Dual/Joint Degree Programs and Internationalization of Higher Education – The Macquarie experience

The 2nd Seminar on Internationalization of Higher Education (IHES2)

Professor Lorne Cummings
Associate Dean – Higher Degree Research
Faculty of Business and Economics

Sharif University, Tehran, Iran,
December 2018

Structure of Presentation

- Exchange, Internships and Joint PhD Partnerships
- Importance of Establishing Research Goals
- Schimago Rankings
- Australia’s Research and Research Training System
    - Benchmarking through ERA and Impact
- International Research Training Partnerships Framework
- University Level Partnerships
    - Cotutelle/Joint PhD programs
    - Trilateral relationships (DAAD)
- Key lessons for partnerships

Exchange, Internships, and Joint PhD Partnerships

- Bilateral exchange agreements with >150 universities in over 40 countries
- Over 500 programs mapped in 2016
- Member of two global networks (Australian-European Network and International Student Exchange Program)
- >250 cotutelle/joint PhD programs with universities in over 30 countries
- MQ ranked #49 most international university in the world (THE, 2016)

Importance of Establishing Research Goals

1. Develop a strong and vibrant Faculty/School research culture
2. Recruit and retain high performing research staff & further develop their research capacity and research leadership
3. Increase the quality and quantity of research publications
4. Increase external funding income
5. Attract and retain high quality local and international HDR students in areas of current and emerging strength
6. Advance disciplinary and multi-disciplinary problem-focused and solution-focused research.
7. Foster synergistic end user partnerships
8. Enhance scholarly research collaborations, networks and consortia locally, nationally and internationally
9. Streamline and improve research facilities and staff support services

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2	China	3.617.355	3.569.652	19.110.353	10.462.121	7,44	495
3	United Kingdom	2.397.817	2.103.145	44.011.201	10.321.539	21,03	1.015
4	Germany	2.176.860	2.045.433	35.721.869	9.141.181	18,50	887
5	Japan	2.074.872	2.008.410	27.040.067	7.619.559	13,79	745
6	France	1.555.629	1.468.286	24.700.140	5.516.943	17,95	811
7	Canada	1.227.380	1.134.588	22.152.666	4.136.384	21,40	794
8	Italy	1.200.448	1.117.013	18.019.464	4.186.908	17,52	713
9	India	998.544	944.632	6.989.150	2.409.025	9,61	383
10	Spain	952.099	884.670	12.628.097	3.068.362	16,14	591
11	Australia	890.458	809.027	13.772.961	2.947.945	19,49	644
12	South Korea	739.229	719.338	7.063.429	1.528.443	12,38	424
13	Russian Federation	701.029	689.095	4.289.618	1.273.073	6,50	390
14	Netherlands	681.804	628.678	14.278.721	2.321.446	24,56	694
15	Brazil	598.234	573.988	5.036.027	1.699.530	11,73	379
16	Switzerland	493.857	460.824	10.872.269	1.458.098	26,10	686
17	Taiwan	491.560	477.442	4.790.230	1.075.153	12,17	331
18	Sweden	460.607	433.674	9.417.604	1.448.940	23,21	614
19	Poland	431.016	418.917	3.491.958	901.545	9,57	371
20	Turkey	390.874	368.197	2.938.841	737.423	9,79	266
21	Belgium	372.093	348.017	6.691.791	948.874	21,01	547
22	Iran	287.010	278.388	1.504.541	573.856	9,83	180
23	Israel	272.352	255.036	5.079.652	694.959	20,56	496
24	Austria	268.472	250.181	4.334.382	583.299	19,24	449
25	Denmark	263.026	245.115	5.494.671	779.833	24,94	518
26	Finland	234.846	223.366	4.295.721	666.893	21,20	443
27	Greece	224.897	209.043	2.702.414	444.424	14,36	326
28	Czech Republic	213.209	206.738	1.867.611	440.161	10,74	294
29	Mexico	210.387	201.540	1.962.572	408.914	11,69	289
30	Norway	206.965	190.800	3.354.827	530.420	20,17	402
31	Hong Kong	200.580	189.621	2.951.215	393.784	16,87	359
32	Singapore	192.942	182.169	2.561.645	331.822	15,78	349
33	Portugal	189.052	179.134	2.096.242	407.892	15,17	297
34	South Africa	167.440	154.857	1.774.278	386.014	13,41	292
35	New Zealand	163.559	149.301	2.495.935	380.280	18,52	351
36	Malaysia	153.378	148.844	670.387	183.198	9,41	165
37	Argentina	145.416	138.788	1.681.700	354.132	13,49	273

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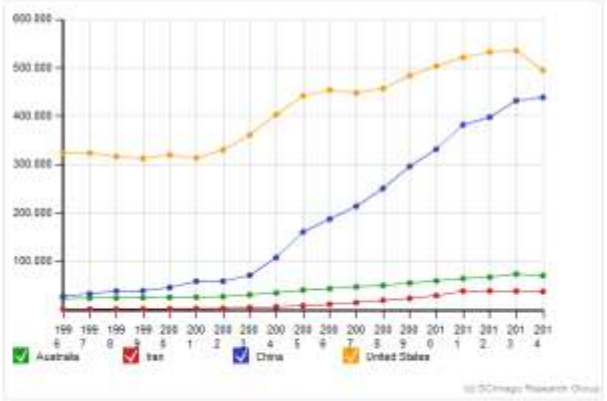

	Australia	Iran	China	United States
1996	22,865	819	28,630	323,888
1997	23,755	1,051	32,865	323,809
1998	24,244	1,142	38,377	316,482
1999	25,064	1,369	39,037	312,483
2000	25,357	1,714	45,442	319,835
2001	25,728	2,066	58,720	313,706
2002	26,953	2,895	58,399	330,085
2003	30,595	4,320	71,109	361,329
2004	34,722	5,627	107,509	403,327
2005	40,142	7,990	160,304	441,913
2006	43,424	11,129	187,193	453,567
2007	46,893	14,572	213,664	448,181
2008	49,639	18,951	250,589	456,679
2009	54,880	23,499	296,050	483,914
2010	59,434	28,975	331,690	503,288
2011	64,020	38,165	381,704	521,487

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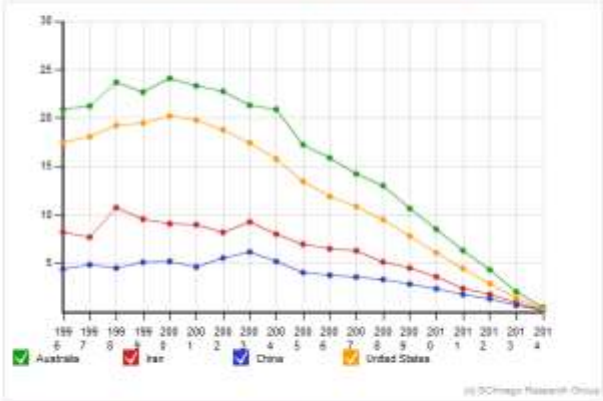

	Australia	Iran	China	United States
1996	20.922	8.207	4.398	17.521
1997	21.236	7.685	4.847	18.064
1998	23.680	10.737	4.515	19.246
1999	22.673	9.543	5.102	19.478
2000	24.098	9.075	5.186	20.205
2001	23.331	8.975	4.605	19.793
2002	22.758	8.167	5.526	18.778
2003	21.315	9.268	6.158	17.429
2004	20.906	7.986	5.182	15.750
2005	17.250	6.948	4.041	13.463
2006	15.880	6.504	3.753	11.888
2007	14.222	6.296	3.583	10.829
2008	13.016	5.134	3.305	9.498
2009	10.670	4.511	2.836	7.818
2010	8.507	3.593	2.353	6.075
2011	6.320	2.390	1.763	4.441
2012	4.317	1.781	1.311	2.890

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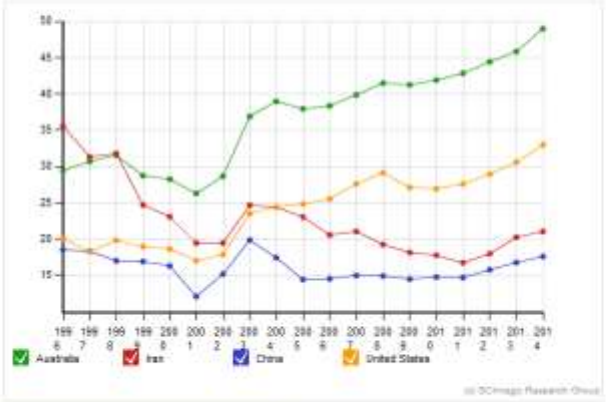
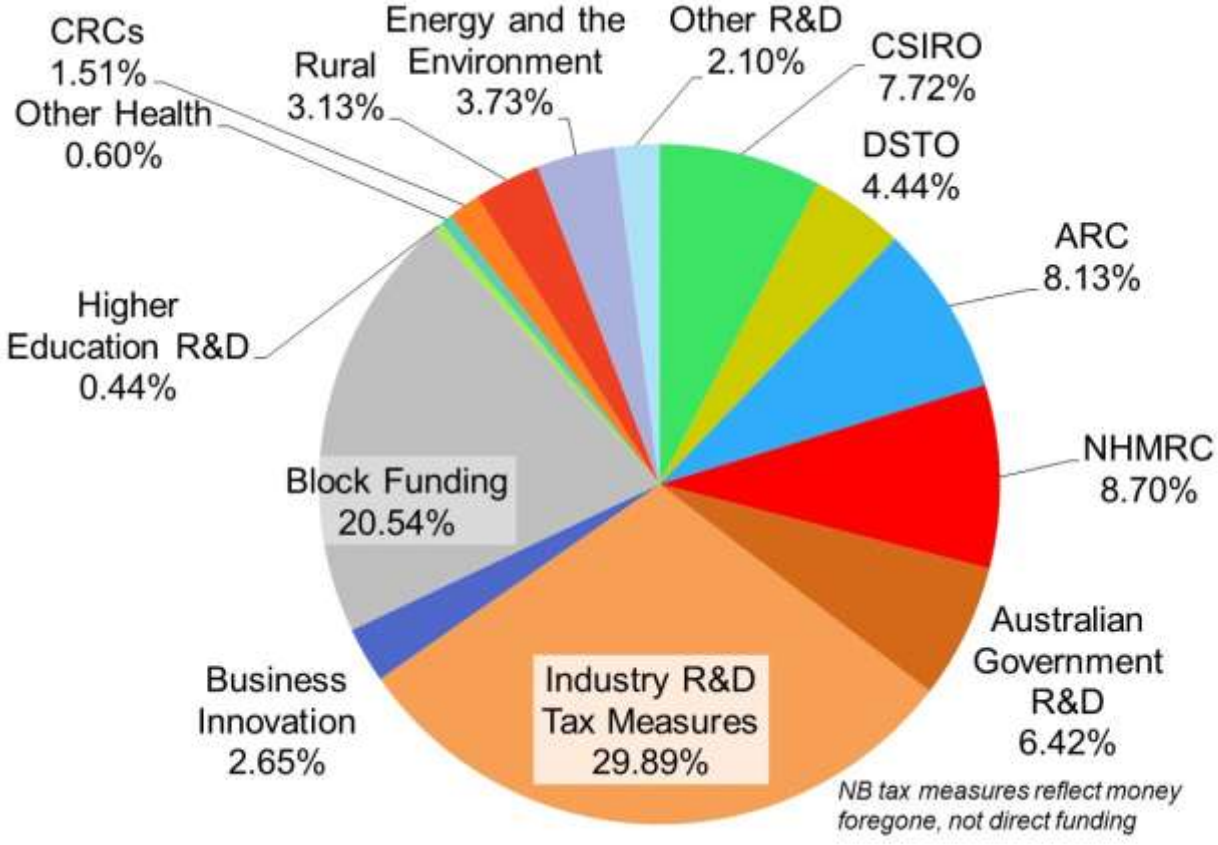


	Australia	Iran	China	United States
1996	29.446	35.585	18.506	20.116
1997	30.688	31.315	18.297	18.196
1998	31.568	31.810	17.007	19.821
1999	28.717	24.692	16.899	18.954
2000	28.231	23.064	16.317	18.624
2001	26.272	19.435	12.078	17.041
2002	28.656	19.454	15.175	17.870
2003	36.897	24.644	19.864	23.513
2004	38.961	24.383	17.431	24.420
2005	37.951	23.025	14.417	24.823
2006	38.352	20.565	14.514	25.526
2007	39.852	21.046	14.960	27.601
2008	41.482	19.229	14.896	29.152
2009	41.254	18.152	14.481	27.123
2010	41.883	17.767	14.774	26.923
2011	42.827	16.715	14.698	27.584

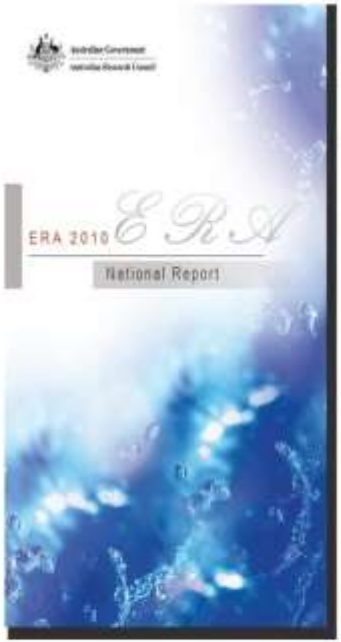
Australia Research and Research Training System

Australian R & RT System in 2017-18



Detail of Govt. investment in R&D 2017-18 Approx. AU$9.7 Billion in total

ERA 2010, 2012



ERA Ratings for Macquarie

2015 ERA ratings

Well above world standard

- Physical Sciences
- Environmental Sciences
- Agricultural and Veterinary Sciences

Above world standard

- Biological Sciences
- Earth Sciences
- Mathematical Sciences
- Medical and Health Sciences
- History and Archaeology
- Language, Communication and Culture
- Law and Legal Studies
- Philosophy and Religious Studies
- Psychology and Cognitive Sciences

2015 ERA ratings

At world standard

- Chemical Sciences
- Engineering
- Information and Computing Sciences
- Education
- Economics
- Commerce, Management, Tourism and Services
- Built Environment and Design
- Studies in Human Society
- Studies in Creative Arts and Writing

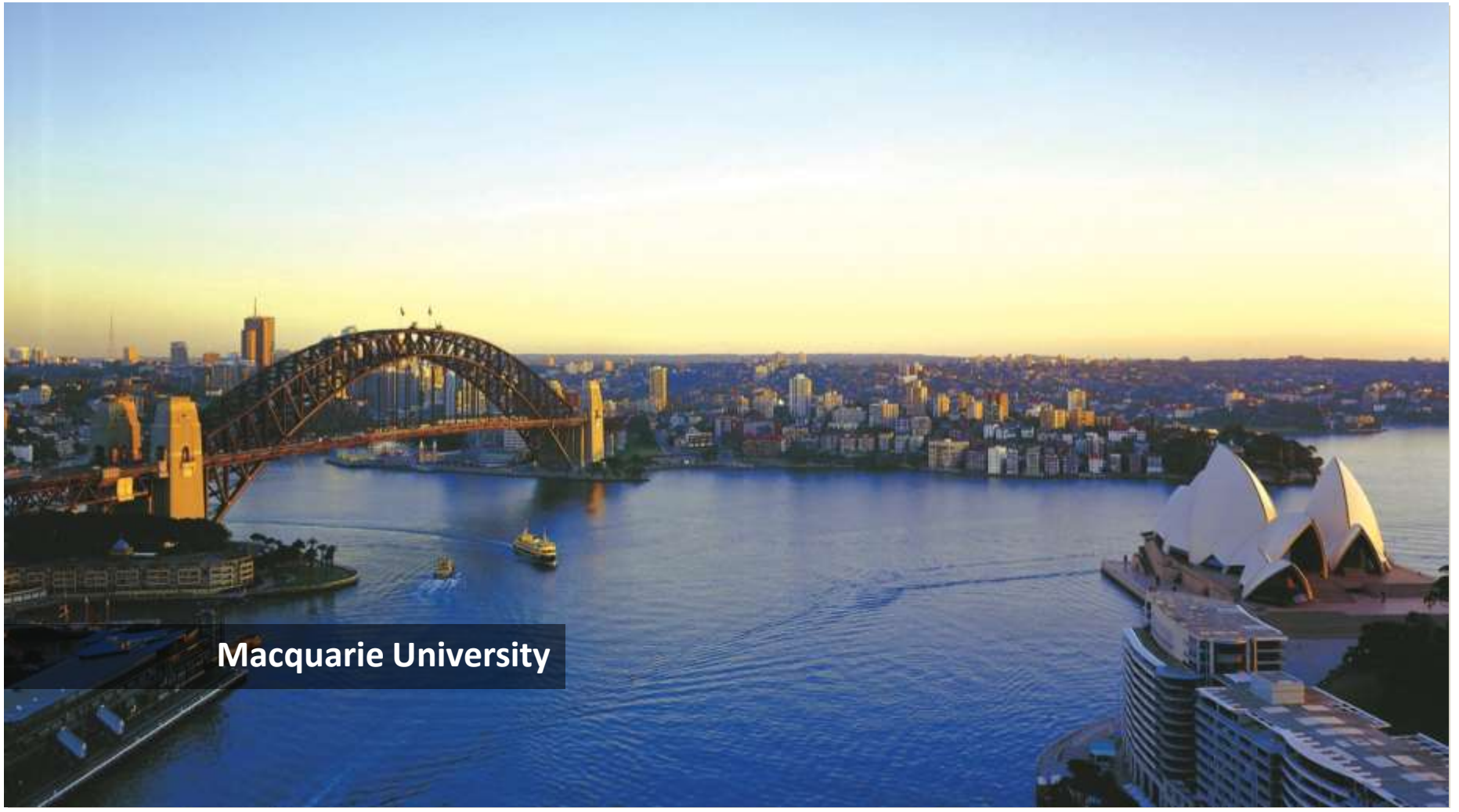
Overall rating

100% at world standard and above

Engagement and Impact Assessment

Ten Principles

- **Robust and objective**
- **Internationally recognised**
- **Comparability across disciplines**
- **Not disincentivise interdisciplinary and multidisciplinary research**
- **Research relevant**
- **Repeatable and verifiable**
- **Time-bound**
- **Transparent**
- **Behavioural**
- **Adaptable**


Macquarie University

- Australia's first and only private, not-for-profit hospital on a university campus
- a campus in one of the largest business and technology precincts in the southern hemisphere, creating a hub of innovation and excellence
- a 126-hectare park-like campus protected by our award-winning sustainability practices
- awarded five stars in the prestigious QS Stars rating system for high performance in areas such as teaching, research, graduate employability and facilities

Degrees awarded	Student enrolments	Staff	Alumni
Undergraduate Total - 5118 Postgraduate Total - 4163 **Total - 9281**	Full-time students - 27,795 Part-time students - 12,414 Domestic students - 31,568 International students - 8,641 **Total students - 40,209**	Academic staff - 1525 Professional staff - 1674 **Total - 3199**	**Total - 164,000**

Research rankings and publications

- 100 per cent of our research activity is regarded by the Australian Government as being of world standard or higher
- a world leader in environmental sciences, physical sciences, and agricultural and veterinary sciences (rating 5 out of 5 in the 2015 Federal Government's Excellence in Research for Australia initiative)
- 135 Macquarie researchers are ranked in the top one per cent of researchers in the world
- sixth in Australia for international research publication collaborations

126 hectares of green parkland

MACQUARIE University

Cochlear

AUSTRALIAN HEARING HUB

Serving Australia and the world

Macquarie's structures

MACQUARIE University

MACQUARIE University

International Research Training Partnerships Framework

MACQUARIE University

World-Leading Research World-Changing Impact

STRATEGIC RESEARCH FRAMEWORK: 2015–2024

MACQUARIE University

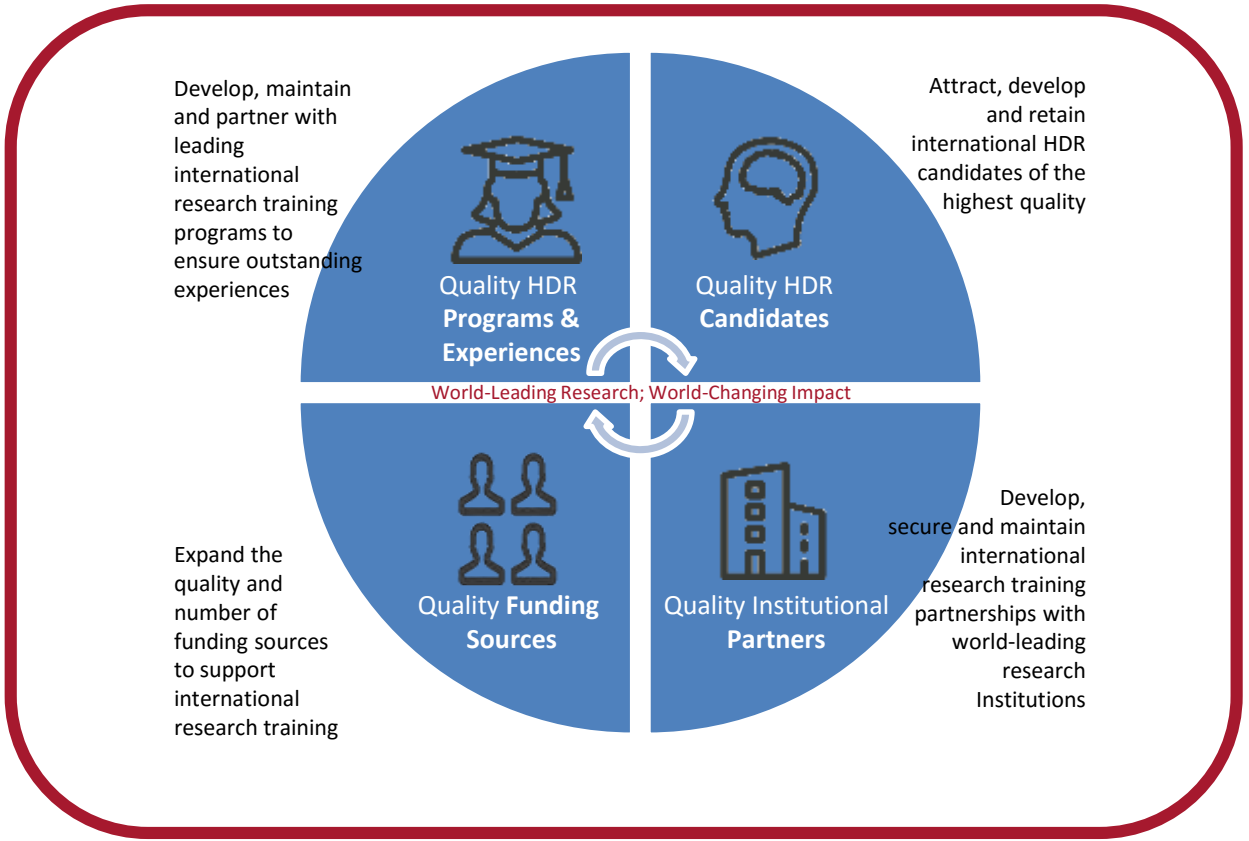
Macquarie's Strategic Context

AN ACCELERATING AND IMPACTFUL PERFORMANCE IN DISCOVERY

1. Accelerate world-leading research performance	2. Prepare world-ready Higher Degree Research candidates	3. Engage as a world-recognised research collaborator of choice	4. Deliver research with world-changing impact
• **Top-performing staff:** Increase the number and proportion of research-productive staff • **World-leading research concentrations:** Build on disciplinary areas of current and emerging research strength and enhance cross disciplinary capability • **Growing research investment:** Accelerate growth of external research income to facilitate world-leading research • **Pervasive best practice:** Continuously improve policies, processes and systems that support the pursuit of excellence and integrity in research and scholarship • **Leading-edge infrastructure:** Secure world-leading research infrastructure, facilities and equipment	• **Attracting quality candidates:** Attract high-potential higher degree research candidates • **Inspirational supervision:** Provide outstanding supervisory expertise and mentoring • **Transformative research environment:** Embed higher degree research candidates in areas of current and emerging strength • **Real-world engagement:** Provide opportunities for career enhancing exposure to industry and the community • **Global champions:** Provide internationally-aligned degrees with global relevance • **World-class support:** Provide personally-enriching experiences and enabling facilities, policies and processes	• **Strategic engagement:** Pursue local, national and international partnerships to complement and enhance areas of current and emerging research strength • **Deep and authentic collaborations:** Build mutually beneficial, long-term engagement with institutional, national and international colleagues • **Synergistic end user partnerships:** Pursue shared goals with end users to maximise delivery of solutions and return on investment • **Streamlined support:** Practice efficient and effective facilitation of research collaborations	• **Discovery for innovation:** Strengthen basic research capability to drive discovery and underpin innovation • **Cross-disciplinary inquiry:** Optimise the opportunities for inquiry across disciplines and structures • **Diversity of impact:** Foster an environment that facilitates and values diverse forms of knowledge creation, application, and creative practice to benefit society • **Challenge-focused research:** Conduct research that addresses national and global challenges and delivers significant benefits

The key priorities

FOLLOW THE LEADER



International research training partnerships

290 CANDIDATES AT 110 UNIVERSITIES IN 30 COUNTRIES*

* Since 1999

MACQUARIE University

Cotutelle & Joint PhD

A program delivering Key Research Objectives

Background, context and key foundations

MACQUARIE University

INTERNATIONAL RESEARCH TRAINING PARTNERSHIPS - BASELINE (2016)

290 Cotutelle and joint PhD candidates*	**113** Cotutelle and joint PhD collaborating partners*	**30** Countries involved in cotutelle and joint PhD arrangements*	**164** Cotutelle candidate completions*
75 *Priority* partners in 21 countries (and 68 *preferred* partners)	**3** Regional partnership tiers – *strategic*, *developing* and *emerging*	**25** Disciplines involved in current programs	**41** Universities with Academic Senate approval for joint PhDs
112 Current cotutelle and joint PhD candidate enrolments	**69** Percent of current candidates with European universities	**20** Percent of current candidates with Chinese universities	**10** MRes exchange partners established (a path to cotutelle/joint PhD)
2 Strategic tri-lateral partnership: MQ-FU-HAM JLU-MQ-JLU	**1** Australian university participating in IDEALAB joint PhD	**15** Joint funding agreements with key international funding agencies	**35** IDEALAB PhD candidates (including 30 current enrolments)

* Since 1999

Cotutelle and Joint PhD

Head to head

Cotutelle	Joint PhD
Joint enrolment at MQ and an overseas university	Joint enrolment at MQ and an overseas university
Priority institutional partners – but open to all universities subject to approval	Institutional partners require Academic Senate Approval
Institutional memorandum of understanding (MOU) not compulsory	Institutional MOU/agreement required
Separate progress assessments	One university is designated as the lead
Single thesis submitted to both universities	Single thesis submitted to the lead university
Separate examination	Joint examination
Two testamurs	One joint testamur
Two graduation ceremonies	One graduation ceremony

Why do we do it?

Establishing deep and continuing relationships

Institutions	Candidate
Deepens and strengthens research collaborations and networks at an institutional level	Exposure to different academic environments through joint enrolment and supervision
Fosters a higher level of cooperation between researchers in their respective fields through co-supervision	Training experiences and access to the latest research equipment and technologies at two institutions
Provides access to new funding schemes as well as new international enrolments	International networking opportunities that will expand future employment opportunities through exposure to new academic institutions and new industries
Provides an opportunity to increase joint publications, citation rate and rankings	Access to new funding schemes
Make the institution more attractive to potential candidates	Experience a new culture and environment and develop soft skills

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IDEALAB

International Doctorate for
Experimental Approaches to Language And Brain

International Doctorate for Experimental Approaches to Language and Brain

Group photo taken at the Rovereto winter school (2015 Feb)

Education and Culture DG
International co-operation in higher education and training

Universität Potsdam

university of groningen

MACQUARIE University

Newcastle University

UNIVERSITY OF TRENTO - Italy

The **Erasmus Mundus PhD Program** ***International Doctorate for Experimental Approaches to Language And Brain*** offers an outstanding interdisciplinary, laboratory-based 3-year doctoral training to its candidates to study structure,

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MQ-FU-HAM Trilateral Strategic Partnership

Foto: UHH/ Fudan University/ Macquarie University

The German Academic Exchange Service (DAAD) with the support and funding from the German Federal Ministry for Education and Research (BMBF) has in 2012 launched the "Strategic Partnerships and Thematic Networks" program, which encourages more intensive partnerships at the university level, in contrast to a department-level managed partnership.

MQ-FU-HAM Trilateral Strategic Partnership

▸ Governance and Management Team

Contact - Universität Hamburg

Antje Katzschner
Project Coordinator - Dept. of International Affairs
Email: antje.katzschner@uni-hamburg.de

Contact - Macquarie University

Catherine Schedlich
Higher Degree Research Coordinator
Email: catherine.schedlich@mq.edu.au

Contact - Fudan University

Wang Ying (Iris)
Deputy Chief International Office

Trilateral relationships

- Existing - Hamburg, Fudan, Macquarie
- New - Jilin, Macquarie, Justus Liebig Giessen.

Hamburg, Fudan, Macquarie

What is the Strategic Partnerships Programme?

A funding programme by the DAAD (German Academic Exchange Service) that:

- Supports partnerships that include one or more subject areas and/or comprise different levels/scopes of cooperation
- Encourages more intense partnerships at university/institutional level
- Aims to improve overall quality of research & teaching and strengthen interdisciplinary cooperation
- Focuses on deepening one or select partnerships (max. five per application) with funding excluding already existing consortia partnerships (e.g. Universitas 21, LERU, etc.)
- Provides funding to initiate and expand additional programmes with the partner university/universities and to promote staff (teaching) exchange, establish joint degree programmes and PhD programmes and for joint research projects.

Hamburg, Fudan, Macquarie

Institutional Background

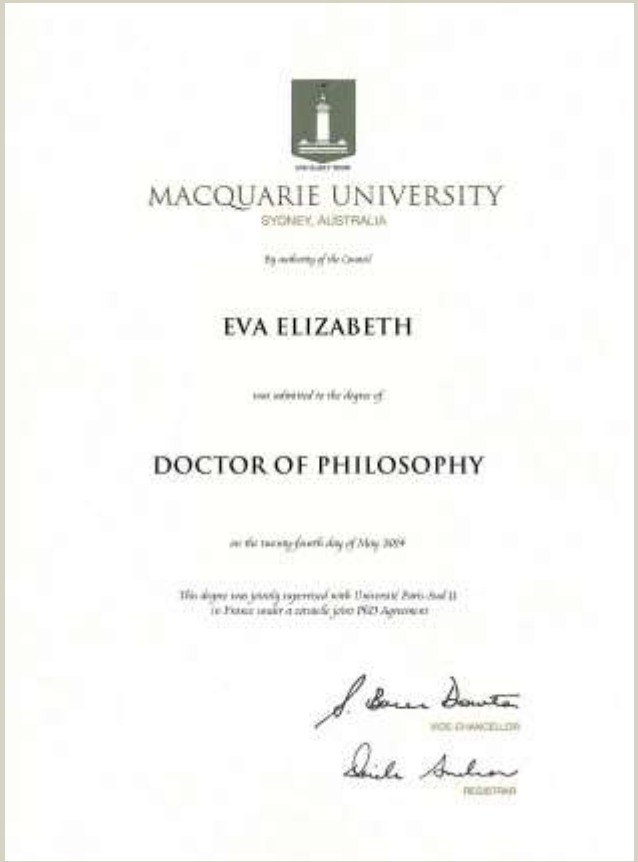
- Long-standing cotutelle and joint-PhD partnership with both Hamburg University and Fudan University individually
- January 2012 participation of both partners at Macquarie cotutelle and joint-PhD management workshop and agreement to formalise trilateral partnerships
- November 2012 first funding proposal submitted to DAAD strategic partnerships funding scheme (unsuccessful, but invited to resubmit as only unsuccessful proposal)
- May 2014: matchmaking workshop for the three partners hosted by Hamburg University in Germany
- Total participating staff from all three partners: 80 (14 Fudan, 20 Macquarie, 55 Hamburg)
- Resubmission November 2014 (successful) – Macquarie only Australian university successful in the strategic partnerships stream.

Hamburg, Fudan, Macquarie

Funded Projects

1. China in Europe, Europe in China. Past and Present
2. Chemistry for Energy Materials
3. Establishment of Joint Doctoral Degrees in Biology
4. Master of International Business and Sustainability (MIBAS)
5. Internationalization of the Humanities
6. Film as an Intercultural Facilitator of Knowledge
7. Transnational Media Histories
8. Cancer Proteomics
9. Modernisms and Modernities East, West and South: Comparing Literary and Cultural Experiences
10. Sustainable Energy Landscapes and Climate Transformation of Urban Systems
11. New Directions in International Political Theory
12. Corporate Governance, Integrated Reporting and Risk Management

MACQUARIE University



MACQUARIE UNIVERSITY
SYDNEY, AUSTRALIA

By authority of the Council

EVA ELIZABETH

was admitted to the degree of

DOCTOR OF PHILOSOPHY

on the twenty-fourth day of May 2019

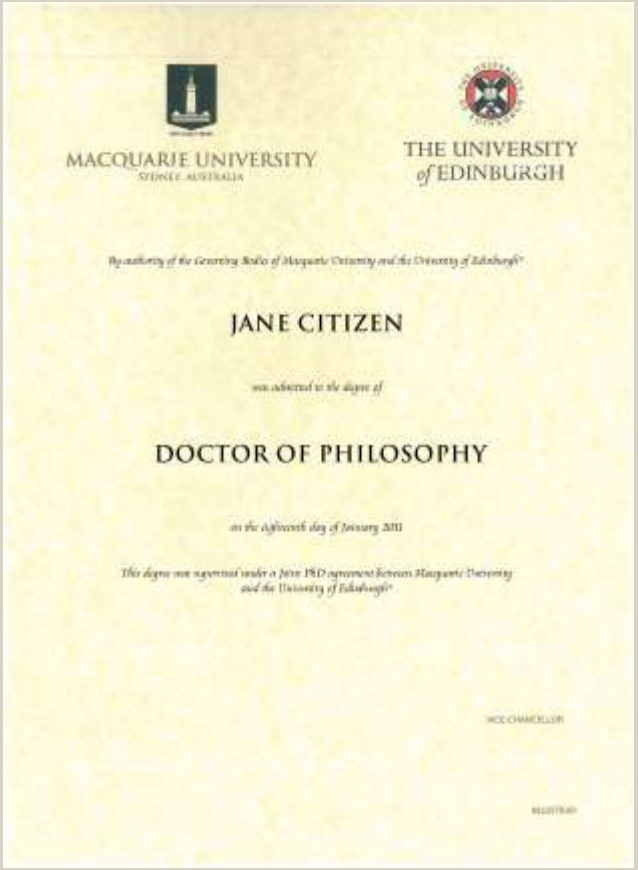
This degree was jointly supervised with Université Paris-Sud 11 (e Prince under a cotutelle joint PhD Agreement)

VICE-CHANCELLOR

REGISTRAR

Example of Cotutelle Testamur

MACQUARIE University



MACQUARIE UNIVERSITY
SYDNEY AUSTRALIA

THE UNIVERSITY of EDINBURGH

By authority of the Governing Bodies of Macquarie University and the University of Edinburgh

JANE CITIZEN

was admitted to the degree of

DOCTOR OF PHILOSOPHY

on the eighteenth day of January 2011

This degree was supervised under a Joint PhD agreement between Macquarie University and the University of Edinburgh

VICE-CHANCELLOR

REGISTRAR

Example of Joint PhD Testamur

MACQUARIE University

MACQUARIE UNIVERSITY

SYDNEY, AUSTRALIA

By authority of the Council

JOHN SMITH

was admitted to the degree of

DOCTOR OF PHILOSOPHY

on the fifteenth day of September 2015

This degree was supervised under a joint PhD agreement for the Erasmus Mundus International Doctorate in Experimental Approaches to Language and Brain (IDEALAB) and signed on behalf of the legal representatives of the participating universities: Universität Potsdam (DE), Rijksuniversiteit Groningen (NL), Università di Trento (IT), University of Newcastle upon Tyne (UK), and Macquarie University (AU)

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REGISTRAR

Official names of the conferred degrees corresponding to the Joint Doctoral Degree: United Kingdom: University of Newcastle upon Tyne: Doctor of Philosophy; The Netherlands: Rijksuniversiteit Groningen: Doctor; Germany: Universität Potsdam: Doktor der Philosophie; Italy: Università degli Studi di Trento: Dottorato di Ricerca in Cognitive and Brain Sciences, Ministerial Decree n.537/2004

Example of EU Joint PhD Testamur

Cotutelle Partners

Priority 1

China
Beijing University of Posts and Telecommunications
Chinese Academy of Sciences
Chinese Academy of Social Sciences
China University of Geosciences, Beijing
China University of Geosciences, Wuhan
East China Normal University
Fudan University
Jilin University
Nanjing University
Peking University
Renmin University of China
Shandong University
Shanghai Jiaotong University
Sichuan University
Tsinghua University
Wuhan University
Zhejiang University

Denmark
Aarhus University
University of Copenhagen

Croatia
University of Zagreb

France
University of Jean Monnet
University of Lyon (including Lyon 1, 2, 3 and St. Etienne)
University of Montpellier 2
University of Paris-Sud 11
University of Strasbourg
University of Toulouse
Pierre and Marie Curie University
University Paris Descartes (V)

Germany
Goethe-Universitat Frankfurt
Heidelberg University
Justus Liebig University Giessen
LMU Munich
University of Goettingen
University of Hamburg
University of Leipzig
University of Potsdam

Italy
University of Trento

Norway
Norwegian University of Science and Technology

Sweden
Lund University
Stockholm University
Uppsala University

United Kingdom
Heriot-Watt University
University of Edinburgh
University of Glasgow
University of St Andrews
University of Strathclyde

Cotutelle Partners

Priority 2

Argentina
University of Buenos Aires

Austria
University of Vienna

Brazil
Federal University of Santa Catarina
Universidade de Sao Paulo

Chile
Universidad de Santiago de Chile

China
Beijing Language and Culture University
Beijing Foreign Studies University
Central South University
Central University of Finance and Economics
China University of Petroleum
China Agricultural University
Communication University of China
Nankai University
Shanghai University
Sun Yat Sen (Zhongshan) University
University of Science and Technology of China
Xidian University

Finland
University of Lapland

France
University of Nantes

Germany
Friedrich-Alexander-University, Erlangen-Nuremberg
RWTH Aachen University
Ruhr University Bochum
Technische Universitat Braunschweig
University of Erfurt
University of Ulm

Iran
Tehran University of Medical Sciences
Royan Institute
Agriculture Biotechnology of Research Institute of Iran
Sharif University of Technology

Italy
La Sapienza University of Rome
University of Bologna
University of Florence
University of Milan

Malaysia
University of Malaya
Universiti Sains Malaysia

Mexico
National Autonomous University of Mexico

Netherlands
University of Amsterdam
VU University Amsterdam

Russia
Russian Academy of Sciences
Moscow State University
St Petersburg State University
Tomsk State University

Spain
Complutense University of Madrid
University of Barcelona

Thailand
Chulalongkorn University
Chiang Mai University
Kasetsart University
King Mongkut's University of Technology Thonburi
Mahidol University
Thammasat University

United Kingdom
Bristol University
University of Dundee
University of Durham
University of Sheffield

United States of America
University of Minnesota - Twin Cities (Biology)
University of Missouri - St Louis (Biology)

Joint PhD Partners

Denmark
Aarhus University

Finland
University of Helsinki

France
École Normale Supérieure de Lyon
Université de Lyon
(including St Étienne)
Université de Toulouse
Université Montpellier
Université de Strasbourg

Germany
Goethe University Frankfurt
Heidelberg University
Hamburg University(*)
Leipzig University
Goettingen University
LMU Munich University
Ruhr-University Bochum
University of Potsdam(*^)

Italy
University of Trento(*^)

Netherlands
University of Amsterdam
Free University of Amsterdam
University of Utrecht
Erasmus University Rotterdam
University of Groningen(*^)
Radboud University Nijmegen

Norway
University of Bergen

Spain
Universidad Autónoma de Madrid

Sweden
Lund University

Canada
University of Toronto

United Kingdom
Cardiff University
Lancaster University
Heriot-Watt University(*)
Imperial College London
University of Bristol
University Dundee(*)
University of Durham
University of Edinburgh(*)
University of Exeter
University of Glasgow(*)
University of Manchester
University of Newcastle(*^)
University of Nottingham
University of Sheffield
University of St Andrews(*)
University of Strathclyde(*)
University of York

Faculty PhD Cotutelle - current/past student enrolments

MACQUARIE University

GOETHE UNIVERSITÄT FRANKFURT AM MAIN

KATHOLISCHE UNIVERSITÄT EICHSTÄTT INGOLSTADT

GEORG-AUGUST-UNIVERSITÄT GÖTTINGEN

DAUPHINE UNIVERSITÉ PARIS

Chinese Academy of Social Sciences

Universität Potsdam

UNIVERSITAS MASARYKIANA BRUNENSIS

UNIVERSIDAD COMPLUTENSE MADRID

Leibniz Universität Hannover

UNIVERSITÀ DEGLI STUDI DI BERGAMO

Faculty PhD Cotutelle - current/past student enrolments

MACQUARIE University

JUSTUS-LIEBIG-UNIVERSITÄT GIESSEN

The University Of Sheffield.

MACQUARIE University

Scholarships

Cotutelle & Joint PhD

Scholarships

Cotutelle Macquarie University Research Excellence Scholarship (iMQRTP)

- Return airfare from Australia-Iran
- Tuition fees at MQ for up to 36 months
- Stipend on MQ campus at the RTP rate

Cotutelle & Joint PhD

EXTERNAL FUNDING AGENCIES

- Australia Award
- Australian Research Council
- National Health and Medical Research Council
- China Scholarship Council
- Sciences Without Borders Brazil
- EU Horizon 2020
- DAAD
- Germany DFG
- National Sciences Foundation
- National Institute of Health
- Research Council Canada
- VIED Vietnam
- Thai Government Scholarship (C9)
- Malaysia Government Scholarship Program
- Indonesian Government Scholarship Program
- PRONABEC Peru
- COLSCIENCES Columbia
- Chilean CONACIT
- MEXICO CONACYT
- Uruguay ANII
- Pakistan HEC
- Kazakhstan Bolashak
- Russian Government

Key Lessons for Partnerships

Industry or International Collaboration

MACQUARIE University

1. University leadership endorsement is critical
   - Support needed at Vice Chancellor / Rector / Executive level.
   - Also must be realistic about skills to deliver

2. Focus on Long term strategic partnerships
   - Key relationships aim higher, receive significantly greater funding and last longer.
   - Industry often turns to university's to identify frontiers for research.

3. Start with a shared vision and develop a strategy
   - What are the core strengths of your University?
   - What is your comparative advantage?
   - Which organisations are in your local area?
   - What questions and research are priorities for them and you?

4. Ensure the right people are in charge
   - Faculty with industry experience are preferred.
   - Should be mature who are multi-disciplinary and bridge builders.
   - Hold people accountable who do not deliver

Key Lessons for Partnerships

Industry or International Collaboration

MACQUARIE University

5. Ensure dialogue through different mechanisms
   - Guest lectures and seminars between academics and industry experts.
   - Cocktail evenings with visiting delegations or local businesses
   - Industry advisory boards made up of senior management at Department and Faculty level.

6. Don’t get hung up on intellectual property (IP)
   - Develop a broad overarching framework agreement.
   - Companies will walk away if inflexible.
   - IP is overemphasised. True value in R&D is often the tacit knowledge it produces.
   - University focus should be on solutions for the economy.

7. Promote a multi-disciplinary approach to research and learning
   - Innovation often depends on researchers and industry experts working across a number of disciplines. i.e technology, accounting, natural environment, economics, law.
   - Be prepared to start small. i.e cotutelle.

Key Lessons for Partnerships

Industry or International Collaboration

8. Don’t overemphasize measuring the results of a strategic alliance
    - Success takes time to bear fruit. Your are not going to establish an alliance during the first visit.
    - Focus on quality instead of quantity of outputs.

9. Redefine the role of the research university as a source of competence and problem-solving for society
    - Role in the 21st century extends beyond teaching and public service research to incorporate key social challenges and helping drive economic growth.

MACQUARIE University

Thank You!

Questions?