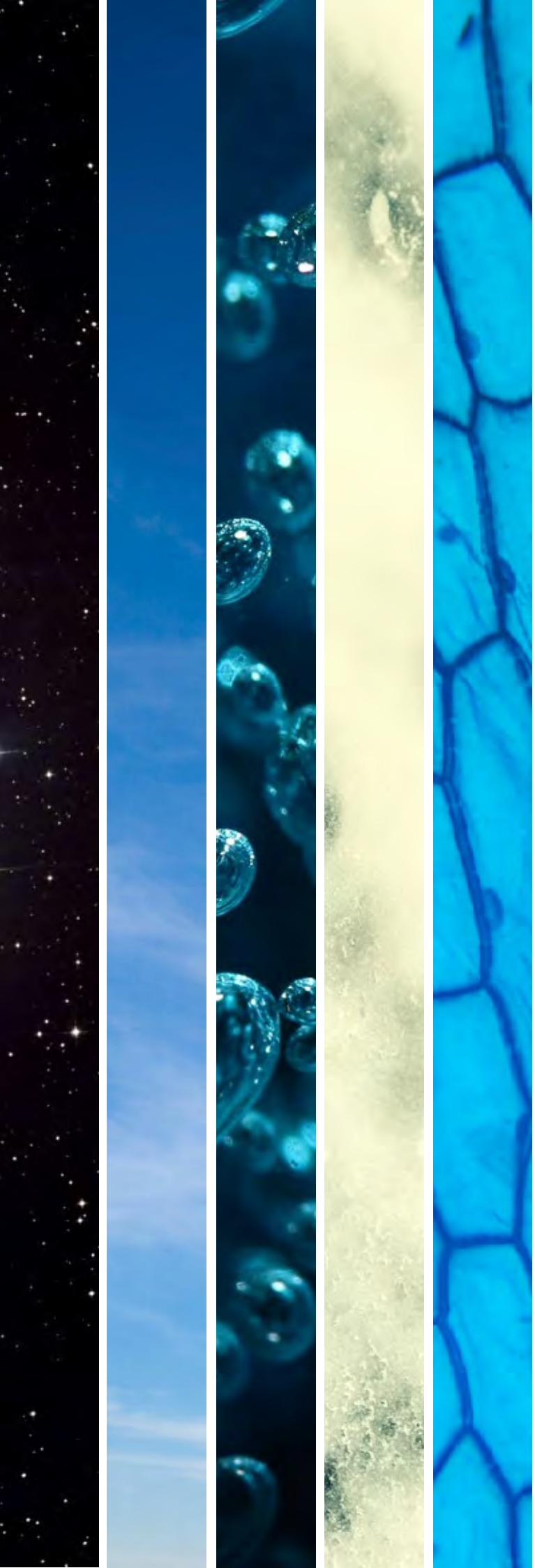


2099 Other Language, Communication and Culture		0 UoEs were assessed in this FoR	
FTEs	190.2	Rating	Distribution
Research outputs	259.4	5	0
Research income	$5,159,396	4	0
UoEs assessed	0	3	0
Esteem count	1.8	2	0
Patents	-	1	0
Research commercialisation income	$0	**Total**	**0**

Research outputs by type



Note: There is no FoR rating distribution for 2099



21 History and Archaeology

History and Archaeology is comprised of the following four-digit codes:

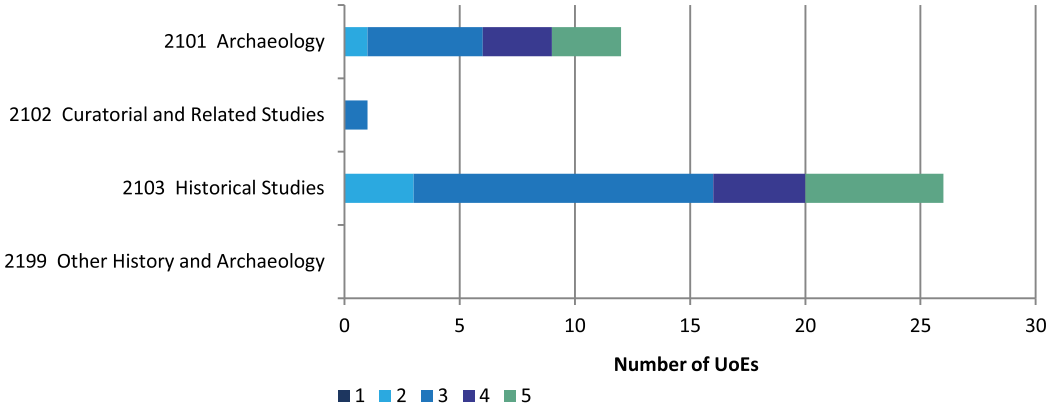
21	**History and Archaeology**	**199**
2101	Archaeology	202
2102	Curatorial and Related Studies	202
2103	Historical Studies	202
2199	Other History and Archaeology	203

21 History and Archaeology			35 out of 39 assessed UoEs were rated at or above world standard	
FTEs	730.1		Rating	Distribution
Research outputs	6,941.7		5	9
Research income	$105,713,930		4	7
UoEs assessed	39		3	19
Esteem count	277.8		2	4
Patents	0.0		1	0
Research commercialisation income	$7,990		**Total**	**39**

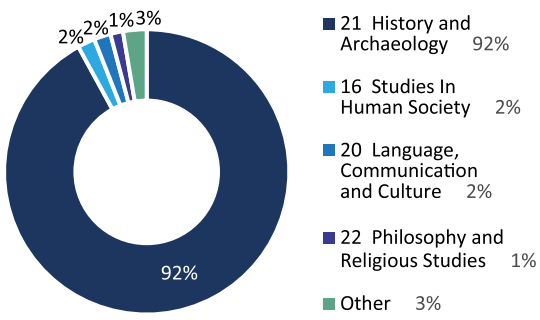
FoR overview

History and Archaeology (21) contributed approximately 2% of the research outputs to ERA 2012. It also contributed approximately 6% of the esteem measures submitted to ERA 2012. While journal articles were the most common research output type, book chapters also comprised a significant proportion, particularly of the outputs submitted for Historical Studies (2103). Historical Studies was the largest sub-discipline in terms of staffing, research outputs and research income.

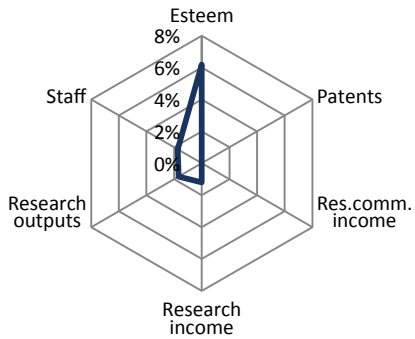
Number of UoEs per rating scale score



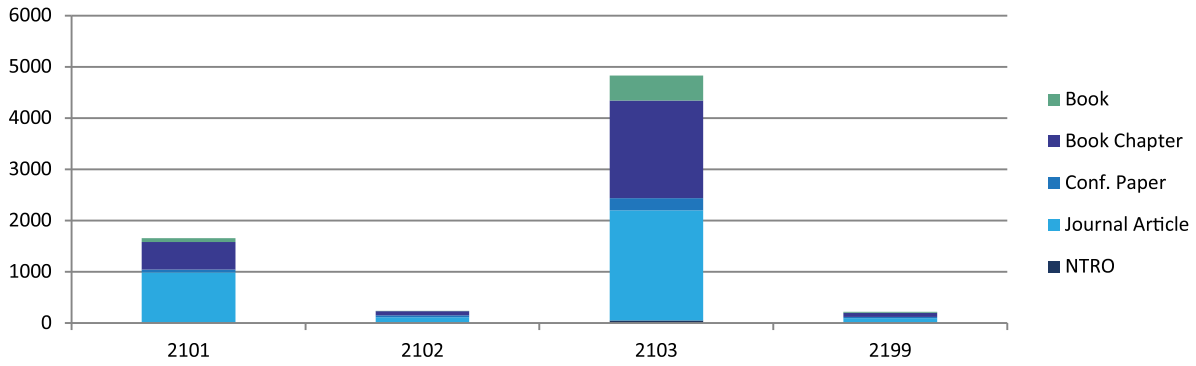
Disciplinary profile



Contribution to national landscape (%)

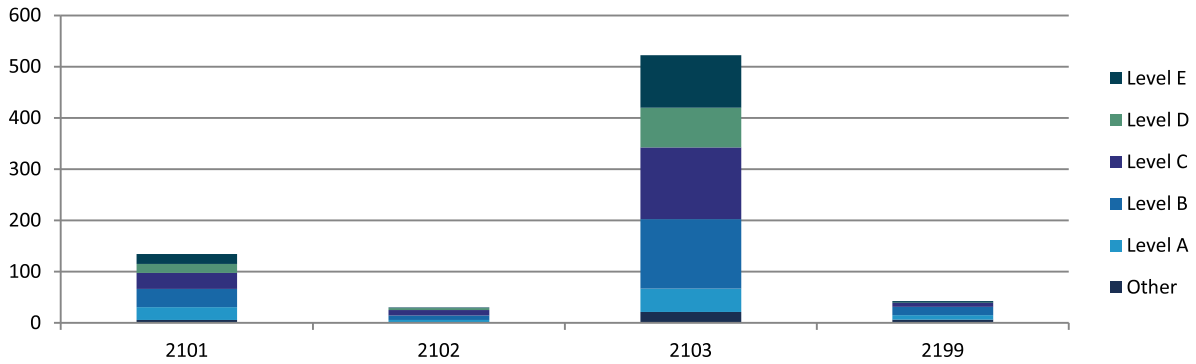


Research outputs submitted by type



FoR code		Book	Book Chapter	Conference Paper	Journal Article	NTRO	Total
2101	Archaeology	73.0	534.2	55.9	977.0	15.0	1,655.1
2102	Curatorial and Related Studies	5.1	80.6	33.6	108.6	9.0	236.9
2103	Historical Studies	486.2	1,906.2	236.3	2,149.1	51.0	4,828.8
2199	Other History and Archaeology	15.3	83.7	24.5	94.4	3.0	220.9
Total		579.6	2,604.7	350.3	3,329.1	78.0	6,941.7

Staffing profile by academic level

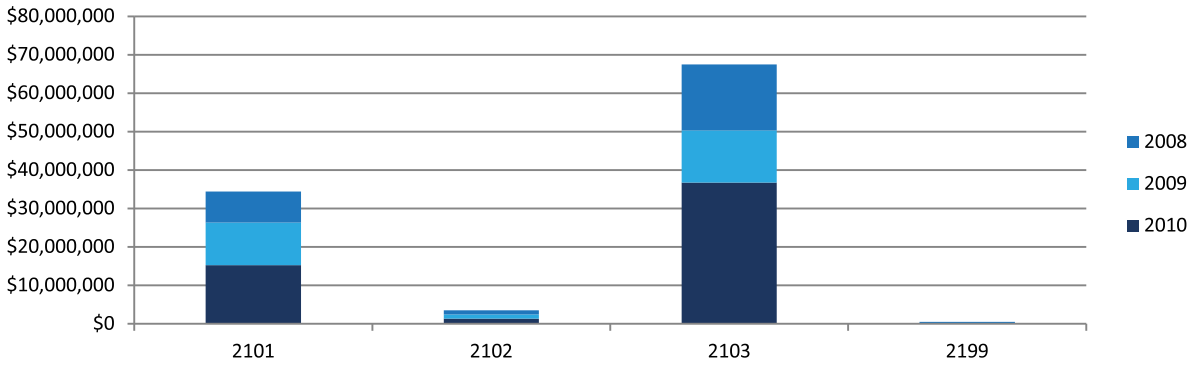


FoR code		Level E	Level D	Level C	Level B	Level A	Other	Total
2101	Archaeology	19.2	17.9	31.1	35.6	24.9	6.0	134.7
2102	Curatorial and Related Studies	1.3	3.7	11.0	8.4	5.1	0.9	30.4
2103	Historical Studies	102.4	77.4	139.7	135.7	45.5	21.5	522.2
2199	Other History and Archaeology	3.2	0.6	7.4	16.1	8.9	6.6	42.8
Total		126.1	99.6	189.2	195.8	84.4	35.0	730.1

Patent profile

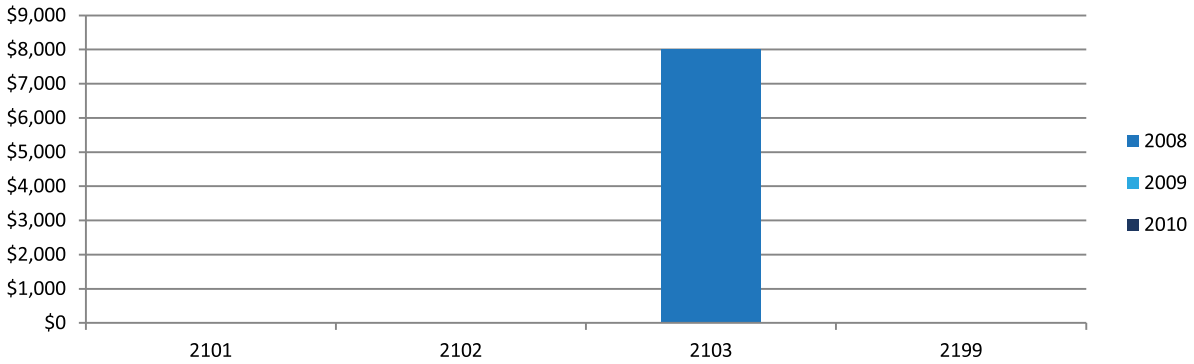
Note: There were no Patents submitted by UoEs in this FoR.

Research income by year—all categories ($)



FoR code		2008	2009	2010	Total
2101	Archaeology	$8,147,156	$11,068,293	$15,246,383	$34,461,832
2102	Curatorial and Related Studies	$1,055,999	$1,149,324	$1,331,754	$3,537,077
2103	Historical Studies	$17,123,915	$13,641,952	$36,719,238	$67,485,105
2199	Other History and Archaeology	$52,086	$176,888	$942	$229,916
Total		$26,379,156	$26,036,457	$53,298,317	$105,713,930

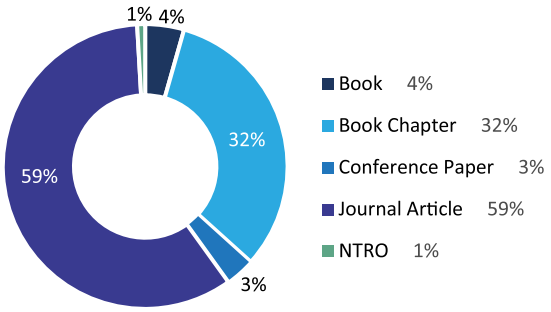
Research commercialisation income by year ($)



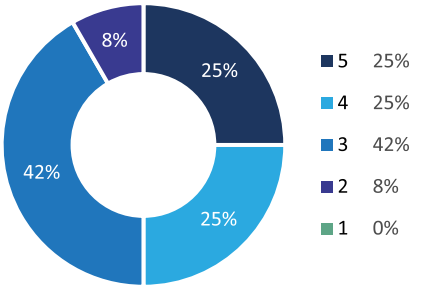
FoR code		2008	2009	2010	Total
2101	Archaeology	$0	$0	$0	$0
2102	Curatorial and Related Studies	$0	$0	$0	$0
2103	Historical Studies	$7,990	$0	$0	$7,990
2199	Other History and Archaeology	$0	$0	$0	$0
Total		$7,990	$0	$0	$7,990

2101 Archaeology		11 out of 12 assessed UoEs were rated at or above world standard	
FTEs	134.7	Rating	Distribution
Research outputs	1,655.1	5	3
Research income	$34,461,832	4	3
UoEs assessed	12	3	5
Esteem count	72.3	2	1
Patents	-	1	0
Research commercialisation income	$0	**Total**	**12**

Research outputs by type

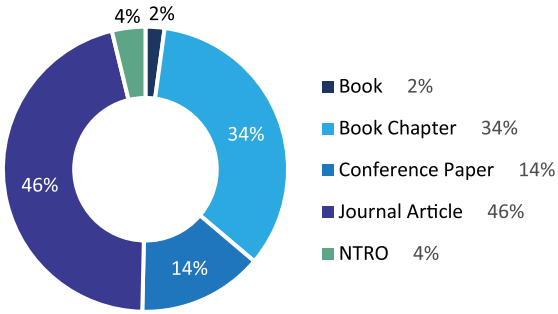


FoR rating distribution

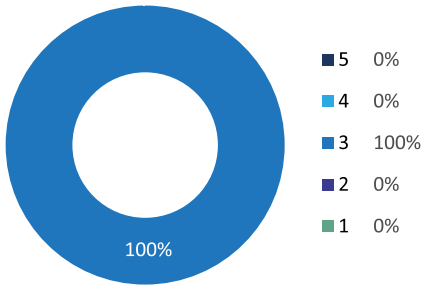


2102 Curatorial and Related Studies		1 out of 1 assessed UoEs were rated at or above world standard	
FTEs	30.4	Rating	Distribution
Research outputs	236.9	5	0
Research income	$3,537,077	4	0
UoEs assessed	1	3	1
Esteem count	3.4	2	0
Patents	0.0	1	0
Research commercialisation income	$0	**Total**	**1**

Research outputs by type

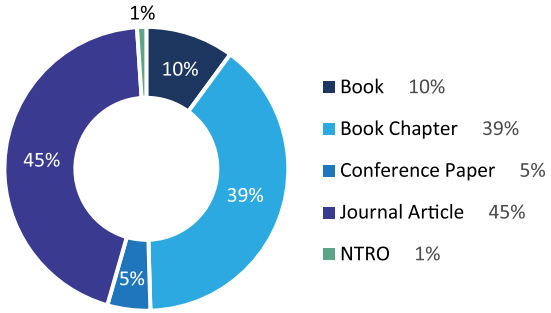


FoR rating distribution

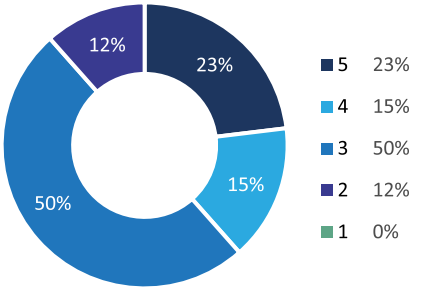


2103 Historical Studies		23 out of 26 assessed UoEs were rated at or above world standard	
FTEs	522.2	Rating	Distribution
Research outputs	4,828.8	5	6
Research income	$67,485,105	4	4
UoEs assessed	26	3	13
Esteem count	201.1	2	3
Patents	-	1	0
Research commercialisation income	$7,990	**Total**	**26**

Research outputs by type



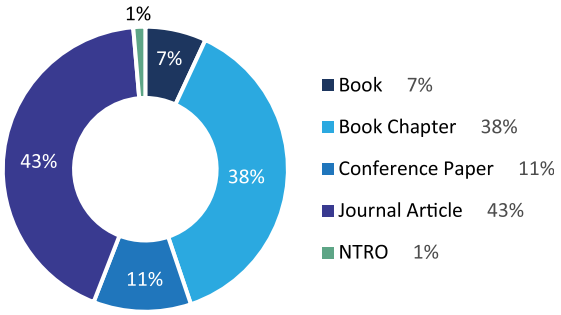
FoR rating distribution

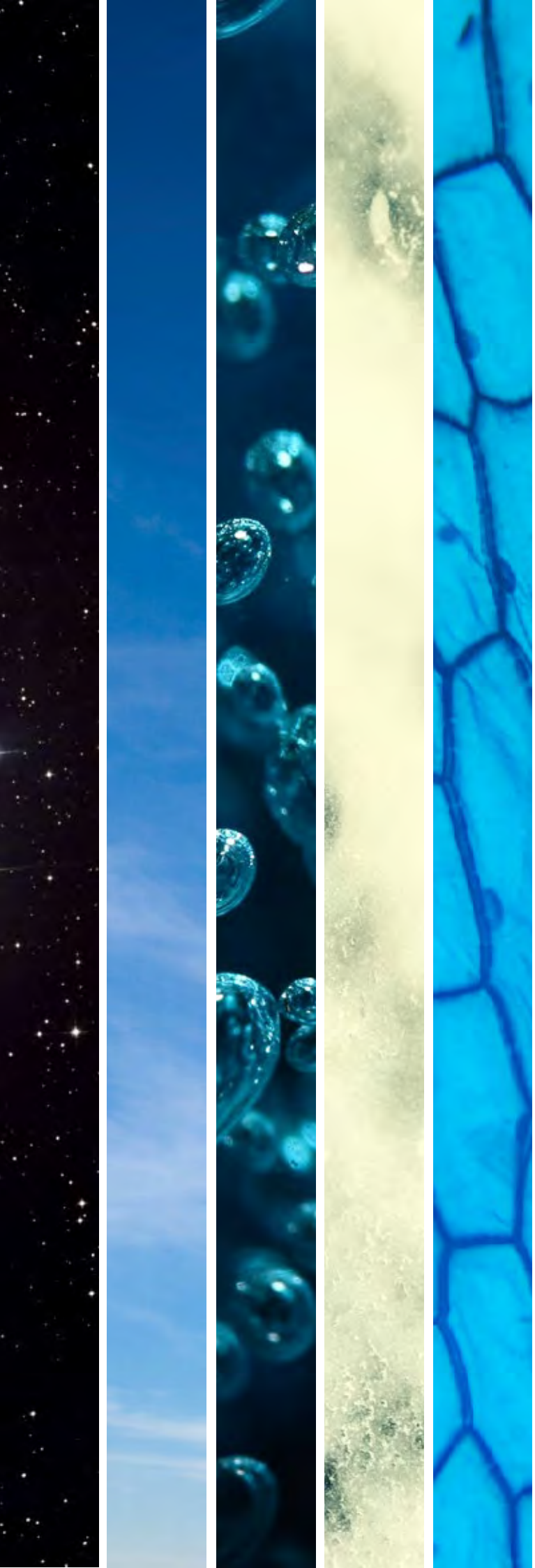


2199 Other History and Archaeology		0 UoEs were assessed in this FoR		
FTEs	42.8		Rating	Distribution
Research outputs	220.9		5	0
Research income	$229,916		4	0
UoEs assessed	0		3	0
Esteem count	1.0		2	0
Patents	-		1	0
Research commercialisation income	$0		**Total**	**0**

Research outputs by type

Note: There is no FoR rating distribution for 2199





22 Philosophy and Religious Studies

Philosophy and Religious Studies is comprised of the following four-digit codes:

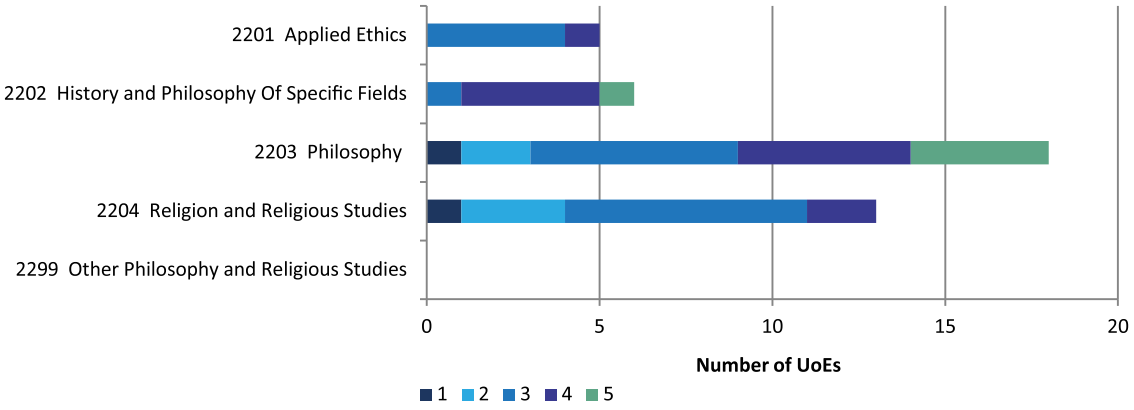
22	**Philosophy and Religious Studies**	**205**
2201	Applied Ethics	208
2202	History and Philosophy of Specific Fields	208
2203	Philosophy	208
2204	Religion and Religious Studies	209
2299	Other Philosophy and Religious Studies	209

22 Philosophy and Religious Studies		35 out of 42 assessed UoEs were rated at or above world standard	
FTEs	609.4	Rating	Distribution
Research outputs	5,726.9	5	5
Research income	$39,236,088	4	12
UoEs assessed	42	3	18
Esteem count	108.5	2	5
Patents	-	1	2
Research commercialisation income	$0	**Total**	**42**

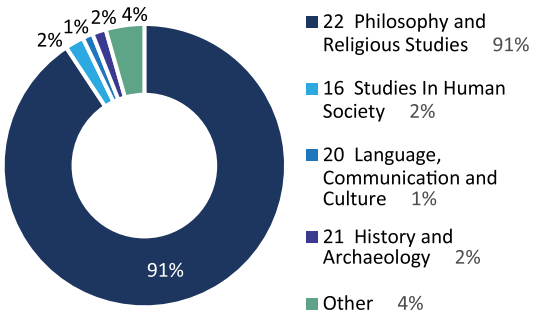
FoR overview

Philosophy and Religious Studies (22) contributed approximately 1% of the research outputs to ERA 2012. Journal articles were the most common research output type. Philosophy (2203) is the largest sub-discipline in terms of research outputs and staffing levels.

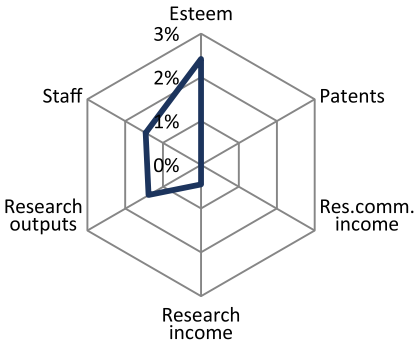
Number of UoEs per rating scale score



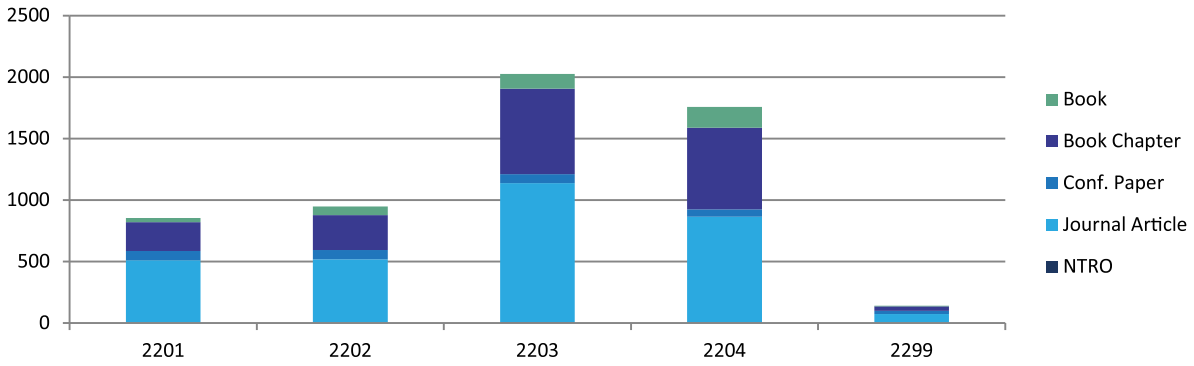
Disciplinary profile



Contribution to national landscape (%)

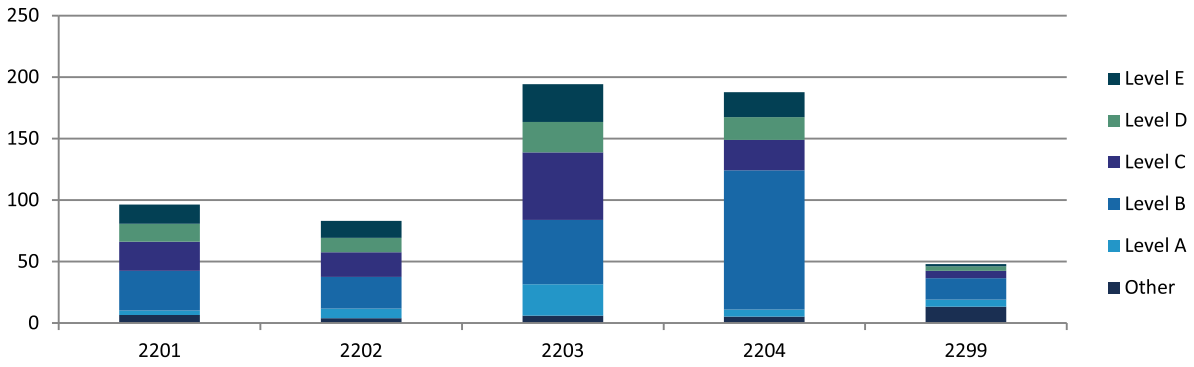


Research outputs submitted by type



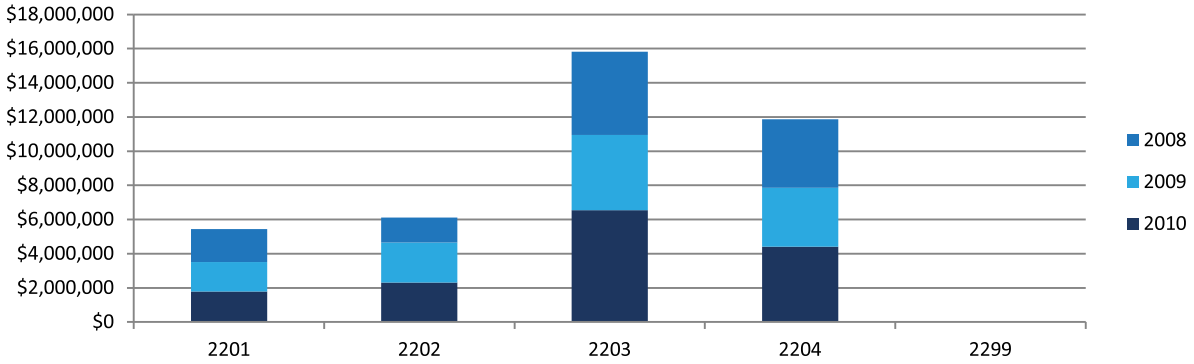
FoR code		Book	Book Chapter	Conference Paper	Journal Article	NTRO	Total
2201	Applied Ethics	33.1	234.8	74.7	508.1	3.1	853.8
2202	History and Philosophy of Specific Fields	68.6	283.3	76.3	516.4	2.6	947.2
2203	Philosophy	121.4	694.7	70.9	1,129.1	10.1	2,026.2
2204	Religion and Religious Studies	168.5	664.7	59.2	857.5	7.0	1,756.9
2299	Other Philosophy and Religious Studies	5.1	36.4	26.3	70.0	5.0	142.8
Total		396.7	1,913.9	307.4	3,081.1	27.8	5,726.9

Staffing profile by academic level



FoR code		Level E	Level D	Level C	Level B	Level A	Other	Total
2201	Applied Ethics	15.8	14.4	23.8	32.2	3.6	6.7	96.5
2202	History and Philosophy of Specific Fields	13.9	11.6	20.2	25.7	7.7	4.1	83.2
2203	Philosophy	30.8	24.7	54.9	52.1	25.5	6.2	194.2
2204	Religion and Religious Studies	20.1	18.6	24.6	113.2	5.9	5.2	187.6
2299	Other Philosophy and Religious Studies	1.8	3.5	6.0	17.4	5.7	13.5	47.9
Total		82.4	72.8	129.5	240.6	48.4	35.7	609.4

Research income by year—all categories ($)



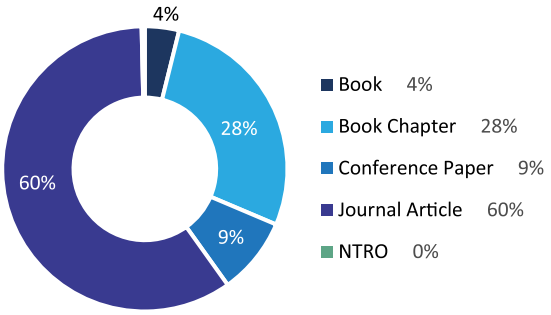
FoR code		2008	2009	2010	Total
2201	Applied Ethics	$1,937,207	$1,723,266	$1,782,704	$5,443,177
2202	History and Philosophy of Specific Fields	$1,469,222	$2,348,364	$2,306,165	$6,123,751
2203	Philosophy	$4,860,394	$4,400,207	$6,550,856	$15,811,457
2204	Religion and Religious Studies	$4,002,669	$3,442,674	$4,412,360	$11,857,703
2299	Other Philosophy and Religious Studies	$0	$0	$0	$0
Total		$12,269,492	$11,914,511	$15,052,085	$39,236,088

Research commercialisation income ($)

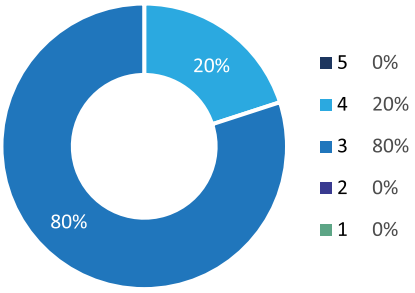
Note: There was no Research Commercialisation Income submitted by UoEs in this FoR.

2201 Applied Ethics		5 out of 5 assessed UoEs were rated at or above world standard	
FTEs	96.5	Rating	Distribution
Research outputs	853.8	5	0
Research income	$5,443,177	4	1
UoEs assessed	5	3	4
Esteem count	7.0	2	0
Patents	-	1	0
Research commercialisation income	$0	**Total**	**5**

Research outputs by type

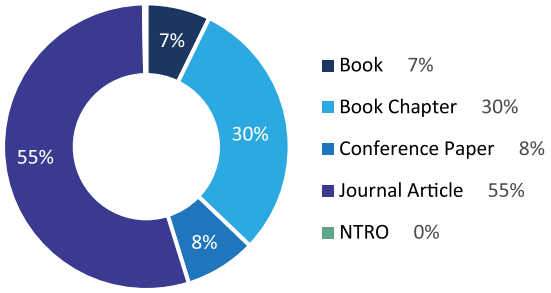


FoR rating distribution

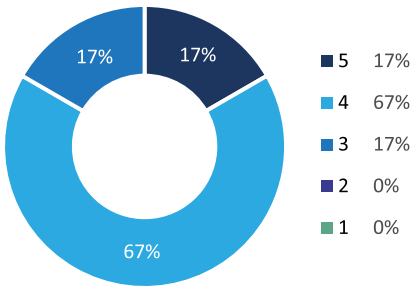


2202 History and Philosophy of Specific Fields		6 out of 6 assessed UoEs were rated at or above world standard	
FTEs	83.2	Rating	Distribution
Research outputs	947.2	5	1
Research income	$6,123,751	4	4
UoEs assessed	6	3	1
Esteem count	25.5	2	0
Patents	-	1	0
Research commercialisation income	$0	**Total**	**6**

Research outputs by type

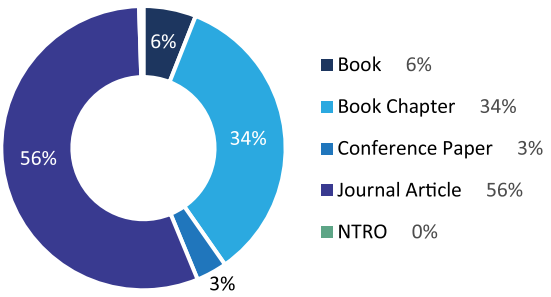


FoR rating distribution

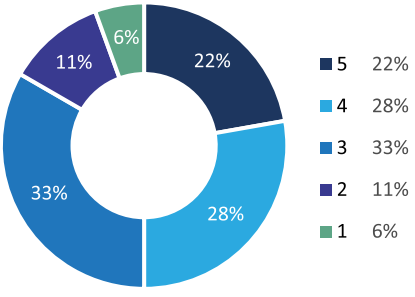


2203 Philosophy		15 out of 18 assessed UoEs were rated at or above world standard	
FTEs	194.2	Rating	Distribution
Research outputs	2,026.2	5	4
Research income	$15,811,457	4	5
UoEs assessed	18	3	6
Esteem count	56.7	2	2
Patents	-	1	1
Research commercialisation income	$0	**Total**	**18**

Research outputs by type

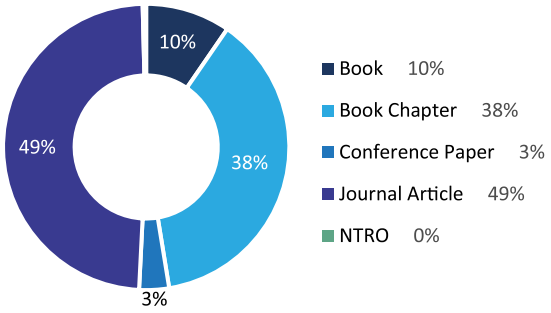


FoR rating distribution

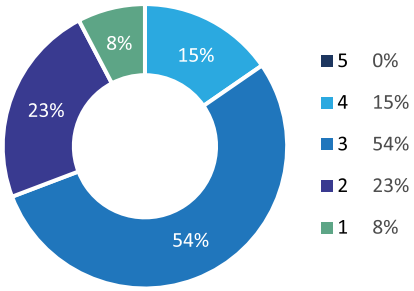


2204 Religion and Religious Studies		9 out of 13 assessed UoEs were rated at or above world standard	
FTEs	187.6	Rating	Distribution
Research outputs	1,756.9	5	0
Research income	$11,857,703	4	2
UoEs assessed	13	3	7
Esteem count	18.9	2	3
Patents	-	1	1
Research commercialisation income	$0	**Total**	**13**

Research outputs by type

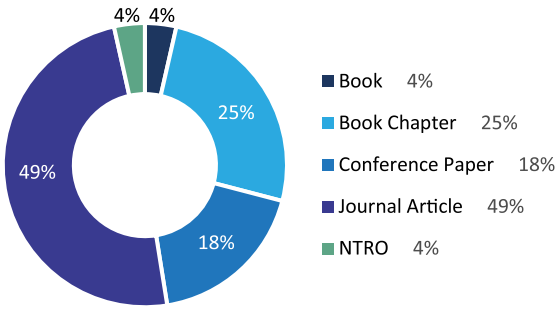


FoR rating distribution



2299 Other Philosophy and Religious Studies		0 UoEs were assessed in this FoR	
FTEs	47.9	Rating	Distribution
Research outputs	142.8	5	0
Research income	$0	4	0
UoEs assessed	0	3	0
Esteem count	0.4	2	0
Patents	-	1	0
Research commercialisation income	$0	**Total**	**0**

Research outputs by type

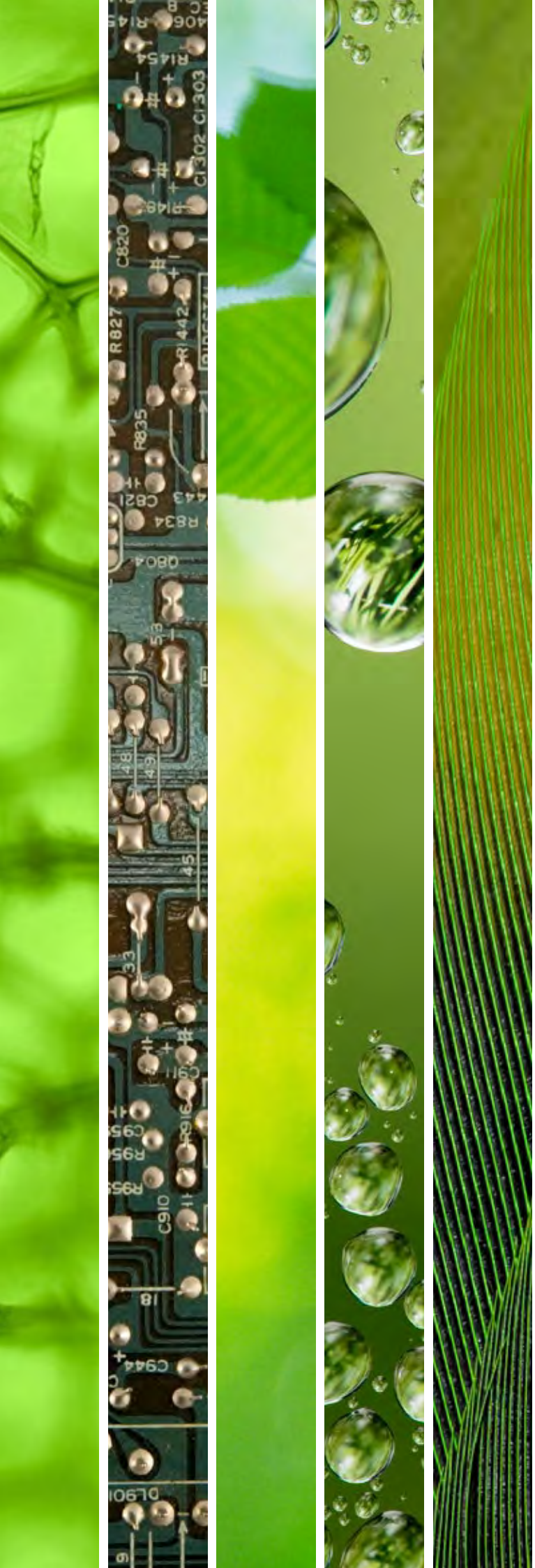


Note: There is no FoR rating distribution for 2299



SECTION 3

National Profiles by Fields of Research Code



SECTION 3

National Profiles by Fields of Research Code

Research Outputs by Type	216
Research Outputs by Year	223
HERDC Category 1—Australian Competitive Grants Research Income	230
HERDC Category 2—Other Public Sector Research Income	237
HERDC Category 3—Industry and Other Research Income	244
HERDC Category 3—Industry and Other Research Income (Australian)	251
HERDC Category 3—Industry and Other Research Income (International A)	258
HERDC Category 3—Industry and Other Research Income (International B)	265
HERDC Category 4 —CRC Research Income	272
Staffing Profile	279
Research Commercialisation Income	286
Patents Sealed	293
Plant Breeder's Rights	298
NHMRC Endorsed Guidelines	298
Esteem	299

SECTION 3:
NATIONAL PROFILES BY FIELDS OF RESEARCH CODE

Section 3 provides detailed profiles of national ERA data by two- and four-digit FoR codes. Please note that there are differences in the applicability of indicators for each discipline. These are specified in the *ERA 2012 Discipline Matrix*, available from http://www.arc.gov.au/era/era_2012/key_documents_2012.htm.

Where an indicator does not apply to a particular discipline, '-' is shown. '0' represents that the indicator applies to the discipline, but no data was submitted.

For each two- and four-digit FoR code the following data tables are provided:

Research Outputs by Type

This table shows the number of research outputs submitted by output type. There are two broad groups of research output types:

1. Traditional: 'book', 'book chapter', 'journal article' and 'conference paper'; and
2. Non-traditional: 'curated or exhibited event', 'live performance', 'original creative work' and 'recorded/rendered work'.

All disciplines were required to submit eligible traditional research outputs. Some humanities, creative arts and social sciences disciplines were also required to submit eligible non-traditional research outputs.

Non-traditional research outputs could be submitted as part of a 'Portfolio'. A 'Portfolio' is a group of individual works which together constitute a single non-traditional research output. The portfolio submission was supported with information to demonstrate coherent research content.

Please note that all research outputs were submitted at the four-digit FoR code level. The two-digit FoR code level represents the aggregate of the outputs from the relevant four-digit FoR codes which sit beneath the two-digit FoR code.

Research Outputs by Year

This table shows the number of research outputs submitted to ERA 2012 for each year of the reference period. For ERA 2012, the reference period for research outputs was 2005–2010. As a 'Portfolio' can span multiple years, they are not included in yearly figures.

HERDC Category 1–Australian Competitive Grants Research Income

This table shows the total amount of HERDC Category 1 research income submitted to ERA 2012 for each year of the reference period. For ERA 2012, the reference period for research income was 1 January 2008–31 December 2010.

HERDC Category 1 income refers to income received from programs listed on the Australian Competitive Grants Register. The HERDC Category 1 grants are highly competitive and have a strong element of peer review.

The 'Median Income' column shows the middle amount submitted to ERA 2012 from an individual institution for an FoR code across the three-year reference period. The Maximum Income column shows the highest amount submitted to ERA 2012 from an individual institution for an FoR code across the three-year reference period.

HERDC Category 2–Other Public Sector Research Income

This table shows the total amount of HERDC Category 2 research income submitted to ERA 2012 for each year of the reference period. For ERA 2012, the reference period for research income was 2008–2010.

HERDC Category 2 income refers to any other research income received from the Australian Government that is not eligible for inclusion as HERDC Category 1 research income. This includes income from both state and local governments.

The 'Median Income' column shows the middle amount submitted to ERA 2012 from an individual institution for an FoR code across the three-year reference period. The Maximum Income column shows the highest amount submitted to ERA 2012 from an individual institution for an FoR code across the three-year reference period.

HERDC Category 3–Industry and Other Research Income

This table shows the total amount of HERDC Category 3 research income submitted to ERA 2012 for each year of the reference period. For ERA 2012, the reference period for research income was 2008–2010.

HERDC Category 3 income refers to income from industry and other non-Australian Government organisations. This Category of income is broken down into three sub-categories: Australian, International A and International B (detailed below).

The 'Median Income' column shows the middle amount submitted to ERA 2012 from an individual institution for a FoR code across the three-year reference period. The Maximum Income column shows the highest amount submitted to ERA 2012 from an individual institution for an FoR code across the three-year reference period.

HERDC Category 3–Industry and Other Research Income (Australian)

HERDC Category 3 (Australian) income refers to contract, grant, donation, bequest and foundation income from Australian industry.

HERDC Category 3–Industry and Other Research Income (International A)

HERDC Category 3 (International A) income refers to competitive, peer reviewed grants for research from non-Australian industry or non-Australian Government agencies including non-Australian industry collaborative research grants.

HERDC Category 3–Industry and Other Research Income (International B)

HERDC Category 3 (International B) income refers to income from non-Australian industry or governments that cannot be included in International A research income.

HERDC Category 4–CRC Research Income

This table shows the total amount of HERDC Category 4 research income submitted to ERA 2012 for each year of the reference period. For ERA 2012, the reference period for research income was 2008–2010.

HERDC Category 4 income refers to income received by Cooperative Research Centres (CRCs) in which the relevant institution is a core participant (i.e. a signatory to the CRC's Commonwealth Agreement).

The 'Median Income' column shows the middle amount submitted to ERA 2012 from an individual institution for an FoR code across the three-year reference period. The Maximum Income column shows the highest amount submitted to ERA 2012 from an individual institution for an FoR code across the three-year reference period.

Staffing Profile

This table shows the number of staff submitted to ERA 2012 as of the staff census data (31 March 2011). Both the 'FTE' (Full-Time Equivalent) and 'Headcount' figures are shown and correspond to the definition of staff outlined in the Higher Education Staff Data Collection Specifications. 'FTE' represents the time or workload of individuals employed while 'Headcount' represents the raw number of employees. 'FTE' is classified into staffing Levels A-E and Other while 'Headcount' is classified into 'FTE' (Levels A–E and Other), 'Casual' and 'Other Appointment'.

Research Commercialisation Income

This table shows the total amount of Research Commercialisation Income submitted to ERA 2012 for each year of the reference period. For ERA 2012, the reference period for income was 2008–2010.

Research Commercialisation Income is defined as commercial returns via income and/or capital gains resulting from the commercialisation of research outputs, services and intellectual property. Under ERA 2012, research commercialisation income was treated as an 'applied measure' rather than as 'research income'.

The 'Median Income' column shows the middle amount submitted to ERA 2012 from an individual institution for an FoR code across the three-year reference period. The Maximum Income column shows the highest amount submitted to ERA 2012 from an individual institution for an FoR code across the three-year reference period.

Patents Sealed

This table shows the number of patents sealed by country or type submitted to ERA 2012 for the reference period. For ERA 2012, the reference period for patents was 2008–2010.

Patents sealed in Australia, Europe, Japan and United States are reported in ERA 2012. Patents sealed in other jurisdictions are grouped into the 'Other' category. Triadic patents are a series of corresponding patents filed at the European Patent Office (EPO), the United States Patent and Trademark Office (USPTO) and the Japan Patent Office (JPO), for the same invention by the same applicant or inventor. Institutions were required to identify patents that are essentially the same patent registered in more than one country—the Patent Family column displays a set of unique patents.

Plant Breeder's Rights

This table shows the number of Plant Breeder's Rights (PBRs) submitted to ERA 2012 for the reference period. For ERA 2012, the reference period for PBRs was 2008–2010.

PBRs are proprietary rights held by breeders of certain new varieties of plants and fungi. Such rights are legally enforceable and give exclusive commercial rights to market a new variety or its propagating material for the duration of the PBR. For ERA 2012 purposes, PBRs were those granted under the *Plant Breeder's Rights Act 1994* or their international equivalents.

Only eligible disciplines in the environmental, biological and agricultural sciences and technology submitted PBRs to ERA 2012.

NHMRC Endorsed Guidelines

This table shows the number of National Health and Medical Research Council (NHMRC) Endorsed Guidelines submitted to ERA 2012 for the reference period. For ERA 2012, the reference period for NHMRC Endorsed Guidelines was 2008–2010.

Guidelines endorsed by the NHMRC and those on population health, clinical practice and ethics may be produced by groups external to the NHMRC, or developed by the NHMRC with the assistance of expert working groups.

Only eligible disciplines in medical and health sciences submitted NHMRC Endorsed Guidelines to ERA 2012.

Esteem

This table shows the number of esteem measures submitted to ERA 2012 for the reference period. For ERA 2012, the reference period for esteem measures was 2008–2010.

Esteem measures indicate that a researcher is held in particularly high regard by their peers or other qualified parties. Eligible esteem measures for ERA 2012 included:

- Editor of a prestigious work of reference.
- Fellowship of a learned academy and membership of AIATSIS.
- Recipient of a nationally-competitive research fellowship.
- Membership of a statutory committee.
- Recipient of an Australia Council grant or Australia Council fellowship.

The applicability of an esteem measure is dependent on the discipline.

Research Outputs by Type

FoR Code	FoR Name	Book	Book Chapter	Journal Article	Conference Paper	Curated or Exhibited Event	Live Performance	Original Creative Work	Recorded/ Rendered Work	Portfolio	Total	% of Total
01	**Mathematical Sciences**	**80.6**	**406.3**	**8,454.0**	**1,293.0**	**-**	**-**	**-**	**-**	**-**	**10,233.9**	**2.5**
0101	Pure Mathematics	31.5	62.2	2,510.4	103.2	-	-	-	-	-	2,707.3	0.7
0102	Applied Mathematics	18.2	141.6	2,641.3	518.0	-	-	-	-	-	3,319.1	0.8
0103	Numerical and Computational Mathematics	8.4	72.7	886.2	239.6	-	-	-	-	-	1,206.9	0.3
0104	Statistics	18.0	99.4	1,537.9	344.8	-	-	-	-	-	2,000.1	0.5
0105	Mathematical Physics	1.0	26.9	638.4	39.4	-	-	-	-	-	705.7	0.2
0199	Other Mathematical Sciences	3.5	3.5	239.8	48.0	-	-	-	-	-	294.8	0.1
02	**Physical Sciences**	**24.8**	**289.5**	**13,621.9**	**2,336.6**	**-**	**-**	**-**	**-**	**-**	**16,272.8**	**3.9**
0201	Astronomical and Space Sciences	3.0	69.1	4,197.6	317.4	-	-	-	-	-	4,587.1	1.1
0202	Atomic, Molecular, Nuclear, Particle and Plasma Physics	6.5	37.8	2,280.0	227.0	-	-	-	-	-	2,551.3	0.6
0203	Classical Physics	1.0	14.2	467.5	117.9	-	-	-	-	-	600.6	0.1
0204	Condensed Matter Physics	4.0	51.8	2,381.3	314.6	-	-	-	-	-	2,751.7	0.7
0205	Optical Physics	5.2	55.0	2,189.8	1,105.6	-	-	-	-	-	3,355.6	0.8
0206	Quantum Physics	3.0	29.5	1,386.5	129.5	-	-	-	-	-	1,548.5	0.4
0299	Other Physical Sciences	2.1	32.1	719.2	124.6	-	-	-	-	-	878.0	0.2
03	**Chemical Sciences**	**17.9**	**407.2**	**15,068.0**	**631.0**	**-**	**-**	**-**	**-**	**-**	**16,124.1**	**3.9**
0301	Analytical Chemistry	1.5	57.1	1,969.9	127.2	-	-	-	-	-	2,155.7	0.5
0302	Inorganic Chemistry	1.0	29.2	2,063.4	28.0	-	-	-	-	-	2,121.6	0.5
0303	Macromolecular and Materials Chemistry	5.1	62.6	1,847.7	141.2	-	-	-	-	-	2,056.6	0.5
0304	Medicinal and Biomolecular Chemistry	1.5	69.5	1,690.4	24.0	-	-	-	-	-	1,785.4	0.4
0305	Organic Chemistry	0.8	46.6	1,911.9	21.7	-	-	-	-	-	1,981.0	0.5
0306	Physical Chemistry (Incl. Structural)	5.5	101.1	4,161.0	207.6	-	-	-	-	-	4,475.2	1.1
0307	Theoretical and Computational Chemistry	1.3	15.7	665.4	25.4	-	-	-	-	-	707.8	0.2
0399	Other Chemical Sciences	1.2	25.4	758.3	55.9	-	-	-	-	-	840.8	0.2

continued

Research Outputs by Type

FoR Code	FoR Name	Book	Book Chapter	Journal Article	Conference Paper	Curated or Exhibited Event	Live Performance	Original Creative Work	Recorded/ Rendered Work	Portfolio	Total	% of Total
04	**Earth Sciences**	**37.7**	**468.6**	**8,625.1**	**1,066.8**	**-**	**-**	**-**	**-**	**-**	**10,198.2**	**2.5**
0401	Atmospheric Sciences	3.0	27.7	801.9	86.4	-	-	-	-	-	919.0	0.2
0402	Geochemistry	0.9	26.0	1,243.4	71.2	-	-	-	-	-	1,341.5	0.3
0403	Geology	8.8	170.4	3,028.2	146.2	-	-	-	-	-	3,353.6	0.8
0404	Geophysics	1.0	29.4	847.2	206.9	-	-	-	-	-	1,084.5	0.3
0405	Oceanography	5.3	32.4	743.9	51.9	-	-	-	-	-	833.5	0.2
0406	Physical Geography and Environmental Geoscience	17.3	175.4	1,690.9	438.1	-	-	-	-	-	2,321.7	0.6
0499	Other Earth Sciences	1.4	7.3	269.6	66.1	-	-	-	-	-	344.4	0.1
05	**Environmental Sciences**	**84.0**	**788.4**	**5,723.2**	**953.4**	**-**	**-**	**-**	**-**	**-**	**7,549.0**	**1.8**
0501	Ecological Applications	16.5	97.5	1,023.8	71.2	-	-	-	-	-	1,209.0	0.3
0502	Environmental Science and Management	60.3	574.5	3,429.6	579.3	-	-	-	-	-	4,643.7	1.1
0503	Soil Sciences	3.1	73.1	883.1	201.4	-	-	-	-	-	1,160.7	0.3
0599	Other Environmental Sciences	4.1	43.3	386.7	101.5	-	-	-	-	-	535.6	0.1
06	**Biological Sciences**	**71.3**	**1,435.6**	**28,766.2**	**594.2**	**-**	**-**	**-**	**-**	**-**	**30,867.3**	**7.5**
0601	Biochemistry and Cell Biology	1.2	290.0	6,206.6	85.7	-	-	-	-	-	6,583.5	1.6
0602	Ecology	16.0	266.5	4,541.2	121.7	-	-	-	-	-	4,945.4	1.2
0603	Evolutionary Biology	11.4	126.5	1,782.6	17.6	-	-	-	-	-	1,938.1	0.5
0604	Genetics	1.5	156.4	2,978.2	101.8	-	-	-	-	-	3,237.9	0.8
0605	Microbiology	5.5	182.5	3,197.9	52.0	-	-	-	-	-	3,437.9	0.8
0606	Physiology	3.3	36.3	1,286.9	22.2	-	-	-	-	-	1,348.7	0.3
0607	Plant Biology	9.8	179.9	3,318.5	105.8	-	-	-	-	-	3,614.0	0.9
0608	Zoology	19.1	167.9	4,767.1	60.6	-	-	-	-	-	5,014.7	1.2
0699	Other Biological Sciences	3.5	29.6	687.2	26.8	-	-	-	-	-	747.1	0.2
07	**Agricultural and Veterinary Sciences**	**36.6**	**531.6**	**8,793.3**	**1,670.6**	**-**	**-**	**-**	**-**	**-**	**11,032.1**	**2.7**
0701	Agriculture, Land and Farm Management	5.2	71.2	637.8	207.1	-	-	-	-	-	921.3	0.2
0702	Animal Production	5.9	71.5	1,099.7	520.2	-	-	-	-	-	1,697.3	0.4

continued

Research Outputs by Type

FoR Code	FoR Name	Book	Book Chapter	Journal Article	Conference Paper	Curated or Exhibited Event	Live Performance	Original Creative Work	Recorded/ Rendered Work	Portfolio	Total	% of Total
0703	Crop and Pasture Production	3.5	126.6	1,904.1	399.5	-	-	-	-	-	2,433.7	0.6
0704	Fisheries Sciences	6.5	64.4	1,233.8	46.6	-	-	-	-	-	1,351.3	0.3
0705	Forestry Sciences	8.3	70.1	940.0	75.6	-	-	-	-	-	1,094.0	0.3
0706	Horticultural Production	2.3	32.5	639.7	140.3	-	-	-	-	-	814.8	0.2
0707	Veterinary Sciences	2.5	69.4	2,032.5	125.9	-	-	-	-	-	2,230.3	0.5
0799	Other Agricultural and Veterinary Sciences	2.4	25.9	305.7	155.4	-	-	-	-	-	489.4	0.1
08	**Information and Computing Sciences**	**99.6**	**1,712.3**	**7,276.7**	**15,076.1**	**-**	**-**	**-**	**-**	**-**	**24,164.7**	**5.8**
0801	Artificial Intelligence and Image Processing	30.1	523.5	2,144.6	5,483.3	-	-	-	-	-	8,181.5	2.0
0802	Computation Theory and Mathematics	4.7	105.3	630.0	743.7	-	-	-	-	-	1,483.7	0.4
0803	Computer Software	12.9	121.5	565.5	1,705.8	-	-	-	-	-	2,405.7	0.6
0804	Data Format	4.3	25.0	265.1	562.0	-	-	-	-	-	856.4	0.2
0805	Distributed Computing	5.7	134.0	736.5	1,298.9	-	-	-	-	-	2,175.1	0.5
0806	Information Systems	31.4	541.3	1,866.5	4,280.1	-	-	-	-	-	6,719.3	1.6
0807	Library and Information Studies	6.3	158.2	732.5	415.8	-	-	-	-	-	1,312.8	0.3
0899	Other Information and Computing Sciences	4.2	103.5	336.0	586.5	-	-	-	-	-	1,030.2	0.2
09	**Engineering**	**125.8**	**1,323.2**	**27,371.9**	**19,545.9**	**-**	**-**	**-**	**-**	**-**	**48,366.8**	**11.7**
0901	Aerospace Engineering	2.4	38.1	326.7	397.5	-	-	-	-	-	764.7	0.2
0902	Automotive Engineering	0.0	10.1	203.7	358.4	-	-	-	-	-	572.2	0.1
0903	Biomedical Engineering	2.7	91.4	1,587.5	762.5	-	-	-	-	-	2,444.1	0.6
0904	Chemical Engineering	4.2	119.0	3,713.3	928.1	-	-	-	-	-	4,764.6	1.2
0905	Civil Engineering	27.3	177.5	3,558.6	3,444.1	-	-	-	-	-	7,207.5	1.7
0906	Electrical and Electronic Engineering	38.4	232.8	4,053.2	5,566.4	-	-	-	-	-	9,890.8	2.4
0907	Environmental Engineering	4.3	56.3	926.9	503.7	-	-	-	-	-	1,491.2	0.4
0908	Food Sciences	0.5	58.7	1,078.2	97.5	-	-	-	-	-	1,234.9	0.3
0909	Geomatic Engineering	6.5	126.2	495.7	650.2	-	-	-	-	-	1,278.6	0.3

continued

Research Outputs by Type

FoR Code	FoR Name	Book	Book Chapter	Journal Article	Conference Paper	Curated or Exhibited Event	Live Performance	Original Creative Work	Recorded/ Rendered Work	Portfolio	Total	% of Total
0910	Manufacturing Engineering	0.6	18.4	529.9	447.1	-	-	-	-	-	996.0	0.2
0911	Maritime Engineering	1.0	4.0	320.4	178.4	-	-	-	-	-	503.8	0.1
0912	Materials Engineering	12.9	125.3	5,057.8	1,122.6	-	-	-	-	-	6,318.6	1.5
0913	Mechanical Engineering	15.7	157.5	3,171.0	2,452.9	-	-	-	-	-	5,797.1	1.4
0914	Resources Engineering and Extractive Metallurgy	4.0	49.4	1,151.4	1,116.4	-	-	-	-	-	2,321.2	0.6
0915	Interdisciplinary Engineering	1.6	32.5	719.9	578.2	-	-	-	-	-	1,332.2	0.3
0999	Other Engineering	3.7	26.0	477.7	941.9	-	-	-	-	-	1,449.3	0.4
10	**Technology**	**9.9**	**228.6**	**2,411.1**	**3,405.7**	**-**	**-**	**-**	**-**	**-**	**6,055.3**	**1.5**
1001	Agricultural Biotechnology	0.0	21.4	222.6	33.0	-	-	-	-	-	277.0	0.1
1002	Environmental Biotechnology	0.5	19.7	198.6	51.1	-	-	-	-	-	269.9	0.1
1003	Industrial Biotechnology	0.0	5.1	146.3	14.7	-	-	-	-	-	166.1	0.0
1004	Medical Biotechnology	0.5	22.0	401.1	70.5	-	-	-	-	-	494.1	0.1
1005	Communications Technologies	3.9	49.9	682.9	1,496.4	-	-	-	-	-	2,233.1	0.5
1006	Computer Hardware	2.0	8.5	25.4	194.5	-	-	-	-	-	230.4	0.1
1007	Nanotechnology	2.0	41.1	591.9	231.7	-	-	-	-	-	866.7	0.2
1099	Other Technology	1.0	60.9	142.3	1,313.8	-	-	-	-	-	1,518.0	0.4
11	**Medical and Health Sciences**	**287.8**	**3,843.1**	**85,924.9**	**1,804.1**	**-**	**-**	**-**	**-**	**-**	**91,859.9**	**22.2**
1101	Medical Biochemistry and Metabolomics	0.0	33.5	1,047.0	7.4	-	-	-	-	-	1,087.9	0.3
1102	Cardiovascular Medicine and Haematology	3.0	106.9	3,238.1	43.2	-	-	-	-	-	3,391.2	0.8
1103	Clinical Sciences	54.0	899.6	22,625.6	299.1	-	-	-	-	-	23,878.3	5.8
1104	Complementary and Alternative Medicine	9.0	64.7	729.9	10.9	-	-	-	-	-	814.5	0.2
1105	Dentistry	3.0	37.6	1,550.7	27.2	-	-	-	-	-	1,618.5	0.4
1106	Human Movement and Sports Science	15.5	240.1	5,000.1	256.9	-	-	-	-	-	5,512.6	1.3
1107	Immunology	1.1	96.3	3,158.1	19.6	-	-	-	-	-	3,275.1	0.8
1108	Medical Microbiology	0.0	58.0	1,782.5	10.0	-	-	-	-	-	1,850.5	0.4
1109	Neurosciences	10.4	237.0	5,785.5	84.2	-	-	-	-	-	6,117.1	1.5

continued

Research Outputs by Type

FoR Code	FoR Name	Book	Book Chapter	Journal Article	Conference Paper	Curated or Exhibited Event	Live Performance	Original Creative Work	Recorded/ Rendered Work	Portfolio	Total	% of Total
1110	Nursing	30.4	242.7	5,051.2	103.6	-	-	-	-	-	5,427.9	1.3
1111	Nutrition and Dietetics	8.0	72.2	1,284.8	27.5	-	-	-	-	-	1,392.5	0.3
1112	Oncology and Carcinogenesis	3.3	78.6	3,725.2	21.1	-	-	-	-	-	3,828.2	0.9
1113	Ophthalmology and Optometry	2.0	58.4	2,189.4	43.9	-	-	-	-	-	2,293.7	0.6
1114	Paediatrics and Reproductive Medicine	5.3	167.3	4,853.8	28.5	-	-	-	-	-	5,054.9	1.2
1115	Pharmacology and Pharmaceutical Sciences	1.9	117.8	4,981.5	109.1	-	-	-	-	-	5,210.3	1.3
1116	Medical Physiology	2.4	46.7	1,911.8	38.3	-	-	-	-	-	1,999.2	0.5
1117	Public Health and Health Services	113.1	1,095.2	15,444.9	550.6	-	-	-	-	-	17,203.8	4.2
1199	Other Medical and Health Sciences	25.4	190.5	1,564.8	123.0	-	-	-	-	-	1,903.7	0.5
12	**Built Environment and Design**	**167.5**	**990.6**	**2,320.8**	**3,330.2**	**130.3**	**13.5**	**838.2**	**56.1**	**83.0**	**7,930.2**	**1.9**
1201	Architecture	68.9	431.5	528.1	893.8	65.2	0.0	518.9	35.5	71.3	2,613.2	0.6
1202	Building	17.2	92.8	616.3	917.2	0.0	0.0	7.0	1.0	0.0	1,651.5	0.4
1203	Design Practice and Management	25.8	122.4	287.9	602.8	61.1	13.5	268.8	18.6	11.5	1,412.4	0.3
1204	Engineering Design	0.3	1.3	21.3	56.9	0.0	0.0	0.0	0.0	0.0	79.8	0.0
1205	Urban and Regional Planning	50.8	326.7	810.4	685.8	0.0	0.0	33.0	1.0	0.2	1,907.9	0.5
1299	Other Built Environment and Design	4.5	15.9	56.8	173.7	4.0	0.0	10.5	0.0	0.0	265.4	0.1
13	**Education**	**375.1**	**3,714.9**	**9,282.4**	**5,251.6**	**0.4**	**2.3**	**62.4**	**12.5**	**2.0**	**18,703.6**	**4.5**
1301	Education Systems	75.5	639.6	1,543.6	781.8	0.0	0.0	14.5	3.0	2.0	3,060.0	0.7
1302	Curriculum and Pedagogy	112.5	1,250.4	3,117.4	1,657.2	0.4	2.3	21.3	3.5	0.0	6,165.0	1.5
1303	Specialist Studies in Education	175.0	1,657.1	4,221.2	2,241.6	0.0	0.0	24.6	4.0	0.0	8,323.5	2.0
1399	Other Education	12.1	167.8	400.2	571.0	0.0	0.0	2.0	2.0	0.0	1,155.1	0.3
14	**Economics**	**158.0**	**1,248.8**	**5,191.6**	**969.7**	**0.0**	**0.0**	**61.2**	**0.0**	**0.0**	**7,629.3**	**1.8**
1401	Economic Theory	23.9	127.2	484.9	103.0	0.0	0.0	0.0	0.0	0.0	739.0	0.2
1402	Applied Economics	112.1	926.5	3,765.3	511.9	0.0	0.0	41.9	0.0	0.0	5,357.7	1.3
1403	Econometrics	10.9	64.8	586.0	136.6	0.0	0.0	10.0	0.0	0.0	808.3	0.2
1499	Other Economics	11.1	130.3	355.4	218.2	0.0	0.0	9.3	0.0	0.0	724.3	0.2

continued

Research Outputs by Type

FoR Code	FoR Name	Book	Book Chapter	Journal Article	Conference Paper	Curated or Exhibited Event	Live Performance	Original Creative Work	Recorded/ Rendered Work	Portfolio	Total	% of Total
15	**Commerce, Management, Tourism and Services**	**337.0**	**2,564.8**	**13,338.1**	**8,345.9**	**0.0**	**0.0**	**54.8**	**0.0**	**0.0**	**24,640.6**	**6.0**
1501	Accounting, Auditing and Accountability	31.8	193.6	1,870.3	781.9	0.0	0.0	2.5	0.0	0.0	2,880.1	0.7
1502	Banking, Finance and Investment	22.8	142.8	1,712.3	341.1	0.0	0.0	2.0	0.0	0.0	2,221.0	0.5
1503	Business and Management	168.1	1,283.2	5,231.5	3,095.2	0.0	0.0	11.3	0.0	0.0	9,789.3	2.4
1504	Commercial Services	10.4	88.3	458.1	282.6	0.0	0.0	2.0	0.0	0.0	841.4	0.2
1505	Marketing	17.6	201.0	2,093.3	1,881.3	0.0	0.0	2.0	0.0	0.0	4,195.2	1.0
1506	Tourism	37.0	472.0	1,200.1	543.8	0.0	0.0	34.8	0.0	0.0	2,287.7	0.6
1507	Transportation and Freight Services	8.7	32.2	226.5	233.9	0.0	0.0	0.0	0.0	0.0	501.3	0.1
1599	Other Commerce, Management, Tourism and Services	40.6	151.7	546.0	1,186.1	0.0	0.0	0.2	0.0	0.0	1,924.6	0.5
16	**Studies in Human Society**	**897.3**	**5,936.6**	**11,391.7**	**2,174.1**	**4.0**	**1.0**	**83.9**	**6.7**	**0.0**	**20,495.3**	**5.0**
1601	Anthropology	78.4	549.5	778.3	101.0	1.0	0.0	3.0	3.7	0.0	1,514.9	0.4
1602	Criminology	70.1	417.7	746.5	156.2	0.0	0.0	10.4	0.0	0.0	1,400.9	0.3
1603	Demography	12.8	116.0	326.9	61.8	0.0	0.0	0.0	2.0	0.0	519.5	0.1
1604	Human Geography	36.6	369.0	1,123.2	154.5	2.0	1.0	5.0	0.0	0.0	1,691.3	0.4
1605	Policy and Administration	105.8	657.8	1,722.1	402.4	0.0	0.0	43.4	0.0	0.0	2,931.5	0.7
1606	Political Science	303.5	2,105.4	2,276.3	369.7	0.0	0.0	6.0	1.0	0.0	5,061.9	1.2
1607	Social Work	54.7	304.5	1,263.8	79.2	0.0	0.0	4.7	0.0	0.0	1,706.9	0.4
1608	Sociology	192.0	1,191.9	2,506.8	691.4	1.0	0.0	7.9	0.0	0.0	4,591.0	1.1
1699	Other Studies in Human Society	43.4	224.8	647.8	157.9	0.0	0.0	3.5	0.0	0.0	1,077.4	0.3
17	**Psychology and Cognitive Sciences**	**114.6**	**1,329.3**	**12,292.2**	**1,215.2**	**-**	**-**	**-**	**-**	**-**	**14,951.3**	**3.6**
1701	Psychology	86.1	1,111.7	9,706.6	851.4	-	-	-	-	-	11,755.8	2.8
1702	Cognitive Science	13.5	145.6	1,934.3	243.3	-	-	-	-	-	2,336.7	0.6
1799	Other Psychology and Cognitive Sciences	15.0	72.0	651.3	120.5	-	-	-	-	-	858.8	0.2
18	**Law and Legal Studies**	**409.7**	**2,290.4**	**6,009.6**	**362.4**	**1.0**	**0.0**	**102.4**	**0.0**	**2.0**	**9,177.5**	**2.2**
1801	Law	407.0	2,241.6	5,879.1	318.5	1.0	0.0	85.4	0.0	2.0	8,934.6	2.2
1802	Maori Law	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
1899	Other Law and Legal Studies	2.7	48.8	130.5	42.9	0.0	0.0	17.0	0.0	0.0	241.9	0.1

continued

Research Outputs by Type

FoR Code	FoR Name	Book	Book Chapter	Journal Article	Conference Paper	Curated or Exhibited Event	Live Performance	Original Creative Work	Recorded/ Rendered Work	Portfolio	Total	% of Total
19	**Studies in Creative Arts and Writing**	**288.8**	**1,527.4**	**2,394.4**	**994.6**	**598.7**	**793.2**	**4,622.9**	**667.5**	**489.5**	**12,377.0**	**3.0**
1901	Art Theory and Criticism	55.9	318.5	317.8	103.5	73.2	1.4	169.9	1.0	16.5	1,057.7	0.3
1902	Film, Television and Digital Media	57.0	308.9	552.4	221.5	102.6	16.8	457.6	266.1	20.5	2,003.4	0.5
1903	Journalism and Professional Writing	34.5	118.6	252.8	110.2	0.0	0.0	97.7	35.5	50.5	699.8	0.2
1904	Performing Arts and Creative Writing	103.7	596.9	1,082.3	414.7	111.6	756.5	1,211.0	302.9	220.0	4,799.6	1.2
1905	Visual Arts and Crafts	35.3	165.2	148.5	105.4	309.8	15.5	2,657.7	55.0	181.0	3,673.4	0.9
1999	Other Studies in Creative Arts and Writing	2.4	19.3	40.6	39.3	1.5	3.0	29.0	7.0	1.0	143.1	0.0
20	**Language, Communication and Culture**	**669.6**	**4,040.7**	**5,969.5**	**1,298.0**	**20.6**	**6.1**	**139.9**	**31.8**	**3.4**	**12,179.6**	**2.9**
2001	Communication and Media Studies	81.5	536.1	1,096.8	346.3	7.3	1.2	33.8	22.2	1.2	2,126.4	0.5
2002	Cultural Studies	173.1	1,062.0	1,680.9	242.9	9.2	1.2	36.4	3.6	1.2	3,210.5	0.8
2003	Language Studies	47.7	229.1	267.0	121.1	0.0	0.0	0.0	2.0	0.0	666.9	0.2
2004	Linguistics	134.7	915.8	1,190.6	394.5	0.5	0.0	16.5	1.5	0.0	2,654.1	0.6
2005	Literary Studies	220.3	1,237.2	1,622.2	125.6	3.6	3.7	47.2	1.5	1.0	3,262.3	0.8
2099	Other Language, Communication and Culture	12.3	60.5	112.0	67.6	0.0	0.0	6.0	1.0	0.0	259.4	0.1
21	**History and Archaeology**	**579.6**	**2,604.7**	**3,329.1**	**350.3**	**21.5**	**4.0**	**40.5**	**11.7**	**0.3**	**6,941.7**	**1.7**
2101	Archaeology	73.0	534.2	977.0	55.9	9.0	0.0	5.0	1.0	0.0	1,655.1	0.4
2102	Curatorial and Related Studies	5.1	80.6	108.6	33.6	3.0	0.0	6.0	0.0	0.0	236.9	0.1
2103	Historical Studies	486.2	1,906.2	2,149.1	236.3	9.5	4.0	26.5	10.7	0.3	4,828.8	1.2
2199	Other History and Archaeology	15.3	83.7	94.4	24.5	0.0	0.0	3.0	0.0	0.0	220.9	0.1
22	**Philosophy and Religious Studies**	**396.7**	**1,913.9**	**3,081.1**	**307.4**	**0.4**	**1.0**	**20.1**	**3.5**	**2.8**	**5,726.9**	**1.4**
2201	Applied Ethics	33.1	234.8	508.1	74.7	0.0	0.0	1.5	1.0	0.6	853.8	0.2
2202	History and Philosophy of Specific Fields	68.6	283.3	516.4	76.3	0.0	0.0	2.1	0.5	0.0	947.2	0.2
2203	Philosophy	121.4	694.7	1,129.1	70.9	0.4	1.0	8.5	0.0	0.2	2,026.2	0.5
2204	Religion and Religious Studies	168.5	664.7	857.5	59.2	0.0	0.0	4.0	2.0	1.0	1,756.9	0.4
2299	Other Philosophy and Religious Studies	5.1	36.4	70.0	26.3	0.0	0.0	4.0	0.0	1.0	142.8	0.0
Total		**5,269.9**	**39,596.5**	**286,636.8**	**72,976.8**	**776.9**	**821.1**	**6,026.3**	**789.8**	**583.0**	**413,477.1**	**100**

Research Outputs by Year

FoR Code	FoR Name	2005	2006	2007	2008	2009	2010	Total
01	**Mathematical Sciences**	**1,582.2**	**1,692.9**	**1,743.0**	**1,771.6**	**1,788.1**	**1,656.1**	**10,233.9**
0101	Pure Mathematics	413.9	463.4	439.3	479.2	466.5	445.0	2,707.3
0102	Applied Mathematics	476.7	544.3	570.2	567.2	632.1	528.6	3,319.1
0103	Numerical and Computational Mathematics	189.8	196.0	223.2	237.1	176.6	184.2	1,206.9
0104	Statistics	315.9	328.0	335.3	334.2	334.4	352.3	2,000.1
0105	Mathematical Physics	126.9	121.4	123.9	108.3	115.5	109.7	705.7
0199	Other Mathematical Sciences	59.0	39.8	51.1	45.6	63.0	36.3	294.8
02	**Physical Sciences**	**2,597.1**	**2,775.0**	**2,567.2**	**2,766.8**	**2,858.8**	**2,707.9**	**16,272.8**
0201	Astronomical and Space Sciences	711.3	793.4	749.1	817.9	784.6	730.8	4,587.1
0202	Atomic, Molecular, Nuclear, Particle and Plasma Physics	454.7	430.2	403.2	440.1	393.8	429.3	2,551.3
0203	Classical Physics	101.8	125.3	106.0	98.3	100.3	68.9	600.6
0204	Condensed Matter Physics	391.1	480.2	423.8	469.6	498.8	488.2	2,751.7
0205	Optical Physics	555.3	560.8	472.7	535.2	624.6	607.0	3,355.6
0206	Quantum Physics	250.3	252.9	264.2	242.7	300.9	237.5	1,548.5
0299	Other Physical Sciences	132.6	132.2	148.2	163.0	155.8	146.2	878.0
03	**Chemical Sciences**	**2,508.8**	**2,693.9**	**2,673.1**	**2,675.8**	**2,767.2**	**2,805.3**	**16,124.1**
0301	Analytical Chemistry	338.6	334.2	364.8	364.6	353.7	399.8	2,155.7
0302	Inorganic Chemistry	346.2	379.7	393.1	335.1	352.5	315.0	2,121.6
0303	Macromolecular and Materials Chemistry	288.1	350.6	293.0	354.2	365.3	405.4	2,056.6
0304	Medicinal and Biomolecular Chemistry	272.4	279.9	297.1	293.1	299.0	343.9	1,785.4
0305	Organic Chemistry	346.8	308.3	322.4	320.2	351.2	332.1	1,981.0
0306	Physical Chemistry (Incl. Structural)	684.8	786.6	759.1	763.2	762.9	718.6	4,475.2
0307	Theoretical and Computational Chemistry	114.1	118.6	106.9	100.9	139.0	128.3	707.8
0399	Other Chemical Sciences	117.8	136.0	136.7	144.5	143.6	162.2	840.8
04	**Earth Sciences**	**1,540.4**	**1,647.4**	**1,791.9**	**1,792.4**	**1,668.8**	**1,757.3**	**10,198.2**
0401	Atmospheric Sciences	154.3	108.1	157.0	141.5	175.4	182.7	919.0
0402	Geochemistry	194.4	233.9	213.6	229.8	242.8	227.0	1,341.5
0403	Geology	521.2	552.6	612.2	601.3	496.7	569.6	3,353.6

continued

Research Outputs by Year

FoR Code	FoR Name	2005	2006	2007	2008	2009	2010	Total
0404	Geophysics	125.0	197.7	197.7	192.2	172.1	199.8	1,084.5
0405	Oceanography	125.0	123.5	144.3	171.1	108.8	160.8	833.5
0406	Physical Geography and Environmental Geoscience	362.1	362.3	403.6	400.2	416.5	377.0	2,321.7
0499	Other Earth Sciences	58.4	69.3	63.5	56.3	56.5	40.4	344.4
05	**Environmental Sciences**	**998.3**	**1,184.2**	**1,252.1**	**1,272.8**	**1,363.8**	**1,477.8**	**7,549.0**
0501	Ecological Applications	148.9	178.1	209.1	197.0	235.3	240.6	1,209.0
0502	Environmental Science and Management	633.9	746.4	771.0	813.2	829.0	850.2	4,643.7
0503	Soil Sciences	155.5	178.7	172.9	174.8	193.3	285.5	1,160.7
0599	Other Environmental Sciences	60.0	81.0	99.1	87.8	106.2	101.5	535.6
06	**Biological Sciences**	**4,636.6**	**4,925.5**	**5,216.7**	**5,367.0**	**5,447.0**	**5,274.5**	**30,867.3**
0601	Biochemistry and Cell Biology	1,058.8	1,039.1	1,092.2	1,134.0	1,130.1	1,129.3	6,583.5
0602	Ecology	690.5	746.2	835.2	868.5	924.3	880.7	4,945.4
0603	Evolutionary Biology	282.1	310.7	310.2	342.3	344.1	348.7	1,938.1
0604	Genetics	468.0	507.1	580.2	524.4	610.9	547.3	3,237.9
0605	Microbiology	522.0	573.8	580.0	605.4	587.3	569.4	3,437.9
0606	Physiology	227.9	216.8	231.3	254.4	226.7	191.6	1,348.7
0607	Plant Biology	566.1	598.1	629.1	628.3	613.3	579.1	3,614.0
0608	Zoology	699.5	823.6	848.3	871.7	890.9	880.7	5,014.7
0699	Other Biological Sciences	121.7	110.1	110.2	138.0	119.4	147.7	747.1
07	**Agricultural and Veterinary Sciences**	**1,658.2**	**1,895.9**	**1,807.0**	**1,862.6**	**1,864.2**	**1,944.2**	**11,032.1**
0701	Agriculture, Land and Farm Management	150.7	158.9	155.1	138.8	170.7	147.1	921.3
0702	Animal Production	270.0	211.6	312.2	222.4	334.0	347.1	1,697.3
0703	Crop and Pasture Production	322.4	452.1	370.3	472.5	378.4	438.0	2,433.7
0704	Fisheries Sciences	206.5	223.0	229.4	234.9	219.1	238.4	1,351.3
0705	Forestry Sciences	178.5	173.6	191.4	195.5	164.9	190.1	1,094.0
0706	Horticultural Production	143.0	145.1	112.8	131.2	146.1	136.6	814.8
0707	Veterinary Sciences	306.0	436.0	357.3	370.3	390.3	370.4	2,230.3
0799	Other Agricultural and Veterinary Sciences	81.1	95.6	78.5	97.0	60.7	76.5	489.4

continued

Research Outputs by Year

FoR Code	FoR Name	2005	2006	2007	2008	2009	2010	Total
08	**Information and Computing Sciences**	**4,019.4**	**3,922.5**	**4,120.9**	**4,016.1**	**3,945.4**	**4,140.4**	**24,164.7**
0801	Artificial Intelligence and Image Processing	1,300.3	1,281.3	1,392.2	1,424.1	1,323.2	1,460.4	8,181.5
0802	Computation Theory and Mathematics	274.6	249.3	248.3	257.3	237.2	217.0	1,483.7
0803	Computer Software	376.2	366.9	416.2	414.4	424.7	407.3	2,405.7
0804	Data Format	154.8	149.8	159.4	136.9	119.4	136.1	856.4
0805	Distributed Computing	364.5	320.5	323.4	363.8	397.5	405.4	2,175.1
0806	Information Systems	1,143.2	1,112.4	1,172.6	1,063.4	1,107.1	1,120.6	6,719.3
0807	Library and Information Studies	208.0	269.7	217.6	179.8	188.5	249.2	1,312.8
0899	Other Information and Computing Sciences	197.8	172.6	191.2	176.4	147.8	144.4	1,030.2
09	**Engineering**	**6,976.4**	**7,482.6**	**8,114.1**	**8,189.3**	**8,523.0**	**9,081.4**	**48,366.8**
0901	Aerospace Engineering	114.4	145.9	135.7	113.3	124.2	131.2	764.7
0902	Automotive Engineering	81.8	85.7	117.8	112.4	90.3	84.2	572.2
0903	Biomedical Engineering	342.0	347.5	418.9	428.7	410.5	496.5	2,444.1
0904	Chemical Engineering	686.7	682.7	756.8	761.3	920.6	956.5	4,764.6
0905	Civil Engineering	1,046.3	1,063.3	1,143.7	1,296.5	1,254.5	1,403.2	7,207.5
0906	Electrical and Electronic Engineering	1,417.3	1,594.3	1,583.5	1,704.1	1,725.6	1,866.0	9,890.8
0907	Environmental Engineering	233.0	228.1	257.3	216.6	264.4	291.8	1,491.2
0908	Food Sciences	137.9	173.1	237.1	223.7	239.6	223.5	1,234.9
0909	Geomatic Engineering	180.9	184.2	217.2	231.5	261.0	203.8	1,278.6
0910	Manufacturing Engineering	145.5	163.6	176.2	172.5	168.9	169.3	996.0
0911	Maritime Engineering	71.7	66.5	111.0	85.6	83.6	85.4	503.8
0912	Materials Engineering	905.3	1,001.5	1,040.2	1,052.7	1,108.5	1,210.4	6,318.6
0913	Mechanical Engineering	849.2	892.2	1,042.1	1,003.2	982.2	1,028.2	5,797.1
0914	Resources Engineering and Extractive Metallurgy	353.7	392.0	390.8	363.5	385.6	435.6	2,321.2
0915	Interdisciplinary Engineering	206.9	197.7	225.5	191.8	250.8	259.5	1,332.2
0999	Other Engineering	203.8	264.3	260.3	231.9	252.7	236.3	1,449.3

continued

Research Outputs by Year

FoR Code	FoR Name	2005	2006	2007	2008	2009	2010	Total
10	**Technology**	**979.6**	**1,079.6**	**1,069.1**	**1,027.0**	**934.9**	**965.1**	**6,055.3**
1001	Agricultural Biotechnology	43.3	47.0	50.8	55.3	42.6	38.0	277.0
1002	Environmental Biotechnology	43.4	41.7	46.8	58.0	32.7	47.3	269.9
1003	Industrial Biotechnology	29.7	22.3	25.9	30.8	30.2	27.2	166.1
1004	Medical Biotechnology	59.7	76.8	93.2	83.7	86.8	93.9	494.1
1005	Communications Technologies	408.0	437.5	404.9	355.7	322.5	304.5	2,233.1
1006	Computer Hardware	48.6	32.5	41.4	44.9	27.2	35.8	230.4
1007	Nanotechnology	101.4	152.3	133.0	166.4	140.9	172.7	866.7
1099	Other Technology	245.5	269.5	273.1	232.2	252.0	245.7	1,518.0
11	**Medical and Health Sciences**	**12,910.0**	**14,449.9**	**15,024.0**	**15,999.5**	**16,375.5**	**17,101.0**	**91,859.9**
1101	Medical Biochemistry and Metabolomics	162.3	178.2	171.9	200.7	181.3	193.5	1,087.9
1102	Cardiovascular Medicine and Haematology	482.7	535.9	548.5	563.8	609.5	650.8	3,391.2
1103	Clinical Sciences	3,515.7	3,840.6	3,945.4	4,181.8	4,180.6	4,214.2	23,878.3
1104	Complementary and Alternative Medicine	90.2	116.1	122.5	159.8	163.3	162.6	814.5
1105	Dentistry	221.4	271.7	315.8	245.4	281.6	282.6	1,618.5
1106	Human Movement and Sports Science	699.8	808.6	899.5	982.0	1,004.1	1,118.6	5,512.6
1107	Immunology	467.7	539.3	554.9	585.4	608.3	519.5	3,275.1
1108	Medical Microbiology	235.8	310.2	301.6	304.4	341.6	356.9	1,850.5
1109	Neurosciences	900.7	964.8	999.2	1,032.7	1,085.6	1,134.1	6,117.1
1110	Nursing	719.4	829.9	914.7	943.7	966.8	1,053.4	5,427.9
1111	Nutrition and Dietetics	148.5	202.3	222.6	240.6	274.1	304.4	1,392.5
1112	Oncology and Carcinogenesis	532.2	606.5	553.6	672.1	671.1	792.7	3,828.2
1113	Ophthalmology and Optometry	310.2	364.0	362.6	392.5	430.1	434.3	2,293.7
1114	Paediatrics and Reproductive Medicine	792.8	803.6	861.9	838.8	882.9	874.9	5,054.9
1115	Pharmacology and Pharmaceutical Sciences	757.1	926.2	842.1	906.8	871.1	907.0	5,210.3
1116	Medical Physiology	320.8	385.8	364.5	340.2	297.5	290.4	1,999.2
1117	Public Health and Health Services	2,302.5	2,513.2	2,747.1	3,060.3	3,159.4	3,421.3	17,203.8
1199	Other Medical and Health Sciences	250.2	253.0	295.6	348.5	366.6	389.8	1,903.7

continued

Research Outputs by Year

FoR Code	FoR Name	2005	2006	2007	2008	2009	2010	Total
12	**Built Environment and Design**	**999.8**	**1,134.3**	**1,347.9**	**1,318.8**	**1,412.0**	**1,634.4**	**7,847.2**
1201	Architecture	350.0	407.9	421.6	433.7	418.4	510.3	2,541.9
1202	Building	203.0	261.3	273.0	322.0	284.4	307.8	1,651.5
1203	Design Practice and Management	184.2	192.8	273.3	212.3	271.1	267.2	1,400.9
1204	Engineering Design	16.0	6.0	11.3	11.0	21.2	14.3	79.8
1205	Urban and Regional Planning	223.5	224.7	328.3	302.6	366.9	461.7	1,907.7
1299	Other Built Environment and Design	23.1	41.6	40.4	37.2	50.0	73.1	265.4
13	**Education**	**2,713.8**	**2,796.7**	**3,072.7**	**3,261.6**	**3,373.3**	**3,483.5**	**18,701.6**
1301	Education Systems	448.8	397.1	469.1	527.7	625.4	589.9	3,058.0
1302	Curriculum and Pedagogy	840.4	919.0	965.9	1,090.2	1,176.3	1,173.2	6,165.0
1303	Specialist Studies in Education	1,267.8	1,331.6	1,443.2	1,434.1	1,349.1	1,497.7	8,323.5
1399	Other Education	156.8	149.0	194.5	209.6	222.5	222.7	1,155.1
14	**Economics**	**1,154.4**	**1,286.7**	**1,242.5**	**1,278.0**	**1,323.5**	**1,344.2**	**7,629.3**
1401	Economic Theory	131.3	120.6	128.7	103.8	126.8	127.8	739.0
1402	Applied Economics	755.7	915.0	847.8	893.8	935.9	1,009.5	5,357.7
1403	Econometrics	153.9	127.3	121.5	159.3	138.9	107.4	808.3
1499	Other Economics	113.5	123.8	144.5	121.1	121.9	99.5	724.3
15	**Commerce, Management, Tourism and Services**	**3,690.8**	**3,925.1**	**4,054.2**	**4,339.2**	**4,354.8**	**4,276.5**	**24,640.6**
1501	Accounting, Auditing and Accountability	388.4	408.2	478.3	544.9	508.5	551.8	2,880.1
1502	Banking, Finance and Investment	319.3	331.5	358.3	426.6	366.3	419.0	2,221.0
1503	Business and Management	1,533.3	1,589.4	1,650.9	1,656.7	1,762.0	1,597.0	9,789.3
1504	Commercial Services	124.5	150.7	123.3	160.4	158.6	123.9	841.4
1505	Marketing	625.2	653.0	660.3	733.9	781.9	740.9	4,195.2
1506	Tourism	319.9	379.0	345.8	411.1	398.6	433.3	2,287.7
1507	Transportation and Freight Services	84.4	75.3	91.0	66.4	70.6	113.6	501.3
1599	Other Commerce, Management, Tourism and Services	295.8	338.0	346.3	339.2	308.3	297.0	1,924.6

continued

Research Outputs by Year

FoR Code	FoR Name	2005	2006	2007	2008	2009	2010	Total
16	**Studies in Human Society**	**2,898.3**	**3,235.9**	**3,425.3**	**3,592.8**	**3,707.7**	**3,635.3**	**20,495.3**
1601	Anthropology	200.0	232.4	223.7	285.6	281.0	292.2	1,514.9
1602	Criminology	185.8	224.9	208.2	265.2	264.3	252.5	1,400.9
1603	Demography	75.9	92.5	104.1	82.2	88.6	76.2	519.5
1604	Human Geography	257.1	278.8	289.1	266.0	304.9	295.4	1,691.3
1605	Policy and Administration	421.5	485.8	473.5	482.2	514.9	553.6	2,931.5
1606	Political Science	712.5	795.6	856.4	898.0	917.8	881.6	5,061.9
1607	Social Work	240.2	247.3	283.4	283.8	332.5	319.7	1,706.9
1608	Sociology	659.9	713.7	791.1	825.2	822.3	778.8	4,591.0
1699	Other Studies in Human Society	145.4	164.9	195.8	204.6	181.4	185.3	1,077.4
17	**Psychology and Cognitive Sciences**	**2,003.9**	**2,411.8**	**2,434.4**	**2,608.9**	**2,730.2**	**2,762.1**	**14,951.3**
1701	Psychology	1,584.2	1,908.1	1,964.8	2,081.9	2,128.7	2,088.1	11,755.8
1702	Cognitive Science	300.1	357.4	329.4	388.4	449.5	511.9	2,336.7
1799	Other Psychology and Cognitive Sciences	119.6	146.3	140.2	138.6	152.0	162.1	858.8
18	**Law and Legal Studies**	**1,348.1**	**1,427.8**	**1,560.9**	**1,574.7**	**1,631.9**	**1,632.1**	**9,175.5**
1801	Law	1,306.7	1,390.2	1,514.4	1,530.0	1,596.8	1,594.5	8,932.6
1802	Maori Law	0.0	0.0	0.0	1.0	0.0	0.0	1.0
1899	Other Law and Legal Studies	41.4	37.6	46.5	43.7	35.1	37.6	241.9
19	**Studies in Creative Arts and Writing**	**1,696.8**	**1,881.9**	**1,880.8**	**2,108.9**	**2,113.7**	**2,205.4**	**11,887.5**
1901	Art Theory and Criticism	160.5	155.5	175.4	182.7	184.9	182.2	1,041.2
1902	Film, Television and Digital Media	280.2	275.3	363.6	372.8	355.7	335.3	1,982.9
1903	Journalism and Professional Writing	115.6	101.0	87.0	89.8	122.2	133.7	649.3
1904	Performing Arts and Creative Writing	629.3	760.4	715.7	789.9	806.2	878.1	4,579.6
1905	Visual Arts and Crafts	491.1	567.2	515.7	644.8	620.0	653.6	3,492.4
1999	Other Studies in Creative Arts and Writing	20.1	22.5	23.4	28.9	24.7	22.5	142.1
20	**Language, Communication and Culture**	**1,719.7**	**1,782.4**	**2,084.0**	**2,112.0**	**2,231.5**	**2,246.6**	**12,176.2**
2001	Communication and Media Studies	262.4	285.0	351.5	402.6	410.3	413.4	2,125.2
2002	Cultural Studies	446.3	470.4	526.7	598.8	588.8	578.3	3,209.3

continued

Research Outputs by Year

FoR Code	FoR Name	2005	2006	2007	2008	2009	2010	Total
2003	Language Studies	99.6	98.0	100.0	118.7	113.8	136.8	666.9
2004	Linguistics	380.9	390.1	489.1	463.3	446.4	484.3	2,654.1
2005	Literary Studies	490.0	493.5	576.4	491.0	631.3	579.1	3,261.3
2099	Other Language, Communication and Culture	40.5	45.4	40.3	37.6	40.9	54.7	259.4
21	**History and Archaeology**	**1,024.0**	**1,075.1**	**1,145.2**	**1,185.9**	**1,190.5**	**1,320.7**	**6,941.4**
2101	Archaeology	217.3	255.9	271.9	294.3	298.4	317.3	1,655.1
2102	Curatorial and Related Studies	28.3	43.4	45.1	33.2	38.9	48.0	236.9
2103	Historical Studies	740.6	722.4	794.9	829.9	819.8	920.9	4,828.5
2199	Other History and Archaeology	37.8	53.4	33.3	28.5	33.4	34.5	220.9
22	**Philosophy and Religious Studies**	**792.9**	**893.2**	**940.0**	**926.9**	**1,093.4**	**1,077.7**	**5,724.1**
2201	Applied Ethics	127.0	126.8	121.9	137.3	181.0	159.2	853.2
2202	History and Philosophy of Specific Fields	141.9	132.5	167.6	155.2	183.2	166.8	947.2
2203	Philosophy	277.8	345.5	335.4	318.0	376.4	372.9	2,026.0
2204	Religion and Religious Studies	229.4	268.2	293.0	288.3	323.1	353.9	1,755.9
2299	Other Philosophy and Religious Studies	16.8	20.2	22.1	28.1	29.7	24.9	141.8
Total*		**60,449.5**	**65,600.3**	**68,567.0**	**71,048.6**	**72,699.2**	**74,529.5**	**412,894.1**

* 'Total Research Outputs' by year does not include the total of 'portfolios' since portfolios do not report on year in the submitted data.

HERDC Category 1—Australian Competitive Grants Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
01	**Mathematical Sciences**	**1,137,779**	**17,200,970**	**24,925,927**	**27,059,640**	**30,410,740**	**82,396,307**
0101	Pure Mathematics	645,282	4,765,023	6,440,896	6,982,162	8,424,671	21,847,729
0102	Applied Mathematics	664,925	4,343,019	8,081,870	8,792,456	9,691,866	26,566,192
0103	Numerical and Computational Mathematics	501,143	1,015,221	1,546,096	1,505,591	1,827,672	4,879,359
0104	Statistics	598,355	4,508,279	5,790,515	6,505,163	6,691,037	18,986,715
0105	Mathematical Physics	304,167	4,680,623	2,947,046	3,039,993	3,561,808	9,548,847
0199	Other Mathematical Sciences	567,465	567,465	119,504	234,275	213,686	567,465
02	**Physical Sciences**	**2,146,303**	**30,649,040**	**49,416,825**	**52,142,742**	**54,165,020**	**155,724,587**
0201	Astronomical and Space Sciences	1,067,315	4,874,191	8,191,311	10,321,933	10,594,926	29,108,170
0202	Atomic, Molecular, Nuclear, Particle and Plasma Physics	533,868	6,193,596	6,437,260	6,569,800	6,878,728	19,885,788
0203	Classical Physics	533,436	2,031,820	1,445,598	1,198,403	1,307,176	3,951,177
0204	Condensed Matter Physics	1,258,459	9,703,708	10,420,541	10,706,620	10,258,463	31,385,624
0205	Optical Physics	2,092,089	6,072,431	11,525,087	10,814,684	12,223,027	34,562,798
0206	Quantum Physics	2,115,347	7,267,615	8,467,057	8,895,155	9,523,453	26,885,665
0299	Other Physical Sciences	168,943	4,140,691	2,929,971	3,636,147	3,379,247	9,945,365
03	**Chemical Sciences**	**1,827,985**	**26,269,207**	**51,238,324**	**50,575,058**	**53,428,753**	**155,242,135**
0301	Analytical Chemistry	260,203	4,824,920	4,920,180	6,039,624	6,019,752	16,979,556
0302	Inorganic Chemistry	594,841	4,280,299	4,949,718	5,341,071	5,393,850	15,684,639
0303	Macromolecular and Materials Chemistry	1,013,792	9,814,117	8,856,612	8,923,644	10,398,175	28,178,431
0304	Medicinal and Biomolecular Chemistry	1,083,002	8,670,714	7,013,214	7,723,500	8,600,432	23,337,146
0305	Organic Chemistry	430,110	3,823,178	6,106,006	5,243,477	5,494,185	16,843,668
0306	Physical Chemistry (Incl. Structural)	848,880	6,415,920	15,515,728	13,828,120	14,213,384	43,557,232
0307	Theoretical and Computational Chemistry	113,006	2,783,604	2,982,879	2,780,773	2,497,003	8,260,655
0399	Other Chemical Sciences	33,846	1,379,246	893,987	694,849	811,972	2,400,808
04	**Earth Sciences**	**1,616,615**	**13,789,065**	**27,324,215**	**28,512,952**	**33,226,780**	**89,063,947**
0401	Atmospheric Sciences	230,026	2,477,393	2,297,618	2,558,677	3,133,826	7,990,121
0402	Geochemistry	651,553	3,304,385	4,789,933	4,758,927	5,049,025	14,597,885

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 1—Australian Competitive Grants Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
0403	Geology	1,145,720	9,254,834	10,142,277	10,716,330	10,351,065	31,209,672
0404	Geophysics	560,217	1,496,751	1,870,251	1,833,079	1,941,869	5,645,199
0405	Oceanography	183,542	2,966,456	4,101,506	3,042,799	3,545,961	10,690,266
0406	Physical Geography and Environmental Geoscience	469,485	3,332,424	4,009,717	5,457,859	9,061,945	18,529,521
0499	Other Earth Sciences	197,646	203,550	112,913	145,281	143,089	401,283
05	**Environmental Sciences**	**1,056,722**	**9,860,053**	**27,568,721**	**26,792,464**	**29,759,790**	**84,120,975**
0501	Ecological Applications	205,669	3,363,300	3,080,303	3,703,655	5,015,765	11,799,723
0502	Environmental Science and Management	759,343	8,032,755	20,207,143	19,061,716	19,863,906	59,132,765
0503	Soil Sciences	236,340	3,928,697	4,281,275	3,852,191	4,805,129	12,938,595
0599	Other Environmental Sciences	24,381	194,595	0	174,902	74,990	249,892
06	**Biological Sciences**	**3,701,431**	**105,545,032**	**168,110,007**	**173,406,425**	**187,843,074**	**529,359,506**
0601	Biochemistry and Cell Biology	1,171,073	46,134,650	65,656,152	73,114,217	78,110,063	216,880,432
0602	Ecology	2,004,152	6,097,072	16,733,585	16,038,348	17,022,345	49,794,278
0603	Evolutionary Biology	818,173	3,785,943	6,128,595	6,036,591	7,780,578	19,945,764
0604	Genetics	510,682	18,937,777	32,647,680	32,785,064	33,715,089	99,147,833
0605	Microbiology	467,813	9,922,615	13,360,185	14,986,174	16,691,998	45,038,357
0606	Physiology	78,029	5,589,570	6,951,026	5,275,136	5,559,127	17,785,289
0607	Plant Biology	605,822	11,808,553	16,921,581	16,084,611	20,023,812	53,030,004
0608	Zoology	448,825	10,997,509	8,994,597	7,966,719	7,557,447	24,518,763
0699	Other Biological Sciences	50,315	955,045	716,606	1,119,565	1,382,615	3,218,786
07	**Agricultural and Veterinary Sciences**	**1,192,055**	**38,495,211**	**71,801,112**	**61,371,349**	**77,722,494**	**210,894,955**
0701	Agriculture, Land and Farm Management	87,379	2,325,470	3,251,337	3,240,455	5,230,944	11,722,736
0702	Animal Production	556,777	5,528,290	9,786,480	6,430,036	7,570,642	23,787,158
0703	Crop and Pasture Production	658,536	32,536,297	32,854,816	28,345,972	37,822,010	99,022,798
0704	Fisheries Sciences	275,332	7,441,112	7,055,194	6,385,977	7,944,090	21,385,261
0705	Forestry Sciences	171,302	2,869,190	4,074,217	2,912,530	6,244,876	13,231,623

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 1—Australian Competitive Grants Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
0706	Horticultural Production	524,878	7,693,258	7,539,784	8,987,481	8,901,041	25,428,306
0707	Veterinary Sciences	179,924	7,012,766	6,864,079	4,738,961	3,775,257	15,378,297
0799	Other Agricultural and Veterinary Sciences	54,686	269,402	375,205	329,937	233,634	938,776
08	**Information and Computing Sciences**	**1,677,157**	**8,845,416**	**25,267,187**	**26,050,430**	**29,104,446**	**80,422,063**
0801	Artificial Intelligence and Image Processing	725,409	5,074,581	11,142,443	10,923,141	12,850,183	34,915,767
0802	Computation Theory and Mathematics	418,680	1,252,330	1,633,361	1,526,456	1,489,071	4,648,888
0803	Computer Software	177,235	1,385,275	2,310,181	2,673,993	2,923,096	7,907,270
0804	Data Format	267,445	1,013,028	1,254,779	1,408,549	1,423,673	4,087,001
0805	Distributed Computing	298,362	1,881,045	1,212,439	1,645,963	2,973,573	5,831,975
0806	Information Systems	268,157	2,734,314	6,519,215	6,516,704	6,318,100	19,354,019
0807	Library and Information Studies	154,183	1,243,162	1,187,859	1,355,624	1,126,750	3,670,233
0899	Other Information and Computing Sciences	6,910	6,910	6,910	0	0	6,910
09	**Engineering**	**4,107,570**	**55,876,085**	**98,730,560**	**103,778,706**	**122,957,874**	**325,467,140**
0901	Aerospace Engineering	161,633	939,123	579,491	574,130	1,073,580	2,227,201
0902	Automotive Engineering	97,923	290,253	188,710	264,001	413,669	866,380
0903	Biomedical Engineering	279,923	8,945,282	5,900,561	5,798,486	14,307,160	26,006,207
0904	Chemical Engineering	625,588	11,718,657	10,917,311	11,604,200	12,016,090	34,537,601
0905	Civil Engineering	757,690	7,792,786	10,456,083	11,668,698	15,576,628	37,701,409
0906	Electrical and Electronic Engineering	1,379,865	10,658,934	16,722,010	15,853,565	18,140,754	50,716,329
0907	Environmental Engineering	486,506	3,864,892	3,249,812	3,996,082	4,670,226	11,916,120
0908	Food Sciences	220,097	4,450,940	2,674,576	2,756,448	2,811,487	8,242,511
0909	Geomatic Engineering	145,878	1,853,443	1,509,744	1,921,251	1,771,123	5,202,118
0910	Manufacturing Engineering	319,675	1,678,278	2,545,897	1,965,601	2,116,260	6,627,758
0911	Maritime Engineering	174,020	977,273	793,724	929,494	1,423,099	3,146,317
0912	Materials Engineering	1,117,775	11,361,896	18,289,513	20,627,581	20,379,446	59,296,540
0913	Mechanical Engineering	759,923	5,380,702	8,603,424	8,661,136	8,848,531	26,113,091
0914	Resources Engineering and Extractive Metallurgy	571,136	9,127,705	10,133,876	11,357,011	13,048,558	34,539,445

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 1—Australian Competitive Grants Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
0915	Interdisciplinary Engineering	90,703	5,529,784	4,897,461	4,412,077	4,867,983	14,177,521
0999	Other Engineering	164,020	3,317,836	1,268,367	1,388,945	1,493,280	4,150,592
10	**Technology**	**335,286**	**10,738,353**	**13,772,539**	**17,724,731**	**19,738,149**	**51,235,419**
1001	Agricultural Biotechnology	308,752	1,058,684	869,657	1,541,603	1,392,372	3,803,632
1002	Environmental Biotechnology	40,362	2,200,638	883,723	759,170	1,004,299	2,647,192
1003	Industrial Biotechnology	100,194	2,177,779	550,446	977,950	1,490,987	3,019,383
1004	Medical Biotechnology	142,640	3,473,002	2,014,600	3,414,517	3,984,650	9,413,767
1005	Communications Technologies	117,256	5,200,952	4,935,043	6,163,736	5,658,674	16,757,453
1006	Computer Hardware	77,363	418,774	315,216	176,192	83,592	575,000
1007	Nanotechnology	454,997	2,860,070	4,203,854	4,676,003	6,098,056	14,977,913
1099	Other Technology	20,539	25,519	0	15,560	25,519	41,079
11	**Medical and Health Sciences**	**5,074,665**	**270,694,834**	**441,565,312**	**499,092,690**	**511,029,070**	**1,451,687,072**
1101	Medical Biochemistry and Metabolomics	92,719	5,671,942	3,782,341	4,477,879	7,142,306	15,402,526
1102	Cardiovascular Medicine and Haematology	1,424,270	31,125,566	30,901,975	36,586,608	36,672,734	104,161,317
1103	Clinical Sciences	1,320,045	58,995,141	94,856,376	102,384,687	102,142,998	299,384,061
1104	Complementary and Alternative Medicine	122,943	835,180	106,120	1,163,069	970,655	2,239,844
1105	Dentistry	2,245,872	6,757,113	6,986,793	4,892,944	4,841,956	16,721,693
1106	Human Movement and Sports Science	551,861	5,239,510	6,854,424	7,065,973	6,177,210	20,097,607
1107	Immunology	2,097,260	40,095,639	45,360,277	46,996,263	47,045,067	139,401,607
1108	Medical Microbiology	1,563,564	11,930,470	17,177,662	17,807,595	18,212,351	53,197,608
1109	Neurosciences	4,111,631	59,479,648	51,645,111	58,935,204	63,606,453	174,186,768
1110	Nursing	284,512	3,006,196	4,691,941	5,262,799	4,973,332	14,928,072
1111	Nutrition and Dietetics	711,376	4,617,226	4,147,817	5,181,029	7,111,777	16,440,623
1112	Oncology and Carcinogenesis	3,278,730	27,573,641	29,868,629	38,289,813	38,020,579	106,179,021
1113	Ophthalmology and Optometry	257,842	5,046,129	5,614,178	4,538,332	6,640,521	16,793,031
1114	Paediatrics and Reproductive Medicine	4,592,001	32,498,917	24,626,781	27,490,743	26,922,530	79,040,054
1115	Pharmacology and Pharmaceutical Sciences	1,139,026	14,901,898	16,368,267	18,727,983	18,713,142	53,809,392

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 1—Australian Competitive Grants Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
1116	Medical Physiology	1,757,041	7,406,650	10,410,027	12,440,614	11,319,663	34,170,304
1117	Public Health and Health Services	3,885,770	47,988,956	85,603,500	103,882,315	108,540,707	298,026,522
1199	Other Medical and Health Sciences	116,156	3,518,366	2,563,093	2,968,840	1,975,089	7,507,022
12	**Built Environment and Design**	**547,525**	**4,092,668**	**7,210,949**	**7,577,079**	**9,194,123**	**23,982,151**
1201	Architecture	240,705	1,898,530	2,425,159	2,904,291	2,807,040	8,136,490
1202	Building	208,260	741,725	839,691	914,618	1,113,026	2,867,335
1203	Design Practice and Management	38,763	580,395	962,781	490,249	487,379	1,940,409
1204	Engineering Design	48,082	65,541	25,149	-25	71,040	96,164
1205	Urban and Regional Planning	317,528	1,480,324	2,883,557	3,122,509	4,478,110	10,484,176
1299	Other Built Environment and Design	67,778	140,164	74,612	145,437	237,528	457,577
13	**Education**	**599,504**	**3,945,893**	**10,519,707**	**11,293,786**	**12,473,313**	**34,286,806**
1301	Education Systems	159,092	1,149,023	1,657,164	2,022,780	2,536,093	6,216,037
1302	Curriculum and Pedagogy	194,480	1,332,312	2,311,687	2,873,305	3,308,198	8,493,190
1303	Specialist Studies in Education	253,199	2,396,440	6,339,962	6,236,417	6,516,536	19,092,915
1399	Other Education	48,341	305,817	210,894	161,284	112,486	484,664
14	**Economics**	**696,392**	**12,195,175**	**20,685,603**	**21,626,937**	**22,473,668**	**64,786,208**
1401	Economic Theory	55,520	1,508,087	1,085,611	796,132	1,081,805	2,963,548
1402	Applied Economics	696,392	10,876,144	17,859,145	18,354,559	18,131,234	54,344,938
1403	Econometrics	515,472	2,111,688	1,716,426	2,476,246	3,260,629	7,453,301
1499	Other Economics	12,211	21,299	24,421	0	0	24,421
15	**Commerce, Management, Tourism and Services**	**473,716**	**4,119,382**	**11,818,373**	**12,064,828**	**12,004,062**	**35,887,263**
1501	Accounting, Auditing and Accountability	127,000	722,865	1,122,630	868,449	747,515	2,738,594
1502	Banking, Finance and Investment	149,686	1,433,347	2,063,783	1,929,499	1,853,304	5,846,586
1503	Business and Management	362,099	2,203,670	5,492,596	6,572,013	6,467,994	18,532,603
1504	Commercial Services	44,144	346,277	212,851	203,182	241,290	657,323

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 1—Australian Competitive Grants Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
1505	Marketing	194,959	1,245,824	1,618,127	1,370,754	1,570,682	4,559,563
1506	Tourism	119,527	1,007,020	725,755	697,410	708,131	2,131,296
1507	Transportation and Freight Services	143,913	890,469	511,450	379,743	355,524	1,246,717
1599	Other Commerce, Management, Tourism and Services	174,581	174,581	71,181	43,778	59,622	174,581
16	**Studies in Human Society**	**1,402,023**	**19,072,052**	**33,393,671**	**39,686,901**	**44,050,976**	**117,131,548**
1601	Anthropology	419,890	3,734,129	3,074,363	3,381,370	3,466,872	9,922,605
1602	Criminology	162,488	2,962,618	2,801,873	3,618,139	3,795,972	10,215,984
1603	Demography	166,497	2,018,317	1,559,306	1,275,635	1,760,284	4,595,225
1604	Human Geography	230,076	1,495,278	2,595,075	2,756,275	4,017,210	9,368,560
1605	Policy and Administration	345,519	4,674,826	6,341,767	6,746,735	8,554,724	21,643,226
1606	Political Science	319,187	5,209,680	5,850,584	8,217,605	7,705,305	21,773,494
1607	Social Work	130,606	1,334,587	1,413,277	2,104,122	2,011,704	5,529,103
1608	Sociology	412,888	6,241,259	8,700,851	9,479,738	10,772,914	28,953,503
1699	Other Studies in Human Society	414,969	1,916,958	1,056,575	2,107,282	1,965,991	5,129,848
17	**Psychology and Cognitive Sciences**	**2,375,227**	**16,273,753**	**30,610,622**	**33,819,734**	**35,248,836**	**99,679,192**
1701	Psychology	2,157,231	16,270,453	25,987,419	29,038,179	31,309,347	86,334,945
1702	Cognitive Science	260,598	4,987,021	4,623,203	4,763,086	3,919,526	13,305,815
1799	Other Psychology and Cognitive Sciences	19,216	35,132	0	18,469	19,963	38,432
18	**Law and Legal Studies**	**352,588**	**6,153,902**	**8,159,586**	**9,737,056**	**10,982,403**	**28,879,045**
1801	Law	352,587	6,153,902	8,153,086	9,737,056	10,922,229	28,812,371
1802	Maori Law	0	0	0	0	0	0
1899	Other Law and Legal Studies	18,174	42,000	6,500	0	60,174	66,674
19	**Studies in Creative Arts and Writing**	**286,129**	**3,374,071**	**4,882,955**	**5,712,956**	**5,550,238**	**16,146,149**
1901	Art Theory and Criticism	249,799	681,384	714,996	875,666	924,133	2,514,795
1902	Film, Television and Digital Media	149,443	1,452,740	1,393,967	1,727,615	1,753,193	4,874,775
1903	Journalism and Professional Writing	73,892	215,629	336,516	366,900	337,735	1,041,151

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 1—Australian Competitive Grants Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
1904	Performing Arts and Creative Writing	258,019	846,948	1,917,874	2,074,559	1,904,938	5,897,371
1905	Visual Arts and Crafts	96,910	685,567	490,047	668,216	528,704	1,686,967
1999	Other Studies in Creative Arts and Writing	65,544	109,907	29,555	0	101,535	131,090
20	**Language, Communication and Culture**	**624,482**	**5,058,454**	**15,331,006**	**15,737,568**	**14,322,683**	**45,391,257**
2001	Communication and Media Studies	305,964	3,748,203	3,767,516	4,212,824	3,671,555	11,651,895
2002	Cultural Studies	250,814	1,616,234	5,271,896	4,579,879	4,414,739	14,266,514
2003	Language Studies	56,414	375,380	276,620	280,387	338,762	895,769
2004	Linguistics	206,854	1,213,802	2,485,363	2,795,922	2,311,485	7,592,770
2005	Literary Studies	248,491	3,109,093	3,503,530	3,785,932	3,520,491	10,809,953
2099	Other Language, Communication and Culture	24,920	95,868	26,081	82,624	65,651	174,356
21	**History and Archaeology**	**695,598**	**9,715,458**	**15,531,011**	**16,015,192**	**16,545,223**	**48,091,426**
2101	Archaeology	502,340	4,612,798	5,056,093	5,817,223	5,921,511	16,794,827
2102	Curatorial and Related Studies	162,985	544,689	576,839	633,381	831,334	2,041,554
2103	Historical Studies	456,273	4,557,971	9,898,079	9,564,588	9,792,378	29,255,045
2199	Other History and Archaeology	0	0	0	0	0	0
22	**Philosophy and Religious Studies**	**461,565**	**6,429,210**	**8,018,686**	**7,479,766**	**7,111,128**	**22,609,580**
2201	Applied Ethics	80,600	1,092,896	1,336,556	1,036,489	1,184,783	3,557,828
2202	History and Philosophy of Specific Fields	145,002	2,919,369	1,439,829	1,985,390	1,984,077	5,409,296
2203	Philosophy	505,298	2,635,930	4,343,798	3,523,642	3,189,763	11,057,203
2204	Religion and Religious Studies	138,496	493,143	898,503	934,245	752,505	2,585,253
2299	Other Philosophy and Religious Studies	0	0	0	0	0	0
Total				**1,165,882,898**	**1,247,258,990**	**1,339,342,843**	**3,752,484,731**

* Median and Maximum Income is based on total research income over the three year period.

HERDC Category 2—Other Public Sector Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
01	**Mathematical Sciences**	**298,931**	**6,128,956**	**6,331,835**	**6,763,730**	**9,807,401**	**22,902,966**
0101	Pure Mathematics	28,707	1,200,545	433,858	162,640	2,111,709	2,708,207
0102	Applied Mathematics	98,770	2,790,312	1,483,224	3,960,746	3,215,698	8,659,668
0103	Numerical and Computational Mathematics	37,012	1,235,256	988,700	364,200	268,155	1,621,055
0104	Statistics	193,965	980,481	1,216,732	1,160,323	2,149,752	4,526,807
0105	Mathematical Physics	103,194	3,250,279	2,209,321	1,111,335	2,050,116	5,370,772
0199	Other Mathematical Sciences	8,228	11,971	0	4,486	11,971	16,457
02	**Physical Sciences**	**358,250**	**13,591,494**	**11,411,358**	**13,509,380**	**25,556,173**	**50,476,911**
0201	Astronomical and Space Sciences	167,588	4,265,619	1,740,752	4,451,461	7,661,215	13,853,428
0202	Atomic, Molecular, Nuclear, Particle and Plasma Physics	91,398	4,370,066	630,789	547,929	4,307,961	5,486,679
0203	Classical Physics	208,127	1,037,114	1,052,478	935,924	576,567	2,564,969
0204	Condensed Matter Physics	259,022	2,350,366	2,077,551	2,248,159	5,066,720	9,392,430
0205	Optical Physics	238,179	4,095,797	3,145,478	3,241,750	5,529,834	11,917,062
0206	Quantum Physics	328,062	1,000,856	1,154,214	1,443,311	981,563	3,579,088
0299	Other Physical Sciences	46,021	1,713,820	1,610,096	640,846	1,432,313	3,683,255
03	**Chemical Sciences**	**440,768**	**7,516,266**	**12,153,680**	**11,665,240**	**18,753,942**	**42,572,862**
0301	Analytical Chemistry	60,441	2,770,580	2,785,972	2,416,151	1,803,531	7,005,654
0302	Inorganic Chemistry	28,577	1,812,064	302,537	266,343	1,991,167	2,560,047
0303	Macromolecular and Materials Chemistry	100,061	2,695,288	3,150,999	1,893,171	2,345,614	7,389,784
0304	Medicinal and Biomolecular Chemistry	65,991	1,384,507	1,281,023	1,171,005	1,348,478	3,800,506
0305	Organic Chemistry	55,185	2,436,642	501,346	512,984	3,253,450	4,267,780
0306	Physical Chemistry (Incl. Structural)	196,682	2,845,706	3,479,391	4,329,338	5,402,868	13,211,597
0307	Theoretical and Computational Chemistry	164,620	1,697,845	460,038	780,863	1,994,108	3,235,009
0399	Other Chemical Sciences	51,099	409,639	192,374	295,385	614,726	1,102,485
04	**Earth Sciences**	**1,122,421**	**8,514,994**	**17,852,224**	**18,669,312**	**27,708,432**	**64,229,968**
0401	Atmospheric Sciences	53,822	1,255,612	1,284,322	1,138,219	1,230,883	3,653,424
0402	Geochemistry	282,785	2,921,489	1,447,923	2,282,761	3,195,922	6,926,606

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 2—Other Public Sector Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
0403	Geology	369,136	2,307,271	2,843,313	5,004,230	4,895,493	12,743,036
0404	Geophysics	392,488	6,065,980	5,310,679	1,740,234	2,343,592	9,394,505
0405	Oceanography	163,752	3,389,105	1,201,923	1,790,197	5,190,407	8,182,527
0406	Physical Geography and Environmental Geoscience	346,069	5,409,792	5,708,546	6,686,612	10,794,080	23,189,238
0499	Other Earth Sciences	29,955	106,518	55,518	27,059	58,055	140,632
05	**Environmental Sciences**	**1,799,109**	**13,791,580**	**30,974,901**	**32,784,609**	**34,718,081**	**98,477,591**
0501	Ecological Applications	188,764	5,140,880	2,248,340	3,042,920	4,302,838	9,594,098
0502	Environmental Science and Management	1,475,826	12,690,066	27,137,562	26,918,689	27,795,902	81,852,153
0503	Soil Sciences	184,878	1,074,638	1,458,173	2,005,510	1,877,224	5,340,907
0599	Other Environmental Sciences	180,928	948,414	130,826	817,490	742,117	1,690,433
06	**Biological Sciences**	**2,546,322**	**34,590,102**	**60,419,825**	**62,473,248**	**61,701,256**	**184,594,329**
0601	Biochemistry and Cell Biology	206,529	14,531,028	13,374,001	16,174,727	16,886,404	46,435,132
0602	Ecology	914,597	5,246,201	13,148,127	13,962,386	16,191,572	43,302,085
0603	Evolutionary Biology	69,862	1,603,862	2,118,699	1,531,612	2,052,577	5,702,888
0604	Genetics	471,526	13,784,873	13,725,254	13,155,960	11,820,494	38,701,708
0605	Microbiology	194,386	2,353,566	1,752,611	3,311,292	4,639,851	9,703,754
0606	Physiology	36,611	474,876	295,088	436,726	424,645	1,156,459
0607	Plant Biology	252,850	10,639,059	13,426,124	9,874,405	6,215,754	29,516,283
0608	Zoology	200,989	2,231,865	2,093,471	3,108,703	3,098,702	8,300,876
0699	Other Biological Sciences	45,043	738,644	486,450	917,437	371,257	1,775,144
07	**Agricultural and Veterinary Sciences**	**1,507,769**	**30,690,615**	**33,483,969**	**36,768,388**	**40,537,881**	**110,790,238**
0701	Agriculture, Land and Farm Management	96,502	5,616,198	4,467,405	4,310,413	6,160,824	14,938,642
0702	Animal Production	64,971	4,232,140	2,236,209	4,802,916	2,415,272	9,454,397
0703	Crop and Pasture Production	433,909	7,998,763	8,352,719	10,134,580	11,981,552	30,468,851
0704	Fisheries Sciences	230,581	11,244,520	5,608,778	5,284,415	7,174,652	18,067,845
0705	Forestry Sciences	146,388	8,405,663	6,618,832	5,052,970	5,108,284	16,780,086

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 2—Other Public Sector Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
0706	Horticultural Production	116,461	4,160,297	2,906,102	3,514,152	3,172,353	9,592,607
0707	Veterinary Sciences	224,703	2,550,293	2,044,800	2,633,854	3,947,203	8,625,857
0799	Other Agricultural and Veterinary Sciences	114,672	1,236,241	1,249,124	1,035,088	577,741	2,861,953
08	**Information and Computing Sciences**	**576,008**	**26,086,821**	**45,850,562**	**15,042,140**	**17,242,729**	**78,135,431**
0801	Artificial Intelligence and Image Processing	270,132	9,316,926	14,978,853	4,528,053	6,412,523	25,919,429
0802	Computation Theory and Mathematics	15,720	562,622	41,444	87,354	594,378	723,176
0803	Computer Software	52,438	2,678,522	2,916,368	1,402,526	1,882,607	6,201,501
0804	Data Format	233,328	1,450,395	965,922	627,664	92,388	1,685,974
0805	Distributed Computing	115,492	1,987,774	1,759,830	1,171,396	1,267,140	4,198,366
0806	Information Systems	167,648	3,763,769	6,057,399	4,012,498	5,036,291	15,106,188
0807	Library and Information Studies	57,829	3,015,255	2,519,406	2,561,765	1,790,155	6,871,326
0899	Other Information and Computing Sciences	74,758	16,540,440	16,611,340	650,884	167,247	17,429,471
09	**Engineering**	**2,389,004**	**30,640,721**	**64,208,498**	**75,590,825**	**77,254,945**	**217,054,268**
0901	Aerospace Engineering	111,159	738,408	273,066	881,925	1,074,464	2,229,455
0902	Automotive Engineering	27,069	157,605	150,354	174,340	35,339	360,033
0903	Biomedical Engineering	384,360	3,718,513	5,136,437	2,675,767	4,057,497	11,869,701
0904	Chemical Engineering	312,070	7,151,451	7,661,699	8,708,162	8,271,254	24,641,115
0905	Civil Engineering	604,750	9,255,991	10,573,188	20,337,858	12,727,217	43,638,263
0906	Electrical and Electronic Engineering	1,010,759	10,298,242	11,749,618	15,411,878	17,417,611	44,579,107
0907	Environmental Engineering	294,377	7,060,328	7,719,488	3,522,042	5,346,808	16,588,338
0908	Food Sciences	149,840	865,515	661,409	878,008	1,447,927	2,987,344
0909	Geomatic Engineering	36,861	677,035	265,285	274,646	1,000,962	1,540,893
0910	Manufacturing Engineering	29,313	726,360	648,839	596,046	947,938	2,192,823
0911	Maritime Engineering	6,314	731,456	279,405	376,951	203,354	859,710
0912	Materials Engineering	561,133	4,081,970	5,582,288	5,327,448	7,725,051	18,634,787
0913	Mechanical Engineering	299,198	7,126,999	8,099,075	6,165,184	8,507,767	22,772,026
0914	Resources Engineering and Extractive Metallurgy	337,084	4,717,404	3,217,808	4,979,211	5,119,542	13,316,561

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 2—Other Public Sector Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
0915	Interdisciplinary Engineering	122,875	2,339,553	610,031	616,029	2,218,848	3,444,908
0999	Other Engineering	75,637	2,980,294	1,580,508	4,665,330	1,153,366	7,399,204
10	**Technology**	**456,789**	**11,108,013**	**16,646,979**	**13,017,057**	**7,769,207**	**37,433,243**
1001	Agricultural Biotechnology	139,528	476,688	555,024	356,735	151,630	1,063,389
1002	Environmental Biotechnology	132,470	971,264	1,039,746	635,555	790,206	2,465,507
1003	Industrial Biotechnology	82,279	2,604,056	1,800,150	187,726	927,179	2,915,055
1004	Medical Biotechnology	122,043	2,270,836	2,638,927	536,658	182,041	3,357,626
1005	Communications Technologies	158,285	8,429,490	7,095,538	1,599,151	1,506,896	10,201,585
1006	Computer Hardware	46,265	2,678,522	2,375,768	169,804	185,020	2,730,592
1007	Nanotechnology	96,405	10,250,879	1,141,826	9,108,526	4,013,758	14,264,110
1099	Other Technology	217,689	422,902	0	422,902	12,477	435,379
11	**Medical and Health Sciences**	**7,231,326**	**162,684,020**	**340,988,165**	**325,740,786**	**344,374,334**	**1,011,103,285**
1101	Medical Biochemistry and Metabolomics	85,248	1,910,842	1,150,752	1,329,681	1,403,828	3,884,261
1102	Cardiovascular Medicine and Haematology	310,587	13,182,156	16,137,837	9,839,850	9,204,401	35,182,088
1103	Clinical Sciences	577,976	42,254,730	69,384,614	55,596,469	64,047,339	189,028,422
1104	Complementary and Alternative Medicine	53,978	1,297,568	1,604,498	334,777	192,759	2,132,034
1105	Dentistry	188,864	3,905,165	3,725,041	3,662,991	3,491,763	10,879,795
1106	Human Movement and Sports Science	251,344	3,219,341	4,047,159	4,488,271	5,089,424	13,624,854
1107	Immunology	965,180	9,362,797	7,321,104	8,334,930	7,263,642	22,919,676
1108	Medical Microbiology	65,579	4,410,018	1,668,456	3,091,307	3,944,878	8,704,641
1109	Neurosciences	419,649	26,485,487	37,484,765	31,249,122	32,917,707	101,651,594
1110	Nursing	920,098	12,774,853	14,544,415	16,619,176	15,623,748	46,787,339
1111	Nutrition and Dietetics	333,083	1,108,324	1,316,332	2,008,764	2,276,543	5,601,639
1112	Oncology and Carcinogenesis	1,270,651	18,802,669	24,394,338	20,662,615	19,671,697	64,728,650
1113	Ophthalmology and Optometry	715,617	10,197,912	9,050,414	3,117,291	2,054,077	14,221,782
1114	Paediatrics and Reproductive Medicine	1,222,414	10,884,704	15,470,345	8,306,477	10,787,346	34,564,168
1115	Pharmacology and Pharmaceutical Sciences	411,713	7,464,575	9,915,707	12,272,003	11,023,747	33,211,457

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 2—Other Public Sector Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
1116	Medical Physiology	197,611	2,846,178	1,857,793	2,807,319	1,810,113	6,475,225
1117	Public Health and Health Services	2,606,446	55,312,646	114,944,409	131,546,409	145,957,093	392,447,911
1199	Other Medical and Health Sciences	55,986	14,875,000	6,970,186	10,473,334	7,614,229	25,057,749
12	**Built Environment and Design**	**318,662**	**5,387,609**	**7,188,737**	**7,765,384**	**8,140,985**	**23,095,106**
1201	Architecture	138,029	796,586	1,546,333	1,850,605	1,645,327	5,042,265
1202	Building	142,762	1,474,545	763,191	1,002,721	1,287,275	3,053,187
1203	Design Practice and Management	40,651	1,373,765	516,199	1,366,277	964,828	2,847,304
1204	Engineering Design	19,466	19,466	0	10,249	9,217	19,466
1205	Urban and Regional Planning	137,076	3,076,441	4,270,520	3,399,334	4,152,191	11,822,045
1299	Other Built Environment and Design	33,383	105,247	92,494	136,198	82,147	310,839
13	**Education**	**1,154,732**	**14,632,831**	**23,779,952**	**38,128,864**	**24,484,266**	**86,393,082**
1301	Education Systems	203,815	2,960,010	4,634,727	5,557,021	4,298,755	14,490,503
1302	Curriculum and Pedagogy	353,189	3,694,981	4,865,883	9,777,117	7,049,754	21,692,754
1303	Specialist Studies in Education	514,397	9,320,595	13,059,867	21,121,752	12,717,926	46,899,545
1399	Other Education	163,388	1,277,995	1,219,475	1,672,974	417,831	3,310,280
14	**Economics**	**603,836**	**23,554,773**	**19,990,510**	**20,795,035**	**30,680,630**	**71,466,175**
1401	Economic Theory	18,595	239,413	173,638	258,213	251,622	683,473
1402	Applied Economics	603,837	23,015,121	17,866,469	19,336,056	29,708,473	66,910,998
1403	Econometrics	167,688	1,299,793	1,644,436	964,828	642,407	3,251,671
1499	Other Economics	157,033	298,795	305,967	235,938	78,128	620,033
15	**Commerce, Management, Tourism and Services**	**505,838**	**3,264,770**	**8,899,547**	**11,449,435**	**9,932,816**	**30,281,798**
1501	Accounting, Auditing and Accountability	39,923	534,333	439,033	849,953	536,198	1,825,184
1502	Banking, Finance and Investment	27,345	550,424	142,530	731,664	613,621	1,487,815
1503	Business and Management	382,763	3,214,095	6,083,505	6,490,289	5,849,132	18,422,926
1504	Commercial Services	49,247	388,372	109,314	129,895	577,367	816,576
1505	Marketing	104,139	852,857	659,128	1,313,099	744,572	2,716,799
1506	Tourism	87,206	1,623,801	1,354,756	1,318,306	1,446,795	4,119,857

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 2—Other Public Sector Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
1507	Transportation and Freight Services	43,076	80,699	59,089	91,462	63,872	214,423
1599	Other Commerce, Management, Tourism and Services	120,261	233,457	52,192	524,767	101,259	678,218
16	**Studies in Human Society**	**1,289,580**	**24,092,298**	**30,340,772**	**34,528,577**	**49,098,895**	**113,968,244**
1601	Anthropology	93,966	1,646,929	454,003	566,664	2,319,354	3,340,021
1602	Criminology	151,631	2,628,453	1,761,833	2,349,756	3,197,084	7,308,673
1603	Demography	9,734	3,485,951	2,570,872	1,677,281	3,103,183	7,351,336
1604	Human Geography	212,951	667,522	1,410,273	1,991,371	1,770,072	5,171,716
1605	Policy and Administration	329,618	6,938,802	9,142,501	10,788,261	10,174,094	30,104,856
1606	Political Science	115,862	5,348,930	3,292,476	3,007,956	6,883,326	13,183,758
1607	Social Work	210,993	2,716,741	3,877,396	4,392,578	6,275,073	14,545,047
1608	Sociology	332,316	7,237,251	5,905,265	7,090,425	13,931,485	26,927,175
1699	Other Studies in Human Society	104,816	3,331,357	1,926,153	2,664,285	1,445,224	6,035,662
17	**Psychology and Cognitive Sciences**	**581,234**	**10,202,639**	**18,031,141**	**20,890,112**	**21,179,794**	**60,101,047**
1701	Psychology	568,131	10,202,639	16,460,506	19,108,495	19,355,893	54,924,894
1702	Cognitive Science	26,204	2,428,498	1,417,328	827,224	1,749,095	3,993,647
1799	Other Psychology and Cognitive Sciences	49,431	949,138	153,307	954,393	74,806	1,182,506
18	**Law and Legal Studies**	**150,006**	**2,526,600**	**5,054,034**	**4,588,613**	**6,147,671**	**15,790,318**
1801	Law	178,283	2,442,806	4,949,194	4,490,684	5,815,866	15,255,744
1802	Maori Law	0	0	0	0	0	0
1899	Other Law and Legal Studies	62,297	188,453	104,840	97,929	331,805	534,574
19	**Studies in Creative Arts and Writing**	**71,458**	**1,208,381**	**1,980,206**	**1,688,447**	**2,281,466**	**5,950,119**
1901	Art Theory and Criticism	23,518	402,571	255,722	193,624	243,661	693,007
1902	Film, Television and Digital Media	24,634	578,134	406,616	422,776	705,707	1,535,099
1903	Journalism and Professional Writing	19,817	193,893	213,500	75,846	67,623	356,969
1904	Performing Arts and Creative Writing	49,824	1,144,968	686,004	572,977	694,846	1,953,827
1905	Visual Arts and Crafts	63,173	326,891	383,884	396,837	534,178	1,314,899
1999	Other Studies in Creative Arts and Writing	22,941	34,297	34,480	26,387	35,451	96,318

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 2—Other Public Sector Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
20	**Language, Communication and Culture**	**199,098**	**12,061,672**	**9,144,264**	**9,578,552**	**7,592,492**	**26,315,308**
2001	Communication and Media Studies	51,192	740,452	804,307	812,772	1,321,325	2,938,404
2002	Cultural Studies	46,484	10,550,742	4,751,045	4,885,734	3,864,716	13,501,495
2003	Language Studies	35,884	566,796	133,893	531,756	957,028	1,622,677
2004	Linguistics	55,404	4,003,254	2,969,769	3,010,393	1,117,339	7,097,501
2005	Literary Studies	29,869	81,902	51,322	148,917	192,698	392,937
2099	Other Language, Communication and Culture	27,223	609,233	433,928	188,980	139,386	762,294
21	**History and Archaeology**	**64,999**	**24,297,171**	**2,630,564**	**2,850,881**	**24,983,311**	**30,464,756**
2101	Archaeology	59,181	828,987	217,211	446,320	845,529	1,509,060
2102	Curatorial and Related Studies	16,168	112,178	71,575	102,553	130,672	304,800
2103	Historical Studies	49,625	23,337,290	2,309,393	2,125,120	24,007,110	28,441,623
2199	Other History and Archaeology	71,641	105,247	32,385	176,888	0	209,273
22	**Philosophy and Religious Studies**	**76,268**	**2,222,318**	**578,897**	**1,046,365**	**2,724,913**	**4,350,175**
2201	Applied Ethics	23,299	428,671	355,887	480,866	287,130	1,123,883
2202	History and Philosophy of Specific Fields	42,140	103,194	28,303	200,757	88,296	317,356
2203	Philosophy	46,260	2,176,368	112,050	150,553	2,215,535	2,478,138
2204	Religion and Religious Studies	4,380	254,500	82,657	214,189	133,952	430,798
2299	Other Philosophy and Religious Studies	0	0	0	0	0	0
Total				**767,940,620**	**765,334,980**	**852,671,620**	**2,385,947,220**

* Median and Maximum Income is based on total research income over the three year period.

HERDC Category 3—Industry and Other Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
01	**Mathematical Sciences**	**319,398**	**4,270,222**	**6,098,650**	**7,369,332**	**8,244,914**	**21,712,896**
0101	Pure Mathematics	81,238	1,810,535	771,406	1,055,602	1,846,879	3,673,887
0102	Applied Mathematics	274,817	4,270,222	3,106,209	3,631,105	4,062,853	10,800,167
0103	Numerical and Computational Mathematics	30,455	767,952	389,184	950,486	361,623	1,701,293
0104	Statistics	41,194	576,626	763,663	534,708	1,479,622	2,777,993
0105	Mathematical Physics	81,161	537,155	481,194	578,642	236,767	1,296,603
0199	Other Mathematical Sciences	120,269	1,335,572	586,994	618,789	257,170	1,462,953
02	**Physical Sciences**	**965,064**	**7,968,193**	**6,797,561**	**8,783,478**	**17,874,232**	**33,455,271**
0201	Astronomical and Space Sciences	86,606	2,636,681	1,272,749	1,634,788	2,680,180	5,587,717
0202	Atomic, Molecular, Nuclear, Particle and Plasma Physics	26,240	532,866	652,430	330,448	464,505	1,447,383
0203	Classical Physics	15,855	177,453	124,079	173,776	211,137	508,992
0204	Condensed Matter Physics	275,311	4,866,183	1,579,731	2,939,701	6,596,681	11,116,113
0205	Optical Physics	384,356	1,892,772	1,274,419	1,976,304	5,696,869	8,947,592
0206	Quantum Physics	167,619	716,795	563,719	748,207	435,053	1,746,979
0299	Other Physical Sciences	113,573	1,110,413	1,330,434	980,254	1,789,807	4,100,495
03	**Chemical Sciences**	**405,376**	**7,739,397**	**22,472,421**	**14,885,481**	**14,971,636**	**52,329,538**
0301	Analytical Chemistry	125,000	1,583,612	3,059,313	2,052,017	2,004,427	7,115,757
0302	Inorganic Chemistry	45,889	1,357,064	897,196	957,421	1,658,649	3,513,266
0303	Macromolecular and Materials Chemistry	105,224	1,479,655	1,332,074	1,560,484	1,603,850	4,496,408
0304	Medicinal and Biomolecular Chemistry	252,959	6,611,111	6,169,704	4,313,139	2,379,788	12,862,631
0305	Organic Chemistry	113,191	1,608,538	3,005,031	885,689	1,799,440	5,690,160
0306	Physical Chemistry (Incl. Structural)	279,589	5,025,796	6,537,724	4,294,854	4,147,907	14,980,485
0307	Theoretical and Computational Chemistry	24,032	57,782	53,469	45,539	47,102	146,110
0399	Other Chemical Sciences	54,860	2,631,579	1,417,910	776,338	1,330,473	3,524,721
04	**Earth Sciences**	**841,624**	**18,016,562**	**24,628,515**	**25,663,816**	**28,269,856**	**78,562,187**
0401	Atmospheric Sciences	20,702	1,763,660	892,829	723,754	1,373,552	2,990,135
0402	Geochemistry	233,919	2,005,123	2,280,550	1,961,870	2,027,404	6,269,824
0403	Geology	577,446	15,607,708	12,660,586	11,551,096	14,709,111	38,920,793

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 3—Industry and Other Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
0404	Geophysics	112,274	5,567,464	3,785,477	4,160,500	4,351,167	12,297,144
0405	Oceanography	84,952	3,172,778	2,045,818	4,185,994	1,854,477	8,086,289
0406	Physical Geography and Environmental Geoscience	180,412	3,445,480	2,819,295	2,768,065	3,397,829	8,985,189
0499	Other Earth Sciences	34,835	490,451	143,960	312,537	556,316	1,012,813
05	**Environmental Sciences**	**1,134,165**	**11,178,226**	**23,012,179**	**23,637,205**	**24,933,670**	**71,583,054**
0501	Ecological Applications	30,512	1,018,951	1,246,998	501,169	891,834	2,640,001
0502	Environmental Science and Management	567,936	7,095,504	16,785,869	16,045,775	19,156,845	51,988,489
0503	Soil Sciences	193,443	4,523,512	4,916,084	6,030,072	4,481,500	15,427,656
0599	Other Environmental Sciences	59,442	1,138,098	63,228	1,060,189	403,491	1,526,908
06	**Biological Sciences**	**2,382,140**	**37,303,560**	**71,993,688**	**72,906,929**	**75,277,645**	**220,178,262**
0601	Biochemistry and Cell Biology	366,566	13,757,652	24,750,947	25,662,400	25,410,445	75,823,792
0602	Ecology	693,605	4,549,651	8,470,629	7,737,686	9,471,837	25,680,152
0603	Evolutionary Biology	123,533	859,186	1,177,162	1,272,580	2,001,113	4,450,855
0604	Genetics	837,919	9,452,300	11,999,267	12,070,115	13,683,614	37,752,996
0605	Microbiology	211,534	2,814,277	6,326,581	5,419,655	4,800,570	16,546,806
0606	Physiology	52,072	1,801,036	1,644,655	1,615,802	1,816,318	5,076,775
0607	Plant Biology	298,139	7,327,106	9,121,805	12,764,776	10,616,272	32,502,853
0608	Zoology	256,818	9,509,405	7,073,947	5,501,610	5,693,855	18,269,412
0699	Other Biological Sciences	57,131	2,214,265	1,428,695	862,305	1,783,621	4,074,621
07	**Agricultural and Veterinary Sciences**	**860,574**	**15,781,110**	**26,492,820**	**26,382,845**	**34,641,386**	**87,517,051**
0701	Agriculture, Land and Farm Management	128,558	1,021,187	1,131,424	941,676	3,153,967	5,227,067
0702	Animal Production	111,517	5,802,293	3,756,980	4,946,374	7,575,493	16,278,847
0703	Crop and Pasture Production	167,152	6,915,523	6,727,062	10,739,618	10,502,032	27,968,712
0704	Fisheries Sciences	88,233	5,277,005	2,625,628	1,725,820	6,026,947	10,378,395
0705	Forestry Sciences	153,467	1,162,805	1,168,875	1,025,185	1,408,746	3,602,806
0706	Horticultural Production	54,815	1,501,070	1,990,926	1,354,436	1,092,952	4,438,314
0707	Veterinary Sciences	263,826	5,141,790	5,478,261	5,130,674	4,078,421	14,687,356
0799	Other Agricultural and Veterinary Sciences	72,198	3,689,053	3,613,664	519,062	802,828	4,935,554

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 3—Industry and Other Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
08	**Information and Computing Sciences**	**822,162**	**4,940,774**	**13,922,576**	**11,776,966**	**20,606,345**	**46,305,887**
0801	Artificial Intelligence and Image Processing	363,757	1,967,118	5,415,795	3,927,563	6,170,101	15,513,459
0802	Computation Theory and Mathematics	111,711	566,092	676,516	552,001	337,230	1,565,747
0803	Computer Software	92,455	546,850	1,152,083	1,138,537	1,681,159	3,971,779
0804	Data Format	30,425	734,178	710,629	406,847	494,036	1,611,512
0805	Distributed Computing	99,468	749,063	497,637	929,775	2,162,497	3,589,909
0806	Information Systems	145,482	2,985,086	4,327,504	4,380,183	7,310,107	16,017,794
0807	Library and Information Studies	76,466	480,989	775,798	236,876	819,457	1,832,131
0899	Other Information and Computing Sciences	97,973	1,180,768	366,614	205,184	1,631,758	2,203,556
09	**Engineering**	**3,569,606**	**40,043,957**	**96,629,155**	**95,139,934**	**119,124,874**	**310,893,963**
0901	Aerospace Engineering	83,299	1,547,908	591,194	950,353	1,559,322	3,100,869
0902	Automotive Engineering	26,139	224,242	94,426	269,962	374,732	739,120
0903	Biomedical Engineering	128,629	5,359,020	5,141,599	4,234,532	4,281,741	13,657,872
0904	Chemical Engineering	618,832	5,438,567	6,387,899	7,012,509	9,649,749	23,050,157
0905	Civil Engineering	409,066	15,423,731	13,890,581	17,651,254	19,409,829	50,951,664
0906	Electrical and Electronic Engineering	1,179,389	9,355,056	15,737,161	12,310,005	21,206,076	49,253,242
0907	Environmental Engineering	134,781	4,654,624	3,547,168	4,293,926	5,191,156	13,032,250
0908	Food Sciences	111,082	921,822	1,087,668	758,861	1,021,750	2,868,279
0909	Geomatic Engineering	38,484	1,343,634	803,415	652,475	1,218,424	2,674,314
0910	Manufacturing Engineering	53,804	12,524,929	4,739,875	6,066,460	7,824,274	18,630,609
0911	Maritime Engineering	57,370	1,857,223	943,742	1,096,431	888,558	2,928,731
0912	Materials Engineering	518,924	4,454,504	7,035,497	6,485,769	10,133,191	23,654,457
0913	Mechanical Engineering	956,124	7,186,287	12,499,393	9,611,310	13,113,066	35,223,769
0914	Resources Engineering and Extractive Metallurgy	1,535,971	23,723,522	20,747,691	21,658,374	21,351,013	63,757,078
0915	Interdisciplinary Engineering	100,619	1,435,306	1,795,848	1,594,964	1,688,090	5,078,902
0999	Other Engineering	69,636	556,105	1,585,998	492,749	213,903	2,292,650

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 3—Industry and Other Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
10	**Technology**	**453,746**	**7,688,608**	**8,737,065**	**8,300,240**	**7,982,009**	**25,019,314**
1001	Agricultural Biotechnology	351,051	2,244,267	1,089,824	1,301,997	871,095	3,262,916
1002	Environmental Biotechnology	112,403	2,008,016	1,376,440	1,950,034	1,174,811	4,501,285
1003	Industrial Biotechnology	21,864	1,623,613	909,018	928,351	639,074	2,476,443
1004	Medical Biotechnology	95,664	3,127,424	3,059,171	2,198,336	2,062,949	7,320,456
1005	Communications Technologies	50,807	1,392,265	1,221,357	1,164,570	2,009,006	4,394,933
1006	Computer Hardware	257,832	865,380	652,620	296,793	444,074	1,393,487
1007	Nanotechnology	76,646	410,371	318,198	453,178	624,396	1,395,772
1099	Other Technology	78,803	156,604	110,437	6,981	156,604	274,022
11	**Medical and Health Sciences**	**4,384,212**	**211,106,116**	**370,190,270**	**267,958,765**	**294,112,855**	**932,261,890**
1101	Medical Biochemistry and Metabolomics	33,502	2,741,440	1,517,628	1,806,079	1,797,856	5,121,563
1102	Cardiovascular Medicine and Haematology	576,607	11,900,198	14,273,459	14,875,206	15,973,502	45,122,167
1103	Clinical Sciences	804,170	69,097,101	107,855,701	51,939,681	53,101,172	212,896,554
1104	Complementary and Alternative Medicine	59,735	384,541	462,605	407,444	641,968	1,512,017
1105	Dentistry	770,212	4,876,339	5,730,255	3,770,962	5,692,631	15,193,848
1106	Human Movement and Sports Science	148,497	1,636,646	4,328,963	3,818,679	4,157,884	12,305,526
1107	Immunology	380,554	14,585,548	27,882,886	18,065,489	15,806,383	61,754,758
1108	Medical Microbiology	209,117	5,694,752	5,320,719	4,829,835	4,680,709	14,831,263
1109	Neurosciences	1,194,405	16,640,718	21,371,260	22,994,136	25,606,722	69,972,118
1110	Nursing	305,378	6,685,575	3,975,578	5,069,703	12,992,280	22,037,561
1111	Nutrition and Dietetics	395,832	2,802,649	2,437,262	2,711,502	3,122,546	8,271,310
1112	Oncology and Carcinogenesis	1,411,795	36,500,891	46,307,643	43,022,324	37,644,232	126,974,199
1113	Ophthalmology and Optometry	607,882	4,623,805	5,261,006	4,895,650	7,702,499	17,859,155
1114	Paediatrics and Reproductive Medicine	2,249,178	7,518,609	14,894,327	11,745,006	13,486,375	40,125,708
1115	Pharmacology and Pharmaceutical Sciences	387,407	14,352,200	18,048,193	13,917,831	19,109,331	51,075,355

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 3—Industry and Other Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
1116	Medical Physiology	251,587	3,857,924	5,282,604	3,122,019	5,464,946	13,869,569
1117	Public Health and Health Services	1,325,804	38,280,760	69,523,396	52,142,336	54,709,358	176,375,090
1199	Other Medical and Health Sciences	191,817	29,815,357	15,716,785	8,824,883	12,422,461	36,964,129
12	**Built Environment and Design**	**372,493**	**4,531,743**	**6,495,419**	**6,360,036**	**10,930,819**	**23,786,274**
1201	Architecture	198,564	1,150,138	1,499,530	1,519,696	2,952,708	5,971,934
1202	Building	522,172	1,296,201	2,027,180	1,360,012	2,135,402	5,522,594
1203	Design Practice and Management	215,729	1,465,420	607,690	1,270,375	1,969,509	3,847,574
1204	Engineering Design	23,630	31,749	27,990	17,908	24,197	70,095
1205	Urban and Regional Planning	118,580	2,354,377	1,867,344	1,984,950	3,439,757	7,292,051
1299	Other Built Environment and Design	49,631	963,060	465,685	207,095	409,246	1,082,026
13	**Education**	**965,098**	**15,026,435**	**14,987,929**	**17,668,597**	**26,152,213**	**58,808,739**
1301	Education Systems	227,585	2,041,006	3,549,548	2,829,131	4,200,983	10,579,662
1302	Curriculum and Pedagogy	290,794	1,303,741	2,705,388	2,649,255	5,867,728	11,222,371
1303	Specialist Studies in Education	488,152	11,737,743	7,670,528	11,819,278	15,089,387	34,579,193
1399	Other Education	71,521	516,682	1,062,465	370,933	994,115	2,427,513
14	**Economics**	**306,850**	**5,090,810**	**8,302,149**	**10,398,600**	**12,952,371**	**31,653,120**
1401	Economic Theory	26,569	573,709	170,770	466,269	348,576	985,615
1402	Applied Economics	306,850	3,430,001	6,271,679	8,359,803	10,324,269	24,955,751
1403	Econometrics	81,191	1,653,854	1,697,287	1,466,271	1,199,144	4,362,702
1499	Other Economics	31,857	1,001,700	162,413	106,257	1,080,382	1,349,052
15	**Commerce, Management, Tourism and Services**	**816,858**	**7,834,469**	**14,178,122**	**17,403,378**	**25,881,294**	**57,462,794**
1501	Accounting, Auditing and Accountability	75,631	1,428,479	1,709,398	2,059,595	3,513,597	7,282,590
1502	Banking, Finance and Investment	80,054	2,176,529	1,371,952	2,864,170	2,732,244	6,968,366
1503	Business and Management	435,072	3,489,268	6,154,651	6,116,241	11,315,521	23,586,413
1504	Commercial Services	27,118	180,067	79,766	49,957	440,939	570,662

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 3—Industry and Other Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
1505	Marketing	109,208	5,826,984	3,851,949	4,415,368	5,741,672	14,008,989
1506	Tourism	239,588	694,519	740,077	1,523,796	1,656,146	3,920,019
1507	Transportation and Freight Services	38,702	328,093	141,797	165,195	185,861	492,853
1599	Other Commerce, Management, Tourism and Services	28,141	446,748	128,532	209,056	295,314	632,902
16	**Studies in Human Society**	**712,197**	**9,160,562**	**22,633,143**	**20,132,220**	**27,780,595**	**70,545,958**
1601	Anthropology	198,641	1,090,676	2,249,966	1,319,989	1,633,451	5,203,406
1602	Criminology	165,787	764,694	1,172,329	1,056,688	1,089,543	3,318,560
1603	Demography	65,080	1,480,923	687,354	655,318	1,351,590	2,694,262
1604	Human Geography	81,382	572,243	981,034	597,520	1,154,261	2,732,815
1605	Policy and Administration	200,449	3,952,951	4,894,500	5,495,674	6,625,719	17,015,893
1606	Political Science	245,718	3,707,796	5,468,197	2,903,934	6,549,611	14,921,742
1607	Social Work	170,147	1,297,473	2,917,124	1,816,563	2,409,189	7,142,876
1608	Sociology	205,687	2,893,876	3,205,498	5,118,854	5,740,669	14,065,021
1699	Other Studies in Human Society	37,351	1,473,115	1,057,141	1,167,680	1,226,562	3,451,383
17	**Psychology and Cognitive Sciences**	**729,696**	**5,528,354**	**13,721,110**	**14,120,483**	**14,069,935**	**41,911,528**
1701	Psychology	675,912	4,314,915	12,327,120	12,402,131	12,443,173	37,172,424
1702	Cognitive Science	36,463	2,159,923	1,135,486	1,718,352	1,426,889	4,280,727
1799	Other Psychology and Cognitive Sciences	34,669	199,873	258,504	0	199,873	458,377
18	**Law and Legal Studies**	**192,456**	**3,825,414**	**5,246,963**	**4,151,208**	**5,986,674**	**15,384,845**
1801	Law	189,251	3,825,413	5,183,311	3,724,730	5,983,669	14,891,710
1802	Maori Law	0	0	0	0	0	0
1899	Other Law and Legal Studies	106,569	371,408	63,652	426,478	3,005	493,135
19	**Studies in Creative Arts and Writing**	**168,555**	**2,222,246**	**2,713,049**	**2,394,571**	**4,745,247**	**9,852,867**
1901	Art Theory and Criticism	54,114	303,303	245,610	308,987	319,311	873,908
1902	Film, Television and Digital Media	39,963	329,601	272,977	305,838	523,967	1,102,782

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 3—Industry and Other Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
1903	Journalism and Professional Writing	23,678	228,921	40,777	138,314	358,330	537,421
1904	Performing Arts and Creative Writing	121,416	807,130	1,065,282	983,249	1,662,557	3,711,088
1905	Visual Arts and Crafts	90,087	1,421,368	1,076,614	619,825	1,801,001	3,497,440
1999	Other Studies in Creative Arts and Writing	11,550	112,025	11,789	38,358	80,081	130,228
20	**Language, Communication and Culture**	**368,093**	**6,081,063**	**7,146,217**	**6,641,945**	**14,944,481**	**28,732,643**
2001	Communication and Media Studies	184,724	980,256	1,013,576	1,111,146	2,639,393	4,764,115
2002	Cultural Studies	150,651	1,185,162	1,993,463	1,586,086	2,487,523	6,067,072
2003	Language Studies	57,270	1,165,440	387,302	340,954	1,604,390	2,332,646
2004	Linguistics	128,359	1,043,021	1,574,684	1,466,735	3,863,985	6,905,404
2005	Literary Studies	185,812	1,060,838	1,140,021	1,270,124	2,030,515	4,440,660
2099	Other Language, Communication and Culture	37,642	3,640,669	1,037,171	866,900	2,318,675	4,222,746
21	**History and Archaeology**	**135,300**	**10,864,246**	**8,163,663**	**7,127,495**	**11,682,487**	**26,973,645**
2101	Archaeology	239,520	8,266,936	2,873,852	4,803,522	8,473,154	16,150,528
2102	Curatorial and Related Studies	26,379	643,621	373,506	400,660	359,434	1,133,600
2103	Historical Studies	76,078	2,597,310	4,896,604	1,923,313	2,848,957	9,668,874
2199	Other History and Archaeology	10,321	19,701	19,701	0	942	20,643
22	**Philosophy and Religious Studies**	**228,686**	**5,643,043**	**3,623,891**	**3,369,864**	**5,170,999**	**12,164,754**
2201	Applied Ethics	39,418	286,932	209,526	187,395	265,746	662,667
2202	History and Philosophy of Specific Fields	26,768	164,456	1,090	162,217	233,792	397,099
2203	Philosophy	119,082	395,417	391,766	726,012	1,145,558	2,263,336
2204	Religion and Religious Studies	249,758	5,643,043	3,021,509	2,294,240	3,525,903	8,841,652
2299	Other Philosophy and Religious Studies	0	0	0	0	0	0
Total				778,186,555	672,573,388	806,336,537	2,257,096,480

* Median and Maximum Income is based on total research income over the three year period.

HERDC Category 3—Industry and Other Research Income (Australian)

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
01	**Mathematical Sciences**	**176,568**	**4,270,222**	**4,512,087**	**4,956,815**	**3,720,168**	**13,189,070**
0101	Pure Mathematics	20,276	175,955	202,324	139,523	55,951	397,798
0102	Applied Mathematics	86,604	4,270,222	2,840,600	3,019,697	2,859,674	8,719,971
0103	Numerical and Computational Mathematics	34,964	754,462	368,624	902,370	298,298	1,569,292
0104	Statistics	16,958	321,484	492,988	409,516	314,741	1,217,245
0105	Mathematical Physics	120,343	390,576	351,869	465,523	148,100	965,492
0199	Other Mathematical Sciences	159,636	284,895	255,682	20,186	43,404	319,272
02	**Physical Sciences**	**255,462**	**1,459,218**	**3,193,764**	**3,653,881**	**4,496,858**	**11,344,503**
0201	Astronomical and Space Sciences	36,955	260,917	191,775	354,727	346,738	893,240
0202	Atomic, Molecular, Nuclear, Particle and Plasma Physics	40,422	532,866	518,645	306,382	412,215	1,237,242
0203	Classical Physics	24,476	175,955	124,079	172,179	94,451	390,709
0204	Condensed Matter Physics	92,612	1,283,830	424,358	965,816	1,581,514	2,971,688
0205	Optical Physics	103,786	631,274	664,083	810,748	805,875	2,280,706
0206	Quantum Physics	4,726	260,995	64,886	136,849	126,685	328,420
0299	Other Physical Sciences	53,138	1,029,945	1,205,938	907,180	1,129,380	3,242,498
03	**Chemical Sciences**	**376,144**	**4,580,512**	**16,302,052**	**10,685,719**	**9,523,795**	**36,511,566**
0301	Analytical Chemistry	108,576	1,437,788	2,470,905	1,376,421	1,545,033	5,392,359
0302	Inorganic Chemistry	6,979	1,216,186	681,917	649,518	1,082,716	2,414,151
0303	Macromolecular and Materials Chemistry	105,224	574,640	808,700	977,266	978,503	2,764,469
0304	Medicinal and Biomolecular Chemistry	153,100	2,523,365	2,911,061	2,694,154	1,660,643	7,265,858
0305	Organic Chemistry	158,291	1,196,001	2,698,703	475,950	942,462	4,117,115
0306	Physical Chemistry (Incl. Structural)	172,983	4,580,512	5,309,932	3,800,027	2,488,328	11,598,287
0307	Theoretical and Computational Chemistry	24,032	54,227	18,448	34,191	32,223	84,862
0399	Other Chemical Sciences	48,841	2,292,363	1,402,386	678,192	793,887	2,874,465
04	**Earth Sciences**	**586,294**	**16,601,458**	**18,211,949**	**19,100,716**	**19,233,940**	**56,546,605**
0401	Atmospheric Sciences	24,467	500,235	317,434	361,736	547,778	1,226,948
0402	Geochemistry	176,879	1,896,084	2,023,528	1,388,272	1,833,011	5,244,811

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 3—Industry and Other Research Income (Australian)

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
0403	Geology	270,738	14,404,379	8,652,887	8,445,685	9,949,922	27,048,494
0404	Geophysics	60,493	5,367,630	3,274,733	2,561,560	3,353,262	9,189,555
0405	Oceanography	90,661	3,135,952	1,461,254	3,894,106	1,358,230	6,713,590
0406	Physical Geography and Environmental Geoscience	125,611	3,177,276	2,428,486	2,271,043	2,158,254	6,857,783
0499	Other Earth Sciences	31,003	197,420	53,627	178,314	33,483	265,424
05	**Environmental Sciences**	**866,680**	**9,076,192**	**19,518,040**	**17,921,214**	**20,265,266**	**57,704,520**
0501	Ecological Applications	29,306	223,419	297,335	287,774	744,460	1,329,569
0502	Environmental Science and Management	610,590	6,112,519	14,747,541	12,914,009	16,285,668	43,947,218
0503	Soil Sciences	69,312	4,523,512	4,409,936	4,520,119	3,106,640	12,036,695
0599	Other Environmental Sciences	39,056	123,537	63,228	199,312	128,498	391,038
06	**Biological Sciences**	**2,088,978**	**22,308,351**	**48,943,426**	**48,474,168**	**52,986,879**	**150,404,473**
0601	Biochemistry and Cell Biology	331,777	10,968,609	18,810,921	19,016,507	19,244,207	57,071,635
0602	Ecology	565,501	4,429,081	5,860,554	6,492,356	7,333,432	19,686,342
0603	Evolutionary Biology	44,939	843,667	959,271	366,286	1,309,081	2,634,638
0604	Genetics	200,572	5,482,785	7,576,538	5,476,589	9,212,600	22,265,727
0605	Microbiology	90,643	1,602,706	3,499,879	2,647,248	1,827,809	7,974,936
0606	Physiology	43,027	1,761,665	1,045,293	1,109,836	1,143,777	3,298,906
0607	Plant Biology	154,401	7,322,613	5,949,644	9,245,338	9,126,484	24,321,466
0608	Zoology	142,199	3,303,466	3,946,468	3,329,436	2,724,579	10,000,483
0699	Other Biological Sciences	37,126	2,214,265	1,294,858	790,572	1,064,910	3,150,340
07	**Agricultural and Veterinary Sciences**	**708,076**	**10,735,665**	**22,541,255**	**19,498,356**	**18,651,686**	**60,691,297**
0701	Agriculture, Land and Farm Management	84,120	767,208	968,589	711,319	1,616,373	3,296,281
0702	Animal Production	126,757	5,662,057	3,080,593	4,262,133	4,410,017	11,752,743
0703	Crop and Pasture Production	143,665	4,184,629	5,460,556	6,851,395	6,583,331	18,895,282
0704	Fisheries Sciences	129,705	1,776,253	2,373,111	1,439,207	2,125,157	5,937,475
0705	Forestry Sciences	84,140	797,868	967,575	748,103	1,003,515	2,719,193

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 3—Industry and Other Research Income (Australian)

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
0706	Horticultural Production	49,712	1,441,629	1,971,645	1,114,955	687,127	3,773,727
0707	Veterinary Sciences	322,877	3,678,442	4,296,444	3,895,960	1,744,938	9,937,342
0799	Other Agricultural and Veterinary Sciences	43,567	3,689,053	3,422,742	475,284	481,228	4,379,254
08	**Information and Computing Sciences**	**501,770**	**3,107,955**	**8,719,764**	**6,706,096**	**8,562,633**	**23,988,493**
0801	Artificial Intelligence and Image Processing	200,595	1,419,129	3,835,889	2,341,239	2,801,287	8,978,415
0802	Computation Theory and Mathematics	119,396	467,070	457,661	454,774	166,907	1,079,342
0803	Computer Software	93,096	256,819	568,256	422,055	544,703	1,535,014
0804	Data Format	14,881	78,972	97,048	89,639	150,106	336,793
0805	Distributed Computing	85,818	365,921	409,742	683,642	869,501	1,962,885
0806	Information Systems	107,653	1,867,690	2,424,626	2,578,445	3,773,449	8,776,520
0807	Library and Information Studies	9,629	412,729	642,287	85,515	67,517	795,319
0899	Other Information and Computing Sciences	29,972	173,616	284,255	50,787	189,163	524,205
09	**Engineering**	**2,390,499**	**26,355,661**	**72,258,518**	**70,279,233**	**77,566,210**	**220,103,961**
0901	Aerospace Engineering	63,150	1,129,907	197,572	456,126	891,251	1,544,949
0902	Automotive Engineering	15,097	146,741	94,426	226,541	17,763	338,730
0903	Biomedical Engineering	101,461	4,712,593	4,631,091	2,991,232	3,130,042	10,752,365
0904	Chemical Engineering	597,846	3,459,376	4,755,182	4,767,024	5,364,284	14,886,490
0905	Civil Engineering	359,505	14,405,858	11,446,724	15,200,972	14,925,496	41,573,192
0906	Electrical and Electronic Engineering	765,895	2,655,275	10,527,353	5,913,159	8,723,852	25,164,364
0907	Environmental Engineering	104,761	2,535,956	2,998,539	2,863,848	3,364,393	9,226,780
0908	Food Sciences	114,029	780,555	1,052,745	669,523	647,700	2,369,968
0909	Geomatic Engineering	44,698	1,343,634	668,998	548,631	801,433	2,019,062
0910	Manufacturing Engineering	49,369	12,372,552	4,488,782	5,841,076	7,087,705	17,417,563
0911	Maritime Engineering	57,370	1,399,223	865,570	785,459	660,409	2,311,438
0912	Materials Engineering	361,260	1,833,767	4,281,282	4,420,419	5,304,714	14,006,415
0913	Mechanical Engineering	643,927	5,667,688	10,323,994	6,856,900	9,519,404	26,700,298
0914	Resources Engineering and Extractive Metallurgy	1,423,643	16,077,794	13,159,821	16,798,313	16,067,456	46,025,590

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 3—Industry and Other Research Income (Australian)

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
0915	Interdisciplinary Engineering	78,719	1,384,495	1,539,207	1,513,047	973,008	4,025,262
0999	Other Engineering	36,808	556,105	1,227,232	426,963	87,300	1,741,495
10	**Technology**	**273,733**	**6,326,837**	**7,492,040**	**6,888,167**	**5,169,795**	**19,550,002**
1001	Agricultural Biotechnology	325,924	1,678,384	998,236	890,897	441,102	2,330,235
1002	Environmental Biotechnology	112,403	1,950,761	1,319,525	1,908,885	1,101,109	4,329,519
1003	Industrial Biotechnology	38,926	1,537,227	852,096	907,235	565,477	2,324,808
1004	Medical Biotechnology	75,996	3,040,953	2,756,761	2,037,449	1,353,116	6,147,326
1005	Communications Technologies	33,689	1,009,546	799,435	664,647	1,227,116	2,691,198
1006	Computer Hardware	470,978	865,380	460,943	190,677	290,337	941,957
1007	Nanotechnology	54,904	209,265	214,710	288,377	191,538	694,625
1099	Other Technology	45,167	78,803	90,334	0	0	90,334
11	**Medical and Health Sciences**	**3,337,413**	**166,771,617**	**288,817,916**	**195,354,528**	**215,650,185**	**699,822,629**
1101	Medical Biochemistry and Metabolomics	21,514	2,516,705	1,266,558	1,543,273	1,229,643	4,039,474
1102	Cardiovascular Medicine and Haematology	938,043	9,271,405	9,997,371	9,904,564	11,804,764	31,706,699
1103	Clinical Sciences	498,078	56,302,050	82,963,248	39,148,718	37,498,296	159,610,262
1104	Complementary and Alternative Medicine	18,766	145,699	131,630	233,003	429,916	794,549
1105	Dentistry	460,309	3,416,148	4,512,447	2,517,878	3,183,759	10,214,084
1106	Human Movement and Sports Science	141,229	1,238,857	3,811,820	3,007,612	2,822,093	9,641,525
1107	Immunology	272,849	13,735,667	21,410,747	10,429,942	10,938,713	42,779,402
1108	Medical Microbiology	88,361	1,927,230	2,039,497	1,410,764	1,486,814	4,937,075
1109	Neurosciences	963,107	13,465,534	16,769,953	15,409,958	19,857,297	52,037,208
1110	Nursing	160,357	6,641,448	3,154,567	4,154,293	11,484,677	18,793,537
1111	Nutrition and Dietetics	339,306	1,154,216	1,349,334	1,641,573	1,835,770	4,826,677
1112	Oncology and Carcinogenesis	1,244,260	33,611,299	41,729,900	38,242,756	33,857,672	113,830,328
1113	Ophthalmology and Optometry	344,417	4,187,632	3,406,372	2,432,961	5,446,452	11,285,785
1114	Paediatrics and Reproductive Medicine	1,294,497	6,676,934	10,917,581	7,885,270	10,120,310	28,923,161
1115	Pharmacology and Pharmaceutical Sciences	314,660	8,002,452	12,565,891	9,593,044	12,792,303	34,951,238

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 3—Industry and Other Research Income (Australian)

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
1116	Medical Physiology	186,940	2,970,882	3,408,961	2,015,231	2,656,329	8,080,521
1117	Public Health and Health Services	1,130,833	32,421,530	54,670,458	37,321,376	38,828,780	130,820,614
1199	Other Medical and Health Sciences	125,726	27,047,357	14,711,581	8,462,312	9,376,597	32,550,490
12	**Built Environment and Design**	**151,814**	**3,267,617**	**4,750,887**	**3,773,202**	**6,406,292**	**14,930,381**
1201	Architecture	80,836	1,150,138	1,355,064	818,876	1,328,460	3,502,400
1202	Building	295,846	779,800	1,464,922	907,638	1,150,782	3,523,342
1203	Design Practice and Management	47,311	1,452,519	505,393	826,832	1,703,382	3,035,607
1204	Engineering Design	19,173	23,630	23,630	9,989	4,727	38,346
1205	Urban and Regional Planning	73,197	804,417	963,381	1,002,772	1,809,695	3,775,848
1299	Other Built Environment and Design	49,631	935,873	438,497	207,095	409,246	1,054,838
13	**Education**	**578,963**	**12,220,333**	**12,326,364**	**14,516,342**	**16,049,017**	**42,891,723**
1301	Education Systems	119,214	2,032,973	2,985,553	2,290,531	1,643,039	6,919,123
1302	Curriculum and Pedagogy	192,154	959,999	2,138,542	2,101,948	3,297,445	7,537,935
1303	Specialist Studies in Education	240,931	9,504,534	6,673,263	9,823,547	10,390,858	26,887,668
1399	Other Education	49,552	437,774	529,006	300,316	717,675	1,546,997
14	**Economics**	**165,620**	**3,485,188**	**6,047,670**	**5,811,453**	**6,145,835**	**18,004,958**
1401	Economic Theory	20,590	436,676	68,176	322,676	241,616	632,468
1402	Applied Economics	121,834	1,928,698	4,532,938	4,789,788	4,992,588	14,315,314
1403	Econometrics	41,207	1,535,899	1,289,232	693,554	678,245	2,661,031
1499	Other Economics	3,965	350,166	157,324	5,435	233,386	396,145
15	**Commerce, Management, Tourism and Services**	**421,619**	**5,206,126**	**9,666,445**	**11,319,074**	**12,264,659**	**33,250,178**
1501	Accounting, Auditing and Accountability	34,188	1,075,111	1,541,507	1,497,991	1,388,173	4,427,671
1502	Banking, Finance and Investment	40,028	2,074,640	888,838	2,586,375	1,638,895	5,114,108
1503	Business and Management	247,911	2,465,539	4,968,515	4,461,847	6,265,542	15,695,904
1504	Commercial Services	22,574	143,485	50,796	39,756	224,912	315,464
1505	Marketing	69,606	2,326,213	1,499,592	1,578,952	1,726,226	4,804,770

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 3—Industry and Other Research Income (Australian)

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
1506	Tourism	67,852	429,252	532,459	984,417	834,830	2,351,706
1507	Transportation and Freight Services	39,637	328,093	125,432	136,103	157,072	418,607
1599	Other Commerce, Management, Tourism and Services	15,754	40,072	59,306	33,633	29,009	121,948
16	**Studies in Human Society**	**594,798**	**5,757,035**	**16,266,795**	**13,660,274**	**15,308,527**	**45,235,596**
1601	Anthropology	161,027	1,060,535	1,612,321	857,829	1,008,340	3,478,490
1602	Criminology	96,605	686,975	1,105,600	937,473	664,460	2,707,533
1603	Demography	57,256	1,147,588	302,609	315,844	910,299	1,528,752
1604	Human Geography	48,933	572,243	804,200	523,093	694,136	2,021,429
1605	Policy and Administration	146,973	3,195,807	3,824,326	3,377,267	4,403,079	11,604,672
1606	Political Science	90,769	947,743	2,162,136	1,169,825	1,726,873	5,058,834
1607	Social Work	140,799	1,292,087	2,767,129	1,521,293	1,978,711	6,267,133
1608	Sociology	157,618	1,971,440	2,693,376	3,921,756	3,188,132	9,803,264
1699	Other Studies in Human Society	36,459	1,317,998	995,098	1,035,894	734,497	2,765,489
17	**Psychology and Cognitive Sciences**	**495,368**	**4,012,893**	**9,643,718**	**10,000,731**	**8,031,067**	**27,675,516**
1701	Psychology	448,489	3,584,282	9,098,461	9,209,202	7,809,951	26,117,614
1702	Cognitive Science	29,972	423,886	286,753	791,529	221,116	1,299,398
1799	Other Psychology and Cognitive Sciences	15,555	177,306	258,504	0	0	258,504
18	**Law and Legal Studies**	**124,385**	**946,907**	**2,260,624**	**2,086,478**	**2,346,422**	**6,693,524**
1801	Law	124,385	946,907	2,202,969	2,034,781	2,346,422	6,584,172
1802	Maori Law	0	0	0	0	0	0
1899	Other Law and Legal Studies	54,676	106,569	57,655	51,697	0	109,352
19	**Studies in Creative Arts and Writing**	**108,785**	**1,534,802**	**2,324,331**	**1,653,657**	**2,102,342**	**6,080,330**
1901	Art Theory and Criticism	38,900	250,650	145,136	137,139	138,257	420,532
1902	Film, Television and Digital Media	36,054	82,097	249,626	208,014	60,392	518,032
1903	Journalism and Professional Writing	24,367	41,724	37,589	5,435	92,098	135,122
1904	Performing Arts and Creative Writing	48,734	789,962	897,007	720,877	613,752	2,231,636

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 3—Industry and Other Research Income (Australian)

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
1905	Visual Arts and Crafts	44,249	1,244,091	983,184	543,834	1,192,145	2,719,163
1999	Other Studies in Creative Arts and Writing	11,550	37,642	11,789	38,358	5,698	55,845
20	**Language, Communication and Culture**	**135,430**	**1,728,160**	**3,537,869**	**3,329,383**	**5,242,385**	**12,109,637**
2001	Communication and Media Studies	38,236	649,758	564,039	496,862	1,160,536	2,221,437
2002	Cultural Studies	70,585	881,430	1,548,027	1,107,458	1,534,727	4,190,212
2003	Language Studies	16,585	764,355	173,369	109,890	643,492	926,751
2004	Linguistics	19,920	704,733	863,499	722,292	936,941	2,522,732
2005	Literary Studies	82,070	640,598	372,806	852,990	862,065	2,087,861
2099	Other Language, Communication and Culture	37,642	69,581	16,129	39,891	104,624	160,644
21	**History and Archaeology**	**145,671**	**10,667,999**	**7,147,010**	**5,501,338**	**9,888,806**	**22,537,154**
2101	Archaeology	147,498	8,134,970	2,232,585	3,960,400	7,384,681	13,577,666
2102	Curatorial and Related Studies	31,882	490,343	352,205	261,144	286,127	899,476
2103	Historical Studies	59,690	2,533,030	4,542,519	1,279,794	2,217,056	8,039,369
2199	Other History and Archaeology	10,321	19,701	19,701	0	942	20,643
22	**Philosophy and Religious Studies**	**125,640**	**5,638,249**	**3,479,716**	**2,587,573**	**3,834,360**	**9,901,649**
2201	Applied Ethics	21,134	211,606	170,336	140,233	150,866	461,435
2202	History and Philosophy of Specific Fields	8,152	120,240	0	47,103	89,442	136,545
2203	Philosophy	14,019	336,757	333,318	190,323	367,803	891,444
2204	Religion and Religious Studies	111,222	5,638,249	2,976,062	2,209,914	3,226,249	8,412,225
2299	Other Philosophy and Religious Studies	0	0	0	0	0	0
Total				**587,962,240**	**477,758,398**	**523,447,127**	**1,589,167,765**

* Median and Maximum Income is based on total research income over the three year period.

HERDC Category 3—Industry and Other Research Income (International A)

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
01	**Mathematical Sciences**	**78,631**	**1,022,405**	**452,199**	**1,076,762**	**415,939**	**1,944,900**
0101	Pure Mathematics	11,067	172,695	83,039	204,535	11,067	298,641
0102	Applied Mathematics	41,270	263,284	65,681	204,763	330,600	601,044
0103	Numerical and Computational Mathematics	4,790	4,790	0	4,790	0	4,790
0104	Statistics	11,620	18,450	12,920	10,319	0	23,239
0105	Mathematical Physics	16,480	60,181	45,139	53,752	0	98,891
0199	Other Mathematical Sciences	918,295	918,295	245,420	598,603	74,272	918,295
02	**Physical Sciences**	**224,053**	**2,458,146**	**2,086,635**	**1,845,262**	**2,932,632**	**6,864,529**
0201	Astronomical and Space Sciences	40,847	1,213,266	885,886	318,045	323,603	1,527,534
0202	Atomic, Molecular, Nuclear, Particle and Plasma Physics	5,929	29,601	0	1,597	35,530	37,127
0203	Classical Physics	1,597	1,597	0	1,597	0	1,597
0204	Condensed Matter Physics	13,463	2,150,693	421,716	595,691	1,221,328	2,238,735
0205	Optical Physics	119,877	559,214	238,405	495,564	1,097,823	1,831,792
0206	Quantum Physics	73,001	633,184	433,521	397,769	211,503	1,042,793
0299	Other Physical Sciences	52,358	80,601	107,107	34,999	42,845	184,951
03	**Chemical Sciences**	**78,955**	**1,129,760**	**1,270,160**	**1,630,091**	**918,648**	**3,818,899**
0301	Analytical Chemistry	38,147	173,508	179,166	149,158	88,619	416,943
0302	Inorganic Chemistry	59,803	219,554	206,829	125,884	131,082	463,795
0303	Macromolecular and Materials Chemistry	11,704	414,241	219,009	97,587	145,046	461,642
0304	Medicinal and Biomolecular Chemistry	148,860	1,086,748	463,912	949,287	289,983	1,703,182
0305	Organic Chemistry	21,726	147,360	60,495	149,720	32,192	242,407
0306	Physical Chemistry (Incl. Structural)	49,598	129,978	140,749	68,402	182,485	391,636
0307	Theoretical and Computational Chemistry	0	0	0	0	0	0
0399	Other Chemical Sciences	57,303	77,628	0	90,053	49,241	139,294
04	**Earth Sciences**	**59,079**	**991,583**	**1,610,474**	**621,156**	**1,257,054**	**3,488,684**
0401	Atmospheric Sciences	17,980	818,784	238,750	0	613,422	852,172
0402	Geochemistry	26,245	47,895	35,991	48,835	32,342	117,168

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 3—Industry and Other Research Income (International A)

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
0403	Geology	62,108	722,330	825,799	315,641	263,041	1,404,481
0404	Geophysics	98,578	172,695	149,253	202,780	47,903	399,936
0405	Oceanography	205,075	339,374	242,976	0	167,175	410,151
0406	Physical Geography and Environmental Geoscience	47,215	103,716	117,705	53,900	133,171	304,776
0499	Other Earth Sciences	0	0	0	0	0	0
05	**Environmental Sciences**	**42,177**	**1,314,043**	**1,056,631**	**1,356,548**	**949,433**	**3,362,612**
0501	Ecological Applications	36,610	689,511	661,948	57,276	67,131	786,355
0502	Environmental Science and Management	56,214	699,478	391,678	1,029,896	656,746	2,078,320
0503	Soil Sciences	247,039	482,176	3,005	269,376	221,698	494,079
0599	Other Environmental Sciences	3,858	3,858	0	0	3,858	3,858
06	**Biological Sciences**	**485,671**	**11,339,981**	**15,614,766**	**15,465,278**	**10,872,002**	**41,952,046**
0601	Biochemistry and Cell Biology	309,185	2,047,426	3,223,852	4,246,569	3,219,957	10,690,378
0602	Ecology	200,027	1,854,211	2,035,817	607,995	456,600	3,100,412
0603	Evolutionary Biology	161,618	338,326	87,793	638,810	138,248	864,851
0604	Genetics	104,425	3,274,420	2,834,647	3,408,852	2,617,381	8,860,880
0605	Microbiology	156,613	1,651,389	1,833,378	2,004,462	1,846,675	5,684,515
0606	Physiology	83,019	656,702	391,088	445,021	251,879	1,087,988
0607	Plant Biology	86,033	3,947,754	2,187,574	2,834,444	689,510	5,711,528
0608	Zoology	48,410	5,104,435	3,020,617	1,266,353	1,625,786	5,912,756
0699	Other Biological Sciences	38,738	38,738	0	12,772	25,966	38,738
07	**Agricultural and Veterinary Sciences**	**484,907**	**1,639,919**	**1,227,802**	**2,548,608**	**2,935,581**	**6,711,991**
0701	Agriculture, Land and Farm Management	25,005	109,897	44,308	120,710	29,395	194,413
0702	Animal Production	118,621	1,247,331	147,539	379,548	1,427,612	1,954,699
0703	Crop and Pasture Production	210,264	497,355	410,613	1,105,131	765,793	2,281,537
0704	Fisheries Sciences	85,220	266,131	162,166	207,867	85,937	455,970
0705	Forestry Sciences	35,389	124,019	35,389	15,965	110,957	162,311

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 3—Industry and Other Research Income (International A)

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
0706	Horticultural Production	64,365	114,949	13,781	114,949	0	128,730
0707	Veterinary Sciences	334,884	708,351	414,006	604,438	515,887	1,534,331
0799	Other Agricultural and Veterinary Sciences	0	0	0	0	0	0
08	**Information and Computing Sciences**	**180,939**	**1,265,113**	**1,665,930**	**1,756,489**	**1,412,381**	**4,834,800**
0801	Artificial Intelligence and Image Processing	138,374	485,213	664,759	683,436	649,502	1,997,697
0802	Computation Theory and Mathematics	27,523	54,281	0	54,281	765	55,046
0803	Computer Software	24,432	67,053	0	70,978	78,721	149,699
0804	Data Format	54,281	54,281	0	54,281	0	54,281
0805	Distributed Computing	90,126	128,223	22,595	227,522	292,000	542,117
0806	Information Systems	193,610	1,265,113	978,576	551,043	389,862	1,919,481
0807	Library and Information Studies	24,713	47,895	0	47,895	1,531	49,426
0899	Other Information and Computing Sciences	67,053	67,053	0	67,053	0	67,053
09	**Engineering**	**228,232**	**3,942,702**	**4,765,968**	**2,995,663**	**4,990,700**	**12,752,331**
0901	Aerospace Engineering	92,447	268,091	268,203	184,782	12,564	465,549
0902	Automotive Engineering	77,501	77,501	0	0	77,501	77,501
0903	Biomedical Engineering	39,175	479,940	75,928	452,719	145,151	673,798
0904	Chemical Engineering	69,250	657,950	55,168	71,843	672,915	799,926
0905	Civil Engineering	100,780	486,400	100,112	281,135	664,930	1,046,177
0906	Electrical and Electronic Engineering	36,734	1,304,786	719,755	790,384	1,892,220	3,402,359
0907	Environmental Engineering	47,919	372,029	55,435	296,150	245,917	597,502
0908	Food Sciences	14,929	27,298	0	23,948	21,317	45,265
0909	Geomatic Engineering	51,310	51,310	4,307	47,003	0	51,310
0910	Manufacturing Engineering	106,015	152,377	163,290	54,189	78,122	295,601
0911	Maritime Engineering	0	0	0	0	0	0
0912	Materials Engineering	72,701	365,088	526,339	256,510	456,138	1,238,987
0913	Mechanical Engineering	56,211	770,488	936,308	360,550	162,013	1,458,871
0914	Resources Engineering and Extractive Metallurgy	134,011	1,715,462	1,703,533	175,528	66,647	1,945,708

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 3—Industry and Other Research Income (International A)

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
0915	Interdisciplinary Engineering	13,213	590,920	157,590	922	459,756	618,268
0999	Other Engineering	35,509	35,509	0	0	35,509	35,509
10	**Technology**	**40,385**	**465,577**	**364,567**	**271,596**	**428,901**	**1,065,064**
1001	Agricultural Biotechnology	156,354	168,660	68,503	84,358	159,848	312,709
1002	Environmental Biotechnology	21,821	37,898	43,642	0	0	43,642
1003	Industrial Biotechnology	14,118	37,898	52,017	0	5,929	57,946
1004	Medical Biotechnology	182,546	227,296	171,078	85,093	108,921	365,092
1005	Communications Technologies	31,286	57,404	5,168	30,101	27,303	62,572
1006	Computer Hardware	0	0	0	0	0	0
1007	Nanotechnology	23,278	67,148	4,056	65,063	126,900	196,019
1099	Other Technology	27,084	27,084	20,103	6,981	0	27,084
11	**Medical and Health Sciences**	**773,204**	**16,142,383**	**32,962,717**	**34,100,885**	**28,021,610**	**95,085,212**
1101	Medical Biochemistry and Metabolomics	9,987	208,740	118,913	129,722	94,657	343,292
1102	Cardiovascular Medicine and Haematology	250,540	874,374	595,742	708,654	680,485	1,984,881
1103	Clinical Sciences	205,600	3,363,008	8,071,512	4,898,036	4,031,191	17,000,739
1104	Complementary and Alternative Medicine	44,882	319,294	203,456	94,115	113,086	410,657
1105	Dentistry	47,328	417,551	315,444	155,760	211,678	682,882
1106	Human Movement and Sports Science	30,914	256,386	287,775	430,072	280,590	998,437
1107	Immunology	569,674	5,556,572	3,998,570	5,986,857	3,155,150	13,140,577
1108	Medical Microbiology	389,334	1,462,779	1,059,956	2,091,453	1,408,447	4,559,856
1109	Neurosciences	257,518	3,903,892	2,504,791	2,519,192	3,117,822	8,141,805
1110	Nursing	5,929	231,093	261,241	9,722	37,173	308,136
1111	Nutrition and Dietetics	92,787	120,540	28,268	59,066	224,607	311,941
1112	Oncology and Carcinogenesis	789,764	1,929,499	2,582,610	3,832,367	2,305,565	8,720,542
1113	Ophthalmology and Optometry	59,789	1,458,344	127,380	1,141,366	438,283	1,707,029
1114	Paediatrics and Reproductive Medicine	509,506	1,175,399	1,741,603	1,302,169	1,489,600	4,533,372
1115	Pharmacology and Pharmaceutical Sciences	44,284	5,742,380	2,795,181	2,307,902	2,555,198	7,658,281

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 3—Industry and Other Research Income (International A)

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
1116	Medical Physiology	107,785	723,006	652,032	584,608	321,367	1,558,007
1117	Public Health and Health Services	193,240	7,122,910	6,715,374	7,721,824	7,531,599	21,968,797
1199	Other Medical and Health Sciences	9,408	565,910	902,869	128,000	25,112	1,055,981
12	**Built Environment and Design**	**106,826**	**2,090,076**	**790,171**	**1,146,040**	**1,146,283**	**3,082,494**
1201	Architecture	54,049	118,042	41,659	103,971	200,330	345,960
1202	Building	11,106	41,252	5,829	6,658	44,950	57,437
1203	Design Practice and Management	152,978	152,978	7,538	326,026	29,870	363,434
1204	Engineering Design	0	0	0	0	0	0
1205	Urban and Regional Planning	75,221	2,036,027	735,145	709,385	871,133	2,315,663
1299	Other Built Environment and Design	0	0	0	0	0	0
13	**Education**	**40,534**	**341,176**	**178,560**	**536,849**	**506,891**	**1,222,300**
1301	Education Systems	17,751	105,187	10,428	206,433	127,656	344,517
1302	Curriculum and Pedagogy	35,323	291,543	54,741	252,242	297,995	604,978
1303	Specialist Studies in Education	23,590	102,848	113,391	78,174	81,240	272,805
1399	Other Education	0	0	0	0	0	0
14	**Economics**	**50,305**	**1,142,668**	**129,537**	**1,677,812**	**476,193**	**2,283,542**
1401	Economic Theory	45,903	56,683	0	58,006	33,800	91,806
1402	Applied Economics	40,661	1,072,420	126,018	1,478,850	394,400	1,999,268
1403	Econometrics	35,123	42,064	0	55,076	42,064	97,140
1499	Other Economics	6,191	83,208	3,519	85,880	5,929	95,328
15	**Commerce, Management, Tourism and Services**	**47,475**	**576,851**	**378,116**	**646,518**	**527,452**	**1,552,086**
1501	Accounting, Auditing and Accountability	16,985	91,723	18,817	114,258	63,784	196,859
1502	Banking, Finance and Investment	10,167	83,208	1,738	83,208	20,330	105,276
1503	Business and Management	35,323	347,605	292,354	190,882	334,006	817,242
1504	Commercial Services	12,903	15,082	11,940	963	21,011	33,914

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 3—Industry and Other Research Income (International A)

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
1505	Marketing	18,871	54,316	0	32,226	64,128	96,354
1506	Tourism	86,807	95,822	36,902	144,469	11,336	192,707
1507	Transportation and Freight Services	42,453	42,453	16,365	18,433	7,655	42,453
1599	Other Commerce, Management, Tourism and Services	33,640	62,079	0	62,079	5,202	67,281
16	**Studies in Human Society**	**90,036**	**1,346,678**	**977,310**	**1,763,317**	**2,131,496**	**4,872,123**
1601	Anthropology	30,265	115,103	73,301	11,241	102,462	187,004
1602	Criminology	41,234	80,938	47,391	0	35,078	82,469
1603	Demography	170,446	325,657	98,574	125,781	116,538	340,893
1604	Human Geography	19,158	95,424	49,592	53,334	23,851	126,777
1605	Policy and Administration	28,871	1,326,830	469,591	642,016	583,798	1,695,405
1606	Political Science	81,709	648,547	130,411	713,658	879,832	1,723,901
1607	Social Work	72,936	134,586	0	73,439	72,433	145,872
1608	Sociology	8,774	183,599	82,692	90,215	257,852	430,759
1699	Other Studies in Human Society	43,671	88,781	25,758	53,633	59,652	139,043
17	**Psychology and Cognitive Sciences**	**48,120**	**1,225,879**	**1,851,213**	**1,407,640**	**1,199,503**	**4,458,356**
1701	Psychology	48,120	845,083	1,400,693	1,129,758	1,038,472	3,568,923
1702	Cognitive Science	141,949	417,789	450,520	277,882	161,031	889,433
1799	Other Psychology and Cognitive Sciences	0	0	0	0	0	0
18	**Law and Legal Studies**	**32,403**	**2,951,500**	**2,636,919**	**367,862**	**1,010,266**	**4,015,047**
1801	Law	32,403	2,951,501	2,636,919	305,783	1,010,266	3,952,968
1802	Maori Law	0	0	0	0	0	0
1899	Other Law and Legal Studies	62,079	62,079	0	62,079	0	62,079
19	**Studies in Creative Arts and Writing**	**11,717**	**146,879**	**35,602**	**285,015**	**6,694**	**327,311**
1901	Art Theory and Criticism	7,983	90,223	33,504	69,112	0	102,616
1902	Film, Television and Digital Media	7,323	7,323	0	7,323	0	7,323

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 3—Industry and Other Research Income (International A)

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
1903	Journalism and Professional Writing	3,020	129,317	2,098	130,239	765	133,102
1904	Performing Arts and Creative Writing	36,973	64,368	0	73,947	0	73,947
1905	Visual Arts and Crafts	5,161	5,929	0	4,394	5,929	10,323
1999	Other Studies in Creative Arts and Writing	0	0	0	0	0	0
20	**Language, Communication and Culture**	**58,408**	**567,908**	**965,989**	**838,369**	**553,082**	**2,357,440**
2001	Communication and Media Studies	20,755	20,891	1,496	41,646	0	43,142
2002	Cultural Studies	20,142	68,069	29,175	105,325	65,207	199,707
2003	Language Studies	18,371	46,166	21,700	49,026	84,862	155,588
2004	Linguistics	58,408	429,611	409,706	539,004	230,758	1,179,468
2005	Literary Studies	20,755	150,264	158,175	20,755	117,166	296,096
2099	Other Language, Communication and Culture	241,720	477,831	345,737	82,613	55,089	483,439
21	**History and Archaeology**	**37,349**	**1,068,678**	**529,945**	**741,747**	**418,575**	**1,690,267**
2101	Archaeology	73,651	1,004,310	365,270	617,177	415,610	1,398,057
2102	Curatorial and Related Studies	13,274	13,274	0	13,274	0	13,274
2103	Historical Studies	9,717	154,958	164,675	111,296	2,965	278,936
2199	Other History and Archaeology	0	0	0	0	0	0
22	**Philosophy and Religious Studies**	**76,859**	**186,585**	**6,898**	**310,103**	**213,497**	**530,498**
2201	Applied Ethics	4,484	6,794	6,029	0	2,940	8,969
2202	History and Philosophy of Specific Fields	5,888	26,768	0	25,624	13,685	39,309
2203	Philosophy	50,091	142,089	0	231,093	71,878	302,971
2204	Religion and Religious Studies	89,624	177,445	869	53,386	124,994	179,249
2299	Other Philosophy and Religious Studies	0	0	0	0	0	0
Total				**71,558,109**	**73,389,610**	**63,324,813**	**208,272,532**

* Median and Maximum Income is based on total research income over the three year period.

HERDC Category 3—Industry and Other Research Income (International B)

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
01	**Mathematical Sciences**	**145,230**	**1,838,808**	**1,134,364**	**1,335,755**	**4,108,807**	**6,578,926**
0101	Pure Mathematics	61,863	1,706,423	486,043	711,544	1,779,861	2,977,448
0102	Applied Mathematics	65,547	297,287	199,928	406,645	872,579	1,479,152
0103	Numerical and Computational Mathematics	16,096	43,979	20,560	43,326	63,325	127,211
0104	Statistics	54,316	538,196	257,755	114,873	1,164,881	1,537,509
0105	Mathematical Physics	37,483	165,420	84,186	59,367	88,667	232,220
0199	Other Mathematical Sciences	85,892	132,383	85,892	0	139,494	225,386
02	**Physical Sciences**	**165,373**	**5,319,336**	**1,517,162**	**3,284,335**	**10,444,742**	**15,246,239**
0201	Astronomical and Space Sciences	48,393	1,778,851	195,088	962,016	2,009,839	3,166,943
0202	Atomic, Molecular, Nuclear, Particle and Plasma Physics	16,513	134,655	133,785	22,469	16,760	173,014
0203	Classical Physics	5,333	109,855	0	0	116,686	116,686
0204	Condensed Matter Physics	135,370	2,577,145	733,657	1,378,194	3,793,839	5,905,690
0205	Optical Physics	111,689	1,697,439	371,931	669,992	3,793,171	4,835,094
0206	Quantum Physics	42,389	163,278	65,312	213,589	96,865	375,766
0299	Other Physical Sciences	77,427	309,635	17,389	38,075	617,582	673,046
03	**Chemical Sciences**	**222,495**	**3,395,747**	**4,900,209**	**2,569,671**	**4,529,193**	**11,999,073**
0301	Analytical Chemistry	83,359	247,847	409,242	526,438	370,775	1,306,455
0302	Inorganic Chemistry	35,903	389,532	8,450	182,019	444,851	635,320
0303	Macromolecular and Materials Chemistry	195,791	490,776	304,365	485,631	480,301	1,270,297
0304	Medicinal and Biomolecular Chemistry	109,839	3,000,997	2,794,731	669,698	429,162	3,893,591
0305	Organic Chemistry	76,855	710,201	245,833	260,019	824,786	1,330,638
0306	Physical Chemistry (Incl. Structural)	88,214	905,875	1,087,043	426,425	1,477,094	2,990,562
0307	Theoretical and Computational Chemistry	18,504	39,188	35,021	11,348	14,879	61,248
0399	Other Chemical Sciences	10,890	334,852	15,524	8,093	487,345	510,962
04	**Earth Sciences**	**547,994**	**5,357,855**	**4,806,092**	**5,941,944**	**7,778,862**	**18,526,898**
0401	Atmospheric Sciences	15,193	444,640	336,645	362,018	212,352	911,015
0402	Geochemistry	58,827	192,570	221,031	524,763	162,051	907,845

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 3—Industry and Other Research Income (International B)

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
0403	Geology	219,751	4,805,958	3,181,900	2,789,770	4,496,148	10,467,818
0404	Geophysics	27,139	1,865,008	361,491	1,396,160	950,002	2,707,653
0405	Oceanography	6,139	516,798	341,588	291,888	329,072	962,548
0406	Physical Geography and Environmental Geoscience	105,701	360,365	273,104	443,122	1,106,404	1,822,630
0499	Other Earth Sciences	284,159	459,448	90,333	134,223	522,833	747,389
05	**Environmental Sciences**	**169,250**	**2,110,338**	**2,437,508**	**4,359,443**	**3,718,971**	**10,515,922**
0501	Ecological Applications	13,342	272,103	287,715	156,119	80,243	524,077
0502	Environmental Science and Management	160,728	836,342	1,646,650	2,101,870	2,214,431	5,962,951
0503	Soil Sciences	134,918	1,468,802	503,143	1,240,577	1,153,162	2,896,882
0599	Other Environmental Sciences	1,132,012	1,132,012	0	860,877	271,135	1,132,012
06	**Biological Sciences**	**380,787**	**5,531,344**	**7,435,496**	**8,967,483**	**11,418,764**	**27,821,743**
0601	Biochemistry and Cell Biology	205,609	2,479,858	2,716,174	2,399,324	2,946,281	8,061,779
0602	Ecology	48,920	651,349	574,258	637,335	1,681,805	2,893,398
0603	Evolutionary Biology	25,053	501,955	130,098	267,484	553,784	951,366
0604	Genetics	230,778	2,241,488	1,588,082	3,184,674	1,853,633	6,626,389
0605	Microbiology	84,742	1,051,193	993,324	767,945	1,126,086	2,887,355
0606	Physiology	69,603	389,443	208,274	60,945	420,662	689,881
0607	Plant Biology	50,371	631,275	984,587	684,994	800,278	2,469,859
0608	Zoology	31,180	1,101,503	106,862	905,821	1,343,490	2,356,173
0699	Other Biological Sciences	100,248	404,937	133,837	58,961	692,745	885,543
07	**Agricultural and Veterinary Sciences**	**186,691**	**4,927,752**	**2,723,763**	**4,335,881**	**13,054,119**	**20,113,763**
0701	Agriculture, Land and Farm Management	82,296	1,021,187	118,527	109,647	1,508,199	1,736,373
0702	Animal Production	28,045	942,113	528,848	304,693	1,737,864	2,571,405
0703	Crop and Pasture Production	31,842	3,013,613	855,893	2,783,092	3,152,908	6,791,893
0704	Fisheries Sciences	27,531	3,636,545	90,351	78,746	3,815,853	3,984,950
0705	Forestry Sciences	31,001	364,937	165,911	261,117	294,274	721,302

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 3—Industry and Other Research Income (International B)

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
0706	Horticultural Production	44,666	307,617	5,500	124,532	405,825	535,857
0707	Veterinary Sciences	183,866	913,663	767,811	630,276	1,817,596	3,215,683
0799	Other Agricultural and Veterinary Sciences	18,649	289,755	190,922	43,778	321,600	556,300
08	**Information and Computing Sciences**	**277,943**	**2,769,979**	**3,536,882**	**3,314,381**	**10,631,331**	**17,482,594**
0801	Artificial Intelligence and Image Processing	153,463	1,339,601	915,147	902,888	2,719,312	4,537,347
0802	Computation Theory and Mathematics	27,143	226,650	218,855	42,946	169,558	431,359
0803	Computer Software	177,670	408,652	583,827	645,504	1,057,735	2,287,066
0804	Data Format	24,979	719,296	613,581	262,927	343,930	1,220,438
0805	Distributed Computing	48,094	274,028	65,300	18,611	1,000,996	1,084,907
0806	Information Systems	118,531	923,787	924,302	1,250,695	3,146,796	5,321,793
0807	Library and Information Studies	74,274	435,727	133,511	103,466	750,409	987,386
0899	Other Information and Computing Sciences	97,973	1,007,152	82,359	87,344	1,442,595	1,612,298
09	**Engineering**	**1,698,595**	**21,948,372**	**19,604,669**	**21,865,038**	**36,567,964**	**78,037,671**
0901	Aerospace Engineering	75,681	463,229	125,419	309,445	655,507	1,090,371
0902	Automotive Engineering	16,969	196,603	0	43,421	279,468	322,889
0903	Biomedical Engineering	6,547	1,227,973	434,580	790,581	1,006,548	2,231,709
0904	Chemical Engineering	444,648	2,141,930	1,577,549	2,173,642	3,612,550	7,363,741
0905	Civil Engineering	222,857	2,792,802	2,343,745	2,169,147	3,819,403	8,332,295
0906	Electrical and Electronic Engineering	605,356	7,636,755	4,490,053	5,606,462	10,590,004	20,686,519
0907	Environmental Engineering	49,201	1,746,641	493,194	1,133,928	1,580,846	3,207,968
0908	Food Sciences	23,180	224,155	34,923	65,390	352,733	453,046
0909	Geomatic Engineering	101,856	398,980	130,110	56,841	416,991	603,942
0910	Manufacturing Engineering	83,602	710,251	87,803	171,195	658,447	917,445
0911	Maritime Engineering	76,828	458,001	78,172	310,972	228,149	617,293
0912	Materials Engineering	137,256	3,066,086	2,227,876	1,808,840	4,372,339	8,409,055
0913	Mechanical Engineering	187,101	2,112,946	1,239,091	2,393,860	3,431,649	7,064,600

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 3—Industry and Other Research Income (International B)

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
0914	Resources Engineering and Extractive Metallurgy	274,283	5,930,266	5,884,337	4,684,533	5,216,910	15,785,780
0915	Interdisciplinary Engineering	79,738	215,368	99,051	80,995	255,326	435,372
0999	Other Engineering	52,795	285,240	358,766	65,786	91,094	515,646
10	**Technology**	**75,018**	**1,593,363**	**880,458**	**1,140,477**	**2,383,313**	**4,404,248**
1001	Agricultural Biotechnology	110,458	397,222	23,085	326,742	270,145	619,972
1002	Environmental Biotechnology	48,486	51,509	13,273	41,149	73,702	128,124
1003	Industrial Biotechnology	33,775	48,486	4,905	21,116	67,668	93,689
1004	Medical Biotechnology	64,567	285,506	131,332	75,794	600,912	808,038
1005	Communications Technologies	22,067	1,306,251	416,754	469,822	754,587	1,641,163
1006	Computer Hardware	151,974	287,113	191,677	106,116	153,737	451,530
1007	Nanotechnology	57,127	181,378	99,432	99,738	305,958	505,128
1099	Other Technology	156,604	156,604	0	0	156,604	156,604
11	**Medical and Health Sciences**	**880,498**	**34,921,702**	**48,409,637**	**38,503,352**	**50,441,060**	**137,354,049**
1101	Medical Biochemistry and Metabolomics	57,724	298,944	132,157	133,084	473,556	738,797
1102	Cardiovascular Medicine and Haematology	318,770	6,009,432	3,680,346	4,261,988	3,488,253	11,430,587
1103	Clinical Sciences	400,945	13,393,017	16,820,941	7,892,927	11,571,685	36,285,553
1104	Complementary and Alternative Medicine	50,108	117,673	127,519	80,326	98,966	306,811
1105	Dentistry	637,440	1,528,505	902,364	1,097,324	2,297,194	4,296,882
1106	Human Movement and Sports Science	37,143	397,790	229,368	380,995	1,055,201	1,665,564
1107	Immunology	176,262	1,904,254	2,473,569	1,648,690	1,712,520	5,834,779
1108	Medical Microbiology	131,115	3,614,052	2,221,266	1,327,618	1,785,448	5,334,332
1109	Neurosciences	217,793	4,756,119	2,096,516	5,064,986	2,631,603	9,793,105
1110	Nursing	40,880	1,656,872	559,770	905,688	1,470,430	2,935,888
1111	Nutrition and Dietetics	86,985	2,428,824	1,059,660	1,010,863	1,062,169	3,132,692
1112	Oncology and Carcinogenesis	140,349	1,023,481	1,995,133	947,201	1,480,995	4,423,329
1113	Ophthalmology and Optometry	198,636	2,637,303	1,727,254	1,321,323	1,817,764	4,866,341
1114	Paediatrics and Reproductive Medicine	241,316	2,956,038	2,235,143	2,557,567	1,876,465	6,669,175

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 3—Industry and Other Research Income (International B)

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
1115	Pharmacology and Pharmaceutical Sciences	204,846	1,618,176	2,687,121	2,016,885	3,761,830	8,465,836
1116	Medical Physiology	165,320	2,079,429	1,221,611	522,180	2,487,250	4,231,041
1117	Public Health and Health Services	296,918	8,692,457	8,137,564	7,099,136	8,348,979	23,585,679
1199	Other Medical and Health Sciences	117,850	2,762,349	102,335	234,571	3,020,752	3,357,658
12	**Built Environment and Design**	**159,225**	**1,270,456**	**954,361**	**1,440,794**	**3,378,244**	**5,773,399**
1201	Architecture	84,686	690,470	102,807	596,849	1,423,918	2,123,574
1202	Building	193,243	763,255	556,429	445,716	939,670	1,941,815
1203	Design Practice and Management	12,349	219,372	94,759	117,517	236,257	448,533
1204	Engineering Design	31,749	31,749	4,360	7,919	19,470	31,749
1205	Urban and Regional Planning	76,151	315,787	168,818	272,793	758,929	1,200,540
1299	Other Built Environment and Design	27,188	27,188	27,188	0	0	27,188
13	**Education**	**219,630**	**2,799,979**	**2,483,005**	**2,615,406**	**9,596,305**	**14,694,716**
1301	Education Systems	80,091	924,088	553,567	332,167	2,430,288	3,316,022
1302	Curriculum and Pedagogy	91,222	929,513	512,105	295,065	2,272,288	3,079,458
1303	Specialist Studies in Education	111,457	2,233,208	883,874	1,917,557	4,617,289	7,418,720
1399	Other Education	131,940	510,076	533,459	70,617	276,440	880,516
14	**Economics**	**329,192**	**2,792,378**	**2,124,942**	**2,909,335**	**6,330,343**	**11,364,620**
1401	Economic Theory	28,217	137,033	102,594	85,587	73,160	261,341
1402	Applied Economics	246,070	1,910,531	1,612,723	2,091,165	4,937,281	8,641,169
1403	Econometrics	121,685	874,891	408,055	717,641	478,835	1,604,531
1499	Other Economics	99,544	651,534	1,570	14,942	841,067	857,579
15	**Commerce, Management, Tourism and Services**	**442,717**	**4,220,009**	**4,133,561**	**5,437,786**	**13,089,183**	**22,660,530**
1501	Accounting, Auditing and Accountability	111,645	475,772	149,074	447,346	2,061,640	2,658,060
1502	Banking, Finance and Investment	34,282	522,285	481,376	194,587	1,073,019	1,748,982
1503	Business and Management	188,592	1,044,141	893,782	1,463,512	4,715,973	7,073,267

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 3—Industry and Other Research Income (International B)

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
1504	Commercial Services	36,582	108,642	17,030	9,238	195,016	221,284
1505	Marketing	114,638	3,882,322	2,352,357	2,804,190	3,951,318	9,107,865
1506	Tourism	169,226	386,344	170,716	394,910	809,980	1,375,606
1507	Transportation and Freight Services	15,896	23,713	0	10,659	21,134	31,793
1599	Other Commerce, Management, Tourism and Services	443,673	443,673	69,226	113,344	261,103	443,673
16	**Studies in Human Society**	**229,452**	**4,147,478**	**5,389,038**	**4,708,629**	**10,340,572**	**20,438,239**
1601	Anthropology	37,705	938,598	564,344	450,919	522,649	1,537,912
1602	Criminology	68,797	201,989	19,338	119,215	390,005	528,558
1603	Demography	171,671	478,022	286,171	213,693	324,753	824,617
1604	Human Geography	33,224	208,247	127,242	21,093	436,274	584,609
1605	Policy and Administration	29,826	1,133,918	600,583	1,476,391	1,638,842	3,715,816
1606	Political Science	253,117	2,245,882	3,175,650	1,020,451	3,942,906	8,139,007
1607	Social Work	6,972	303,018	149,995	221,831	358,045	729,871
1608	Sociology	56,729	940,572	429,430	1,106,883	2,294,685	3,830,998
1699	Other Studies in Human Society	66,337	345,959	36,285	78,153	432,413	546,851
17	**Psychology and Cognitive Sciences**	**199,411**	**2,121,426**	**2,226,179**	**2,712,112**	**4,839,365**	**9,777,656**
1701	Psychology	183,739	1,455,464	1,827,966	2,063,171	3,594,750	7,485,887
1702	Cognitive Science	33,745	1,658,940	398,213	648,941	1,044,742	2,091,896
1799	Other Psychology and Cognitive Sciences	199,873	199,873	0	0	199,873	199,873
18	**Law and Legal Studies**	**105,580**	**767,813**	**349,420**	**1,696,868**	**2,629,986**	**4,676,274**
1801	Law	105,580	767,814	343,423	1,384,166	2,626,981	4,354,570
1802	Maori Law	0	0	0	0	0	0
1899	Other Law and Legal Studies	160,852	309,330	5,997	312,702	3,005	321,704

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 3—Industry and Other Research Income (International B)

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
19	**Studies in Creative Arts and Writing**	**100,434**	**747,614**	**353,116**	**455,899**	**2,636,211**	**3,445,226**
1901	Art Theory and Criticism	52,654	160,289	66,970	102,736	181,054	350,760
1902	Film, Television and Digital Media	35,659	291,998	23,351	90,501	463,575	577,427
1903	Journalism and Professional Writing	7,941	228,921	1,090	2,640	265,467	269,197
1904	Performing Arts and Creative Writing	78,762	419,943	168,275	188,425	1,048,805	1,405,505
1905	Visual Arts and Crafts	54,092	247,773	93,430	71,597	602,927	767,954
1999	Other Studies in Creative Arts and Writing	74,383	74,383	0	0	74,383	74,383
20	**Language, Communication and Culture**	**250,683**	**3,862,702**	**2,642,359**	**2,474,193**	**9,149,014**	**14,265,566**
2001	Communication and Media Studies	102,012	970,347	448,041	572,638	1,478,857	2,499,536
2002	Cultural Studies	73,887	324,966	416,261	373,303	887,589	1,677,153
2003	Language Studies	158,268	382,960	192,233	182,038	876,036	1,250,307
2004	Linguistics	196,122	885,434	301,479	205,439	2,696,286	3,203,204
2005	Literary Studies	128,451	744,594	609,040	396,379	1,051,284	2,056,703
2099	Other Language, Communication and Culture	1,789,332	3,093,258	675,305	744,396	2,158,962	3,578,663
21	**History and Archaeology**	**55,509**	**865,536**	**486,708**	**884,410**	**1,375,106**	**2,746,224**
2101	Archaeology	43,535	474,815	275,997	225,945	672,863	1,174,805
2102	Curatorial and Related Studies	15,434	153,278	21,301	126,242	73,307	220,850
2103	Historical Studies	27,057	390,720	189,410	532,223	628,936	1,350,569
2199	Other History and Archaeology	0	0	0	0	0	0
22	**Philosophy and Religious Studies**	**40,418**	**510,268**	**137,277**	**472,188**	**1,123,142**	**1,732,607**
2201	Applied Ethics	47,257	68,531	33,161	47,162	111,940	192,263
2202	History and Philosophy of Specific Fields	30,573	152,055	1,090	89,490	130,665	221,245
2203	Philosophy	84,941	358,214	58,448	304,596	705,877	1,068,921
2204	Religion and Religious Studies	8,577	138,536	44,578	30,940	174,660	250,178
2299	Other Philosophy and Religious Studies	0	0	0	0	0	0
Total				**118,666,206**	**121,425,380**	**219,564,597**	**459,656,183**

* Median and Maximum Income is based on total research income over the three year period.

HERDC Category 4—CRC Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
01	**Mathematical Sciences**	**303,875**	**1,664,793**	**1,818,755**	**1,231,977**	**1,481,228**	**4,531,960**
0101	Pure Mathematics	8,252	8,252	0	0	8,252	8,252
0102	Applied Mathematics	190,760	1,664,793	1,014,558	893,534	830,545	2,738,637
0103	Numerical and Computational Mathematics	0	0	0	0	0	0
0104	Statistics	226,750	1,185,572	431,447	338,443	642,431	1,412,321
0105	Mathematical Physics	372,750	372,750	372,750	0	0	372,750
0199	Other Mathematical Sciences	0	0	0	0	0	0
02	**Physical Sciences**	**691,958**	**4,056,209**	**2,129,887**	**1,958,969**	**2,023,059**	**6,111,915**
0201	Astronomical and Space Sciences	0	0	0	0	0	0
0202	Atomic, Molecular, Nuclear, Particle and Plasma Physics	1,106,466	2,028,105	764,492	627,455	820,986	2,212,933
0203	Classical Physics	49,810	49,810	0	41,668	8,142	49,810
0204	Condensed Matter Physics	0	0	0	0	0	0
0205	Optical Physics	691,958	2,028,105	1,065,279	1,219,865	1,126,876	3,412,020
0206	Quantum Physics	0	0	0	0	0	0
0299	Other Physical Sciences	437,152	437,152	300,116	69,981	67,055	437,152
03	**Chemical Sciences**	**493,144**	**2,693,570**	**3,584,446**	**5,251,282**	**3,672,436**	**12,508,164**
0301	Analytical Chemistry	50,347	402,154	357,958	70,615	144,557	573,130
0302	Inorganic Chemistry	27,861	172,525	125,717	103,951	66,333	296,001
0303	Macromolecular and Materials Chemistry	342,098	843,851	902,033	950,491	542,853	2,395,377
0304	Medicinal and Biomolecular Chemistry	978,084	1,677,193	419,819	2,036,239	1,296,515	3,752,573
0305	Organic Chemistry	12,731	13,409	12,731	0	13,409	26,140
0306	Physical Chemistry (Incl. Structural)	267,454	1,775,493	1,431,550	1,829,850	1,446,400	4,707,800
0307	Theoretical and Computational Chemistry	0	0	0	0	0	0
0399	Other Chemical Sciences	73,809	673,322	334,638	260,136	162,369	757,143

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 4—CRC Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
04	**Earth Sciences**	**343,726**	**7,617,292**	**6,542,321**	**4,538,646**	**5,475,512**	**16,556,479**
0401	Atmospheric Sciences	61,636	358,166	325,189	107,015	87,536	519,740
0402	Geochemistry	111,582	829,734	517,609	397,013	387,760	1,302,382
0403	Geology	278,275	1,249,297	1,665,076	625,630	424,083	2,714,789
0404	Geophysics	116,942	1,310,849	784,997	522,770	420,270	1,728,037
0405	Oceanography	37,362	6,347,715	1,903,941	1,749,970	2,768,529	6,422,440
0406	Physical Geography and Environmental Geoscience	140,909	1,281,832	1,322,329	1,136,248	1,387,334	3,845,911
0499	Other Earth Sciences	23,180	23,180	23,180	0	0	23,180
05	**Environmental Sciences**	**198,248**	**15,027,367**	**11,781,181**	**12,813,866**	**15,159,825**	**39,754,872**
0501	Ecological Applications	42,482	364,476	253,851	192,390	242,879	689,120
0502	Environmental Science and Management	215,135	15,027,366	10,693,968	12,239,233	14,188,090	37,121,291
0503	Soil Sciences	45,176	874,468	833,362	382,243	728,856	1,944,461
0599	Other Environmental Sciences	0	0	0	0	0	0
06	**Biological Sciences**	**913,853**	**7,509,057**	**12,745,145**	**10,892,791**	**10,627,197**	**34,265,133**
0601	Biochemistry and Cell Biology	104,741	3,602,385	2,223,981	1,879,430	1,705,735	5,809,146
0602	Ecology	123,350	4,143,449	3,302,021	3,003,344	3,081,374	9,386,739
0603	Evolutionary Biology	205,500	371,555	171,095	167,850	238,110	577,055
0604	Genetics	379,426	1,411,653	2,213,698	1,072,155	1,471,052	4,756,905
0605	Microbiology	82,771	2,282,220	1,216,235	2,249,414	727,329	4,192,978
0606	Physiology	8,521	172,675	160,866	34,912	53,954	249,732
0607	Plant Biology	151,104	3,365,609	3,013,576	2,315,480	3,147,909	8,476,965
0608	Zoology	49,278	172,749	341,615	157,246	189,611	688,472
0699	Other Biological Sciences	9,715	115,938	102,058	12,960	12,123	127,141
07	**Agricultural and Veterinary Sciences**	**1,226,909**	**10,777,137**	**18,786,941**	**17,693,477**	**16,033,469**	**52,513,887**
0701	Agriculture, Land and Farm Management	66,536	619,538	530,429	715,752	597,857	1,844,038
0702	Animal Production	844,896	8,496,440	4,972,352	5,995,816	4,712,854	15,681,022
0703	Crop and Pasture Production	1,350,114	5,498,551	7,625,230	5,999,737	5,890,220	19,515,187

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 4—CRC Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
0704	Fisheries Sciences	255,036	1,768,006	1,134,176	1,125,025	1,287,538	3,546,739
0705	Forestry Sciences	873,431	3,143,782	2,074,841	2,254,303	1,944,622	6,273,766
0706	Horticultural Production	83,166	200,857	160,420	138,349	135,555	434,324
0707	Veterinary Sciences	291,382	785,360	1,037,400	601,399	758,312	2,397,111
0799	Other Agricultural and Veterinary Sciences	304,133	1,143,665	1,252,093	863,096	706,511	2,821,700
08	**Information and Computing Sciences**	**353,906**	**4,173,962**	**4,864,994**	**6,120,993**	**6,147,670**	**17,133,657**
0801	Artificial Intelligence and Image Processing	358,241	1,374,356	1,478,621	2,074,385	2,624,049	6,177,055
0802	Computation Theory and Mathematics	35,772	70,057	32,634	0	38,911	71,545
0803	Computer Software	514,343	1,224,862	1,579,576	1,052,675	876,469	3,508,720
0804	Data Format	188,607	188,607	26,083	162,524	0	188,607
0805	Distributed Computing	27,317	1,013,470	79,137	538,058	601,604	1,218,799
0806	Information Systems	132,978	1,514,800	1,479,395	2,154,558	1,970,988	5,604,941
0807	Library and Information Studies	125,095	140,880	189,548	138,793	35,649	363,990
0899	Other Information and Computing Sciences	0	0	0	0	0	0
09	**Engineering**	**2,417,077**	**23,861,660**	**37,123,682**	**37,438,962**	**37,479,922**	**112,042,566**
0901	Aerospace Engineering	99,437	493,613	370,988	265,816	414,882	1,051,686
0902	Automotive Engineering	87,845	610,907	392,866	134,311	174,002	701,179
0903	Biomedical Engineering	292,727	670,539	321,581	324,329	747,026	1,392,936
0904	Chemical Engineering	631,789	3,020,525	2,533,823	2,971,990	2,683,866	8,189,679
0905	Civil Engineering	427,421	1,651,039	2,798,704	4,064,605	3,691,540	10,554,849
0906	Electrical and Electronic Engineering	147,086	2,343,623	1,475,939	1,960,033	2,052,905	5,488,877
0907	Environmental Engineering	370,705	838,393	903,209	863,512	797,857	2,564,578
0908	Food Sciences	247,341	499,202	735,783	540,343	463,409	1,739,535
0909	Geomatic Engineering	1,515,034	1,797,731	1,638,227	1,569,578	1,707,386	4,915,191
0910	Manufacturing Engineering	1,109,186	2,000,964	857,580	1,770,793	1,729,445	4,357,818
0911	Maritime Engineering	0	0	0	0	0	0
0912	Materials Engineering	897,097	6,307,583	6,402,164	6,623,371	9,308,990	22,334,525

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 4—CRC Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
0913	Mechanical Engineering	1,368,189	4,109,058	9,419,353	8,060,229	6,707,385	24,186,967
0914	Resources Engineering and Extractive Metallurgy	1,359,478	12,085,706	9,152,767	8,116,130	6,842,884	24,111,781
0915	Interdisciplinary Engineering	18,743	341,527	120,698	135,043	125,879	381,620
0999	Other Engineering	35,672	49,219	0	38,879	32,466	71,345
10	**Technology**	**71,104**	**1,413,498**	**1,228,696**	**565,053**	**1,234,518**	**3,028,267**
1001	Agricultural Biotechnology	177,590	177,590	45,439	48,604	83,547	177,590
1002	Environmental Biotechnology	47,835	239,437	317,196	105,856	111,188	534,240
1003	Industrial Biotechnology	607,040	1,159,417	643,453	13,887	556,740	1,214,080
1004	Medical Biotechnology	23,184	47,835	40,399	11,572	32,467	84,438
1005	Communications Technologies	43,753	689,636	105,086	304,417	379,004	788,507
1006	Computer Hardware	34,869	55,538	14,200	22,855	32,683	69,738
1007	Nanotechnology	14,644	137,084	62,923	57,862	38,889	159,674
1099	Other Technology	0	0	0	0	0	0
11	**Medical and Health Sciences**	**1,140,215**	**11,541,962**	**12,030,534**	**11,223,793**	**9,304,971**	**32,559,298**
1101	Medical Biochemistry and Metabolomics	220,033	363,621	0	247,339	192,728	440,067
1102	Cardiovascular Medicine and Haematology	963,295	2,312,053	2,028,511	2,391,402	2,025,126	6,445,039
1103	Clinical Sciences	181,161	2,311,989	1,338,843	1,577,389	1,286,936	4,203,168
1104	Complementary and Alternative Medicine	0	0	0	0	0	0
1105	Dentistry	2,070,647	2,070,647	775,306	672,352	622,989	2,070,647
1106	Human Movement and Sports Science	95,900	214,993	37,263	99,128	275,891	412,282
1107	Immunology	523,935	1,991,888	2,042,674	923,799	1,207,114	4,173,587
1108	Medical Microbiology	238,482	753,169	381,506	437,464	568,319	1,387,289
1109	Neurosciences	899,502	1,652,859	722,654	650,365	425,984	1,799,003
1110	Nursing	2,892	2,892	2,892	0	0	2,892
1111	Nutrition and Dietetics	72,383	207,130	36,919	196,599	210,523	444,041
1112	Oncology and Carcinogenesis	199,035	311,495	127,798	130,550	139,722	398,070
1113	Ophthalmology and Optometry	66,225	66,225	1,420	64,805	0	66,225

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 4—CRC Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
1114	Paediatrics and Reproductive Medicine	207,144	1,272,696	712,056	602,915	335,287	1,650,258
1115	Pharmacology and Pharmaceutical Sciences	336,518	575,798	551,517	611,009	147,467	1,309,993
1116	Medical Physiology	34,843	125,236	157,009	0	9,283	166,292
1117	Public Health and Health Services	211,233	2,061,882	3,109,378	2,618,677	1,857,602	7,585,657
1199	Other Medical and Health Sciences	4,788	4,788	4,788	0	0	4,788
12	**Built Environment and Design**	**212,429**	**1,364,764**	**2,232,507**	**1,857,344**	**650,401**	**4,740,252**
1201	Architecture	92,542	585,113	225,232	565,729	226,473	1,017,434
1202	Building	195,751	631,766	787,787	616,693	78,320	1,482,800
1203	Design Practice and Management	339,222	518,739	1,172,196	369,364	154,974	1,696,534
1204	Engineering Design	34,037	34,037	0	0	34,037	34,037
1205	Urban and Regional Planning	35,691	201,052	47,292	305,558	156,597	509,447
1299	Other Built Environment and Design	0	0	0	0	0	0
13	**Education**	**84,580**	**1,022,128**	**660,710**	**1,012,412**	**906,382**	**2,579,504**
1301	Education Systems	8,815	26,037	2,315	8,051	24,487	34,853
1302	Curriculum and Pedagogy	51,933	95,364	39,051	2,314	62,502	103,867
1303	Specialist Studies in Education	101,697	1,022,128	585,516	1,002,047	815,962	2,403,525
1399	Other Education	18,629	33,828	33,828	0	3,431	37,259
14	**Economics**	**117,581**	**521,331**	**671,447**	**956,499**	**956,736**	**2,584,682**
1401	Economic Theory	0	0	0	0	0	0
1402	Applied Economics	117,580	521,331	671,447	936,826	939,202	2,547,475
1403	Econometrics	37,207	37,207	0	19,673	17,534	37,207
1499	Other Economics	0	0	0	0	0	0
15	**Commerce, Management, Tourism and Services**	**650,761**	**2,211,685**	**5,911,826**	**5,090,796**	**4,376,116**	**15,378,738**
1501	Accounting, Auditing and Accountability	80,027	143,728	294,159	165,866	42,933	502,958
1502	Banking, Finance and Investment	519,904	2,187,617	670,841	1,110,809	1,089,735	2,871,385

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 4—CRC Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
1503	Business and Management	56,928	1,413,496	1,429,062	660,441	563,267	2,652,770
1504	Commercial Services	40,442	40,894	60,260	12,621	8,005	80,886
1505	Marketing	68,016	466,315	108,576	384,790	506,934	1,000,300
1506	Tourism	521,888	1,029,787	3,348,928	2,756,269	2,165,242	8,270,439
1507	Transportation and Freight Services	0	0	0	0	0	0
1599	Other Commerce, Management, Tourism and Services	0	0	0	0	0	0
16	**Studies in Human Society**	**136,576**	**1,539,386**	**1,653,082**	**2,248,747**	**1,869,428**	**5,771,257**
1601	Anthropology	74,465	115,449	108,080	53,515	72,893	234,488
1602	Criminology	190,727	379,587	150,334	204,304	26,817	381,455
1603	Demography	113,680	147,339	31,239	109,143	86,980	227,362
1604	Human Geography	41,481	491,327	242,607	252,161	250,103	744,871
1605	Policy and Administration	152,775	1,338,028	759,703	1,137,195	1,066,469	2,963,367
1606	Political Science	14,043	14,043	7,100	6,943	0	14,043
1607	Social Work	15,050	150,406	73,616	59,332	50,173	183,121
1608	Sociology	64,678	320,924	276,887	426,154	315,993	1,019,034
1699	Other Studies in Human Society	3,516	3,516	3,516	0	0	3,516
17	**Psychology and Cognitive Sciences**	**409,684**	**1,447,676**	**1,395,719**	**2,011,450**	**1,829,604**	**5,236,773**
1701	Psychology	409,683	978,359	1,097,851	1,686,485	1,728,599	4,512,935
1702	Cognitive Science	723,838	723,838	297,868	324,965	101,005	723,838
1799	Other Psychology and Cognitive Sciences	0	0	0	0	0	0
18	**Law and Legal Studies**	**283,960**	**1,007,248**	**251,964**	**790,985**	**643,588**	**1,686,537**
1801	Law	283,960	1,007,248	251,964	790,985	643,588	1,686,537
1802	Maori Law	0	0	0	0	0	0
1899	Other Law and Legal Studies	0	0	0	0	0	0
19	**Studies in Creative Arts and Writing**	**82,359**	**355,320**	**271,213**	**117,979**	**86,429**	**475,621**
1901	Art Theory and Criticism	0	0	0	0	0	0
1902	Film, Television and Digital Media	81,431	135,397	81,806	44,017	37,041	162,864

* Median and Maximum Income is based on total research income over the three year period.

continued

HERDC Category 4—CRC Research Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
1903	Journalism and Professional Writing	9,787	14,526	0	5,049	14,526	19,575
1904	Performing Arts and Creative Writing	82,359	205,397	189,407	68,913	34,862	293,182
1905	Visual Arts and Crafts	0	0	0	0	0	0
1999	Other Studies in Creative Arts and Writing	0	0	0	0	0	0
20	**Language, Communication and Culture**	**83,934**	**517,443**	**429,019**	**1,172,162**	**840,214**	**2,441,395**
2001	Communication and Media Studies	514,731	517,444	350,532	726,882	590,534	1,667,948
2002	Cultural Studies	22,720	175,131	76,359	100,506	83,804	260,669
2003	Language Studies	0	0	0	0	0	0
2004	Linguistics	32,899	441,622	2,128	344,774	165,876	512,778
2005	Literary Studies	0	0	0	0	0	0
2099	Other Language, Communication and Culture	0	0	0	0	0	0
21	**History and Archaeology**	**54,210**	**127,714**	**53,918**	**42,889**	**87,296**	**184,103**
2101	Archaeology	3,708	6,189	0	1,228	6,189	7,417
2102	Curatorial and Related Studies	57,123	57,123	34,079	12,730	10,314	57,123
2103	Historical Studies	52,982	64,403	19,839	28,931	70,793	119,563
2199	Other History and Archaeology	0	0	0	0	0	0
22	**Philosophy and Religious Studies**	**55,789**	**79,921**	**48,018**	**18,516**	**45,045**	**111,579**
2201	Applied Ethics	49,399	67,142	35,238	18,516	45,045	98,799
2202	History and Philosophy of Specific Fields	0	0	0	0	0	0
2203	Philosophy	12,780	12,780	12,780	0	0	12,780
2204	Religion and Religious Studies	0	0	0	0	0	0
2299	Other Philosophy and Religious Studies	0	0	0	0	0	0
Total				**126,216,005**	**125,049,588**	**120,931,046**	**372,196,639**

* Median and Maximum Income is based on total research income over the three year period.

Staffing Profile

FoR code	FoR Name	FTE							Headcount		
		Level E	Level D	Level C	Level B	Level A	Other FTE	Total	FTE	Casual	Other Appointment
01	**Mathematical Sciences**	**137.4**	**130.6**	**191.7**	**262.6**	**134.3**	**26.0**	**882.6**	**929.9**	**77.4**	**186.8**
0101	Pure Mathematics	33.7	38.7	45.9	54.9	34.0	2.4	209.6	220.0	16.1	66.8
0102	Applied Mathematics	38.7	37.2	48.6	51.6	32.3	7.9	216.3	224.8	23.7	50.0
0103	Numerical and Computational Mathematics	12.5	10.5	22.0	29.5	12.8	3.0	90.3	94.5	5.8	14.8
0104	Statistics	38.6	32.8	43.3	68.7	26.0	6.7	216.1	227.2	16.6	35.1
0105	Mathematical Physics	10.7	4.9	12.9	14.4	8.8	0.3	52.0	53.7	3.4	11.7
0199	Other Mathematical Sciences	3.2	6.5	19.0	43.5	20.4	5.7	98.3	109.7	11.8	8.4
02	**Physical Sciences**	**163.4**	**120.8**	**182.5**	**247.3**	**227.5**	**111.3**	**1,052.8**	**1,093.0**	**131.3**	**228.4**
0201	Astronomical and Space Sciences	48.0	23.3	44.3	48.6	51.7	33.7	249.6	260.4	31.4	73.6
0202	Atomic, Molecular, Nuclear, Particle and Plasma Physics	25.2	15.4	19.8	31.3	31.5	20.1	143.3	150.2	17.9	33.1
0203	Classical Physics	4.3	5.2	6.3	9.9	7.7	3.7	37.1	39.1	8.3	10.4
0204	Condensed Matter Physics	33.2	20.5	26.7	55.5	32.8	13.8	182.5	188.6	20.4	39.2
0205	Optical Physics	24.7	29.9	37.2	45.1	55.8	13.5	206.2	213.9	27.1	19.5
0206	Quantum Physics	17.2	18.7	18.7	22.7	19.1	3.1	99.5	100.6	9.3	16.6
0299	Other Physical Sciences	10.8	7.8	29.5	34.2	28.9	23.4	134.6	140.2	16.9	36.0
03	**Chemical Sciences**	**153.2**	**135.8**	**187.2**	**284.7**	**366.6**	**160.8**	**1,288.3**	**1,342.7**	**199.5**	**205.0**
0301	Analytical Chemistry	18.0	19.5	31.7	38.9	29.5	23.2	160.8	168.8	32.2	26.9
0302	Inorganic Chemistry	14.6	11.1	18.3	19.1	30.0	20.3	113.4	119.3	34.6	31.6
0303	Macromolecular and Materials Chemistry	19.5	14.6	16.9	39.4	55.7	11.8	157.9	163.7	16.4	13.7
0304	Medicinal and Biomolecular Chemistry	17.5	22.2	23.3	46.3	72.2	13.8	195.3	201.4	33.6	30.9
0305	Organic Chemistry	16.5	20.0	23.6	35.8	64.3	22.4	182.6	190.0	31.7	23.8
0306	Physical Chemistry (Incl. Structural)	47.5	36.2	44.3	63.5	63.1	26.2	280.8	288.3	30.4	57.8
0307	Theoretical and Computational Chemistry	10.9	2.7	5.9	12.3	15.0	8.8	55.6	56.7	5.4	8.7
0399	Other Chemical Sciences	8.7	9.5	23.2	29.4	36.8	34.3	141.9	154.5	15.2	11.6
04	**Earth Sciences**	**135.5**	**100.5**	**146.2**	**217.5**	**139.2**	**66.2**	**805.1**	**854.6**	**65.9**	**279.9**
0401	Atmospheric Sciences	15.2	6.2	13.1	17.1	21.0	4.5	77.1	83.5	3.3	17.1
0402	Geochemistry	21.0	16.7	19.1	26.3	19.8	12.4	115.3	120.2	5.6	27.4

continued

Staffing Profile

FoR code	FoR Name	FTE							Headcount		
		Level E	Level D	Level C	Level B	Level A	Other FTE	Total	FTE	Casual	Other Appointment
0403	Geology	50.3	33.5	43.0	66.0	25.8	11.7	230.3	245.2	20.0	97.8
0404	Geophysics	14.8	12.0	13.3	25.1	15.0	6.0	86.2	90.8	5.4	19.4
0405	Oceanography	10.1	7.8	14.5	18.1	17.3	6.6	74.4	78.2	9.5	24.3
0406	Physical Geography and Environmental Geoscience	22.8	19.7	35.5	47.6	28.5	14.8	168.9	177.2	16.5	58.9
0499	Other Earth Sciences	1.3	4.6	7.7	17.3	11.8	10.2	52.9	59.5	5.6	35.0
05	**Environmental Sciences**	**98.7**	**91.7**	**142.5**	**182.8**	**152.0**	**78.9**	**746.6**	**811.0**	**91.8**	**203.0**
0501	Ecological Applications	10.7	15.0	23.8	39.7	26.7	18.5	134.4	145.8	23.3	38.4
0502	Environmental Science and Management	70.2	64.8	97.7	106.4	77.3	49.1	465.5	504.0	54.0	128.1
0503	Soil Sciences	13.9	10.4	17.8	14.8	24.9	7.3	89.1	96.8	11.3	29.1
0599	Other Environmental Sciences	3.9	1.5	3.2	21.9	23.1	4.0	57.6	64.4	3.2	7.4
06	**Biological Sciences**	**343.5**	**298.0**	**481.1**	**754.5**	**931.5**	**518.9**	**3,327.5**	**3,540.4**	**366.3**	**899.6**
0601	Biochemistry and Cell Biology	96.4	76.9	130.5	223.3	334.8	184.9	1,046.8	1,102.1	83.6	215.9
0602	Ecology	59.5	50.9	70.9	108.2	78.7	40.1	408.3	432.4	77.1	148.5
0603	Evolutionary Biology	18.7	11.5	24.8	32.8	38.0	18.0	143.8	151.6	20.1	54.4
0604	Genetics	40.7	28.5	45.0	78.4	91.2	66.4	350.2	374.7	48.1	118.3
0605	Microbiology	36.0	32.7	69.5	80.2	94.3	57.0	369.7	392.0	38.4	97.6
0606	Physiology	11.7	13.4	20.6	41.2	39.3	17.0	143.2	152.7	19.5	40.4
0607	Plant Biology	44.1	42.3	44.9	85.8	111.1	43.5	371.7	399.1	29.6	87.7
0608	Zoology	30.7	33.8	52.4	57.8	63.0	42.9	280.6	297.7	42.7	120.2
0699	Other Biological Sciences	5.7	8.0	22.5	46.8	81.1	49.1	213.2	238.1	7.2	16.6
07	**Agricultural and Veterinary Sciences**	**120.5**	**129.9**	**209.2**	**295.0**	**194.1**	**153.4**	**1,102.1**	**1,197.4**	**126.0**	**341.5**
0701	Agriculture, Land and Farm Management	8.5	8.3	15.5	27.1	14.7	11.1	85.2	92.7	6.8	33.3
0702	Animal Production	19.5	17.3	32.4	39.7	34.0	23.6	166.5	179.7	7.8	41.4
0703	Crop and Pasture Production	30.3	29.7	33.7	66.0	40.0	33.7	233.4	253.1	24.9	74.5
0704	Fisheries Sciences	13.3	17.2	21.6	26.2	19.6	21.8	119.7	126.0	20.4	34.7
0705	Forestry Sciences	7.3	11.1	16.3	23.5	14.9	10.6	83.7	91.1	14.2	42.5

continued

Staffing Profile

FoR code	FoR Name	FTE							Headcount		
		Level E	Level D	Level C	Level B	Level A	Other FTE	Total	FTE	Casual	Other Appointment
0706	Horticultural Production	12.4	11.1	19.9	21.7	17.3	9.9	92.3	100.6	7.5	42.6
0707	Veterinary Sciences	27.1	32.7	63.5	62.6	38.7	26.2	250.8	272.9	23.5	55.0
0799	Other Agricultural and Veterinary Sciences	2.1	2.5	6.3	28.2	14.9	16.5	70.5	81.3	20.9	17.5
08	**Information and Computing Sciences**	**212.5**	**205.0**	**447.6**	**496.1**	**177.3**	**195.5**	**1,734.0**	**1,816.2**	**264.8**	**308.2**
0801	Artificial Intelligence and Image Processing	72.1	69.8	121.4	136.8	52.5	44.2	496.8	518.1	83.2	89.5
0802	Computation Theory and Mathematics	13.4	12.4	16.7	15.4	10.3	6.3	74.5	78.4	6.8	21.7
0803	Computer Software	23.9	19.0	53.2	46.4	26.5	16.6	185.6	194.2	26.3	48.8
0804	Data Format	6.0	4.4	14.9	17.2	9.5	3.7	55.7	60.2	7.7	10.9
0805	Distributed Computing	18.8	14.9	38.0	35.4	14.2	15.0	136.3	141.5	24.1	13.9
0806	Information Systems	62.8	64.8	136.2	150.5	32.5	30.6	477.4	498.8	72.2	77.2
0807	Library and Information Studies	10.8	6.8	26.6	31.9	9.5	56.1	141.7	149.4	8.3	35.3
0899	Other Information and Computing Sciences	4.7	12.9	40.6	62.5	22.3	23.0	166.0	175.6	36.2	10.9
09	**Engineering**	**449.1**	**381.6**	**671.9**	**816.2**	**524.2**	**288.0**	**3,131.0**	**3,280.1**	**461.3**	**513.6**
0901	Aerospace Engineering	9.8	6.3	14.1	12.8	4.7	2.2	49.9	51.0	1.9	4.2
0902	Automotive Engineering	2.1	3.2	7.2	11.1	3.6	4.7	31.9	35.3	5.5	4.6
0903	Biomedical Engineering	21.8	19.2	35.8	43.4	41.0	15.4	176.6	185.5	19.0	43.1
0904	Chemical Engineering	39.5	33.1	44.7	64.5	78.4	28.5	288.7	306.0	52.0	62.8
0905	Civil Engineering	66.6	53.8	81.4	105.1	43.3	22.3	372.5	391.6	67.4	56.6
0906	Electrical and Electronic Engineering	75.8	64.0	127.3	120.1	56.2	40.3	483.7	505.3	97.7	92.9
0907	Environmental Engineering	16.8	14.0	21.4	36.9	20.2	19.4	128.7	134.7	17.5	26.7
0908	Food Sciences	8.9	10.6	19.7	18.5	17.9	10.4	86.0	92.5	6.4	16.8
0909	Geomatic Engineering	9.6	11.2	23.7	27.9	19.6	4.3	96.3	101.2	15.7	17.5
0910	Manufacturing Engineering	11.2	7.1	18.8	20.1	8.7	10.2	76.1	77.9	4.7	3.7
0911	Maritime Engineering	3.8	6.2	9.2	9.8	2.4	5.4	36.8	38.3	9.7	8.7
0912	Materials Engineering	49.4	43.8	64.6	85.5	67.6	34.4	345.3	355.3	27.1	57.8
0913	Mechanical Engineering	55.8	45.2	79.5	87.1	49.9	27.7	345.2	353.9	57.9	47.8

continued

Staffing Profile

FoR code	FoR Name	FTE							Headcount		
		Level E	Level D	Level C	Level B	Level A	Other FTE	Total	FTE	Casual	Other Appointment
0914	Resources Engineering and Extractive Metallurgy	41.4	32.8	51.5	44.5	27.2	33.4	230.8	241.6	12.6	31.9
0915	Interdisciplinary Engineering	20.5	14.1	25.6	29.1	14.3	8.4	112.0	118.1	21.6	20.6
0999	Other Engineering	16.1	17.0	47.4	99.8	69.2	21.0	270.5	291.9	44.6	17.9
10	**Technology**	**53.1**	**44.9**	**135.5**	**202.9**	**121.7**	**68.8**	**626.9**	**660.0**	**62.2**	**78.1**
1001	Agricultural Biotechnology	6.0	4.3	6.1	11.6	7.5	18.3	53.8	57.8	1.1	5.7
1002	Environmental Biotechnology	1.6	0.9	6.5	8.1	8.5	5.3	30.9	32.8	2.5	5.7
1003	Industrial Biotechnology	3.0	1.5	4.3	5.7	5.9	2.8	23.2	23.9	2.9	3.0
1004	Medical Biotechnology	8.8	8.3	14.4	46.1	16.6	10.6	104.8	114.9	10.0	9.1
1005	Communications Technologies	16.8	12.9	44.8	45.9	19.0	10.1	149.5	153.0	29.6	28.4
1006	Computer Hardware	1.2	2.3	6.4	6.2	4.2	1.7	22.0	22.9	3.4	2.3
1007	Nanotechnology	9.6	8.4	14.5	22.9	18.9	6.4	80.7	83.6	7.4	7.4
1099	Other Technology	6.1	6.3	38.5	56.4	41.1	13.6	162.0	171.1	5.3	16.5
11	**Medical and Health Sciences**	**1,220.3**	**984.0**	**1,814.0**	**2,602.3**	**1,468.5**	**1,147.8**	**9,236.9**	**10,707.1**	**1,075.0**	**4,566.3**
1101	Medical Biochemistry and Metabolomics	10.5	10.7	18.5	25.5	54.7	32.1	152.0	164.0	12.9	38.7
1102	Cardiovascular Medicine and Haematology	43.0	27.3	43.4	47.7	36.1	28.6	226.1	257.7	36.3	280.0
1103	Clinical Sciences	275.0	211.8	346.3	394.7	269.6	234.0	1,731.4	2,123.4	279.3	1,600.1
1104	Complementary and Alternative Medicine	6.8	14.1	25.3	37.8	13.3	13.4	110.7	121.9	11.0	15.0
1105	Dentistry	30.4	25.9	46.9	47.4	20.9	10.8	182.3	217.5	15.8	42.1
1106	Human Movement and Sports Science	56.5	45.1	104.8	146.0	54.7	17.7	424.8	465.2	49.4	86.9
1107	Immunology	51.8	35.7	53.0	73.6	99.3	58.4	371.8	398.8	50.9	177.8
1108	Medical Microbiology	22.5	13.8	23.6	45.1	65.1	19.8	189.9	207.2	20.8	86.0
1109	Neurosciences	81.8	65.4	102.8	143.7	125.7	62.5	581.9	637.7	77.0	268.3
1110	Nursing	100.9	78.3	191.0	381.1	65.8	19.9	837.0	925.3	45.8	151.0
1111	Nutrition and Dietetics	20.5	22.5	34.4	51.2	17.9	9.7	156.2	182.1	11.7	44.8
1112	Oncology and Carcinogenesis	42.3	33.8	45.1	64.5	58.8	50.6	295.1	326.0	40.8	327.2
1113	Ophthalmology and Optometry	23.5	13.0	19.7	34.9	27.5	18.6	137.2	164.0	30.2	103.3
1114	Paediatrics and Reproductive Medicine	57.3	38.4	59.9	65.0	42.7	53.9	317.2	379.7	57.1	354.3

continued

Staffing Profile

FoR code	FoR Name	FTE							Headcount		
		Level E	Level D	Level C	Level B	Level A	Other FTE	Total	FTE	Casual	Other Appointment
1115	Pharmacology and Pharmaceutical Sciences	55.7	45.9	79.1	112.0	96.5	55.6	444.8	487.9	88.2	146.0
1116	Medical Physiology	27.9	20.0	32.0	42.3	28.3	19.6	170.1	181.8	24.4	59.0
1117	Public Health and Health Services	275.3	238.5	418.8	522.9	214.2	207.7	1,877.4	2,231.4	176.1	686.8
1199	Other Medical and Health Sciences	38.6	43.8	169.4	366.9	177.4	234.9	1,031.0	1,235.5	47.3	99.0
12	**Built Environment and Design**	**112.2**	**117.8**	**270.2**	**343.4**	**77.6**	**37.2**	**958.4**	**1,040.8**	**110.7**	**79.4**
1201	Architecture	37.0	40.5	98.2	92.5	16.3	12.0	296.5	319.1	47.6	33.2
1202	Building	19.8	18.4	42.6	42.5	4.7	1.9	129.9	137.1	14.0	11.5
1203	Design Practice and Management	17.2	21.6	52.2	94.9	17.4	4.0	207.3	223.6	10.7	7.4
1204	Engineering Design	0.8	1.3	1.5	2.6	2.5	0.2	8.9	9.5	0.0	0.0
1205	Urban and Regional Planning	28.8	30.8	44.0	52.9	13.0	11.1	180.6	196.0	18.5	24.8
1299	Other Built Environment and Design	8.6	5.2	31.7	58.0	23.7	8.0	135.2	155.5	19.9	2.5
13	**Education**	**269.2**	**353.4**	**805.3**	**1,146.6**	**198.9**	**200.5**	**2,973.9**	**3,198.6**	**232.0**	**354.9**
1301	Education Systems	51.4	59.7	123.0	158.5	35.1	40.2	467.9	496.6	41.7	57.3
1302	Curriculum and Pedagogy	86.4	113.9	279.3	337.0	54.6	47.3	918.5	987.8	59.4	106.9
1303	Specialist Studies in Education	110.4	143.0	289.5	355.1	43.5	73.7	1,015.2	1,083.0	92.7	159.9
1399	Other Education	21.0	36.8	113.5	296.0	65.7	39.3	572.3	631.2	38.2	30.8
14	**Economics**	**198.4**	**155.9**	**234.2**	**352.8**	**91.4**	**30.9**	**1,063.6**	**1,113.7**	**41.3**	**104.4**
1401	Economic Theory	18.2	21.4	25.0	36.2	5.1	1.7	107.6	110.1	1.9	9.0
1402	Applied Economics	143.1	104.1	154.3	188.0	36.0	22.2	647.7	678.5	24.2	75.6
1403	Econometrics	27.2	17.0	18.8	32.1	7.0	1.2	103.3	106.6	1.2	11.1
1499	Other Economics	9.9	13.4	36.1	96.5	43.3	5.8	205.0	218.5	14.0	8.7
15	**Commerce, Management, Tourism and Services**	**459.1**	**382.7**	**846.0**	**1,194.4**	**269.8**	**87.7**	**3,239.7**	**3,374.7**	**221.3**	**228.4**
1501	Accounting, Auditing and Accountability	87.4	85.1	120.6	228.4	58.4	10.7	590.6	614.4	18.8	26.3
1502	Banking, Finance and Investment	66.7	49.7	104.5	146.7	24.9	6.1	398.6	410.9	19.4	14.6
1503	Business and Management	183.3	131.3	308.6	335.0	72.4	30.4	1,061.0	1,106.7	69.2	108.2
1504	Commercial Services	12.6	15.9	37.5	40.7	8.8	3.1	118.6	123.1	8.5	8.2

continued

Staffing Profile

FoR code	FoR Name	FTE							Headcount		
		Level E	Level D	Level C	Level B	Level A	Other FTE	Total	FTE	Casual	Other Appointment
1505	Marketing	55.5	49.8	118.5	151.4	26.8	9.0	411.0	424.2	35.0	35.6
1506	Tourism	24.0	25.6	52.0	74.2	11.9	6.3	194.0	203.5	20.4	17.1
1507	Transportation and Freight Services	7.3	5.2	9.3	15.6	1.0	2.8	41.2	43.0	6.1	4.6
1599	Other Commerce, Management, Tourism and Services	22.3	20.1	95.0	202.4	65.6	19.3	424.7	448.9	43.9	13.8
16	**Studies in Human Society**	**347.7**	**315.1**	**586.7**	**775.7**	**189.7**	**128.9**	**2,343.8**	**2,541.8**	**224.6**	**463.1**
1601	Anthropology	22.8	24.0	41.8	58.9	17.1	2.7	167.3	175.4	13.2	58.2
1602	Criminology	28.7	17.2	38.4	56.3	12.6	8.2	161.4	175.4	17.8	16.4
1603	Demography	10.3	5.8	10.4	14.3	5.3	5.7	51.8	57.0	3.4	8.3
1604	Human Geography	22.1	24.0	46.1	51.2	11.3	8.6	163.3	177.7	14.2	38.1
1605	Policy and Administration	58.2	44.2	74.1	72.3	25.7	29.2	303.7	335.0	23.3	68.4
1606	Political Science	94.5	78.8	123.6	140.0	28.1	26.8	491.8	515.8	53.8	90.9
1607	Social Work	28.2	31.6	63.9	108.8	17.9	9.7	260.1	291.7	23.0	42.2
1608	Sociology	68.7	57.9	126.9	148.7	31.7	22.6	456.5	490.9	44.4	99.0
1699	Other Studies in Human Society	14.2	31.6	61.5	125.2	40.0	15.4	287.9	322.9	31.5	41.6
17	**Psychology and Cognitive Sciences**	**189.9**	**181.3**	**336.2**	**417.6**	**195.7**	**107.9**	**1,428.6**	**1,595.1**	**173.1**	**344.8**
1701	Psychology	167.2	145.8	280.1	306.9	131.6	63.2	1,094.8	1,219.8	147.1	269.7
1702	Cognitive Science	17.5	28.0	25.5	56.4	39.8	11.5	178.7	192.7	15.2	43.9
1799	Other Psychology and Cognitive Sciences	5.2	7.5	30.6	54.3	24.3	33.2	155.1	182.6	10.8	31.2
18	**Law and Legal Studies**	**239.6**	**212.1**	**364.3**	**382.7**	**93.1**	**32.5**	**1,324.3**	**1,417.8**	**103.9**	**190.9**
1801	Law	232.3	205.3	340.3	311.9	73.3	27.8	1,190.9	1,272.4	100.2	182.9
1802	Maori Law	0.0	0.0	0.0	0.6	0.0	0.0	0.6	1.0	0.0	0.0
1899	Other Law and Legal Studies	7.3	6.8	24.0	70.2	19.8	4.7	132.8	144.4	3.7	8.0
19	**Studies in Creative Arts and Writing**	**125.6**	**144.8**	**452.2**	**610.8**	**167.3**	**65.4**	**1,566.1**	**1,745.2**	**216.9**	**190.7**
1901	Art Theory and Criticism	15.0	13.1	29.2	23.8	9.2	3.1	93.4	101.4	11.9	23.6
1902	Film, Television and Digital Media	14.4	26.0	79.3	106.5	28.6	7.7	262.5	283.6	16.7	17.6
1903	Journalism and Professional Writing	16.7	10.6	32.4	41.0	11.3	2.0	114.0	123.7	3.4	6.8

continued

Staffing Profile

FoR code	FoR Name	FTE							Headcount		
		Level E	Level D	Level C	Level B	Level A	Other FTE	Total	FTE	Casual	Other Appointment
1904	Performing Arts and Creative Writing	58.5	68.4	185.3	241.5	61.1	16.9	631.7	701.0	120.1	98.0
1905	Visual Arts and Crafts	19.0	21.2	99.1	141.0	33.9	28.3	342.5	397.8	54.4	39.6
1999	Other Studies in Creative Arts and Writing	2.0	5.5	26.9	57.0	23.2	7.4	122.0	137.7	10.4	5.1
20	**Language, Communication and Culture**	**175.4**	**171.3**	**440.9**	**596.2**	**158.0**	**60.5**	**1,602.3**	**1,710.5**	**163.9**	**323.2**
2001	Communication and Media Studies	27.5	27.9	77.0	109.6	18.4	11.8	272.2	285.1	29.7	27.3
2002	Cultural Studies	46.5	49.5	91.9	108.1	28.1	16.1	340.2	364.4	39.8	54.1
2003	Language Studies	9.6	10.7	51.6	65.4	28.8	3.9	170.0	183.2	6.9	29.4
2004	Linguistics	28.1	25.6	82.6	92.8	29.9	5.9	264.9	284.2	30.9	76.0
2005	Literary Studies	59.5	51.3	100.3	113.1	23.0	17.6	364.8	383.7	44.8	125.2
2099	Other Language, Communication and Culture	4.2	6.3	37.5	107.2	29.8	5.2	190.2	209.9	11.8	11.2
21	**History and Archaeology**	**126.1**	**99.6**	**189.2**	**195.8**	**84.4**	**35.0**	**730.1**	**793.7**	**92.1**	**350.7**
2101	Archaeology	19.2	17.9	31.1	35.6	24.9	6.0	134.7	148.8	21.6	64.2
2102	Curatorial and Related Studies	1.3	3.7	11.0	8.4	5.1	0.9	30.4	32.3	4.7	8.0
2103	Historical Studies	102.4	77.4	139.7	135.7	45.5	21.5	522.2	564.0	61.4	264.1
2199	Other History and Archaeology	3.2	0.6	7.4	16.1	8.9	6.6	42.8	48.6	4.4	14.4
22	**Philosophy and Religious Studies**	**82.4**	**72.8**	**129.5**	**240.6**	**48.4**	**35.7**	**609.4**	**670.9**	**53.6**	**237.2**
2201	Applied Ethics	15.8	14.4	23.8	32.2	3.6	6.7	96.5	108.0	10.7	24.0
2202	History and Philosophy of Specific Fields	13.9	11.6	20.2	25.7	7.7	4.1	83.2	89.9	6.9	46.1
2203	Philosophy	30.8	24.7	54.9	52.1	25.5	6.2	194.2	208.0	20.4	54.7
2204	Religion and Religious Studies	20.1	18.6	24.6	113.2	5.9	5.2	187.6	211.5	13.8	103.1
2299	Other Philosophy and Religious Studies	1.8	3.5	6.0	17.4	5.7	13.5	47.9	53.5	1.8	9.3

Research Commercialisation Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
01	**Mathematical Sciences**	**8,650,512**	**18,467,720**	**6,347,753**	**7,470,293**	**13,301,388**	**27,119,434**
0101	Pure Mathematics	1,202	1,202	1,202	0	0	1,202
0102	Applied Mathematics	13,559,116	18,467,720	6,346,551	7,470,293	13,301,388	27,118,232
0103	Numerical and Computational Mathematics	0	0	0	0	0	0
0104	Statistics	0	0	0	0	0	0
0105	Mathematical Physics	0	0	0	0	0	0
0199	Other Mathematical Sciences	0	0	0	0	0	0
02	**Physical Sciences**	**96,612**	**575,100**	**728,785**	**175,916**	**241,538**	**1,146,239**
0201	Astronomical and Space Sciences	12,571	24,040	11,902	13,240	0	25,142
0202	Atomic, Molecular, Nuclear, Particle and Plasma Physics	173,906	173,906	173,906	0	0	173,906
0203	Classical Physics	44,879	44,879	10,656	23,116	11,107	44,879
0204	Condensed Matter Physics	32,561	444,400	466,838	10,123	381	477,342
0205	Optical Physics	73,634	130,701	50,166	115,700	222,043	387,909
0206	Quantum Physics	2,731	2,731	1,588	0	1,143	2,731
0299	Other Physical Sciences	34,330	34,330	13,729	13,737	6,864	34,330
03	**Chemical Sciences**	**55,148**	**1,730,372**	**609,721**	**123,879**	**1,931,030**	**2,664,630**
0301	Analytical Chemistry	16,639	28,479	0	4,995	28,283	33,278
0302	Inorganic Chemistry	0	0	0	0	0	0
0303	Macromolecular and Materials Chemistry	37,777	494,997	494,997	37,777	18,718	551,492
0304	Medicinal and Biomolecular Chemistry	56,787	1,730,372	22,940	51,016	1,772,063	1,846,019
0305	Organic Chemistry	151,888	151,888	91,784	30,091	30,013	151,888
0306	Physical Chemistry (Incl. Structural)	81,953	81,953	0	0	81,953	81,953
0307	Theoretical and Computational Chemistry	0	0	0	0	0	0
0399	Other Chemical Sciences	0	0	0	0	0	0
04	**Earth Sciences**	**176,663**	**1,157,361**	**152,859**	**614,259**	**743,847**	**1,510,965**
0401	Atmospheric Sciences	23,283	23,283	5,171	5,331	12,781	23,283
0402	Geochemistry	281,662	281,662	135,607	78,695	67,360	281,662

* Median and Maximum Income is based on total research income over the three year period.

continued

Research Commercialisation Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
0403	Geology	193,459	330,042	11,989	145,124	229,806	386,919
0404	Geophysics	99,253	99,253	0	99,253	0	99,253
0405	Oceanography	279	279	92	143	44	279
0406	Physical Geography and Environmental Geoscience	719,569	719,569	0	285,713	433,856	719,569
0499	Other Earth Sciences	0	0	0	0	0	0
05	**Environmental Sciences**	**55,483**	**559,524**	**57,246**	**290,010**	**430,823**	**778,079**
0501	Ecological Applications	742	742	0	313	429	742
0502	Environmental Science and Management	55,484	559,524	50,132	289,697	280,311	620,140
0503	Soil Sciences	78,598	150,083	7,114	0	150,083	157,197
0599	Other Environmental Sciences	0	0	0	0	0	0
06	**Biological Sciences**	**117,245**	**1,059,675**	**1,709,920**	**793,586**	**856,258**	**3,359,764**
0601	Biochemistry and Cell Biology	153,791	1,012,985	1,595,481	552,473	430,054	2,578,008
0602	Ecology	15,058	15,058	0	15,058	0	15,058
0603	Evolutionary Biology	0	0	0	0	0	0
0604	Genetics	60,734	60,734	0	23,903	36,831	60,734
0605	Microbiology	178,937	218,942	111,763	181,607	351,215	644,585
0606	Physiology	1,704	1,704	196	1,508	0	1,704
0607	Plant Biology	18,180	32,338	2,480	19,037	38,158	59,675
0608	Zoology	0	0	0	0	0	0
0699	Other Biological Sciences	0	0	0	0	0	0
07	**Agricultural and Veterinary Sciences**	**1,712,599**	**20,487,792**	**10,640,626**	**9,819,519**	**13,287,470**	**33,747,615**
0701	Agriculture, Land and Farm Management	0	0	0	0	0	0
0702	Animal Production	458,243	19,463,403	6,974,941	6,513,618	6,538,637	20,027,196
0703	Crop and Pasture Production	1,870,356	4,496,147	1,188,550	1,433,033	5,706,910	8,328,493
0704	Fisheries Sciences	38,998	38,998	0	0	38,998	38,998
0705	Forestry Sciences	1,024,389	1,024,389	342,150	341,463	340,776	1,024,389
0706	Horticultural Production	375,516	732,853	732,853	0	18,180	751,033

* Median and Maximum Income is based on total research income over the three year period.

continued

Research Commercialisation Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
0707	Veterinary Sciences	1,788,753	3,464,335	1,402,132	1,531,405	643,969	3,577,506
0799	Other Agricultural and Veterinary Sciences	0	0	0	0	0	0
08	**Information and Computing Sciences**	**38,042**	**22,821,989**	**5,820,104**	**6,039,389**	**14,590,251**	**26,449,744**
0801	Artificial Intelligence and Image Processing	1,547,420	11,346,425	3,035,980	3,572,595	7,836,305	14,444,880
0802	Computation Theory and Mathematics	0	0	0	0	0	0
0803	Computer Software	17,917	156,017	188,351	63,966	87,771	340,088
0804	Data Format	5,738,594	11,475,563	2,566,416	2,359,488	6,551,284	11,477,188
0805	Distributed Computing	0	0	0	0	0	0
0806	Information Systems	44,673	68,884	29,357	43,340	114,891	187,588
0807	Library and Information Studies	0	0	0	0	0	0
0899	Other Information and Computing Sciences	0	0	0	0	0	0
09	**Engineering**	**607,024**	**20,750,866**	**14,152,944**	**17,384,351**	**13,058,989**	**44,596,284**
0901	Aerospace Engineering	0	0	0	0	0	0
0902	Automotive Engineering	0	0	0	0	0	0
0903	Biomedical Engineering	532,150	5,809,735	5,189,334	1,630,715	1,960,972	8,781,021
0904	Chemical Engineering	160,024	2,034,618	1,549,754	162,477	913,350	2,625,581
0905	Civil Engineering	288,087	386,122	418,871	224,815	100,899	744,585
0906	Electrical and Electronic Engineering	122,927	8,103,681	4,371,767	4,643,055	7,170,945	16,185,767
0907	Environmental Engineering	128,064	249,152	5,708	767	249,654	256,129
0908	Food Sciences	214,737	214,737	91,455	87,634	35,648	214,737
0909	Geomatic Engineering	5,042	5,042	5,042	0	0	5,042
0910	Manufacturing Engineering	2,664	2,664	2,664	0	0	2,664
0911	Maritime Engineering	214,785	214,785	0	0	214,785	214,785
0912	Materials Engineering	59,738	1,025,674	136,628	1,039,246	1,378	1,177,252
0913	Mechanical Engineering	217,531	2,497,909	419,699	2,984,960	755,122	4,159,781
0914	Resources Engineering and Extractive Metallurgy	538,004	9,037,621	1,954,021	6,581,020	1,656,236	10,191,277

* Median and Maximum Income is based on total research income over the three year period.

continued

Research Commercialisation Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
0915	Interdisciplinary Engineering	0	0	0	0	0	0
0999	Other Engineering	37,663	37,663	8,001	29,662	0	37,663
10	**Technology**	**805,577**	**1,620,180**	**1,016,260**	**543,352**	**1,759,195**	**3,318,807**
1001	Agricultural Biotechnology	73,668	73,668	73,668	0	0	73,668
1002	Environmental Biotechnology	1,399,582	1,399,582	0	0	1,399,582	1,399,582
1003	Industrial Biotechnology	92,762	98,052	42,366	44,247	98,910	185,523
1004	Medical Biotechnology	0	0	0	0	0	0
1005	Communications Technologies	1,620,181	1,620,181	860,373	499,105	260,703	1,620,181
1006	Computer Hardware	0	0	0	0	0	0
1007	Nanotechnology	0	0	0	0	0	0
1099	Other Technology	39,853	39,853	39,853	0	0	39,853
11	**Medical and Health Sciences**	**354,183**	**98,978,564**	**62,921,134**	**32,758,172**	**28,415,272**	**124,094,578**
1101	Medical Biochemistry and Metabolomics	3,182	10,285	2,594	0	12,959	15,553
1102	Cardiovascular Medicine and Haematology	20,987	74,032	88,956	7,948	28,880	125,784
1103	Clinical Sciences	296,742	24,610,208	17,850,168	8,403,702	8,145,812	34,399,682
1104	Complementary and Alternative Medicine	-	-	-	-	-	-
1105	Dentistry	2,573,931	5,078,048	1,802,087	1,807,500	1,538,276	5,147,863
1106	Human Movement and Sports Science	-	-	-	-	-	-
1107	Immunology	125,378	48,316,316	27,546,700	13,508,066	7,997,229	49,051,995
1108	Medical Microbiology	21,120	21,120	794	518	19,808	21,120
1109	Neurosciences	15,306	1,790,305	15,751	1,714,174	95,066	1,824,991
1110	Nursing	-	-	-	-	-	-
1111	Nutrition and Dietetics	-	-	-	-	-	-
1112	Oncology and Carcinogenesis	7,288,394	14,523,841	8,241,385	3,936,099	2,399,304	14,576,788
1113	Ophthalmology and Optometry	27,191	911,268	477,051	286,554	191,620	955,225
1114	Paediatrics and Reproductive Medicine	79,607	1,105,236	1,296,881	232,566	967,524	2,496,971
1115	Pharmacology and Pharmaceutical Sciences	2,810,846	9,658,287	5,501,152	2,778,171	7,000,724	15,280,047

* Median and Maximum Income is based on total research income over the three year period.

continued

Research Commercialisation Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
1116	Medical Physiology	21,443	150,745	97,615	82,874	18,070	198,559
1117	Public Health and Health Services	-	-	-	-	-	-
1199	Other Medical and Health Sciences	-	-	-	-	-	-
12	**Built Environment and Design**	**26,264**	**71,997**	**1,724**	**71,997**	**24,612**	**98,333**
1201	Architecture	72	72	72	0	0	72
1202	Building	71,997	71,997	0	71,997	0	71,997
1203	Design Practice and Management	26,264	26,264	1,652	0	24,612	26,264
1204	Engineering Design	0	0	0	0	0	0
1205	Urban and Regional Planning	0	0	0	0	0	0
1299	Other Built Environment and Design	0	0	0	0	0	0
13	**Education**	**15,980**	**1,055,983**	**877,598**	**323,434**	**252,836**	**1,453,868**
1301	Education Systems	28,505	187,921	93,298	47,807	78,503	219,608
1302	Curriculum and Pedagogy	65,859	131,558	57,783	68,105	5,830	131,718
1303	Specialist Studies in Education	15,087	1,055,983	726,517	207,522	168,503	1,102,542
1399	Other Education	0	0	0	0	0	0
14	**Economics**	**30,413**	**135,182**	**40,490**	**138,441**	**19,244**	**198,175**
1401	Economic Theory	0	0	0	0	0	0
1402	Applied Economics	57,567	135,182	40,490	138,441	17,077	196,008
1403	Econometrics	2,167	2,167	0	0	2,167	2,167
1499	Other Economics	0	0	0	0	0	0
15	**Commerce, Management, Tourism and Services**	**28,505**	**1,310,997**	**1,344,067**	**0**	**548**	**1,344,615**
1501	Accounting, Auditing and Accountability	0	0	0	0	0	0
1502	Banking, Finance and Investment	0	0	0	0	0	0
1503	Business and Management	28,505	1,310,997	1,344,067	0	548	1,344,615
1504	Commercial Services	0	0	0	0	0	0
1505	Marketing	0	0	0	0	0	0

* Median and Maximum Income is based on total research income over the three year period.

continued

Research Commercialisation Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
1506	Tourism	0	0	0	0	0	0
1507	Transportation and Freight Services	0	0	0	0	0	0
1599	Other Commerce, Management, Tourism and Services	0	0	0	0	0	0
16	**Studies in Human Society**	**14,866**	**34,762**	**6,720**	**83**	**58,665**	**65,468**
1601	Anthropology	0	0	0	0	0	0
1602	Criminology	23,552	34,762	0	0	47,104	47,104
1603	Demography	0	0	0	0	0	0
1604	Human Geography	0	0	0	0	0	0
1605	Policy and Administration	0	0	0	0	0	0
1606	Political Science	0	0	0	0	0	0
1607	Social Work	13,292	13,292	5,087	83	8,122	13,292
1608	Sociology	658	658	658	0	0	658
1699	Other Studies in Human Society	2,207	3,439	975	0	3,439	4,414
17	**Psychology and Cognitive Sciences**	**90,098**	**1,754,969**	**791,581**	**809,927**	**640,091**	**2,241,599**
1701	Psychology	90,098	1,754,969	791,581	809,927	640,091	2,241,599
1702	Cognitive Science	0	0	0	0	0	0
1799	Other Psychology and Cognitive Sciences	0	0	0	0	0	0
18	**Law and Legal Studies**	**-**	**-**	**-**	**-**	**-**	**-**
1801	Law	-	-	-	-	-	-
1802	Maori Law	-	-	-	-	-	-
1899	Other Law and Legal Studies	-	-	-	-	-	-
19	**Studies in Creative Arts and Writing**	**63,507**	**123,399**	**100,658**	**11,075**	**15,280**	**127,013**
1901	Art Theory and Criticism	0	0	0	0	0	0
1902	Film, Television and Digital Media	63,506	123,399	100,658	11,075	15,280	127,013
1903	Journalism and Professional Writing	0	0	0	0	0	0
1904	Performing Arts and Creative Writing	0	0	0	0	0	0
1905	Visual Arts and Crafts	0	0	0	0	0	0
1999	Other Studies in Creative Arts and Writing	0	0	0	0	0	0

* Median and Maximum Income is based on total research income over the three year period.

continued

Research Commercialisation Income

FoR Code	FoR Name	Median Income ($)*	Maximum Income ($)*	2008 Income ($)	2009 Income ($)	2010 Income ($)	Total Income ($)
20	**Language, Communication and Culture**	**1,571**	**31,205**	**32,408**	**1,880**	**0**	**34,288**
2001	Communication and Media Studies	1,512	1,512	1,203	309	0	1,512
2002	Cultural Studies	0	0	0	0	0	0
2003	Language Studies	16,388	31,205	31,205	1,571	0	32,776
2004	Linguistics	0	0	0	0	0	0
2005	Literary Studies	0	0	0	0	0	0
2099	Other Language, Communication and Culture	0	0	0	0	0	0
21	**History and Archaeology**	**3,995**	**7,502**	**7,990**	**0**	**0**	**7,990**
2101	Archaeology	0	0	0	0	0	0
2102	Curatorial and Related Studies	0	0	0	0	0	0
2103	Historical Studies	3,995	7,502	7,990	0	0	7,990
2199	Other History and Archaeology	0	0	0	0	0	0
22	**Philosophy and Religious Studies**	**0**	**0**	**0**	**0**	**0**	**0**
2201	Applied Ethics	0	0	0	0	0	0
2202	History and Philosophy of Specific Fields	0	0	0	0	0	0
2203	Philosophy	0	0	0	0	0	0
2204	Religion and Religious Studies	0	0	0	0	0	0
2299	Other Philosophy and Religious Studies	0	0	0	0	0	0
Total				**107,360,588**	**77,369,563**	**89,627,337**	**274,357,488**

* Median and Maximum Income is based on total research income over the three year period.

Patents Sealed

FoR Code	FoR Name	Australia	United States	Europe	Japan	Other International	Triadic	Total*	% of Total	Patent Family
01	**Mathematical Sciences**	**1.0**	**3.4**	**0.4**	**0.0**	**0.4**	**0.0**	**5.2**	**0.7**	**5.1**
0101	Pure Mathematics	0.0	0.4	0.4	0.0	0.4	0.0	1.2	0.2	1.1
0102	Applied Mathematics	1.0	0.2	0.0	0.0	0.0	0.0	1.2	0.2	1.2
0103	Numerical and Computational Mathematics	0.0	0.8	0.0	0.0	0.0	0.0	0.8	0.1	0.8
0104	Statistics	0.0	2.0	0.0	0.0	0.0	0.0	2.0	0.3	2.0
0105	Mathematical Physics	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0199	Other Mathematical Sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
02	**Physical Sciences**	**9.3**	**29.2**	**2.0**	**4.0**	**14.1**	**0.0**	**58.6**	**7.5**	**44.5**
0201	Astronomical and Space Sciences	0.0	15.0	0.0	0.0	0.0	0.0	15.0	1.9	15.0
0202	Atomic, Molecular, Nuclear, Particle and Plasma Physics	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.1	1.0
0203	Classical Physics	0.2	0.0	0.0	0.0	0.3	0.0	0.5	0.1	0.2
0204	Condensed Matter Physics	4.2	3.3	1.0	3.0	9.0	0.0	20.5	2.6	12.4
0205	Optical Physics	4.3	10.5	1.0	0.0	4.8	0.0	20.6	2.6	15.3
0206	Quantum Physics	0.6	0.4	0.0	0.0	0.0	0.0	1.0	0.1	0.6
0299	Other Physical Sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
03	**Chemical Sciences**	**15.5**	**20.7**	**2.9**	**6.7**	**30.9**	**0.0**	**76.7**	**9.8**	**51.5**
0301	Analytical Chemistry	0.0	1.5	0.0	0.0	3.0	0.0	4.5	0.6	3.7
0302	Inorganic Chemistry	1.2	0.7	0.0	1.7	2.7	0.0	6.3	0.8	5.1
0303	Macromolecular and Materials Chemistry	3.2	3.7	0.4	2.7	14.5	0.0	24.5	3.1	12.6
0304	Medicinal and Biomolecular Chemistry	5.5	9.7	0.0	1.8	4.5	0.0	21.5	2.8	16.5
0305	Organic Chemistry	3.2	2.2	1.7	0.0	2.8	0.0	9.9	1.3	6.7
0306	Physical Chemistry (Incl. Structural)	2.4	2.9	0.8	0.5	3.4	0.0	10.0	1.3	6.9
0307	Theoretical and Computational Chemistry	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0399	Other Chemical Sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

* Triadic patents count as three patents in the Total

Note: The FoRs that do not use Patents as an Applied Measure do not appear in the table above.

continued

Patents Sealed

FoR Code	FoR Name	Australia	United States	Europe	Japan	Other International	Triadic	Total*	% of Total	Patent Family
04	**Earth Sciences**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
0401	Atmospheric Sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0402	Geochemistry	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0403	Geology	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0404	Geophysics	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0405	Oceanography	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0406	Physical Geography and Environmental Geoscience	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0499	Other Earth Sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
05	**Environmental Sciences**	**1.8**	**0.0**	**0.0**	**0.0**	**1.8**	**0.0**	**3.6**	**0.5**	**2.1**
0501	Ecological Applications	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0502	Environmental Science and Management	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.1	1.0
0503	Soil Sciences	0.8	0.0	0.0	0.0	1.8	0.0	2.6	0.3	1.1
0599	Other Environmental Sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
06	**Biological Sciences**	**20.0**	**27.7**	**11.2**	**7.5**	**52.5**	**0.0**	**118.9**	**15.2**	**63.6**
0601	Biochemistry and Cell Biology	6.8	13.6	6.5	2.7	17.8	0.0	47.4	6.1	23.1
0602	Ecology	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.1	0.2
0603	Evolutionary Biology	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0604	Genetics	2.4	4.2	0.6	1.0	4.1	0.0	12.3	1.6	8.0
0605	Microbiology	4.9	3.7	2.2	3.1	16.6	0.0	30.5	3.9	14.8
0606	Physiology	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0607	Plant Biology	4.6	5.9	1.9	0.7	13.3	0.0	26.4	3.4	16.2
0608	Zoology	1.3	0.3	0.0	0.0	0.3	0.0	1.9	0.2	1.3
0699	Other Biological Sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
07	**Agricultural and Veterinary Sciences**	**7.7**	**5.2**	**2.5**	**1.5**	**28.7**	**0.0**	**45.6**	**5.8**	**18.4**
0701	Agriculture, Land and Farm Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0702	Animal Production	0.0	0.0	0.0	0.0	1.5	0.0	1.5	0.2	1.5
0703	Crop and Pasture Production	1.8	1.9	0.6	0.1	4.8	0.0	9.2	1.2	4.4

* Triadic patents count as three patents in the Total

Note: The FoRs that do not use Patents as an Applied Measure do not appear in the table above.

continued

Patents Sealed

FoR Code	FoR Name	Australia	United States	Europe	Japan	Other International	Triadic	Total*	% of Total	Patent Family
0704	Fisheries Sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0705	Forestry Sciences	2.3	0.0	0.8	0.8	14.8	0.0	18.7	2.4	4.1
0706	Horticultural Production	2.6	1.2	0.5	0.0	0.5	0.0	4.8	0.6	4.3
0707	Veterinary Sciences	1.0	2.1	0.6	0.6	7.1	0.0	11.4	1.5	4.1
0799	Other Agricultural and Veterinary Sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
08	**Information and Computing Sciences**	**9.8**	**5.5**	**0.6**	**0.6**	**2.4**	**0.0**	**18.9**	**2.4**	**10.7**
0801	Artificial Intelligence and Image Processing	9.2	2.5	0.3	0.3	2.4	0.0	14.7	1.9	7.1
0802	Computation Theory and Mathematics	0.0	1.0	0.0	0.0	0.0	0.0	1.0	0.1	1.0
0803	Computer Software	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0804	Data Format	0.3	1.0	0.3	0.3	0.0	0.0	1.9	0.2	1.3
0805	Distributed Computing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0806	Information Systems	0.3	1.0	0.0	0.0	0.0	0.0	1.3	0.2	1.3
0807	Library and Information Studies	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0899	Other Information and Computing Sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09	**Engineering**	**50.1**	**46.5**	**12.2**	**4.2**	**93.6**	**0.0**	**206.6**	**26.4**	**132.0**
0901	Aerospace Engineering	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0902	Automotive Engineering	0.0	3.0	0.0	0.0	1.0	0.0	4.0	0.5	1.0
0903	Biomedical Engineering	7.6	4.7	2.2	0.0	5.7	0.0	20.2	2.6	14.8
0904	Chemical Engineering	8.2	5.2	5.1	0.4	25.6	0.0	44.5	5.7	23.5
0905	Civil Engineering	4.0	0.0	1.0	0.0	6.0	0.0	11.0	1.4	10.0
0906	Electrical and Electronic Engineering	8.9	12.7	1.7	0.9	7.8	0.0	32.0	4.1	20.4
0907	Environmental Engineering	3.0	2.0	0.0	0.0	8.0	0.0	13.0	1.7	4.0
0908	Food Sciences	1.6	2.5	0.0	0.2	0.5	0.0	4.8	0.6	3.8
0909	Geomatic Engineering	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.1	1.0
0910	Manufacturing Engineering	0.0	1.0	0.0	0.0	2.0	0.0	3.0	0.4	3.0
0911	Maritime Engineering	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

* Triadic patents count as three patents in the Total

Note: The FoRs that do not use Patents as an Applied Measure do not appear in the table above.

continued

Patents Sealed

FoR Code	FoR Name	Australia	United States	Europe	Japan	Other International	Triadic	Total*	% of Total	Patent Family
0912	Materials Engineering	4.8	5.3	0.3	1.2	10.4	0.0	22.0	2.8	15.5
0913	Mechanical Engineering	5.0	4.0	0.0	1.5	5.8	0.0	16.3	2.1	12.8
0914	Resources Engineering and Extractive Metallurgy	5.0	4.6	1.9	0.0	20.3	0.0	31.8	4.1	19.2
0915	Interdisciplinary Engineering	1.0	1.5	0.0	0.0	0.5	0.0	3.0	0.4	3.0
0999	Other Engineering	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	**Technology**	**8.5**	**6.0**	**2.2**	**1.6**	**19.9**	**0.0**	**38.2**	**4.9**	**20.7**
1001	Agricultural Biotechnology	1.0	0.0	0.5	0.0	0.5	0.0	2.0	0.3	1.0
1002	Environmental Biotechnology	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1003	Industrial Biotechnology	0.9	0.9	0.7	0.0	0.9	0.0	3.4	0.4	1.9
1004	Medical Biotechnology	4.0	3.3	0.4	1.0	8.5	0.0	17.2	2.2	12.2
1005	Communications Technologies	2.0	1.6	0.6	0.6	9.4	0.0	14.2	1.8	4.2
1006	Computer Hardware	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3
1007	Nanotechnology	0.3	0.2	0.0	0.0	0.6	0.0	1.1	0.1	1.1
1099	Other Technology	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	**Medical and Health Sciences**	**44.4**	**44.9**	**24.3**	**11.1**	**84.1**	**0.0**	**208.8**	**26.7**	**128.8**
1101	Medical Biochemistry and Metabolomics	0.7	1.8	1.0	1.0	0.0	0.0	4.5	0.6	2.9
1102	Cardiovascular Medicine and Haematology	2.8	2.5	0.0	0.0	1.0	0.0	6.3	0.8	5.3
1103	Clinical Sciences	7.4	9.6	3.4	3.9	26.7	0.0	51.0	6.5	23.7
1104	Complementary and Alternative Medicine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1105	Dentistry	1.2	3.3	1.2	2.4	13.5	0.0	21.6	2.8	7.2
1106	Human Movement and Sports Science	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1107	Immunology	7.1	2.8	1.5	0.7	3.8	0.0	15.9	2.0	12.3
1108	Medical Microbiology	2.8	0.2	1.4	0.4	5.3	0.0	10.1	1.3	4.9
1109	Neurosciences	4.9	5.2	5.0	0.0	10.5	0.0	25.6	3.3	14.8
1110	Nursing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1111	Nutrition and Dietetics	0.0	0.4	0.0	0.4	0.4	0.0	1.2	0.2	0.4

* Triadic patents count as three patents in the Total

Note: The FoRs that do not use Patents as an Applied Measure do not appear in the table above.

continued

Patents Sealed

FoR Code	FoR Name	Australia	United States	Europe	Japan	Other International	Triadic	Total*	% of Total	Patent Family
1112	Oncology and Carcinogenesis	4.5	6.9	4.3	0.3	3.3	0.0	19.3	2.5	14.0
1113	Ophthalmology and Optometry	1.0	5.8	2.0	1.0	2.0	0.0	11.8	1.5	10.8
1114	Paediatrics and Reproductive Medicine	5.0	1.0	2.0	0.0	5.0	0.0	13.0	1.7	9.0
1115	Pharmacology and Pharmaceutical Sciences	4.9	4.1	2.5	1.0	11.0	0.0	23.5	3.0	20.4
1116	Medical Physiology	2.1	1.3	0.0	0.0	1.6	0.0	5.0	0.6	3.1
1117	Public Health and Health Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1199	Other Medical and Health Sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	**Built Environment and Design**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
1201	Architecture	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1202	Building	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1203	Design Practice and Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1204	Engineering Design	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1205	Urban and Regional Planning	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1299	Other Built Environment and Design	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	**Studies in Creative Arts and Writing**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
1901	Art Theory and Criticism	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1902	Film, Television and Digital Media	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1903	Journalism and Professional Writing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1904	Performing Arts and Creative Writing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1905	Visual Arts and Crafts	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1999	Other Studies in Creative Arts and Writing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	**History and Archaeology**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
2102	Curatorial and Related Studies	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total		**168.1**	**189.1**	**58.3**	**37.2**	**328.4**	**0.0**	**781.1**	**100**	**477.4**

* Triadic patents count as three patents in the Total

Note: The FoRs that do not use Patents as an Applied Measure do not appear in the table above.

Plant Breeder's Rights

FoR Code	FoR Name	Plant Breeders Rights	% of Total
05	**Environmental Sciences**	**0.0**	**0.0**
0501	Ecological Applications	0.0	0.0
0502	Environmental Science and Management	0.0	0.0
0503	Soil Sciences	0.0	0.0
0599	Other Environmental Sciences	0.0	0.0
06	**Biological Sciences**	**2.0**	**5.1**
0604	Genetics	0.0	0.0
0607	Plant Biology	2.0	5.1
07	**Agricultural and Veterinary Sciences**	**37.0**	**94.9**
0703	Crop and Pasture Production	24.0	61.5
0705	Forestry Sciences	0.0	0.0
0706	Horticultural Production	13.0	33.3
10	**Technology**	**0.0**	**0.0**
1001	Agricultural Biotechnology	0.0	0.0
1002	Environmental Biotechnology	0.0	0.0
1003	Industrial Biotechnology	0.0	0.0
Total		**39.0**	**100**

NHMRC Endorsed Guidelines

FoR Code	FoR Name	Guidelines	% of Total
11	**Medical and Health Sciences**	**50.0**	**100.0**
1101	Medical Biochemistry and Metabolomics	0.3	0.6
1102	Cardiovascular Medicine and Haematology	2.4	4.8
1103	Clinical Sciences	13.1	26.2
1104	Complementary and Alternative Medicine	0.0	0.0
1105	Dentistry	1.0	2.0
1106	Human Movement and Sports Science	0.2	0.4
1107	Immunology	0.3	0.6
1108	Medical Microbiology	0.2	0.4
1109	Neurosciences	0.9	1.8
1110	Nursing	4.2	8.4
1111	Nutrition and Dietetics	0.8	1.6
1112	Oncology and Carcinogenesis	1.5	3.0
1113	Ophthalmology and Optometry	1.5	3.0
1114	Paediatrics and Reproductive Medicine	2.3	4.6
1115	Pharmacology and Pharmaceutical Sciences	0.2	0.4
1116	Medical Physiology	0.0	0.0
1117	Public Health and Health Services	18.8	37.6
1199	Other Medical and Health Sciences	2.3	4.6
Total		**50.0**	**100**

Esteem

FoR Code	FoR Name	Editor of a Prestigious Work of Reference	Fellowship of a Learned Academy or Membership of AIATSIS	Membership of a Statutory Committee	Recipient of a Nationally Competitive Research Fellowship	Recipient of an Australia Council Grant or Fellowship	Total	% of Total
01	**Mathematical Sciences**	**-**	**32.6**	**-**	**97.6**	**-**	**130.2**	**2.9**
0101	Pure Mathematics	-	16.7	-	42.4	-	59.1	1.3
0102	Applied Mathematics	-	4.1	-	27.0	-	31.1	0.7
0103	Numerical and Computational Mathematics	-	1.6	-	4.7	-	6.3	0.1
0104	Statistics	-	5.3	-	17.2	-	22.5	0.5
0105	Mathematical Physics	-	4.9	-	6.3	-	11.2	0.2
0199	Other Mathematical Sciences	-	0.0	-	0.0	-	0.0	0.0
02	**Physical Sciences**	**-**	**42.9**	**-**	**177.7**	**-**	**220.6**	**4.9**
0201	Astronomical and Space Sciences	-	8.2	-	35.1	-	43.3	1.0
0202	Atomic, Molecular, Nuclear, Particle and Plasma Physics	-	9.1	-	21.3	-	30.4	0.7
0203	Classical Physics	-	2.8	-	3.3	-	6.1	0.1
0204	Condensed Matter Physics	-	10.1	-	38.5	-	48.6	1.1
0205	Optical Physics	-	4.2	-	43.2	-	47.4	1.1
0206	Quantum Physics	-	6.5	-	28.3	-	34.8	0.8
0299	Other Physical Sciences	-	2.0	-	8.0	-	10.0	0.2
03	**Chemical Sciences**	**-**	**48.9**	**-**	**140.8**	**-**	**189.7**	**4.2**
0301	Analytical Chemistry	-	3.3	-	20.0	-	23.3	0.5
0302	Inorganic Chemistry	-	9.1	-	13.6	-	22.7	0.5
0303	Macromolecular and Materials Chemistry	-	7.2	-	29.2	-	36.4	0.8
0304	Medicinal and Biomolecular Chemistry	-	2.9	-	18.2	-	21.1	0.5
0305	Organic Chemistry	-	10.0	-	9.3	-	19.3	0.4
0306	Physical Chemistry (Incl. Structural)	-	11.1	-	33.5	-	44.6	1.0
0307	Theoretical and Computational Chemistry	-	3.3	-	11.3	-	14.6	0.3
0399	Other Chemical Sciences	-	2.0	-	5.7	-	7.7	0.2

continued

Esteem

FoR Code	FoR Name	Editor of a Prestigious Work of Reference	Fellowship of a Learned Academy or Membership of AIATSIS	Membership of a Statutory Committee	Recipient of a Nationally Competitive Research Fellowship	Recipient of an Australia Council Grant or Fellowship	Total	% of Total
04	**Earth Sciences**	**-**	**36.1**	**-**	**90.2**	**-**	**126.3**	**2.8**
0401	Atmospheric Sciences	-	5.5	-	12.6	-	18.1	0.4
0402	Geochemistry	-	7.6	-	21.8	-	29.4	0.7
0403	Geology	-	13.5	-	34.4	-	47.9	1.1
0404	Geophysics	-	2.3	-	5.6	-	7.9	0.2
0405	Oceanography	-	4.3	-	5.3	-	9.6	0.2
0406	Physical Geography and Environmental Geoscience	-	2.9	-	9.5	-	12.4	0.3
0499	Other Earth Sciences	-	0.0	-	1.0	-	1.0	0.0
05	**Environmental Sciences**	**-**	**17.1**	**-**	**46.6**	**-**	**63.7**	**1.4**
0501	Ecological Applications	-	2.3	-	10.8	-	13.1	0.3
0502	Environmental Science and Management	-	9.9	-	31.0	-	40.9	0.9
0503	Soil Sciences	-	4.1	-	3.2	-	7.3	0.2
0599	Other Environmental Sciences	-	0.8	-	1.6	-	2.4	0.1
06	**Biological Sciences**	**-**	**77.3**	**-**	**401.6**	**-**	**478.9**	**10.7**
0601	Biochemistry and Cell Biology	-	17.9	-	155.4	-	173.3	3.9
0602	Ecology	-	8.5	-	43.2	-	51.7	1.2
0603	Evolutionary Biology	-	4.9	-	40.8	-	45.7	1.0
0604	Genetics	-	9.5	-	59.4	-	68.9	1.5
0605	Microbiology	-	8.3	-	21.1	-	29.4	0.7
0606	Physiology	-	5.3	-	16.1	-	21.4	0.5
0607	Plant Biology	-	14.0	-	32.9	-	46.9	1.0
0608	Zoology	-	8.4	-	30.7	-	39.1	0.9
0699	Other Biological Sciences	-	0.5	-	2.0	-	2.5	0.1
07	**Agricultural and Veterinary Sciences**	**-**	**14.6**	**-**	**22.5**	**-**	**37.1**	**0.8**
0701	Agriculture, Land and Farm Management	-	0.4	-	2.2	-	2.6	0.1
0702	Animal Production	-	0.7	-	2.5	-	3.2	0.1

continued

Esteem

FoR Code	FoR Name	Editor of a Prestigious Work of Reference	Fellowship of a Learned Academy or Membership of AIATSIS	Membership of a Statutory Committee	Recipient of a Nationally Competitive Research Fellowship	Recipient of an Australia Council Grant or Fellowship	Total	% of Total
0703	Crop and Pasture Production	-	7.0	-	2.4	-	9.4	0.2
0704	Fisheries Sciences	-	1.0	-	4.3	-	5.3	0.1
0705	Forestry Sciences	-	1.9	-	5.2	-	7.1	0.2
0706	Horticultural Production	-	1.0	-	1.5	-	2.5	0.1
0707	Veterinary Sciences	-	2.6	-	4.4	-	7.0	0.2
0799	Other Agricultural and Veterinary Sciences	-	0.0	-	0.0	-	0.0	0.0
08	**Information and Computing Sciences**	**-**	**13.1**	**-**	**59.1**	**-**	**72.2**	**1.6**
0801	Artificial Intelligence and Image Processing	-	5.9	-	24.7	-	30.6	0.7
0802	Computation Theory and Mathematics	-	1.7	-	7.1	-	8.8	0.2
0803	Computer Software	-	0.5	-	6.0	-	6.5	0.1
0804	Data Format	-	0.0	-	1.4	-	1.4	0.0
0805	Distributed Computing	-	0.9	-	4.4	-	5.3	0.1
0806	Information Systems	-	3.8	-	13.2	-	17.0	0.4
0807	Library and Information Studies	-	0.0	-	2.0	-	2.0	0.0
0899	Other Information and Computing Sciences	-	0.3	-	0.3	-	0.6	0.0
09	**Engineering**	**-**	**106.9**	**-**	**236.6**	**-**	**343.5**	**7.7**
0901	Aerospace Engineering	-	0.5	-	0.7	-	1.2	0.0
0902	Automotive Engineering	-	0.4	-	0.0	-	0.4	0.0
0903	Biomedical Engineering	-	4.1	-	17.3	-	21.4	0.5
0904	Chemical Engineering	-	21.6	-	29.9	-	51.5	1.1
0905	Civil Engineering	-	14.2	-	24.7	-	38.9	0.9
0906	Electrical and Electronic Engineering	-	23.0	-	38.5	-	61.5	1.4
0907	Environmental Engineering	-	2.7	-	3.7	-	6.4	0.1
0908	Food Sciences	-	0.2	-	0.0	-	0.2	0.0
0909	Geomatic Engineering	-	2.1	-	8.1	-	10.2	0.2
0910	Manufacturing Engineering	-	4.0	-	4.8	-	8.8	0.2

continued

Esteem

FoR Code	FoR Name	Editor of a Prestigious Work of Reference	Fellowship of a Learned Academy or Membership of AIATSIS	Membership of a Statutory Committee	Recipient of a Nationally Competitive Research Fellowship	Recipient of an Australia Council Grant or Fellowship	Total	% of Total
0911	Maritime Engineering	-	0.3	-	2.7	-	3.0	0.1
0912	Materials Engineering	-	11.8	-	64.7	-	76.5	1.7
0913	Mechanical Engineering	-	10.4	-	24.3	-	34.7	0.8
0914	Resources Engineering and Extractive Metallurgy	-	11.2	-	11.3	-	22.5	0.5
0915	Interdisciplinary Engineering	-	0.4	-	5.1	-	5.5	0.1
0999	Other Engineering	-	0.0	-	0.8	-	0.8	0.0
10	**Technology**	**-**	**5.4**	**-**	**46.8**	**-**	**52.2**	**1.2**
1001	Agricultural Biotechnology	-	0.3	-	2.9	-	3.2	0.1
1002	Environmental Biotechnology	-	0.0	-	1.3	-	1.3	0.0
1003	Industrial Biotechnology	-	0.8	-	1.7	-	2.5	0.1
1004	Medical Biotechnology	-	0.0	-	3.4	-	3.4	0.1
1005	Communications Technologies	-	3.2	-	19.1	-	22.3	0.5
1006	Computer Hardware	-	0.0	-	0.9	-	0.9	0.0
1007	Nanotechnology	-	1.1	-	16.4	-	17.5	0.4
1099	Other Technology	-	0.0	-	1.1	-	1.1	0.0
11	**Medical and Health Sciences**	**-**	**99.7**	**365.8**	**865.0**	**-**	**1,330.5**	**29.7**
1101	Medical Biochemistry and Metabolomics	-	1.5	-	17.7	-	19.2	0.4
1102	Cardiovascular Medicine and Haematology	-	2.8	-	49.4	-	52.2	1.2
1103	Clinical Sciences	-	20.8	-	145.9	-	166.7	3.7
1104	Complementary and Alternative Medicine	-	0.0	2.3	0.0	-	2.3	0.1
1105	Dentistry	-	0.6	-	5.1	-	5.7	0.1
1106	Human Movement and Sports Science	-	1.0	6.7	17.3	-	25.0	0.6
1107	Immunology	-	11.0	-	73.9	-	84.9	1.9
1108	Medical Microbiology	-	2.3	-	31.0	-	33.3	0.7
1109	Neurosciences	-	18.9	-	129.9	-	148.8	3.3

continued

Esteem

FoR Code	FoR Name	Editor of a Prestigious Work of Reference	Fellowship of a Learned Academy or Membership of AIATSIS	Membership of a Statutory Committee	Recipient of a Nationally Competitive Research Fellowship	Recipient of an Australia Council Grant or Fellowship	Total	% of Total
1110	Nursing	-	0.0	16.7	4.8	-	21.5	0.5
1111	Nutrition and Dietetics	-	0.3	1.1	13.0	-	14.4	0.3
1112	Oncology and Carcinogenesis	-	7.1	-	44.8	-	51.9	1.2
1113	Ophthalmology and Optometry	-	2.5	-	9.1	-	11.6	0.3
1114	Paediatrics and Reproductive Medicine	-	2.4	-	44.6	-	47.0	1.0
1115	Pharmacology and Pharmaceutical Sciences	-	1.3	-	37.0	-	38.3	0.9
1116	Medical Physiology	-	5.3	-	37.4	-	42.7	1.0
1117	Public Health and Health Services	-	21.4	313.8	198.1	-	533.3	11.9
1199	Other Medical and Health Sciences	-	0.5	25.2	6.0	-	31.7	0.7
12	**Built Environment and Design**	**0.0**	**8.5**	**-**	**10.6**	**-**	**19.1**	**0.4**
1201	Architecture	0.0	5.7	-	7.2	-	12.9	0.3
1202	Building	0.0	0.5	-	0.1	-	0.6	0.0
1203	Design Practice and Management	0.0	0.0	-	0.5	-	0.5	0.0
1204	Engineering Design	0.0	0.0	-	0.0	-	0.0	0.0
1205	Urban and Regional Planning	0.0	2.3	-	2.4	-	4.7	0.1
1299	Other Built Environment and Design	0.0	0.0	-	0.4	-	0.4	0.0
13	**Education**	**2.0**	**33.5**	**-**	**21.4**	**-**	**56.9**	**1.3**
1301	Education Systems	1.5	4.9	-	4.4	-	10.8	0.2
1302	Curriculum and Pedagogy	0.0	14.2	-	4.3	-	18.5	0.4
1303	Specialist Studies in Education	0.5	12.4	-	12.5	-	25.4	0.6
1399	Other Education	0.0	2.0	-	0.2	-	2.2	0.0
14	**Economics**	**1.0**	**64.3**	**-**	**32.8**	**-**	**98.1**	**2.2**
1401	Economic Theory	0.0	4.2	-	5.1	-	9.3	0.2
1402	Applied Economics	1.0	49.2	-	17.4	-	67.6	1.5
1403	Econometrics	0.0	9.5	-	8.1	-	17.6	0.4
1499	Other Economics	0.0	1.4	-	2.2	-	3.6	0.1

continued

Esteem

FoR Code	FoR Name	Editor of a Prestigious Work of Reference	Fellowship of a Learned Academy or Membership of AIATSIS	Membership of a Statutory Committee	Recipient of a Nationally Competitive Research Fellowship	Recipient of an Australia Council Grant or Fellowship	Total	% of Total
15	**Commerce, Management, Tourism and Services**	**3.0**	**22.8**	**-**	**15.1**	**-**	**40.9**	**0.9**
1501	Accounting, Auditing and Accountability	0.0	5.5	-	1.3	-	6.8	0.2
1502	Banking, Finance and Investment	0.0	3.2	-	1.0	-	4.2	0.1
1503	Business and Management	3.0	13.7	-	8.9	-	25.6	0.6
1504	Commercial Services	0.0	0.0	-	0.0	-	0.0	0.0
1505	Marketing	0.0	0.1	-	1.3	-	1.4	0.0
1506	Tourism	0.0	0.0	-	1.5	-	1.5	0.0
1507	Transportation and Freight Services	0.0	0.3	-	1.1	-	1.4	0.0
1599	Other Commerce, Management, Tourism and Services	0.0	0.0	-	0.0	-	0.0	0.0
16	**Studies in Human Society**	**6.8**	**173.4**	**-**	**105.8**	**-**	**286.0**	**6.4**
1601	Anthropology	0.0	41.6	-	19.6	-	61.2	1.4
1602	Criminology	2.0	7.3	-	3.9	-	13.2	0.3
1603	Demography	0.0	2.5	-	6.5	-	9.0	0.2
1604	Human Geography	0.0	15.5	-	9.5	-	25.0	0.6
1605	Policy and Administration	0.5	16.6	-	11.3	-	28.4	0.6
1606	Political Science	4.1	45.1	-	20.7	-	69.9	1.6
1607	Social Work	0.0	3.7	-	3.5	-	7.2	0.2
1608	Sociology	0.2	28.9	-	20.1	-	49.2	1.1
1699	Other Studies in Human Society	0.0	12.2	-	10.7	-	22.9	0.5
17	**Psychology and Cognitive Sciences**	**2.7**	**50.6**	**-**	**130.1**	**-**	**183.4**	**4.1**
1701	Psychology	1.7	40.6	-	104.6	-	146.9	3.3
1702	Cognitive Science	1.0	8.7	-	24.7	-	34.4	0.8
1799	Other Psychology and Cognitive Sciences	0.0	1.3	-	0.8	-	2.1	0.0
18	**Law and Legal Studies**	**2.0**	**29.2**	**-**	**25.1**	**-**	**56.3**	**1.3**
1801	Law	2.0	29.0	-	24.7	-	55.7	1.2
1802	Maori Law	0.0	0.0	-	0.0	-	0.0	0.0
1899	Other Law and Legal Studies	0.0	0.2	-	0.4	-	0.6	0.0

continued

Esteem

FoR Code	FoR Name	Editor of a Prestigious Work of Reference	Fellowship of a Learned Academy or Membership of AIATSIS	Membership of a Statutory Committee	Recipient of a Nationally Competitive Research Fellowship	Recipient of an Australia Council Grant or Fellowship	Total	% of Total
19	**Studies in Creative Arts and Writing**	**2.0**	**42.5**	**-**	**19.7**	**56.1**	**120.3**	**2.7**
1901	Art Theory and Criticism	0.0	9.5	-	5.4	0.5	15.4	0.3
1902	Film, Television and Digital Media	0.2	6.6	-	4.8	1.5	13.1	0.3
1903	Journalism and Professional Writing	0.0	0.0	-	0.5	0.0	0.5	0.0
1904	Performing Arts and Creative Writing	1.8	21.9	-	7.8	16.0	47.5	1.1
1905	Visual Arts and Crafts	0.0	3.8	-	1.2	38.1	43.1	1.0
1999	Other Studies in Creative Arts and Writing	0.0	0.7	-	0.0	0.0	0.7	0.0
20	**Language, Communication and Culture**	**5.0**	**127.0**	**-**	**61.3**	**-**	**193.3**	**4.3**
2001	Communication and Media Studies	0.0	7.8	-	8.7	-	16.5	0.4
2002	Cultural Studies	0.0	23.7	-	18.9	-	42.6	0.9
2003	Language Studies	0.0	11.5	-	1.4	-	12.9	0.3
2004	Linguistics	1.0	35.5	-	12.4	-	48.9	1.1
2005	Literary Studies	4.0	47.0	-	19.6	-	70.6	1.6
2099	Other Language, Communication and Culture	0.0	1.5	-	0.3	-	1.8	0.0
21	**History and Archaeology**	**19.0**	**169.9**	**-**	**88.9**	**-**	**277.8**	**6.2**
2101	Archaeology	1.5	36.4	-	34.4	-	72.3	1.6
2102	Curatorial and Related Studies	0.0	1.0	-	2.4	-	3.4	0.1
2103	Historical Studies	17.0	132.0	-	52.1	-	201.1	4.5
2199	Other History and Archaeology	0.5	0.5	-	0.0	-	1.0	0.0
22	**Philosophy and Religious Studies**	**4.2**	**70.4**	**-**	**33.9**	**-**	**108.5**	**2.4**
2201	Applied Ethics	1.0	4.4	-	1.6	-	7.0	0.2
2202	History and Philosophy of Specific Fields	0.0	13.8	-	11.7	-	25.5	0.6
2203	Philosophy	3.2	34.9	-	18.6	-	56.7	1.3
2204	Religion and Religious Studies	0.0	16.9	-	2.0	-	18.9	0.4
2299	Other Philosophy and Religious Studies	0.0	0.4	-	0.0	-	0.4	0.0
Total		**47.7**	**1,286.7**	**365.8**	**2,729.2**	**56.1**	**4,485.5**	**100**



SECTION 4

ERA 2012 Institution Report



SECTION 4

ERA 2012 Institution Report

01	Mathematical Sciences	309
02	Physical Sciences	310
03	Chemical Sciences	311
04	Earth Sciences	312
05	Environmental Sciences	313
06	Biological Sciences	314
07	Agricultural and Veterinary Sciences	315
08	Information and Computing Sciences	316
09	Engineering	317
10	Technology	318
11	Medical and Health Sciences	319
12	Built Environment and Design	320
13	Education	321
14	Economics	322
15	Commerce, Management, Tourism and Services	323
16	Studies in Human Society	324
17	Psychology and Cognitive Sciences	325
18	Law and Legal Studies	326
19	Studies in Creative Arts and Writing	327
20	Language, Communication and Culture	328
21	History and Archaeology	329
22	Philosophy and Religious Studies	330

SECTION 4:
ERA 2012 INSTITUTION REPORT

Section 4 provides the ERA rating for each two-digit and four-digit FoR code evaluated for the 41 eligible institutions. Please refer to **Appendix 1** for a list of eligible institutions.

The table shows the ratings for assessed UoEs. The UoE must meet the relevant low volume threshold for assessment to occur. Where the institution did not meet the low volume threshold, 'n/a' (i.e. not assessed) is shown in the table.

The ERA 2012 Rating Scale is available in the introduction of this report.

01 Mathematical Sciences

Institution	01 Mathematical Sciences	0101 Pure Mathematics	0102 Applied Mathematics	0103 Numerical and Computational Mathematics	0104 Statistics	0105 Mathematical Physics	0199 Other Mathematical Sciences
Australian Catholic University	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Australian National University	5	5	4	n/a	n/a	4	n/a
Batchelor Institute of Indigenous Tertiary Education	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Bond University	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Central Queensland University	5	n/a	5	n/a	n/a	n/a	n/a
Charles Darwin University	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Charles Sturt University	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Curtin University of Technology	3	n/a	3	3	n/a	n/a	n/a
Deakin University	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Edith Cowan University	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Flinders University	2	n/a	n/a	n/a	n/a	n/a	n/a
Griffith University	n/a	n/a	n/a	n/a	n/a	n/a	n/a
James Cook University	3	n/a	3	n/a	n/a	n/a	n/a
La Trobe University	2	2	2	n/a	n/a	n/a	n/a
Macquarie University	2	3	n/a	n/a	2	n/a	n/a
MCD University of Divinity	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Monash University	3	3	4	n/a	3	n/a	n/a
Murdoch University	2	n/a	n/a	n/a	n/a	n/a	n/a
Queensland University of Technology	4	n/a	3	4	4	n/a	n/a
RMIT University	3	n/a	4	n/a	n/a	n/a	n/a
Southern Cross University	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Swinburne University of Technology	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Adelaide	4	4	4	n/a	4	n/a	n/a
University of Ballarat	2	2	2	n/a	n/a	n/a	n/a
University of Canberra	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Melbourne	4	5	4	n/a	4	4	n/a
University of New England	3	4	n/a	n/a	n/a	n/a	n/a
University of New South Wales	4	4	4	3	3	3	n/a
University of Newcastle	3	3	5	n/a	4	n/a	n/a
University of Notre Dame Australia	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Queensland	4	4	4	5	5	3	n/a
University of South Australia	4	3	3	n/a	n/a	n/a	n/a
University of Southern Queensland	3	n/a	n/a	n/a	n/a	n/a	n/a
University of Sydney	5	4	3	3	4	4	n/a
University of Tasmania (inc. Australian Maritime College)	3	n/a	3	n/a	n/a	n/a	n/a
University of Technology, Sydney	3	n/a	4	n/a	n/a	3	n/a
University of the Sunshine Coast	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Western Australia	3	4	3	n/a	n/a	n/a	n/a
University of Western Sydney	4	3	4	n/a	n/a	n/a	n/a
University of Wollongong	4	3	4	n/a	4	n/a	n/a
Victoria University	3	1	4	n/a	n/a	n/a	n/a
Total UoEs evaluated	27	17	22	5	10	6	0

02 Physical Sciences

Institution	02 Physical Sciences	0201 Astronomical and Space Sciences	0202 Atomic, Molecular, Nuclear, Particle and Plasma Physics	0203 Classical Physics	0204 Condensed Matter Physics	0205 Optical Physics	0206 Quantum Physics	0299 Other Physical Sciences
Australian Catholic University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Australian National University	5	5	4	5	3	4	4	n/a
Batchelor Institute of Indigenous Tertiary Education	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Bond University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Central Queensland University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Charles Darwin University	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Charles Sturt University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Curtin University of Technology	3	3	n/a	n/a	3	n/a	3	n/a
Deakin University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Edith Cowan University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Flinders University	1	n/a	2	n/a	n/a	n/a	n/a	n/a
Griffith University	3	n/a	n/a	n/a	3	n/a	4	n/a
James Cook University	3	3	n/a	n/a	n/a	n/a	n/a	n/a
La Trobe University	3	2	n/a	n/a	4	n/a	n/a	n/a
Macquarie University	5	5	n/a	n/a	3	4	5	n/a
MCD University of Divinity	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Monash University	4	4	3	n/a	4	3	n/a	n/a
Murdoch University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Queensland University of Technology	3	n/a	n/a	n/a	n/a	3	n/a	4
RMIT University	3	n/a	n/a	n/a	4	n/a	n/a	n/a
Southern Cross University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Swinburne University of Technology	5	5	n/a	n/a	n/a	4	3	n/a
University of Adelaide	5	5	4	n/a	n/a	5	n/a	n/a
University of Ballarat	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Canberra	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Melbourne	4	4	4	n/a	3	3	5	n/a
University of New England	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of New South Wales	3	4	2	n/a	4	3	n/a	n/a
University of Newcastle	2	n/a	n/a	n/a	3	n/a	n/a	3
University of Notre Dame Australia	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Queensland	5	5	n/a	n/a	4	4	4	n/a
University of South Australia	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Southern Queensland	3	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Sydney	4	4	4	4	3	5	5	3
University of Tasmania (inc. Australian Maritime College)	4	4	n/a	n/a	n/a	n/a	n/a	n/a
University of Technology, Sydney	3	n/a	n/a	n/a	3	3	n/a	n/a
University of the Sunshine Coast	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Western Australia	5	5	n/a	5	n/a	5	4	n/a
University of Western Sydney	1	2	n/a	n/a	n/a	n/a	n/a	n/a
University of Wollongong	3	n/a	n/a	n/a	3	n/a	n/a	4
Victoria University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total UoEs evaluated	24	15	7	3	14	12	9	4

03 Chemical Sciences

Institution	03 Chemical Sciences	0301 Analytical Chemistry	0302 Inorganic Chemistry	0303 Macromolecular and Materials Chemistry	0304 Medicinal and Biomolecular Chemistry	0305 Organic Chemistry	0306 Physical Chemistry (Incl. Structural)	0307 Theoretical and Computational Chemistry	0399 Other Chemical Sciences
Australian Catholic University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Australian National University	3	n/a	n/a	n/a	n/a	5	3	4	4
Batchelor Institute of Indigenous Tertiary Education	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Bond University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Central Queensland University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Charles Darwin University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Charles Sturt University	2	3	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Curtin University of Technology	3	4	n/a	n/a	n/a	n/a	4	n/a	n/a
Deakin University	5	3	n/a	5	n/a	n/a	4	n/a	n/a
Edith Cowan University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Flinders University	3	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a
Griffith University	3	n/a	4	n/a	3	2	2	n/a	n/a
James Cook University	3	n/a	4	n/a	n/a	n/a	n/a	n/a	n/a
La Trobe University	2	5	n/a	n/a	n/a	n/a	2	n/a	n/a
Macquarie University	3	4	n/a	n/a	n/a	n/a	3	n/a	n/a
MCD University of Divinity	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Monash University	5	3	5	5	3	4	4	n/a	n/a
Murdoch University	3	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a
Queensland University of Technology	3	3	n/a	n/a	n/a	n/a	4	n/a	n/a
RMIT University	3	3	n/a	n/a	n/a	n/a	4	n/a	n/a
Southern Cross University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Swinburne University of Technology	3	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a
University of Adelaide	4	3	5	5	4	3	3	n/a	n/a
University of Ballarat	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Canberra	3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Melbourne	4	2	4	5	4	3	4	n/a	n/a
University of New England	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of New South Wales	5	5	3	5	3	3	3	n/a	n/a
University of Newcastle	3	n/a	n/a	5	n/a	n/a	4	n/a	n/a
University of Notre Dame Australia	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Queensland	5	4	4	5	4	3	3	5	n/a
University of South Australia	5	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a
University of Southern Queensland	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Sydney	4	n/a	4	5	3	3	3	5	n/a
University of Tasmania (inc. Australian Maritime College)	4	5	3	n/a	n/a	4	n/a	n/a	n/a
University of Technology, Sydney	3	n/a	n/a	n/a	n/a	n/a	4	n/a	3
University of the Sunshine Coast	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Western Australia	3	n/a	3	n/a	5	n/a	3	n/a	n/a
University of Western Sydney	3	3	n/a	4	n/a	n/a	3	n/a	n/a
University of Wollongong	5	5	n/a	5	4	3	5	n/a	n/a
Victoria University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total UoEs evaluated	29	15	10	10	9	10	23	3	2

04 Earth Sciences

Institution	04 Earth Sciences	0401 Atmospheric Sciences	0402 Geochemistry	0403 Geology	0404 Geophysics	0405 Oceanography	0406 Physical Geography and Environmental Geoscience	0499 Other Earth Sciences
Australian Catholic University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Australian National University	5	n/a	5	5	4	4	5	n/a
Batchelor Institute of Indigenous Tertiary Education	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Bond University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Central Queensland University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Charles Darwin University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Charles Sturt University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Curtin University of Technology	5	n/a	5	5	4	n/a	n/a	n/a
Deakin University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Edith Cowan University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Flinders University	2	n/a	n/a	n/a	n/a	n/a	3	n/a
Griffith University	3	n/a	n/a	n/a	n/a	n/a	3	n/a
James Cook University	4	n/a	4	4	n/a	3	4	n/a
La Trobe University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Macquarie University	5	3	5	5	5	n/a	5	n/a
MCD University of Divinity	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Monash University	3	4	n/a	3	5	n/a	4	n/a
Murdoch University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Queensland University of Technology	3	n/a	n/a	3	n/a	n/a	n/a	n/a
RMIT University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Southern Cross University	5	n/a	5	n/a	n/a	n/a	n/a	n/a
Swinburne University of Technology	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Adelaide	4	n/a	5	5	3	n/a	n/a	n/a
University of Ballarat	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Canberra	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Melbourne	4	5	4	4	n/a	n/a	3	n/a
University of New England	4	n/a	n/a	n/a	n/a	n/a	3	n/a
University of New South Wales	4	4	n/a	4	n/a	3	4	n/a
University of Newcastle	5	n/a	n/a	5	n/a	n/a	5	n/a
University of Notre Dame Australia	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Queensland	3	n/a	3	3	n/a	n/a	4	n/a
University of South Australia	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Southern Queensland	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Sydney	4	n/a	n/a	5	5	n/a	3	n/a
University of Tasmania (inc. Australian Maritime College)	4	n/a	n/a	5	n/a	5	3	n/a
University of Technology, Sydney	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of the Sunshine Coast	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Western Australia	4	n/a	4	5	4	4	n/a	n/a
University of Western Sydney	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Wollongong	4	4	4	5	n/a	n/a	3	n/a
Victoria University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total UoEs evaluated	19	5	10	15	7	5	14	0

05 Environmental Sciences

Institution	05 Environmental Sciences	0501 Ecological Applications	0502 Environmental Science and Management	0503 Soil Sciences	0599 Other Environmental Sciences
Australian Catholic University	n/a	n/a	n/a	n/a	n/a
Australian National University	5	5	5	n/a	n/a
Batchelor Institute of Indigenous Tertiary Education	n/a	n/a	n/a	n/a	n/a
Bond University	n/a	n/a	n/a	n/a	n/a
Central Queensland University	2	n/a	2	n/a	n/a
Charles Darwin University	4	4	4	n/a	n/a
Charles Sturt University	4	n/a	4	n/a	n/a
Curtin University of Technology	3	n/a	4	n/a	n/a
Deakin University	3	n/a	4	n/a	n/a
Edith Cowan University	2	n/a	3	n/a	n/a
Flinders University	1	n/a	2	n/a	n/a
Griffith University	3	n/a	3	4	n/a
James Cook University	5	5	5	n/a	n/a
La Trobe University	3	n/a	n/a	4	n/a
Macquarie University	5	5	5	n/a	n/a
MCD University of Divinity	n/a	n/a	n/a	n/a	n/a
Monash University	n/a	n/a	n/a	n/a	n/a
Murdoch University	2	n/a	4	n/a	n/a
Queensland University of Technology	4	n/a	4	n/a	n/a
RMIT University	3	n/a	3	n/a	n/a
Southern Cross University	n/a	n/a	n/a	n/a	n/a
Swinburne University of Technology	n/a	n/a	n/a	n/a	n/a
University of Adelaide	4	n/a	4	4	n/a
University of Ballarat	2	n/a	2	n/a	n/a
University of Canberra	3	n/a	3	n/a	n/a
University of Melbourne	4	4	3	n/a	n/a
University of New England	3	n/a	3	n/a	n/a
University of New South Wales	3	n/a	3	n/a	n/a
University of Newcastle	n/a	n/a	n/a	n/a	n/a
University of Notre Dame Australia	n/a	n/a	n/a	n/a	n/a
University of Queensland	4	5	4	3	n/a
University of South Australia	4	n/a	4	n/a	n/a
University of Southern Queensland	n/a	n/a	n/a	n/a	n/a
University of Sydney	4	n/a	5	4	n/a
University of Tasmania (inc. Australian Maritime College)	3	n/a	4	n/a	n/a
University of Technology, Sydney	5	n/a	n/a	n/a	n/a
University of the Sunshine Coast	n/a	n/a	n/a	n/a	n/a
University of Western Australia	4	n/a	5	4	n/a
University of Western Sydney	3	n/a	n/a	4	n/a
University of Wollongong	n/a	n/a	n/a	n/a	n/a
Victoria University	n/a	n/a	n/a	n/a	n/a
Total UoEs evaluated	28	6	25	7	0

06 Biological Sciences

Institution	06 Biological Sciences	0601 Biochemistry and Cell Biology	0602 Ecology	0603 Evolutionary Biology	0604 Genetics	0605 Microbiology	0606 Physiology	0607 Plant Biology	0608 Zoology	0699 Other Biological Sciences
Australian Catholic University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Australian National University	5	4	5	5	4	4	n/a	5	5	n/a
Batchelor Institute of Indigenous Tertiary Education	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Bond University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Central Queensland University	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Charles Darwin University	3	n/a	3	n/a	n/a	3	n/a	n/a	3	n/a
Charles Sturt University	2	n/a	n/a	n/a	n/a	1	n/a	3	n/a	n/a
Curtin University of Technology	2	n/a	n/a	n/a	n/a	n/a	n/a	3	3	n/a
Deakin University	3	3	3	n/a	n/a	n/a	n/a	n/a	4	n/a
Edith Cowan University	3	n/a	3	n/a	n/a	n/a	n/a	3	n/a	n/a
Flinders University	3	n/a	3	n/a	n/a	n/a	n/a	4	4	n/a
Griffith University	3	2	4	3	3	3	n/a	n/a	1	n/a
James Cook University	4	3	4	3	3	3	n/a	3	3	n/a
La Trobe University	5	5	3	n/a	3	5	4	4	4	n/a
Macquarie University	4	3	4	5	2	4	n/a	4	3	n/a
MCD University of Divinity	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Monash University	4	4	5	5	3	4	4	3	3	n/a
Murdoch University	3	n/a	3	n/a	4	3	n/a	3	4	n/a
Queensland University of Technology	3	n/a	n/a	n/a	n/a	3	n/a	3	n/a	n/a
RMIT University	3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3
Southern Cross University	4	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a
Swinburne University of Technology	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Adelaide	3	4	4	5	3	2	n/a	4	2	n/a
University of Ballarat	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Canberra	3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Melbourne	3	3	4	4	4	3	3	3	4	n/a
University of New England	3	n/a	2	3	n/a	n/a	n/a	n/a	4	n/a
University of New South Wales	4	4	4	5	3	4	n/a	n/a	n/a	n/a
University of Newcastle	4	5	n/a	n/a	4	n/a	n/a	5	4	n/a
University of Notre Dame Australia	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Queensland	5	4	5	5	4	4	4	5	5	n/a
University of South Australia	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Southern Queensland	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Sydney	4	3	4	5	4	3	4	4	3	n/a
University of Tasmania (inc. Australian Maritime College)	4	n/a	5	5	n/a	n/a	n/a	5	3	n/a
University of Technology, Sydney	3	3	3	n/a	n/a	4	n/a	3	n/a	n/a
University of the Sunshine Coast	3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Western Australia	4	4	5	5	4	n/a	n/a	4	4	n/a
University of Western Sydney	4	3	4	n/a	n/a	3	n/a	5	n/a	n/a
University of Wollongong	3	4	4	n/a	n/a	n/a	n/a	n/a	4	n/a
Victoria University	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total UoEs evaluated	32	17	22	13	14	17	5	20	21	1

07 Agricultural and Veterinary Sciences

Institution	07 Agricultural and Veterinary Sciences	0701 Agriculture, Land and Farm Management	0702 Animal Production	0703 Crop and Pasture Production	0704 Fisheries Sciences	0705 Forestry Sciences	0706 Horticultural Production	0707 Veterinary Sciences	0799 Other Agricultural and Veterinary Sciences
Australian Catholic University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Australian National University	4	n/a	n/a	4	n/a	4	n/a	n/a	n/a
Batchelor Institute of Indigenous Tertiary Education	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Bond University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Central Queensland University	5	5	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Charles Darwin University	4	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Charles Sturt University	3	n/a	n/a	2	n/a	n/a	n/a	3	n/a
Curtin University of Technology	3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Deakin University	3	n/a	n/a	n/a	3	n/a	n/a	n/a	n/a
Edith Cowan University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Flinders University	3	n/a	n/a	n/a	3	n/a	n/a	n/a	n/a
Griffith University	4	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
James Cook University	4	n/a	n/a	n/a	4	n/a	n/a	4	n/a
La Trobe University	3	n/a	n/a	3	n/a	n/a	n/a	5	n/a
Macquarie University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
MCD University of Divinity	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Monash University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Murdoch University	4	n/a	4	5	3	n/a	n/a	4	n/a
Queensland University of Technology	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
RMIT University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Southern Cross University	5	n/a	n/a	5	n/a	5	n/a	n/a	n/a
Swinburne University of Technology	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Adelaide	4	n/a	3	3	n/a	n/a	5	4	n/a
University of Ballarat	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Canberra	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Melbourne	4	n/a	3	3	n/a	4	n/a	4	n/a
University of New England	3	n/a	3	n/a	n/a	n/a	n/a	n/a	n/a
University of New South Wales	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Newcastle	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Notre Dame Australia	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Queensland	4	n/a	3	4	4	3	5	3	n/a
University of South Australia	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Southern Queensland	3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Sydney	5	n/a	3	4	n/a	n/a	n/a	5	n/a
University of Tasmania (inc. Australian Maritime College)	4	5	n/a	3	4	5	4	n/a	n/a
University of Technology, Sydney	5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of the Sunshine Coast	4	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Western Australia	3	n/a	n/a	3	n/a	n/a	n/a	n/a	n/a
University of Western Sydney	3	n/a	n/a	n/a	n/a	5	n/a	n/a	n/a
University of Wollongong	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Victoria University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total UoEs evaluated	23	2	6	11	6	6	3	8	0

08 Information and Computing Sciences

Institution	08 Information and Computing Sciences	0801 Artificial Intelligence and Image Processing	0802 Computation Theory and Mathematics	0803 Computer Software	0804 Data Format	0805 Distributed Computing	0806 Information Systems	0807 Library and Information Studies	0899 Other Information and Computing Sciences
Australian Catholic University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Australian National University	5	5	4	4	n/a	3	3	n/a	n/a
Batchelor Institute of Indigenous Tertiary Education	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Bond University	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Central Queensland University	2	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Charles Darwin University	3	n/a	3	n/a	n/a	n/a	n/a	n/a	n/a
Charles Sturt University	2	2	n/a	n/a	n/a	n/a	n/a	2	n/a
Curtin University of Technology	2	3	n/a	n/a	n/a	n/a	2	n/a	n/a
Deakin University	2	3	n/a	n/a	n/a	2	2	n/a	n/a
Edith Cowan University	1	2	n/a	1	n/a	n/a	2	n/a	1
Flinders University	3	3	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Griffith University	3	4	n/a	2	n/a	n/a	2	n/a	n/a
James Cook University	2	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a
La Trobe University	3	3	n/a	n/a	n/a	n/a	3	n/a	n/a
Macquarie University	3	3	4	n/a	n/a	3	2	n/a	n/a
MCD University of Divinity	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Monash University	4	4	n/a	3	n/a	4	3	3	n/a
Murdoch University	2	2	n/a	n/a	n/a	n/a	2	n/a	n/a
Queensland University of Technology	3	3	n/a	2	2	n/a	4	3	n/a
RMIT University	3	4	n/a	n/a	n/a	n/a	4	2	n/a
Southern Cross University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Swinburne University of Technology	3	3	n/a	4	n/a	3	2	n/a	n/a
University of Adelaide	4	5	n/a	n/a	n/a	4	n/a	n/a	n/a
University of Ballarat	2	2	n/a	n/a	n/a	n/a	2	n/a	n/a
University of Canberra	2	2	n/a	n/a	n/a	n/a	2	n/a	n/a
University of Melbourne	5	4	n/a	3	n/a	4	5	n/a	n/a
University of New England	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of New South Wales	4	4	3	5	n/a	4	4	3	n/a
University of Newcastle	2	n/a	3	n/a	n/a	n/a	n/a	n/a	n/a
University of Notre Dame Australia	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Queensland	4	3	n/a	3	n/a	n/a	5	n/a	n/a
University of South Australia	3	3	n/a	n/a	2	3	3	n/a	n/a
University of Southern Queensland	2	2	n/a	n/a	n/a	1	2	n/a	n/a
University of Sydney	4	4	3	n/a	n/a	4	4	n/a	n/a
University of Tasmania (inc. Australian Maritime College)	2	1	n/a	n/a	n/a	n/a	1	2	n/a
University of Technology, Sydney	3	4	3	2	n/a	n/a	3	n/a	n/a
University of the Sunshine Coast	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Western Australia	3	3	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Western Sydney	2	3	n/a	n/a	n/a	n/a	2	n/a	n/a
University of Wollongong	3	3	n/a	n/a	n/a	n/a	3	n/a	n/a
Victoria University	2	3	n/a	n/a	n/a	3	2	n/a	1
Total UoEs evaluated	35	31	7	10	2	12	25	6	2

09 Engineering

Institution	09 Engineering	0901 Aerospace Engineering	0902 Automotive Engineering	0903 Biomedical Engineering	0904 Chemical Engineering	0905 Civil Engineering	0906 Electrical and Electronic Engineering	0907 Environmental Engineering	0908 Food Sciences	0909 Geomatic Engineering	0910 Manufacturing Engineering	0911 Maritime Engineering	0912 Materials Engineering	0913 Mechanical Engineering	0914 Resources Engineering and Extractive Metallurgy	0915 Interdisciplinary Engineering	0999 Other Engineering
Australian Catholic University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Australian National University	4	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	n/a	n/a
Batchelor Institute of Indigenous Tertiary Education	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Bond University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Central Queensland University	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a
Charles Darwin University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Charles Sturt University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Curtin University of Technology	3	n/a	n/a	n/a	4	2	3	n/a	n/a	n/a	n/a	n/a	1	4	3	n/a	n/a
Deakin University	4	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	n/a	4	n/a	5	4	n/a	n/a	n/a
Edith Cowan University	2	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Flinders University	2	n/a	n/a	3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Griffith University	2	n/a	n/a	n/a	n/a	2	2	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
James Cook University	3	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	3	n/a
La Trobe University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Macquarie University	3	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
MCD University of Divinity	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Monash University	5	4	n/a	5	5	5	4	n/a	n/a	n/a	n/a	n/a	5	4	n/a	5	n/a
Murdoch University	3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a
Queensland University of Technology	3	n/a	n/a	3	n/a	2	3	4	n/a	n/a	n/a	n/a	5	4	n/a	n/a	n/a
RMIT University	4	4	n/a	n/a	3	3	4	n/a	3	n/a	n/a	n/a	4	4	n/a	n/a	n/a
Southern Cross University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Swinburne University of Technology	4	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	n/a	5	4	3	n/a	n/a	n/a
University of Adelaide	3	n/a	n/a	n/a	3	4	3	n/a	3	n/a	n/a	n/a	n/a	3	4	n/a	n/a
University of Ballarat	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Canberra	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Melbourne	5	n/a	n/a	3	4	3	4	4	n/a	3	n/a	n/a	5	5	n/a	n/a	n/a
University of New England	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of New South Wales	4	n/a	n/a	4	4	4	5	n/a	n/a	3	n/a	n/a	4	3	5	n/a	n/a
University of Newcastle	5	n/a	n/a	n/a	n/a	5	5	n/a	2	n/a	n/a	n/a	n/a	5	5	3	n/a
University of Notre Dame Australia	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Queensland	5	n/a	n/a	3	5	3	3	5	3	n/a	n/a	n/a	5	4	4	n/a	n/a
University of South Australia	4	n/a	n/a	n/a	n/a	3	3	n/a	n/a	n/a	n/a	n/a	4	4	5	n/a	n/a
University of Southern Queensland	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a
University of Sydney	5	5	n/a	3	4	4	4	n/a	n/a	n/a	n/a	n/a	5	4	n/a	n/a	n/a
University of Tasmania (inc. Australian Maritime College)	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	3	n/a	n/a	n/a	n/a	n/a
University of Technology, Sydney	3	n/a	n/a	4	4	3	3	n/a	n/a	n/a	n/a	n/a	4	3	n/a	n/a	n/a
University of the Sunshine Coast	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Western Australia	4	n/a	n/a	n/a	n/a	4	4	4	n/a	n/a	n/a	n/a	3	4	n/a	n/a	n/a
University of Western Sydney	3	n/a	n/a	n/a	n/a	3	3	n/a	n/a	n/a	n/a	n/a	3	4	n/a	n/a	n/a
University of Wollongong	4	n/a	n/a	n/a	n/a	4	4	n/a	n/a	n/a	4	n/a	5	3	3	5	n/a
Victoria University	3	n/a	n/a	n/a	3	3	5	n/a	3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total UoEs evaluated	29	3	0	8	10	19	21	5	6	2	2	2	18	18	8	4	0

10 Technology

Institution	10 Technology	1001 Agricultural Biotechnology	1002 Environmental Biotechnology	1003 Industrial Biotechnology	1004 Medical Biotechnology	1005 Communications Technologies	1006 Computer Hardware	1007 Nanotechnology	1099 Other Technology
Australian Catholic University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Australian National University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Batchelor Institute of Indigenous Tertiary Education	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Bond University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Central Queensland University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Charles Darwin University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Charles Sturt University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Curtin University of Technology	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Deakin University	4	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a
Edith Cowan University	1	n/a	n/a	n/a	n/a	1	n/a	n/a	n/a
Flinders University	4	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a
Griffith University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
James Cook University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
La Trobe University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Macquarie University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
MCD University of Divinity	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Monash University	5	n/a	n/a	n/a	5	4	n/a	5	n/a
Murdoch University	5	5	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Queensland University of Technology	3	n/a	n/a	n/a	4	n/a	n/a	n/a	n/a
RMIT University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Southern Cross University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Swinburne University of Technology	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Adelaide	2	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a
University of Ballarat	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Canberra	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Melbourne	5	n/a	n/a	n/a	n/a	5	n/a	n/a	n/a
University of New England	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of New South Wales	4	n/a	n/a	n/a	n/a	4	3	n/a	n/a
University of Newcastle	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Notre Dame Australia	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Queensland	5	n/a	5	5	n/a	n/a	n/a	5	n/a
University of South Australia	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Southern Queensland	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Sydney	4	n/a	n/a	n/a	n/a	5	n/a	4	n/a
University of Tasmania (inc. Australian Maritime College)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Technology, Sydney	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of the Sunshine Coast	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Western Australia	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Western Sydney	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Wollongong	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Victoria University	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total UoEs evaluated	11	1	1	1	2	6	1	5	0

11 Medical and Health Sciences

Institution	11 Medical and Health Sciences	1101 Medical Biochemistry and Metabolomics	1102 Cardiovascular Medicine and Haematology	1103 Clinical Sciences	1104 Complementary and Alternative Medicine	1105 Dentistry	1106 Human Movement and Sports Science	1107 Immunology	1108 Medical Microbiology	1109 Neurosciences	1110 Nursing	1111 Nutrition and Dietetics	1112 Oncology and Carcinogenesis	1113 Ophthalmology and Optometry	1114 Paediatrics and Reproductive Medicine	1115 Pharmacology and Pharmaceutical Sciences	1116 Medical Physiology	1117 Public Health and Health Services	1199 Other Medical and Health Sciences
Australian Catholic University	3	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	n/a	3	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a
Australian National University	4	n/a	n/a	5	n/a	n/a	n/a	5	n/a	4	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a
Batchelor Institute of Indigenous Tertiary Education	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Bond University	4	n/a	n/a	4	n/a	n/a	3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a
Central Queensland University	3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	n/a	n/a	n/a	n/a	2	5
Charles Darwin University	3	n/a	n/a	5	n/a	n/a	n/a	n/a	4	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	3	n/a
Charles Sturt University	1	n/a	n/a	1	n/a	n/a	2	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a
Curtin University of Technology	2	n/a	n/a	1	n/a	n/a	4	n/a	3	n/a	3	3	n/a	n/a	4	4	n/a	1	n/a
Deakin University	5	n/a	n/a	3	n/a	n/a	5	3	n/a	3	3	4	n/a	n/a	n/a	5	5	4	n/a
Edith Cowan University	3	n/a	n/a	3	n/a	n/a	3	n/a	n/a	3	5	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a
Flinders University	3	n/a	5	3	n/a	n/a	n/a	n/a	n/a	3	3	3	3	5	n/a	4	n/a	3	1
Griffith University	3	n/a	n/a	3	n/a	3	2	3	4	3	4	n/a	3	n/a	n/a	2	2	1	n/a
James Cook University	2	n/a	3	1	n/a	n/a	1	4	5	4	3	n/a	n/a	n/a	2	2	n/a	1	n/a
La Trobe University	3	n/a	n/a	2	n/a	n/a	5	n/a	n/a	3	5	n/a	n/a	n/a	n/a	n/a	n/a	1	5
Macquarie University	2	n/a	3	2	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a
MCD University of Divinity	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Monash University	5	5	3	4	n/a	n/a	3	4	5	5	3	n/a	4	n/a	4	5	5	4	n/a
Murdoch University	4	n/a	n/a	5	n/a	n/a	n/a	5	5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Queensland University of Technology	3	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	n/a	4	4	3	3	n/a	n/a	n/a	3	n/a
RMIT University	4	n/a	n/a	5	n/a	n/a	5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4	4	3	n/a
Southern Cross University	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Swinburne University of Technology	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Adelaide	5	n/a	5	3	n/a	5	n/a	4	5	4	5	5	5	n/a	5	3	5	3	n/a
University of Ballarat	2	n/a	n/a	3	n/a	n/a	3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a
University of Canberra	1	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Melbourne	5	5	5	5	n/a	5	4	5	4	4	5	n/a	5	5	4	4	4	4	n/a
University of New England	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a
University of New South Wales	5	5	5	5	n/a	n/a	4	5	4	4	n/a	n/a	4	3	3	4	3	3	n/a
University of Newcastle	4	n/a	5	3	n/a	n/a	5	5	n/a	5	4	5	5	n/a	4	4	4	3	n/a
University of Notre Dame Australia	2	n/a	2	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a
University of Queensland	5	n/a	5	5	n/a	4	5	5	5	5	5	n/a	5	n/a	4	4	n/a	4	n/a
University of South Australia	3	n/a	n/a	3	n/a	n/a	4	n/a	n/a	n/a	4	4	n/a	n/a	n/a	3	4	3	n/a
University of Southern Queensland	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a
University of Sydney	5	5	5	5	n/a	4	5	4	5	4	5	5	5	5	4	5	4	5	3
University of Tasmania (inc. Australian Maritime College)	3	n/a	2	5	n/a	n/a	3	n/a	n/a	3	2	n/a	n/a	n/a	n/a	3	n/a	2	n/a
University of Technology, Sydney	3	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	n/a	5	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a
University of the Sunshine Coast	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Western Australia	5	n/a	5	5	n/a	3	4	5	n/a	3	n/a	n/a	4	5	4	4	5	4	n/a
University of Western Sydney	3	n/a	n/a	3	5	n/a	3	n/a	n/a	2	3	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a
University of Wollongong	2	n/a	n/a	5	n/a	n/a	3	n/a	n/a	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4	n/a
Victoria University	3	n/a	n/a	n/a	n/a	n/a	5	n/a	n/a	n/a	3	n/a	n/a	n/a	n/a	5	4	n/a	n/a
Total UoEs evaluated	39	4	13	28	1	6	26	13	11	19	23	8	11	6	11	17	12	33	4

12 Built Environment and Design

Institution	12 Built Environment and Design	1201 Architecture	1202 Building	1203 Design Practice and Management	1204 Engineering Design	1205 Urban and Regional Planning	1299 Other Built Environment and Design
Australian Catholic University	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Australian National University	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Batchelor Institute of Indigenous Tertiary Education	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Bond University	2	n/a	2	n/a	n/a	n/a	n/a
Central Queensland University	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Charles Darwin University	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Charles Sturt University	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Curtin University of Technology	3	2	2	n/a	n/a	4	n/a
Deakin University	2	2	2	n/a	n/a	n/a	n/a
Edith Cowan University	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Flinders University	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Griffith University	3	3	n/a	n/a	n/a	4	n/a
James Cook University	n/a	n/a	n/a	n/a	n/a	n/a	n/a
La Trobe University	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Macquarie University	3	n/a	n/a	n/a	n/a	3	n/a
MCD University of Divinity	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Monash University	3	3	n/a	n/a	n/a	n/a	n/a
Murdoch University	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Queensland University of Technology	3	3	3	3	n/a	2	n/a
RMIT University	4	5	4	4	n/a	4	n/a
Southern Cross University	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Swinburne University of Technology	3	n/a	n/a	2	n/a	3	n/a
University of Adelaide	3	3	n/a	n/a	n/a	n/a	n/a
University of Ballarat	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Canberra	2	2	n/a	n/a	n/a	n/a	n/a
University of Melbourne	4	5	3	n/a	n/a	4	n/a
University of New England	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of New South Wales	4	3	4	2	n/a	5	n/a
University of Newcastle	3	3	3	n/a	n/a	n/a	n/a
University of Notre Dame Australia	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Queensland	3	4	n/a	n/a	n/a	3	n/a
University of South Australia	3	n/a	n/a	n/a	n/a	3	n/a
University of Southern Queensland	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Sydney	3	3	n/a	3	n/a	3	n/a
University of Tasmania (inc. Australian Maritime College)	2	2	n/a	n/a	n/a	n/a	n/a
University of Technology, Sydney	3	3	2	3	n/a	3	n/a
University of the Sunshine Coast	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Western Australia	3	3	n/a	n/a	n/a	n/a	n/a
University of Western Sydney	2	n/a	2	n/a	n/a	3	n/a
University of Wollongong	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Victoria University	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total UoEs evaluated	21	16	10	6	0	13	0

13 Education

Institution	13 Education	1301 Education Systems	1302 Curriculum and Pedagogy	1303 Specialist Studies in Education	1399 Other Education
Australian Catholic University	2	2	2	2	1
Australian National University	n/a	n/a	n/a	n/a	n/a
Batchelor Institute of Indigenous Tertiary Education	n/a	n/a	n/a	n/a	n/a
Bond University	1	n/a	n/a	n/a	n/a
Central Queensland University	1	1	1	1	n/a
Charles Darwin University	2	n/a	n/a	2	n/a
Charles Sturt University	3	3	3	3	n/a
Curtin University of Technology	3	n/a	3	3	n/a
Deakin University	3	2	3	3	n/a
Edith Cowan University	2	2	2	2	n/a
Flinders University	2	n/a	2	3	n/a
Griffith University	3	3	3	3	n/a
James Cook University	2	n/a	2	2	n/a
La Trobe University	2	n/a	2	3	n/a
Macquarie University	3	3	n/a	4	n/a
MCD University of Divinity	n/a	n/a	n/a	n/a	n/a
Monash University	4	4	4	4	n/a
Murdoch University	2	n/a	2	3	n/a
Queensland University of Technology	4	4	4	4	n/a
RMIT University	2	2	3	3	n/a
Southern Cross University	1	n/a	n/a	2	n/a
Swinburne University of Technology	2	n/a	n/a	2	n/a
University of Adelaide	2	n/a	n/a	n/a	n/a
University of Ballarat	2	2	1	2	n/a
University of Canberra	2	2	n/a	2	n/a
University of Melbourne	4	4	4	4	n/a
University of New England	2	2	2	2	n/a
University of New South Wales	3	n/a	2	3	n/a
University of Newcastle	3	n/a	2	3	n/a
University of Notre Dame Australia	1	n/a	n/a	n/a	n/a
University of Queensland	5	4	4	5	n/a
University of South Australia	2	3	3	2	n/a
University of Southern Queensland	1	1	1	1	n/a
University of Sydney	4	n/a	4	4	n/a
University of Tasmania (inc. Australian Maritime College)	2	2	2	3	n/a
University of Technology, Sydney	3	2	3	3	n/a
University of the Sunshine Coast	1	n/a	n/a	n/a	n/a
University of Western Australia	3	n/a	3	3	n/a
University of Western Sydney	3	2	2	3	n/a
University of Wollongong	3	n/a	3	3	n/a
Victoria University	2	n/a	2	2	2
Total UoEs evaluated	38	20	29	34	2

14 Economics

Institution	14 Economics	1401 Economic Theory	1402 Applied Economics	1403 Econometrics	1499 Other Economics
Australian Catholic University	n/a	n/a	n/a	n/a	n/a
Australian National University	5	4	4	5	n/a
Batchelor Institute of Indigenous Tertiary Education	n/a	n/a	n/a	n/a	n/a
Bond University	2	n/a	2	n/a	n/a
Central Queensland University	2	n/a	2	n/a	n/a
Charles Darwin University	3	n/a	3	n/a	n/a
Charles Sturt University	2	n/a	2	n/a	n/a
Curtin University of Technology	2	n/a	2	2	n/a
Deakin University	3	n/a	3	n/a	n/a
Edith Cowan University	2	n/a	2	n/a	n/a
Flinders University	3	n/a	n/a	n/a	n/a
Griffith University	2	n/a	2	n/a	n/a
James Cook University	1	n/a	2	n/a	n/a
La Trobe University	3	n/a	3	n/a	n/a
Macquarie University	3	n/a	3	n/a	n/a
MCD University of Divinity	n/a	n/a	n/a	n/a	n/a
Monash University	5	n/a	4	5	n/a
Murdoch University	n/a	n/a	n/a	n/a	n/a
Queensland University of Technology	3	n/a	3	n/a	n/a
RMIT University	2	n/a	2	n/a	n/a
Southern Cross University	n/a	n/a	n/a	n/a	n/a
Swinburne University of Technology	n/a	n/a	n/a	n/a	n/a
University of Adelaide	4	n/a	4	n/a	n/a
University of Ballarat	2	2	n/a	n/a	n/a
University of Canberra	1	n/a	2	n/a	n/a
University of Melbourne	5	5	4	5	n/a
University of New England	2	n/a	2	n/a	n/a
University of New South Wales	4	4	4	5	n/a
University of Newcastle	1	n/a	n/a	n/a	n/a
University of Notre Dame Australia	n/a	n/a	n/a	n/a	n/a
University of Queensland	4	5	4	4	n/a
University of South Australia	3	n/a	3	n/a	n/a
University of Southern Queensland	2	n/a	2	n/a	n/a
University of Sydney	4	3	4	4	n/a
University of Tasmania (inc. Australian Maritime College)	2	n/a	2	n/a	n/a
University of Technology, Sydney	5	n/a	5	5	n/a
University of the Sunshine Coast	n/a	n/a	n/a	n/a	n/a
University of Western Australia	4	n/a	4	n/a	n/a
University of Western Sydney	2	1	2	n/a	n/a
University of Wollongong	2	n/a	3	n/a	n/a
Victoria University	2	n/a	2	n/a	n/a
Total UoEs evaluated	33	7	30	8	0

15 Commerce, Management, Tourism and Services

Institution	15 Commerce, Management, Tourism and Services	1501 Accounting, Auditing and Accountability	1502 Banking, Finance and Investment	1503 Business and Management	1504 Commercial Services	1505 Marketing	1506 Tourism	1507 Transportation and Freight Services	1599 Other Commerce, Management, Tourism and Services
Australian Catholic University	2	n/a	n/a	2	n/a	n/a	n/a	n/a	n/a
Australian National University	4	4	3	3	n/a	4	n/a	n/a	n/a
Batchelor Institute of Indigenous Tertiary Education	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Bond University	2	2	2	3	n/a	n/a	n/a	n/a	n/a
Central Queensland University	1	n/a	n/a	1	n/a	n/a	n/a	n/a	n/a
Charles Darwin University	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Charles Sturt University	1	n/a	n/a	2	n/a	2	n/a	n/a	n/a
Curtin University of Technology	2	2	n/a	2	n/a	3	3	n/a	n/a
Deakin University	2	2	2	2	2	2	n/a	n/a	1
Edith Cowan University	1	1	1	2	n/a	1	1	n/a	n/a
Flinders University	2	n/a	n/a	2	n/a	n/a	n/a	n/a	n/a
Griffith University	3	2	2	3	3	2	3	n/a	n/a
James Cook University	2	1	n/a	1	n/a	1	4	n/a	n/a
La Trobe University	3	3	3	3	2	2	3	3	1
Macquarie University	2	2	3	3	n/a	2	n/a	n/a	n/a
MCD University of Divinity	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Monash University	4	5	3	4	n/a	4	n/a	n/a	n/a
Murdoch University	2	n/a	n/a	n/a	n/a	2	2	n/a	n/a
Queensland University of Technology	3	3	n/a	4	n/a	3	n/a	n/a	n/a
RMIT University	2	2	2	2	n/a	3	n/a	n/a	n/a
Southern Cross University	2	n/a	n/a	2	n/a	n/a	3	n/a	n/a
Swinburne University of Technology	1	n/a	n/a	2	n/a	n/a	n/a	n/a	1
University of Adelaide	2	n/a	3	1	n/a	3	n/a	n/a	n/a
University of Ballarat	1	n/a	n/a	1	n/a	n/a	1	n/a	n/a
University of Canberra	1	n/a	n/a	1	n/a	n/a	2	n/a	n/a
University of Melbourne	5	5	4	5	n/a	5	n/a	n/a	n/a
University of New England	1	n/a	n/a	2	n/a	n/a	n/a	n/a	n/a
University of New South Wales	5	5	5	5	n/a	5	3	n/a	n/a
University of Newcastle	2	3	n/a	2	n/a	n/a	n/a	n/a	n/a
University of Notre Dame Australia	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Queensland	4	4	5	5	n/a	4	3	n/a	n/a
University of South Australia	3	2	n/a	3	n/a	3	2	n/a	n/a
University of Southern Queensland	2	2	n/a	2	n/a	1	n/a	n/a	n/a
University of Sydney	4	3	4	5	n/a	4	n/a	5	n/a
University of Tasmania (inc. Australian Maritime College)	2	n/a	n/a	2	n/a	n/a	n/a	n/a	n/a
University of Technology, Sydney	3	3	3	4	n/a	3	2	n/a	n/a
University of the Sunshine Coast	2	n/a	n/a	2	n/a	n/a	n/a	n/a	n/a
University of Western Australia	4	3	3	5	n/a	3	n/a	n/a	n/a
University of Western Sydney	2	n/a	2	2	2	2	1	n/a	n/a
University of Wollongong	2	2	n/a	3	n/a	2	4	n/a	1
Victoria University	1	n/a	n/a	2	n/a	n/a	2	n/a	1
Total UoEs evaluated	38	22	17	36	4	24	16	2	5

16 Studies in Human Society

Institution	16 Studies in Human Society	1601 Anthropology	1602 Criminology	1603 Demography	1604 Human Geography	1605 Policy and Administration	1606 Political Science	1607 Social Work	1608 Sociology	1699 Other Studies in Human Society
Australian Catholic University	2	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a
Australian National University	5	5	5	4	n/a	3	5	n/a	4	n/a
Batchelor Institute of Indigenous Tertiary Education	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Bond University	2	n/a	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Central Queensland University	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Charles Darwin University	2	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a
Charles Sturt University	2	n/a	3	n/a	n/a	n/a	2	2	2	n/a
Curtin University of Technology	3	n/a	n/a	n/a	n/a	3	n/a	n/a	3	n/a
Deakin University	2	n/a	n/a	n/a	n/a	n/a	2	2	2	n/a
Edith Cowan University	2	n/a	1	n/a	n/a	n/a	2	n/a	2	n/a
Flinders University	3	n/a	3	n/a	n/a	2	3	2	3	n/a
Griffith University	4	n/a	3	n/a	3	2	5	3	2	n/a
James Cook University	2	3	n/a	n/a	3	n/a	n/a	2	3	n/a
La Trobe University	3	3	n/a	n/a	n/a	2	3	3	3	n/a
Macquarie University	3	3	n/a	n/a	3	n/a	3	n/a	3	n/a
MCD University of Divinity	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Monash University	3	3	3	n/a	4	2	3	3	3	3
Murdoch University	3	n/a	n/a	n/a	n/a	n/a	3	n/a	3	n/a
Queensland University of Technology	2	n/a	2	n/a	n/a	n/a	n/a	n/a	2	n/a
RMIT University	3	n/a	n/a	n/a	n/a	3	n/a	n/a	3	n/a
Southern Cross University	2	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a
Swinburne University of Technology	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a
University of Adelaide	3	3	n/a	4	3	n/a	3	n/a	2	n/a
University of Ballarat	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a
University of Canberra	3	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a
University of Melbourne	4	4	3	n/a	4	3	4	4	4	n/a
University of New England	3	n/a	n/a	n/a	3	3	2	n/a	3	n/a
University of New South Wales	4	3	3	n/a	n/a	5	3	4	4	4
University of Newcastle	3	n/a	n/a	n/a	3	2	n/a	5	3	n/a
University of Notre Dame Australia	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Queensland	4	3	n/a	n/a	4	n/a	5	4	4	n/a
University of South Australia	3	n/a	n/a	n/a	n/a	n/a	n/a	3	3	n/a
University of Southern Queensland	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Sydney	4	3	3	n/a	4	n/a	5	3	4	n/a
University of Tasmania (inc. Australian Maritime College)	3	n/a	3	n/a	3	3	3	n/a	3	n/a
University of Technology, Sydney	3	n/a	n/a	n/a	n/a	n/a	3	n/a	3	n/a
University of the Sunshine Coast	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Western Australia	3	3	n/a	n/a	3	n/a	3	n/a	3	n/a
University of Western Sydney	3	n/a	n/a	n/a	3	3	3	2	3	3
University of Wollongong	3	n/a	n/a	n/a	4	n/a	2	n/a	n/a	3
Victoria University	2	n/a	n/a	n/a	n/a	n/a	n/a	3	2	n/a
Total UoEs evaluated	38	11	12	2	14	16	21	16	29	4

17 Psychology and Cognitive Sciences

Institution	17 Psychology and Cognitive Sciences	1701 Psychology	1702 Cognitive Science	1799 Other Psychology and Cognitive Sciences
Australian Catholic University	2	2	n/a	n/a
Australian National University	3	4	n/a	n/a
Batchelor Institute of Indigenous Tertiary Education	n/a	n/a	n/a	n/a
Bond University	1	1	n/a	n/a
Central Queensland University	n/a	n/a	n/a	n/a
Charles Darwin University	n/a	n/a	n/a	n/a
Charles Sturt University	1	1	n/a	n/a
Curtin University of Technology	3	4	n/a	n/a
Deakin University	2	3	1	n/a
Edith Cowan University	1	1	n/a	n/a
Flinders University	3	4	n/a	n/a
Griffith University	2	2	n/a	n/a
James Cook University	2	3	n/a	n/a
La Trobe University	2	2	n/a	n/a
Macquarie University	3	3	3	n/a
MCD University of Divinity	n/a	n/a	n/a	n/a
Monash University	3	3	3	n/a
Murdoch University	3	3	n/a	n/a
Queensland University of Technology	3	3	n/a	n/a
RMIT University	n/a	n/a	n/a	n/a
Southern Cross University	n/a	n/a	n/a	n/a
Swinburne University of Technology	4	4	n/a	n/a
University of Adelaide	3	4	n/a	n/a
University of Ballarat	n/a	n/a	n/a	n/a
University of Canberra	n/a	n/a	n/a	n/a
University of Melbourne	5	5	n/a	n/a
University of New England	3	3	n/a	n/a
University of New South Wales	5	5	n/a	n/a
University of Newcastle	5	5	4	n/a
University of Notre Dame Australia	n/a	n/a	n/a	n/a
University of Queensland	4	5	4	n/a
University of South Australia	3	4	n/a	n/a
University of Southern Queensland	1	1	n/a	n/a
University of Sydney	5	4	4	n/a
University of Tasmania (inc. Australian Maritime College)	2	2	n/a	n/a
University of Technology, Sydney	n/a	n/a	n/a	n/a
University of the Sunshine Coast	n/a	n/a	n/a	n/a
University of Western Australia	4	5	n/a	n/a
University of Western Sydney	2	2	2	n/a
University of Wollongong	3	4	n/a	n/a
Victoria University	2	3	n/a	n/a
Total UoEs evaluated	30	30	7	0

18 Law and Legal Studies

Institution	18 Law and Legal Studies	1801 Law	1802 Maori Law	1899 Other Law and Legal Studies
Australian Catholic University	n/a	n/a	n/a	n/a
Australian National University	5	5	n/a	n/a
Batchelor Institute of Indigenous Tertiary Education	n/a	n/a	n/a	n/a
Bond University	3	3	n/a	n/a
Central Queensland University	n/a	n/a	n/a	n/a
Charles Darwin University	n/a	n/a	n/a	n/a
Charles Sturt University	n/a	n/a	n/a	n/a
Curtin University of Technology	2	2	n/a	n/a
Deakin University	3	3	n/a	n/a
Edith Cowan University	n/a	n/a	n/a	n/a
Flinders University	3	3	n/a	n/a
Griffith University	4	4	n/a	n/a
James Cook University	3	3	n/a	n/a
La Trobe University	3	3	n/a	n/a
Macquarie University	4	4	n/a	n/a
MCD University of Divinity	n/a	n/a	n/a	n/a
Monash University	5	5	n/a	n/a
Murdoch University	3	3	n/a	n/a
Queensland University of Technology	4	4	n/a	n/a
RMIT University	3	3	n/a	n/a
Southern Cross University	2	2	n/a	n/a
Swinburne University of Technology	n/a	n/a	n/a	n/a
University of Adelaide	4	4	n/a	n/a
University of Ballarat	n/a	n/a	n/a	n/a
University of Canberra	2	2	n/a	n/a
University of Melbourne	5	5	n/a	n/a
University of New England	3	3	n/a	n/a
University of New South Wales	5	5	n/a	n/a
University of Newcastle	n/a	n/a	n/a	n/a
University of Notre Dame Australia	n/a	n/a	n/a	n/a
University of Queensland	4	4	n/a	n/a
University of South Australia	2	2	n/a	n/a
University of Southern Queensland	2	2	n/a	n/a
University of Sydney	5	5	n/a	n/a
University of Tasmania (inc. Australian Maritime College)	4	4	n/a	n/a
University of Technology, Sydney	4	4	n/a	n/a
University of the Sunshine Coast	n/a	n/a	n/a	n/a
University of Western Australia	3	3	n/a	n/a
University of Western Sydney	3	3	n/a	n/a
University of Wollongong	4	4	n/a	n/a
Victoria University	2	2	n/a	n/a
Total UoEs evaluated	29	29	0	0

19 Studies in Creative Arts and Writing

Institution	19 Studies in Creative Arts and Writing	1901 Art Theory and Criticism	1902 Film, Television and Digital Media	1903 Journalism and Professional Writing	1904 Performing Arts and Creative Writing	1905 Visual Arts and Crafts	1999 Other Studies in Creative Arts and Writing
Australian Catholic University	2	n/a	n/a	n/a	n/a	n/a	n/a
Australian National University	3	n/a	n/a	n/a	n/a	4	n/a
Batchelor Institute of Indigenous Tertiary Education	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Bond University	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Central Queensland University	2	n/a	n/a	n/a	2	n/a	n/a
Charles Darwin University	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Charles Sturt University	2	n/a	2	n/a	1	2	n/a
Curtin University of Technology	3	n/a	2	n/a	3	n/a	n/a
Deakin University	3	n/a	3	n/a	4	3	n/a
Edith Cowan University	2	2	n/a	2	3	2	n/a
Flinders University	3	n/a	3	n/a	3	n/a	n/a
Griffith University	4	3	3	3	3	4	n/a
James Cook University	2	n/a	n/a	n/a	n/a	2	n/a
La Trobe University	3	n/a	2	3	3	2	n/a
Macquarie University	3	n/a	n/a	n/a	3	n/a	n/a
MCD University of Divinity	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Monash University	4	4	4	3	4	4	n/a
Murdoch University	2	n/a	3	3	n/a	n/a	n/a
Queensland University of Technology	4	n/a	4	4	3	3	n/a
RMIT University	3	n/a	3	n/a	n/a	4	n/a
Southern Cross University	3	n/a	n/a	n/a	n/a	n/a	n/a
Swinburne University of Technology	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Adelaide	5	n/a	n/a	n/a	5	n/a	n/a
University of Ballarat	1	n/a	n/a	n/a	n/a	1	n/a
University of Canberra	3	n/a	n/a	n/a	3	n/a	n/a
University of Melbourne	4	5	3	n/a	4	3	n/a
University of New England	3	n/a	n/a	n/a	3	n/a	n/a
University of New South Wales	5	5	5	n/a	4	5	n/a
University of Newcastle	3	n/a	n/a	n/a	3	n/a	n/a
University of Notre Dame Australia	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Queensland	4	3	4	n/a	4	n/a	n/a
University of South Australia	3	n/a	n/a	3	n/a	3	n/a
University of Southern Queensland	2	n/a	n/a	n/a	n/a	1	n/a
University of Sydney	4	4	n/a	n/a	4	5	n/a
University of Tasmania (inc. Australian Maritime College)	3	2	n/a	4	2	3	n/a
University of Technology, Sydney	3	n/a	n/a	n/a	n/a	n/a	n/a
University of the Sunshine Coast	2	n/a	n/a	n/a	n/a	n/a	n/a
University of Western Australia	4	3	n/a	n/a	4	n/a	n/a
University of Western Sydney	4	n/a	3	n/a	4	n/a	n/a
University of Wollongong	4	n/a	n/a	n/a	4	3	n/a
Victoria University	3	n/a	n/a	n/a	3	n/a	n/a
Total UoEs evaluated	35	9	14	8	24	18	0

20 Language, Communication and Culture

Institution	20 Language, Communication and Culture	2001 Communication and Media Studies	2002 Cultural Studies	2003 Language Studies	2004 Linguistics	2005 Literary Studies	2099 Other Language, Communication and Culture
Australian Catholic University	2	n/a	n/a	n/a	n/a	n/a	n/a
Australian National University	5	n/a	n/a	4	5	4	n/a
Batchelor Institute of Indigenous Tertiary Education	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Bond University	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Central Queensland University	2	n/a	2	n/a	n/a	n/a	n/a
Charles Darwin University	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Charles Sturt University	2	2	n/a	n/a	n/a	n/a	n/a
Curtin University of Technology	3	2	4	n/a	n/a	n/a	n/a
Deakin University	3	2	3	n/a	n/a	3	n/a
Edith Cowan University	3	3	3	n/a	n/a	n/a	n/a
Flinders University	3	n/a	3	n/a	n/a	3	n/a
Griffith University	3	n/a	2	2	n/a	n/a	n/a
James Cook University	3	n/a	n/a	n/a	3	2	n/a
La Trobe University	4	n/a	3	n/a	4	3	n/a
Macquarie University	4	4	3	3	4	3	n/a
MCD University of Divinity	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Monash University	4	3	4	n/a	4	4	n/a
Murdoch University	3	3	3	n/a	n/a	3	n/a
Queensland University of Technology	5	5	4	n/a	n/a	n/a	n/a
RMIT University	4	3	4	n/a	n/a	n/a	n/a
Southern Cross University	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Swinburne University of Technology	3	4	n/a	n/a	n/a	n/a	n/a
University of Adelaide	3	n/a	n/a	n/a	2	2	n/a
University of Ballarat	2	n/a	2	n/a	n/a	n/a	n/a
University of Canberra	2	3	n/a	n/a	n/a	n/a	n/a
University of Melbourne	5	4	5	4	5	5	n/a
University of New England	3	n/a	n/a	n/a	3	3	n/a
University of New South Wales	4	4	5	n/a	3	5	n/a
University of Newcastle	3	n/a	n/a	n/a	2	3	n/a
University of Notre Dame Australia	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Queensland	5	5	5	n/a	4	5	n/a
University of South Australia	3	n/a	4	n/a	3	n/a	n/a
University of Southern Queensland	2	n/a	n/a	n/a	n/a	n/a	n/a
University of Sydney	5	4	5	n/a	4	5	n/a
University of Tasmania (inc. Australian Maritime College)	3	n/a	3	n/a	n/a	3	n/a
University of Technology, Sydney	4	4	4	n/a	3	n/a	n/a
University of the Sunshine Coast	n/a	n/a	n/a	n/a	n/a	n/a	n/a
University of Western Australia	4	n/a	3	n/a	3	5	n/a
University of Western Sydney	4	n/a	4	n/a	3	4	n/a
University of Wollongong	3	n/a	3	n/a	n/a	3	n/a
Victoria University	3	n/a	3	n/a	n/a	n/a	n/a
Total UoEs evaluated	34	16	24	4	16	19	0

21 History and Archaeology

Institution	21 History and Archaeology	2101 Archaeology	2102 Curatorial and Related Studies	2103 Historical Studies	2199 Other History and Archaeology
Australian Catholic University	3	n/a	n/a	3	n/a
Australian National University	5	5	n/a	5	n/a
Batchelor Institute of Indigenous Tertiary Education	n/a	n/a	n/a	n/a	n/a
Bond University	n/a	n/a	n/a	n/a	n/a
Central Queensland University	n/a	n/a	n/a	n/a	n/a
Charles Darwin University	2	n/a	n/a	2	n/a
Charles Sturt University	2	n/a	n/a	2	n/a
Curtin University of Technology	3	n/a	n/a	3	n/a
Deakin University	3	n/a	3	3	n/a
Edith Cowan University	n/a	n/a	n/a	n/a	n/a
Flinders University	3	2	n/a	3	n/a
Griffith University	4	n/a	n/a	4	n/a
James Cook University	3	3	n/a	2	n/a
La Trobe University	5	5	n/a	5	n/a
Macquarie University	4	3	n/a	4	n/a
MCD University of Divinity	n/a	n/a	n/a	n/a	n/a
Monash University	5	4	n/a	5	n/a
Murdoch University	3	n/a	n/a	3	n/a
Queensland University of Technology	n/a	n/a	n/a	n/a	n/a
RMIT University	n/a	n/a	n/a	n/a	n/a
Southern Cross University	n/a	n/a	n/a	n/a	n/a
Swinburne University of Technology	3	n/a	n/a	3	n/a
University of Adelaide	3	n/a	n/a	3	n/a
University of Ballarat	n/a	n/a	n/a	n/a	n/a
University of Canberra	n/a	n/a	n/a	n/a	n/a
University of Melbourne	5	3	n/a	5	n/a
University of New England	3	3	n/a	3	n/a
University of New South Wales	5	n/a	n/a	5	n/a
University of Newcastle	3	n/a	n/a	3	n/a
University of Notre Dame Australia	n/a	n/a	n/a	n/a	n/a
University of Queensland	4	4	n/a	3	n/a
University of South Australia	n/a	n/a	n/a	n/a	n/a
University of Southern Queensland	2	n/a	n/a	n/a	n/a
University of Sydney	5	5	n/a	5	n/a
University of Tasmania (inc. Australian Maritime College)	4	n/a	n/a	4	n/a
University of Technology, Sydney	3	n/a	n/a	3	n/a
University of the Sunshine Coast	n/a	n/a	n/a	n/a	n/a
University of Western Australia	4	3	n/a	4	n/a
University of Western Sydney	3	n/a	n/a	3	n/a
University of Wollongong	4	4	n/a	3	n/a
Victoria University	n/a	n/a	n/a	n/a	n/a
Total UoEs evaluated	27	12	1	26	0

22 Philosophy and Religious Studies

Institution	22 Philosophy and Religious Studies	2201 Applied Ethics	2202 History and Philosophy of Specific Fields	2203 Philosophy	2204 Religion and Religious Studies	2299 Other Philosophy and Religious Studies
Australian Catholic University	3	n/a	n/a	2	3	n/a
Australian National University	5	n/a	n/a	5	n/a	n/a
Batchelor Institute of Indigenous Tertiary Education	n/a	n/a	n/a	n/a	n/a	n/a
Bond University	n/a	n/a	n/a	n/a	n/a	n/a
Central Queensland University	n/a	n/a	n/a	n/a	n/a	n/a
Charles Darwin University	n/a	n/a	n/a	n/a	n/a	n/a
Charles Sturt University	3	3	n/a	3	2	n/a
Curtin University of Technology	n/a	n/a	n/a	n/a	n/a	n/a
Deakin University	3	n/a	3	n/a	n/a	n/a
Edith Cowan University	n/a	n/a	n/a	n/a	n/a	n/a
Flinders University	2	n/a	n/a	2	2	n/a
Griffith University	3	n/a	n/a	n/a	n/a	n/a
James Cook University	n/a	n/a	n/a	n/a	n/a	n/a
La Trobe University	3	n/a	n/a	4	2	n/a
Macquarie University	4	3	n/a	4	n/a	n/a
MCD University of Divinity	3	n/a	n/a	n/a	3	n/a
Monash University	5	3	4	5	4	n/a
Murdoch University	2	n/a	n/a	n/a	3	n/a
Queensland University of Technology	n/a	n/a	n/a	n/a	n/a	n/a
RMIT University	n/a	n/a	n/a	n/a	n/a	n/a
Southern Cross University	n/a	n/a	n/a	n/a	n/a	n/a
Swinburne University of Technology	n/a	n/a	n/a	n/a	n/a	n/a
University of Adelaide	4	n/a	n/a	4	n/a	n/a
University of Ballarat	n/a	n/a	n/a	n/a	n/a	n/a
University of Canberra	n/a	n/a	n/a	n/a	n/a	n/a
University of Melbourne	4	4	4	5	4	n/a
University of New England	3	n/a	n/a	3	n/a	n/a
University of New South Wales	4	n/a	4	4	n/a	n/a
University of Newcastle	3	n/a	n/a	n/a	3	n/a
University of Notre Dame Australia	1	n/a	n/a	1	1	n/a
University of Queensland	4	n/a	4	4	3	n/a
University of South Australia	n/a	n/a	n/a	n/a	n/a	n/a
University of Southern Queensland	n/a	n/a	n/a	n/a	n/a	n/a
University of Sydney	5	3	5	5	3	n/a
University of Tasmania (inc. Australian Maritime College)	3	n/a	n/a	3	n/a	n/a
University of Technology, Sydney	n/a	n/a	n/a	n/a	n/a	n/a
University of the Sunshine Coast	n/a	n/a	n/a	n/a	n/a	n/a
University of Western Australia	3	n/a	n/a	3	n/a	n/a
University of Western Sydney	3	n/a	n/a	3	3	n/a
University of Wollongong	3	n/a	n/a	3	n/a	n/a
Victoria University	n/a	n/a	n/a	n/a	n/a	n/a
Total UoEs evaluated	23	5	6	18	13	0

GLOSSARY

Applied measures	Applied measures for ERA 2012 include Plant Breeder's Rights; registered patents; registered designs; research commercialisation income; and NHMRC endorsed guidelines.
Apportioned (count)	Institutions could apportion percentages of a research output submitted to ERA 2012 across between one and three four-digit codes, to a total of 100%. The minimum that an output could be apportioned to a FoR code was 20%.
Australia Council grant or fellowship	Australia Council grants and fellowship programs are an ERA esteem measure. They are characterised by a strong element of peer review, are open to applicants from any State or Territory, require a minimum tenure of two years full-time equivalent and are awarded to an individual.
Cluster	A set of disciplines grouped specifically for the administrative purposes of the ERA 2012 evaluation. Clusters are made up of related two-digit and four-digit FoR codes. There is one Research Evaluation Committee (REC) for each cluster. The eight ERA 2012 discipline clusters were: 1. Physical, Chemical and Earth Sciences (PCE) 2. Humanities and Creative Arts (HCA) 3. Engineering and Environmental Sciences (EE) 4. Education and Human Society (EHS) 5. Economics and Commerce (EC) 6. Mathematical, Information and Computing Sciences (MIC) 7. Biological and Biotechnological Sciences (BB) 8. Medical and Health Sciences (MHS)
Commercialisation income	See 'Research commercialisation income'.
Disciplinary Profile	Shows the range of FoR codes where research outputs are co-apportioned (i.e. apportioned to more than one FoR code).
Discipline	For the purposes of ERA 2012, disciplines were defined as four- or two-digit Fields of Research (FoR) codes, as identified in the *Australian and New Zealand Standard Research Classification (ANZSRC) 2008*. The ANZSRC is available at http://arc.gov.au/era/ANZSRC.htm.
Discipline Matrix	The *ERA 2012 Discipline Matrix* specifies which ERA indicators apply to which disciplines. The *ERA 2012 Discipline Matrix* is available at http://www.arc.gov.au/era/era_2012/key_documents_2012.htm.

Eligible institutions	Australian higher education providers eligible to participate in ERA, defined as Table A and B providers listed in the *Higher Education Support Act 2003*. A list of eligible institutions is provided at Appendix 1 to this report.
Eligible researcher	A researcher who met the criteria specified at section 5.3.1 of the *ERA 2012 Submission Guidelines* (available from http://www.arc.gov.au/era/era_2012/key_documents_2012.htm).
Employed	For ERA 2012 purposes, the term 'employed' is used in the same sense as in the *Higher Education Staff Data Collection (HESDC) Specifications*. It is used to describe the status of an eligible researcher (as 'employed' or 'employed on a casual basis').
Employee	For ERA purposes, the term 'employee' is used in the same sense as in the *Higher Education Staff Data Collection (HESDC) Specifications*.
ERA 2012 Journal List	A list of journals eligible for institutions' ERA 2012 submissions. The *ERA 2012 Journal List* is available from http://www.arc.gov.au/era/era_2012/key_documents_2012.htm.
ERA peer review	Review conducted of a sample of research outputs by Research Evaluation Committees (RECs) and ERA peer reviewers as part of the ERA evaluation process.
ERA peer reviewer	Independent expert who undertakes ERA peer review of a sample of research outputs as part of the ERA evaluation process.
Esteem measures	Esteem measures indicate that a researcher is held in particularly high regard by their peers or other qualified parties. Eligible esteem measures for ERA 2012 included: editor of a prestigious work of reference; fellowship of a learned academy and membership of AIATSIS; recipient of a nationally competitive research fellowship; membership of a statutory committee; and recipient of an Australia Council Grant or Australia Council fellowship. See Section 5.7 of the *ERA 2012 Submission Guidelines* for further details (available from http://www.arc.gov.au/era/era_2012/key_documents_2012.htm).
Fields of Research (FoR)	A hierarchical classification of research disciplines as set out in the Australian Bureau of Statistics *Australian and New Zealand Standard Research Classification (ANZSRC) 2008*. The term 'Fields of Research' or 'FoR' applies to all three ANZSRC levels (two-digit, four-digit and six-digit). Only two- and four-digit FoR codes are used for the purposes of ERA. The ANZSRC is available at http://arc.gov.au/era/ANZSRC.htm.

Four-digit FoR	The middle level of the three hierarchical levels within the Australian Bureau of Statistics *Australian and New Zealand Standard Research Classification (ANZSRC) 2008*. An example of a four-digit FoR code is '0206 Quantum Physics'. The ANZSRC is available at http://arc.gov.au/era/ANZSRC.htm.
Full-time equivalent (FTE)	FTE staffing profile base on academic salary classification, as used in HESDC. Includes Levels A – E and 'Other'.
Higher Education Research Data Collection (HERDC)	The Higher Education Research Data Collection is an annual data collection exercise undertaken by the Department of Industry, Innovation, Science, Research and Tertiary Education (DIISRTE).
HERDC Category 1 (income)	The type of research income addressed in HERDC research income Category 1, that is, grants listed on the Australian Competitive Grants Register (ACGR). See section 5.5.3.1 of the *ERA 2012 Submission Guidelines* for further details.
HERDC Category 2 (income)	The type of research income addressed in HERDC research income Category 2, that is, public sector research income other than Australian Competitive Grants. See section 5.5.3.2 of the *ERA 2012 Submission Guidelines* for further details.
HERDC Category 3 (income)	The type of research income addressed in HERDC research income Category 3, which consists of industry and other research income. For ERA purposes this income is disaggregated into the following three sub-categories: • 3 (i) Australian • 3 (ii) International A (competitive, peer reviewed) • 3 (iii) International B (other international income). See section 5.5.3.3 of the *ERA 2012 Submission Guidelines* for further details.
HERDC Category 4 (income)	The type of research income addressed in HERDC research income Category 4. It comprises research income received by Cooperative Research Centres (CRCs) in which the relevant institution is a core participant (i.e. a signatory to the CRC's Commonwealth Agreement). See section 5.5.3.4 of the ERA 20122 Submission Guidelines for further details.
Higher Education Staff Data Collection (HESDC)	The annual staff data collection exercise that was undertaken by the Department of Education, Employment and Workplace Relations (DEEWR).
Indexed journal articles	For ERA purposes, 'indexed journal articles' refers to articles published in journals listed in the ERA 2012 Journal List that were indexed by the ERA 2012 citation data supplier, SciVerse Scopus, as of 1 March 2012.

Learned Academies

Organisations whose individual or institutional members are devoted to the advancement of learning in one of the three broad areas of knowledge: the natural sciences, humanities and social sciences. Eligible 'membership of learned academies' for ERA 2012 (esteem measures) included:

- Australian Academy of Humanities
- Australian Academy of Science
- Academy of the Social Sciences in Australia
- Australian Academy of Technological Sciences and Engineering
- Australian Institute of Aboriginal and Torres Strait Islander Studies.

Low volume threshold

Each discipline within an institution is only subject to ERA evaluation if a certain volume of research outputs has been submitted. For disciplines where citation analysis was used, the low volume threshold was 50 apportioned indexed journal articles. For disciplines where peer review was used, the low volume threshold was 50 apportioned research outputs. For the purpose of calculating the low volume threshold in peer review disciplines, books ('weighted research outputs') were given an effective weighting of 5:1 compared with other research outputs. See Section 3.6 of the *ERA 2012 Submission Guidelines* for more information.

Nationally Competitive Research Fellowship

Refers to a fellowship awarded during the esteem measures reference period, to an eligible researcher under a Category 1 program listed on the Australian Competitive Grants Register (ACGR). Such fellowships are characterised by:

- a highly competitive process open to applicants from any Australian State or Territory
- a strong element of peer review
- a minimum tenure of two years full time equivalent.

Further details can be obtained from section 5.7.2.5 of the *ERA 2012 Submission Guidelines*.

NHMRC Endorsed Guidelines

Guidelines endorsed by the National Health and Medical Research Council (NHMRC) and those on population health, clinical practice and ethics. They may be produced by groups external to the NHMRC, or else developed by the NHMRC with the assistance of expert working groups. See section 5.6.2.9 of the *ERA 2012 Submission Guidelines* for further details.

Non-traditional research outputs

Research outputs which do not take the form of traditional research books, book chapters, journal articles or conference publications. See section 5.4.9 of the *ERA 2012 Submission Guidelines* for further details.

Not assessed (n/a)

Research outputs not assessed because the unit of evaluation did not have a sufficient volume of eligible research outputs to meet the low volume threshold.

Original Creative Works	A type of non-traditional research output, including scholarly editions, scholarly translations and public policy reports. See section 5.4.9.3 of the *ERA 2012 Submission Guidelines* for further details.
Other International (patents)	Patents that were sealed in a country or region other than Australia, the United States, Europe or Japan.
Other Level	Where an eligible researcher cannot be assigned to one of the Full-Time Equivalent (FTE) levels A-E the researcher is classified as 'Other Level'. This includes general staff and academic occupying management positions.
Patent	As defined in relevant legislation, a patent is a right granted for any device, substance, method or process which is new, inventive and useful. It is legally enforceable and gives the owner the exclusive right to commercially exploit the invention for the life of the patent. ERA 2012 applied measures include Australian standard patents (but not Australian innovation patents) and equivalent patents issued overseas.
Peer review	See 'ERA peer review'.
Plant Breeder's Rights (PBRs)	As defined in relevant legislation, Plant Breeder's Rights (PBRs) are proprietary rights held by breeders of certain new varieties of plants and fungi. Such rights are legally enforceable and give exclusive commercial rights to market a new variety or its propagating material for the duration of the PBR. For ERA 2012 purposes, PBRs were those granted under the Plant Breeder's Rights Act 1994 or their international equivalents. See sections 5.6.2.1 and 5.6.2.2 of the *ERA 2012 Submission Guidelines* for further details.
Portfolio	A group of individual works submitted separately which together constitute a single non-traditional research output. The portfolio has to demonstrate coherent research content. See section 5.4.9 of the *ERA 2012 Submission Guidelines* for further information.
Prestigious work of reference	A work of reference which is one of the best in its field or sub-field, characterised by a rigorous refereeing process and by high scholarly standards. Collectively, the work is expected to be recognised as one of the best sources of reference for the field or sub-field. Editor of a prestigious work of reference is an esteem measure for ERA 2012. See section 5.7.2.1 of the *ERA 2012 Submission Guidelines* for further details.
Reassignment Exception	Where a journal article has significant content (66% or greater) that could best be described by a particular FoR code, institutions could assign that code to the article, even if the ERA 2012 Journal List does not assign that code to the journal in which the article was published. This is known as the 'reassignment exception'. See Section 5.4.3.1 of the *ERA 2012 Submission Guidelines* for further details.

Recorded/Rendered Creative Works	The research component of this output is contained within the recording/rendering and includes research outputs such as film, radio, digital creative works, Internet exhibitions etc. See Section 5.4.9.5 of the *ERA 2012 Submission Guidelines* for more information about this non-traditional research output type.
Reference periods	The set time period during which research outputs were required to have been published, research income reported under HERDC etc., in order to be eligible for inclusion in ERA submissions. ERA 2012 reference periods vary according to the type of research output. ERA 2012 reference periods are listed in the introduction to this report.
Registered design	Registered design is an applied measure for ERA 2012. A registered design is a design registered under the *Designs Act 2003* (where 'design' refers to the overall appearance of the product resulting from one or more visual features of the product). See section 5.6.2.5 and 5.6.2.6 of the *ERA 2012 Submission Guidelines* for further details.
Research	For the purposes of ERA, research is defined as the creation of new knowledge and/or the use of existing knowledge in a new and creative way so as to generate new concepts, methodologies and understandings. This could include synthesis and analysis of previous research to the extent that it is new and creative. For more information, see section 3.1 of the *ERA 2012 Submission Guidelines*.
Research Commercialisation Income	Commercial returns via income and/or capital gains resulting from the commercialisation of research outputs, services and intellectual property. Under ERA 2012, research commercialisation income is treated as an 'applied measure' rather than 'research income'. See section 5.6.2.7 of the *ERA 2012 Submission Guidelines* for further details.
Research Evaluation Committees (RECs)	The cluster-specific committees which undertook the ERA 2012 evaluations. Each committee included internationally-recognised members with expertise in research evaluation and broad discipline expertise. REC members are listed on the ARC website at www.arc.gov.au/era/recs_2012/recs_2012.htm
Research output	Research outputs include books, journal articles, book chapters, conference papers and non-traditional research outputs.
Staff census date	For a researcher to be eligible for ERA, the researcher must have been employed by an eligible institution at the staff census date. The staff census date for ERA 2012 was 31 March 2011.
Status	This term describes the basis on which a researcher is considered affiliated with an institution for ERA purposes, and may by 'Employed', 'Employed on a Casual Basis', or 'Other Status'. See section 5.3.2.6 of the *ERA 2012 Submission Guidelines* for more information.

Statutory committee	Membership of recognised statutory committees is an ERA esteem measure for certain disciplines. Statutory committees are recognised by Commonwealth Government agencies, including the National Health and Medical Research Council, and The United Nations, including the World Health Organization. See section 5.7.2.7 of the *ERA 2012 Submission Guidelines* for further details.
Traditional research outputs	Research outputs in the form of published research books, book chapters, journal articles or conference papers.
Triadic patents	Triadic patents are patents that are a series of corresponding patents filed at the European Patent Office (EPO), the United States Patent and Trademark Office (USPTO) and the Japan Patent Office (JPO), for the same invention by the same applicant or inventor.
Two-digit FoR	The highest of the three hierarchical levels as identified in the Australian Bureau of Statistics *Australian and New Zealand Standard Research Classification (ANZSRC) 2008*. An example is '02 Physical Sciences'. The ANZSRC is available at http://www.arc.gov.au/era/ANZSRC.htm.
Unit of Evaluation (UoE)	A discipline, as defined by a two-digit or four-digit FoR code, for a specific eligible institution. In some contexts, the term refers to the package of associated ERA information (including submission data, indicators and evaluation outcomes). See section 3.3 of the *ERA 2012 Submission Guidelines* for further details.
UoEs assessed	Units of Evaluation (UoEs) that have met the Low Volume Threshold and have been assessed by Research Evaluation Committees (RECs).
Weighted research outputs	For the purposes of determining the Low Volume Threshold for non-citation analysis disciplines, books were given an effective weighting of 5:1 compared with other research outputs (such as journal articles).
Whole (count)	The ERA methodology provided both apportioned and whole counts of research outputs, i.e. an output apportioned 20% to an FoR code would have an apportioned count of 0.2 and a whole count of 1 in that FoR code.

APPENDIX 1: ELIGIBLE INSTITUTIONS

Australian higher education institutions eligible to participate in ERA 2012 are defined as Table A and B providers listed in the *Higher Education Support Act 2003*.

Australian Catholic University
Batchelor Institute of Indigenous Tertiary Education
Bond University
Central Queensland University
Charles Darwin University
Charles Sturt University
Curtin University of Technology
Deakin University
Edith Cowan University
Flinders University
Griffith University
James Cook University
La Trobe University
Macquarie University
MCD University of Divinity
Monash University
Murdoch University
Queensland University of Technology
RMIT University
Southern Cross University
Swinburne University of Technology
The Australian National University
The University of Adelaide
The University of Melbourne
The University of New England
The University of New South Wales
University of Newcastle
The University of Notre Dame Australia
The University of Queensland
The University of Sydney
The University of the Sunshine Coast
The University of Western Australia
University of Ballarat
University of Canberra
University of South Australia
University of Southern Queensland
University of Tasmania (incorporating Australian Maritime College)
University of Technology, Sydney
University of Western Sydney
University of Wollongong
Victoria University

APPENDIX 2:
ANZSRC FIELDS OF RESEARCH (FOR) CODES

FoR Code	FoR Name	ERA Cluster Name
01	**Mathematical Sciences**	**Mathematical, Information and Computing Sciences**
0101	Pure Mathematics	Mathematical, Information and Computing Sciences
0102	Applied Mathematics	Mathematical, Information and Computing Sciences
0103	Numerical and Computational Mathematics	Mathematical, Information and Computing Sciences
0104	Statistics	Mathematical, Information and Computing Sciences
0105	Mathematical Physics	Mathematical, Information and Computing Sciences
0199	Other Mathematical Sciences	Mathematical, Information and Computing Sciences
02	**Physical Sciences**	**Physical, Chemical and Earth Sciences**
0201	Astronomical and Space Sciences	Physical, Chemical and Earth Sciences
0202	Atomic, Molecular, Nuclear, Particle and Plasma Physics	Physical, Chemical and Earth Sciences
0203	Classical Physics	Physical, Chemical and Earth Sciences
0204	Condensed Matter Physics	Physical, Chemical and Earth Sciences
0205	Optical Physics	Physical, Chemical and Earth Sciences
0206	Quantum Physics	Physical, Chemical and Earth Sciences
0299	Other Physical Sciences	Physical, Chemical and Earth Sciences
03	**Chemical Sciences**	**Physical, Chemical and Earth Sciences**
0301	Analytical Chemistry	Physical, Chemical and Earth Sciences
0302	Inorganic Chemistry	Physical, Chemical and Earth Sciences
0303	Macromolecular and Materials Chemistry	Physical, Chemical and Earth Sciences
0304	Medicinal and Biomolecular Chemistry	Physical, Chemical and Earth Sciences
0305	Organic Chemistry	Physical, Chemical and Earth Sciences
0306	Physical Chemistry (incl. Structural)	Physical, Chemical and Earth Sciences
0307	Theoretical and Computational Chemistry	Physical, Chemical and Earth Sciences
0399	Other Chemical Sciences	Physical, Chemical and Earth Sciences
04	**Earth Sciences**	**Physical, Chemical and Earth Sciences**
0401	Atmospheric Sciences	Physical, Chemical and Earth Sciences
0402	Geochemistry	Physical, Chemical and Earth Sciences
0403	Geology	Physical, Chemical and Earth Sciences
0404	Geophysics	Physical, Chemical and Earth Sciences
0405	Oceanography	Physical, Chemical and Earth Sciences
0406	Physical Geography and Environmental Geoscience	Physical, Chemical and Earth Sciences
0499	Other Earth Sciences	Physical, Chemical and Earth Sciences
05	**Environmental Sciences**	**Engineering and Environmental Sciences**
0501	Ecological Applications	Engineering and Environmental Sciences
0502	Environmental Science and Management	Engineering and Environmental Sciences
0503	Soil Sciences	Engineering and Environmental Sciences
0599	Other Environmental Sciences	Engineering and Environmental Sciences
06	**Biological Sciences**	**Biological and Biotechnological Sciences**
0601	Biochemistry and Cell Biology	Biological and Biotechnological Sciences
0602	Ecology	Biological and Biotechnological Sciences
0603	Evolutionary Biology	Biological and Biotechnological Sciences
0604	Genetics	Biological and Biotechnological Sciences
0605	Microbiology	Biological and Biotechnological Sciences
0606	Physiology	Biological and Biotechnological Sciences
0607	Plant Biology	Biological and Biotechnological Sciences
0608	Zoology	Biological and Biotechnological Sciences
0699	Other Biological Sciences	Biological and Biotechnological Sciences

continued

FoR Code	FoR Name	ERA Cluster Name
07	**Agriculture and Veterinary Sciences**	**Biological and Biotechnological Sciences**
0701	Agriculture, Land and Farm Management	Biological and Biotechnological Sciences
0702	Animal Production	Biological and Biotechnological Sciences
0703	Crop and Pasture Production	Biological and Biotechnological Sciences
0704	Fisheries Sciences	Biological and Biotechnological Sciences
0705	Forestry Sciences	Biological and Biotechnological Sciences
0706	Horticultural Production	Biological and Biotechnological Sciences
0707	Veterinary Sciences	Biological and Biotechnological Sciences
0799	Other Agricultural and Veterinary Sciences	Biological and Biotechnological Sciences
08	**Information and Computing Sciences**	**Mathematical, Information and Computing Sciences**
0801	Artificial Intelligence and Image Processing	Mathematical, Information and Computing Sciences
0802	Computation Theory and Mathematics	Mathematical, Information and Computing Sciences
0803	Computer Software	Mathematical, Information and Computing Sciences
0804	Data Format	Mathematical, Information and Computing Sciences
0805	Distributed Computing	Mathematical, Information and Computing Sciences
0806	Information Systems	Mathematical, Information and Computing Sciences
0807	Library and Information Studies	Mathematical, Information and Computing Sciences
0899	Other Information and Computing Sciences	Mathematical, Information and Computing Sciences
09	**Engineering**	**Engineering and Environmental Sciences**
0901	Aerospace Engineering	Engineering and Environmental Sciences
0902	Automotive Engineering	Engineering and Environmental Sciences
0903	Biomedical Engineering	Engineering and Environmental Sciences
0904	Chemical Engineering	Engineering and Environmental Sciences
0905	Civil Engineering	Engineering and Environmental Sciences
0906	Electrical and Electronic Engineering	Engineering and Environmental Sciences
0907	Environmental Engineering	Engineering and Environmental Sciences
0908	Food Sciences	Engineering and Environmental Sciences
0909	Geomatic Engineering	Engineering and Environmental Sciences
0910	Manufacturing Engineering	Engineering and Environmental Sciences
0911	Maritime Engineering	Engineering and Environmental Sciences
0912	Materials Engineering	Engineering and Environmental Sciences
0913	Mechanical Engineering	Engineering and Environmental Sciences
0914	Resources Engineering and Extractive Metallurgy	Engineering and Environmental Sciences
0915	Interdisciplinary Engineering	Engineering and Environmental Sciences
0999	Other Engineering	Engineering and Environmental Sciences
10	**Technology**	**Biological and Biotechnological Sciences / Medical and Health Sciences / Engineering and Environmental Sciences**
1001	Agricultural Biotechnology	Biological and Biotechnological Sciences
1002	Environmental Biotechnology	Biological and Biotechnological Sciences
1003	Industrial Biotechnology	Biological and Biotechnological Sciences
1004	Medical Biotechnology	Medical and Health Sciences
1005	Communications Technologies	Engineering and Environmental Sciences
1006	Computer Hardware	Engineering and Environmental Sciences
1007	Nanotechnology	Engineering and Environmental Sciences
1099	Other Technology	Engineering and Environmental Sciences
11	**Medical and Health Sciences**	**Medical and Health Sciences**
1101	Medical Biochemistry and Metabolomics	Medical and Health Sciences
1102	Cardiovascular Medicine and Haematology	Medical and Health Sciences
1103	Clinical Sciences	Medical and Health Sciences
1104	Complementary and Alternative Medicine	Medical and Health Sciences
1105	Dentistry	Medical and Health Sciences

continued

FoR Code	FoR Name	ERA Cluster Name
1106	Human Movement and Sports Science	Medical and Health Sciences
1107	Immunology	Medical and Health Sciences
1108	Medical Microbiology	Medical and Health Sciences
1109	Neurosciences	Medical and Health Sciences
1110	Nursing	Medical and Health Sciences
1111	Nutrition and Dietetics	Medical and Health Sciences
1112	Oncology and Carcinogenesis	Medical and Health Sciences
1113	Ophthalmology and Optometry	Medical and Health Sciences
1114	Paediatrics and Reproductive Medicine	Medical and Health Sciences
1115	Pharmacology and Pharmaceutical Sciences	Medical and Health Sciences
1116	Medical Physiology	Medical and Health Sciences
1117	Public Health and Health Services	Medical and Health Sciences
1199	Other Medical and Health Sciences	Medical and Health Sciences
12	**Built Environment and Design**	**Humanities and Creative Arts**
1201	Architecture	Humanities and Creative Arts
1202	Building	Humanities and Creative Arts
1203	Design Practice and Management	Humanities and Creative Arts
1204	Engineering Design	Humanities and Creative Arts
1205	Urban and Regional Planning	Humanities and Creative Arts
1299	Other Built Environment and Design	Humanities and Creative Arts
13	**Education**	**Education and Human Society**
1301	Education Systems	Education and Human Society
1302	Curriculum and Pedagogy	Education and Human Society
1303	Specialist Studies in Education	Education and Human Society
1399	Other Education	Education and Human Society
14	**Economics**	**Economics and Commerce**
1401	Economic Theory	Economics and Commerce
1402	Applied Economics	Economics and Commerce
1403	Econometrics	Economics and Commerce
1499	Other Economics	Economics and Commerce
15	**Commerce, Management, Tourism and Services**	**Economics and Commerce**
1501	Accounting, Auditing and Accountability	Economics and Commerce
1502	Banking, Finance and Investment	Economics and Commerce
1503	Business and Management	Economics and Commerce
1504	Commercial Services	Economics and Commerce
1505	Marketing	Economics and Commerce
1506	Tourism	Economics and Commerce
1507	Transportation and Freight Services	Economics and Commerce
1599	Other Commerce, Management, Tourism and Services	Economics and Commerce
16	**Studies in Human Society**	**Education and Human Society**
1601	Anthropology	Education and Human Society
1602	Criminology	Education and Human Society
1603	Demography	Education and Human Society
1604	Human Geography	Education and Human Society
1605	Policy and Administration	Education and Human Society
1606	Political Science	Education and Human Society
1607	Social Work	Education and Human Society
1608	Sociology	Education and Human Society
1699	Other Studies in Human Society	Education and Human Society

continued

FoR Code	FoR Name	ERA Cluster Name
17	**Psychology and Cognitive Sciences**	**Medical and Health Sciences**
1701	Psychology	Medical and Health Sciences
1702	Cognitive Science	Medical and Health Sciences
1799	Other Psychology and Cognitive Science	Medical and Health Sciences
18	**Law and Legal Studies**	**Humanities and Creative Arts**
1801	Law	Humanities and Creative Arts
1802	Maori Law	Humanities and Creative Arts
1899	Other Law and Legal Studies	Humanities and Creative Arts
19	**Studies in Creative Arts and Writing**	**Humanities and Creative Arts**
1901	Art Theory and Criticism	Humanities and Creative Arts
1902	Film, Television and Digital Media	Humanities and Creative Arts
1903	Journalism and Professional Writing	Humanities and Creative Arts
1904	Performing Arts and Creative Writing	Humanities and Creative Arts
1905	Visual Arts and Crafts	Humanities and Creative Arts
1999	Other Studies in Creative Arts and Writing	Humanities and Creative Arts
20	**Language, Communication and Culture**	**Humanities and Creative Arts**
2001	Communication and Media Studies	Humanities and Creative Arts
2002	Cultural Studies	Humanities and Creative Arts
2003	Language Studies	Humanities and Creative Arts
2004	Linguistics	Humanities and Creative Arts
2005	Literary Studies	Humanities and Creative Arts
2099	Other Language, Literature and Culture	Humanities and Creative Arts
21	**History and Archaeology**	**Humanities and Creative Arts**
2101	Archaeology	Humanities and Creative Arts
2102	Curatorial and Related Studies	Humanities and Creative Arts
2103	Historical Studies	Humanities and Creative Arts
2199	Other History and Archaeology	Humanities and Creative Arts
22	**Philosophy and Religious Studies**	**Humanities and Creative Arts**
2201	Applied Ethics	Humanities and Creative Arts
2202	History and Philosophy of Specific Fields	Humanities and Creative Arts
2203	Philosophy	Humanities and Creative Arts
2204	Religion and Religious Studies	Humanities and Creative Arts
2299	Other Philosophy and Religious Studies	Humanities and Creative Arts