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# Performance overview

SUPPORTING STRATEGIC GROWTH AND SERVICE DELIVERY

\$84 million in scholarships and grants to students

\$145 million in research income and block grants \$86 million cash flows provided by operating activities

\$3839 million total assets \$1146 million revenue

35,251 domestic students

1953 higher degree students 8433 international students from 114 countries

# Message from the Vice-Chancellor

A YEAR OF SIGNIFICANT ACHIEVEMENTS

As Macquarie University nears its 60th anniversary, we are accelerating our mission of service and engagement – providing transformational learning experiences for our students, advancing research discovery, and developing progressive healthcare to benefit our economy, environment and society at large.

Like many universities in Australia, the University showed remarkable resilience and re-emergence in 2022. What has emerged is an evolved pedagogy and hybrid models of teaching that will, as we look ahead, almost certainly be here to stay.

In 2022, we resumed our activities as a globally engaged university, allowing us to build momentum and celebrate impressive achievements. A notable achievement is our 175th position in the *Times Higher Education* World University Rankings, 2023, placing Macquarie in the top 10 highest-performing universities in Australia. This ranking is our highest global result to date, following six consecutive years of improvement.

In particular, the rankings noted the University's strength in international outlook buoyed by our rich global networks and partnerships. In addition, Macquarie's citation result increased by 22 places this year. Industry income was another notable outcome for the University, reflecting our increasingly strong industry connections.

At a discipline level, three subject areas – classics and ancient history, linguistics and philosophy – were ranked in the top 50 in the world in the QS World University Rankings by Subject, 2022, with a further 11 subjects ranked in the top 100.

The University is committed to conducting high-quality, cross-disciplinary and applied research that aligns with national and global priorities and challenges. This commitment – combined with the focused research investment initiatives of the Operating Plan and the *Research Strategy* 2025 – continued to generate a very positive trajectory for the University's research revenue, activity and output.

The results of our investment in state-of-the-art learning facilities continued to emerge. The new Arts Precinct, 1 Central Courtyard, student accommodation and facilities, and the Clinical Education Building have measurably improved campus life and reinvigorated our place as an asset not only for those studying and working here but also for the whole community.

Outcomes of the University's Campus Master Plan continued with the new Macquarie Law School building progressing at pace and work on other developments nearing completion.

The year saw an important change when Macquarie's main campus at North Ryde was renamed the Wallumattagal Campus in recognition of the Traditional Custodians of this land who have nurtured and cared for this part of Sydney since time immemorial. This new name reflects the University's deep and abiding commitment to reconciliation and ties with First Nations people.

The University is firmly focused on delivering the best possible student experience. As we see more students returning to campus, the University is working to ensure a holistic attitude and approach to the support provided to them. Macquarie is committed to putting students first and supporting the success of each and every student.

This year, the significant achievements of the University community have exemplified the fundamental notions of service and engagement, which are at the heart of Macquarie University.

Professor S Bruce Dowton MD
VICE-CHANCELLOR AND PRESIDENT

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## About Macquarie University

#### A SNAPSHOT OF WHO WE ARE

Macquarie is a university of service and engagement. We serve and engage our students and staff through transformative learning and life experiences; and we serve and engage the world through discovery, dissemination of knowledge and ideas, innovation and deep partnerships.

#### **WE ASPIRE TO BE**

- · a destination of choice for students and staff who share our values
- · deeply connected with our stakeholders and partners, and known for this globally
- ranked among the highest-performing research universities of Australia, and recognised globally for our pre-eminence in key disciplines
- known across Australia and beyond as custodians of a remarkable university campus that blends the vibrancy of a cosmopolitan university village with a natural Australian bushland setting.

As custodians of the University, we value scholarship, integrity and empowerment. We believe learning, enquiry and discovery improve lives; we conduct ourselves ethically, equitably and for mutual benefit; and we work to make our community a source of strength and creativity.

Through our actions, as staff and students, we live these values, and it is against them that we hold ourselves accountable.

#### ACKNOWLEDGEMENT OF COUNTRY

We acknowledge the Traditional Custodians of the land upon which this University is situated, the Wallumattagal people of the Dharug Nation, whose cultures and customs have nurtured, and continue to nurture, this land since time immemorial. We pay our respects to the Dharug people and the Wallumattagal Clan. We also wish to acknowledge and pay our respects to the Elders of the Dharug Nation – past, present and future.

We further wish to honour and pay our respects to the ancestors and spirits of this land. We humbly ask that all members of the Macquarie University community are granted the capacity to wingaru – to think, to learn and to walk safely upon this ngurra (this land). The University continues to develop respectful and reciprocal relationships with all Indigenous people in Australia and with other Indigenous people throughout the world.

Dharug language is used in this Acknowledgement of Country.



#### \$97.92 million

in competitive external funding
- the 6th consecutive year
of increased research income
(unaudited 2022 figure)



#### \$1 billion

invested to create a collaborative campus with world-class facilities and infrastructure



#### 43,684

students from 114 countries



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#### 100 %

of research activity rated at world standard or above (Excellence in Research for Australia 2018)



#### More than 40,000

work placements or community experiences through PACE (Professional and Community Engagement) partnerships



#### Only university in Australia

with its own metro station



#### 190 partner universities

for student exchange in over 40 countries



#### 3 subjects

ranked in the top 50 globally and 11 in the top 100 (QS World University Rankings by Subject, 2022)



#### Ranked in the top 1%

of universities in the world (QS World University Rankings, 2022)



#### #1 in Sydney

for graduate employment rate
(QS Graduate Employability Rankings, 2022)



#### Heart of Sydney's

fastest-growing business region only 15 kilometres from the Sydney CBD



#### More than 4000 partner organisations

across Australia and around the world, providing access to industry contacts that help develop valuable employability skills



#### More than 300

industry partners on campus or in the adjacent high-tech precinct, providing access to internship and job opportunities



#### 9037 graduates realised their potential

with sought-after degrees in 2022



#### Australia's first fully integrated health precinct

centred around our on-campus hospital



#### More than 225,000

alumni in our international community from over 155 countries

#### **PRINCIPAL FUNCTIONS**

In 2022, the principal continuing activities of the consolidated entity consisted of:

- a. providing facilities for education and research of university standard
- b. encouraging the dissemination, advancement, development and application of knowledge informed by free enquiry
- c. providing courses of study or instruction across a range of fields, and carrying out research to meet community need
- d. participating in public discourse
- e. conferring degrees including those of Bachelor, Master and Doctor – and awarding diplomas, certificates and other awards
- f. providing teaching and learning that engages with advanced knowledge and enquiry
- g. developing governance, procedural rules, admission policies, financial arrangements and quality assurance processes that are underpinned by the values and goals referred to in the functions set out in the *Macquarie* University Act 1989, and that are sufficient to ensure the integrity of the University's academic programs.

There were no significant changes in the nature of the University's activities during the year.



#### **SUBSIDIARIES**

The following five subsidiaries were trading in 2022.

#### ACCESS MACOUARIE LTD

Access Macquarie Ltd (AccessMQ) is a not-for-profit public company limited by guarantee and wholly owned by Macquarie University. The principal business of AccessMQ is as an equity-holding and equity-trading vehicle for the University's interests in research-related start-up and spin-out companies.

#### **MGSM LTD**

MGSM Ltd (MGSM) is a not-for-profit public company limited by guarantee and wholly owned by Macquarie University. The principal activity of MGSM Ltd is to operate the hospitality facilities that support the mission of the University.

#### **MQ HEALTH PTY LTD**

MQ Health Pty Ltd is a not-for-profit company limited by shares and wholly owned by Macquarie University. The objectives of MQ Health Pty Ltd are to provide clinical services that are patient-centred, high quality, evidence-based and efficient. MQ Health provides clinical placements for medical and allied health students, as well as junior doctors undergoing their postgraduate clinical training. It supports medical research in conjunction with Macquarie University and other high-quality affiliated medical and research institutions.

#### MACOUARIE UNIVERSITY HONG KONG **FOUNDATION LTD**

Macquarie University Hong Kong Foundation Ltd is a not-for-profit public company limited by guarantee and wholly owned by Macquarie University. The principal activities of the Macquarie University Hong Kong Foundation are to advance, promote and develop higher education. It focuses on the advancement of education and exchange of knowledge between Macquarie University, Hong Kong and China, providing mobility scholarships and support for students, researchers and academics.

#### U@MQ LTD

U@MQ is a not-for-profit public company limited by guarantee and wholly owned by Macquarie University. The objective of U@MQ is to provide facilities for the members of the University community, including staff and students, which complement and support the academic activities of the University. Services include sporting and recreational facilities, food, beverage and retail services, and the provision of childcare.



# The year in review

2022 HIGHLIGHTS

#### **JANUARY**

#### MACQUARIE UNIVERSITY COLLEGE MAKES IT OFFICIAL

The Macquarie University International College and the English Language Centre formally became the Macquarie University College after its trademark was confirmed.

#### MORE THAN HALF A MILLION FOR MEDICAL RESEARCH

The National Health and Medical Research Council awards researchers \$541,627 in grant funding from three schemes: Equipment Grants, International Collaborations, and Postgraduate Scholarships.

#### **KEEPING CANE TOADS OFF ARID LANDSCAPES**

Researchers receive \$600,000 from the Minderoo Foundation to identify ways to control cane toads from spreading into arid areas and key biodiversity hotspots in the Pilbara region of Western Australia.

#### **FEBRUARY**

#### NEW LAW FIRM PROVIDES THE 'MISSING MIDDLE'

The Macquarie Law School and global law firm DLA Piper join forces to launch Wallumatta Legal, a not-for-profit law firm providing affordable, low-fee legal services.

#### LATEST TOOL IN CYBERWARFARE

School of Computing researchers use the new smart city simulator to run mock cyberattacks to protect vital network or system assets from malicious cyber threats or attacks.

#### **ORIENTATION WEEK WELCOMES STUDENTS**

Our new, highly successful convocation ceremony welcomes new and returning students to the start of the academic year.

#### LIVING SEAWALLS PROJECT AND UN GOALS

At the United Nations Sustainable Development Goals (SDGs) Colloquium Series, coastal ecologists Associate Professor Melanie Bishop and Associate Professor Katherine Dafforn discuss the Living Seawalls project as an opportunity to work towards SDG 14 Life Below Water: Conserve and sustainably use the oceans, seas and marine resources for sustainable development.



#### MARCH

#### PARTNERSHIP TO BUILD SMARTER,

Macquarie announces a new partnership with developer Celestino on sustainable urban planning and technological innovation and other research projects for the new Sydney Science Park.

#### MICROCREDENTIAL AND MICROPROGRAM MODULES LAUNCH

Our microcredential and microprogram modules meet the evolving world of work and are targeted, accessible and scalable.

#### HISTORY MUSEUM OPENS

The Macquarie University History Museum, featuring two of the largest collections in the Southern Hemisphere, opens to the broader community free of charge.

#### MACQUARIE CELEBRATES AWARD-WINNING ARTS PRECINCT

We officially welcome staff, students and visitors through the doors of our award-winning Arts Precinct with the return of on-campus learning.

#### SURVEY LAUNCHES ON WORLD HEARING DAY

Macquarie University Hearing hosts the official launch of the Australian Eye and Ear Health Survey on World Hearing Day. In the first of its kind, both eye and ear health will be assessed to study the prevalence, risk factors and impacts of vision and hearing loss in the community.

#### PARTNERSHIP FOCUSES ON YOUNG ADULTS

The Macquarie Business School announces a research partnership with the Commonwealth Bank to examine the financial decisions and wellbeing of Australia's young adults, whose lives have been shaped by connectivity, smartphones, gaming, crypto and the changing nature of work.

#### RESEARCHERS CONTRIBUTE TO RESEARCH IMPACT SHOWCASE

Three projects highlighting outstanding collaborations were presented at the inaugural NSW Government's Research Impact Showcase. See page 19 for more information.

#### APRIL

#### SUBJECTS RANK IN THE TOP 150 GLOBALLY

Sixteen subjects rank in the top 150 globally, according to the latest QS World University Rankings by Subject, 2022. Philosophy, linguistics, and classics and ancient history once again rank in the top three in Australia.

#### MAIN CAMPUS NOW KNOWN AS THE WALLUMATTAGAL CAMPUS

Macquarie announces the main campus be proudly named the Wallumattagal Campus. The new name builds on our mutually respectful relationships with Aboriginal and Torres Strait Islander Communities and is a significant initiative under our *Indigenous Strategy* 2016–2025.

#### **INCLUSIVE TEACHING FORUM HELD**

The Inclusive Teaching Forum was held to explore the link between diversity and inclusion and student success, putting students' engagement and success, through an inclusive curriculum, at the forefront of everything we do.

#### MAY

#### OUR HIGH-QUALITY RESEARCH SHINES

Professor Sakkie Pretorius, Deputy
Vice-Chancellor (Research), delivers the
Annual Research Weather Report. He outlined
achievements since 2013 with publications
increasing by 45 per cent, and 100 per cent now
rated as performing at or above world standard
at the 2-digit level. External research income
doubled, and Category 3 industry income grew by
36 per cent. Higher degree research completions
increased by 78 per cent, and Macquarie remained
in the top 200 universities globally.

#### SCHOLARSHIPS TO UKRAINIAN PHD STUDENTS

Our Graduate Research Academy announces five scholarships to Ukrainian PhD applicants, whose plans for further academic study were disrupted by war.

#### FUTURE CITY LIVEABILITY DEPENDS ON PLANT SELECTION

The Which Plant Where program developed by Macquarie researchers will help plants survive a harsher future climate and improve the future liveability of our cities.

#### HELPING TO SAVE EMUS ON THE NSW NORTH COAST

Plans to revive an endangered wild emu flock in the NSW Northern Rivers region will get a boost from a project exploring the genetic interaction among emu populations in south-east Australia.

#### PROBIOTICS FOR HONEYBEES COULD HELP STOP FALLING POPULATION

Researchers hope a new chemical-free, probiotic treatment will help boost the resistance of honey bees to viral and bacterial diseases.

#### FIVE HONORARY DOCTORATES AWARDED

Australia's Chief Scientist, the President of the Australian Human Rights Commission and a former commissioner of the NSW Rural Fire Service were among five outstanding individuals awarded honorary degrees.

#### NEW RESEARCH INTO REDUCING PFAS LEVELS

Regular blood or plasma donations can reduce levels of PFAS in firefighters' blood, according to a world-first clinical trial from Macquarie University and Fire Rescue Victoria.

#### NEW GRADUATION HALL NAMING HONOUR

Our new Graduation Hall is named the Michael Egan Hall in recognition of the Honourable Michael Egan AO, our longest-serving chancellor. 14 MACQUARIE UNIVERSITY ANNUAL REPORT 2022 | OVERVIEW





#### JUNE

#### NSW IMPLEMENTS NEW AFFIRMATIVE CONSENT LAWS

In response to the laws and in conjunction with our accommodation partners, Macquarie creates awareness campaigns across campus to inform staff and students.

#### EARLY CAREER RESEARCHERS GET A BOOST

Thirty-five early career researchers are awarded micro-funding under the Early Career Researcher Enabling Scheme to support their research career trajectory.

#### INDUSTRY BUREAU TO BOOST SEMICONDUCTOR CAPABILITY

Macquarie experts will play a key role in an initiative to drive sovereign semiconductor capability, supporting critical local industries including health, defence and telecommunications.

#### **UNIVERSITY RANKS 195 GLOBALLY**

Macquarie solidifies its place among the top 200 universities worldwide, ranking 195 in the latest QS World University Rankings – up from 200 in last year's ranking. Since 2014, the University has steadily moved up 68 places.

#### **MBA RANKINGS SUCCESS**

Macquarie Business School's Master of Business Administration (MBA) is the top-ranked MBA in New South Wales, according to *The Economist*.

#### ARMYWORMS HEADED FOR A FALL

Researchers from the Department of Applied Biosciences receive \$5.43 million in funding from Hort Innovation for a multi-year project to produce management tools for the fall armyworm.

#### **JULY**

#### **SESSION 2 ORIENTATION**

A range of social, academic and networking events are held during Session 2 orientation to create a sense of inclusion and belonging and assist students with their first week on campus.

#### INCUBATOR REACHES IMPORTANT MILESTONE

The Macquarie University Incubator reaches a milestone by hosting 50 active participants, ranging from those at the idea stage to scaleups seeking access to the new DeepTech Incubator.

#### PACE AWARDS HELD

Sixty-one students, six organisations and five staff are awarded for outstanding participation or development of PACE (Professional and Community Engagement) work-integrated learning activities.

#### **AUGUST**

#### NEW CENTRE TO TRANSFORM GROWING BIOACTIVES INDUSTRY

The new Australian Research Council Industrial Transformation Training Centre for Facilitated Advancement of Australia's Bioactives launches to help Australia benefit from the booming global demand for bioactive products.

#### TACKLING HEARING LOSS ONSET IN ADULTS

Leading international hearing researchers discuss the challenge of adult-onset hearing loss and explore the steps needed to make the Australian Government's Roadmap for Hearing Health a reality.

#### **HUNTSMAN TELESCOPE UNVEILS**

Macquarie, with support from Canon Australia, unveils the Huntsman Telescope – comprising an array of 10 commercially available Canon super-telephoto lenses – to better understand galaxy life cycles.

#### FUNDING SUPPORTS SYNTHETIC BIOLOGY BIOFOUNDRY

The National Collaborative Research Infrastructure Strategy funding of \$3.5 million from Bioplatforms Australia will help researchers access equipment and data science training to study DNA, proteins, small biological molecules and ways to redesign organisms for new purposes.

#### SEPTEMBER

#### WORLD-CLASS ORTHOPAEDIC CENTRE

MQ Health, surgeons and Medibank partner to establish a world-class orthopaedic centre at Macquarie University Hospital.

#### DEPUTY VICE-CHANCELLOR (ACADEMIC) APPOINTED

Professor Rorden Wilkinson, an expert on international trade, global governance and international development, is appointed to the role of Deputy Vice-Chancellor (Academic).

#### LAUREATE FELLOWSHIP TO TACKLE FALLING TEENAGE LITERACY RATES

Professor Anne Castles is awarded a prestigious Australian Laureate Fellowship by the Australian Research Council to address declining literacy rates among Australian secondary school students.

#### EARLY DETECTION OF ALZHEIMER'S COULD BE ON THE HORIZON

New research from the Macquarie Medical School discovers a link between a blood biomarker and a person's risk of Alzheimer's disease.

#### FLEXIBLE WORK FRAMEWORK LAUNCHES

Our Flexible Work Framework, (Flex)<sup>us</sup>, launches six principles that underpin the accredited flexible work approach. They help teams create work environments that balance student and stakeholder requirements, team priorities and outcomes with individual needs and preferences.

#### **OCTOBER**

#### NEW PARTNERSHIP TO HELP PEOPLE SLEEP EASIER

Macquarie and the Woolcock Institute of Medical Research partner to accelerate the scope and impact of sleep and respiratory research in Australia.

#### NEW GENE-THERAPY COMPANY TO TARGET NEURODEGENERATION

Macquarie launches Celosia Therapeutics, a new company dedicated to delivering gene therapies for devastating neurodegenerative and neurological conditions – such as motor neurone disease, epilepsy and dementia – to patients within the next decade.

#### NEW GLOBAL RANKINGS PLACE MACQUARIE AMONG THE BEST

Macquarie ranks 175 in the *Times Higher Education* World University Rankings, 2023, and in the top 10 in Australia.

#### MINDSPOT CELEBRATES 10 YEARS

Since forming in 2012, MindSpot has provided free support to 200,000 Australian adults experiencing stress, anxiety, depression, obsessive-compulsive disorder, post-traumatic stress disorder, chronic pain and substance abuse.

#### MACQUARIE UNIVERSITY ALUMNI APPOINTED TO THE HIGH COURT OF AUSTRALIA

In a historic appointment, the Honourable Justice Jayne Jagot will serve on the High Court of Australia, creating a female-majority for the first time in Australia.

#### \_\_\_launch of the Australian Eye and Ear Health Survey

NOVEMBER

#### NEW SPACE TECHNOLOGY PARTNERSHIP SET FOR ORBIT

World Hearing Day

Australian Astronomical Optics – Macquarie signs an agreement with pioneering manufacturer Gilmour Space Technologies to produce space technology, which is set to launch in 2023.

ersity Hearing hosted the official

#### EXECUTIVE DEAN, FACULTY OF ARTS, APPOINTED

Professor Chris Dixon, an expert in American history, is appointed Executive Dean of the Faculty of Arts.

#### LEACHED CHEMICALS KILL MARINE MICROBES

A new study by our researchers finds the chemicals that leach into seawater from plastic pollution can disrupt or kill key marine microbes that form an essential part of the marine food web.

#### HALF THE WORLD'S WILDERNESS AT RISK

A world-first study by a team of scientists, including from Macquarie, projects that climate change and land clearing will profoundly change half of the world's remaining wilderness areas by 2050 unless governments act immediately to protect them.

#### EXECUTIVE DEAN, FACULTY OF SCIENCE AND ENGINEERING APPOINTED

Professor Lucy Marshall is appointed Executive Dean of the Faculty of Science and Engineering. She is a leading water resources engineer and brings a passion for inclusion.

#### PARTNERSHIP BOOST FOR OUR SPORTS FIELDS

A \$7.5 million partnership with Redlands School and AFL NSW/ACT will see the main oval at the University's sports fields upgraded to elite AFL competition standard.

#### DECEMBER

#### MIT WORLD PEACE UNIVERSITY MOU

Macquarie signs a memorandum of understanding (MOU) with the MIT World Peace University in India to boost joint research programs, staff exchanges and study tours. The MOU covers credit transfers and articulations in STEM and management programs.

#### SOIL MANAGEMENT APP LAUNCHES

Our researchers develop a new software management system to improve the management of one of Australia's most precious resources.

#### TELESCOPE IMAGES SHOW A STAR'S MURDER SCENE

The first images of a nebula from the new James Webb Space Telescope give astronomers remarkable insights into the death of a star. 16 MACQUARIE UNIVERSITY ANNUAL REPORT 2022 | OVERVIEW

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## **Awards and achievements**

#### HONOURING STAFF, ALUMNI AND STUDENTS FOR EXCELLENCE

#### VICE-CHANCELLOR'S LEARNING AND TEACHING AWARDS

#### **EDUCATIONAL LEADER (TEAM) AWARD**

Professor Nathan Daczko, Dr Joanne Dawson, Dr Matt Owers and Dr Natalie Spence (all Faculty of Science and Engineering), Dr Andrea Chareunsy and Dr Prashan SM Karunaratne, Macquarie Business School

#### AWARD FOR TEACHING EXCELLENCE

Associate Professor Riza Casidy, Macquarie Business School

#### **AWARD FOR LEARNING INNOVATION**

Dr Helen Siuki, Macquarie Business School

#### **EARLY CAREER AWARD**

Maggie Lee, Macquarie Business School

#### **SESSIONAL STAFF AWARD**

Joshua Fitzgerald, Faculty of Medicine, Health and Human Sciences

#### STUDENT-NOMINATED AWARD

Dr Shireen Daft, Faculty of Arts

Professor Anina Rich, Faculty of Medicine, Health and Human Sciences

Charanya Ramakrishnan, Faculty of Science and Engineering

Dr Christian Thomas, Faculty of Science and Engineering

Professor David Orsmond, Macquarie

#### VICE-CHANCELLOR'S EXCELLENCE AWARDS FOR PROFESSIONAL STAFF

#### OUTSTANDING SERVICE

Angela Chow, Macquarie Business School

#### COLLABORATION, CONNECTION AND BELONGING

Professional Services Transformation team, Vice-President (Professional Services) portfolio:

Fiona Reyerink, Gemma Bennett, Fiona Cross, Amanda Holden, Claudia Huang, Carina Jarman, Rachael Kane, Sally Langford, Sumiit Mathur, Sanyu Mugambwa, Jim Phaboutdy, Joanna Penney and Dr Bradley Windon

#### INNOVATION AND PROCESS IMPROVEMENT

Results Integration Project team:

Hayley Harris, Faculty of Medicine, Health and Human Sciences; Matthew Robson, Faculty of Science and Engineering; Michael Herbert, Vice-President (Strategy, Planning and Performance) portfolio; Michael Bogle, Kerri Mackenzie and Rachael Rotton, Faculty of Medicine, Health and Human Sciences

#### LEADERSHIP EXCELLENCE

Dr Robyn Westcott, Deputy Vice-Chancellor (Academic) portfolio

#### **DIVERSITY AND INCLUSION**

Dr Katrina Sealey, Faculty of Science and Engineering

#### AGILITY (FOR PANDEMIC RESPONSE)

Macquarie International team, Vice-President (Professional Services) portfolio:

Timothy Hyde, Stephen Fan, Qiubei Fu, Jason Ray and Tanveer Shaheed

#### MACQUARIE UNIVERSITY RESEARCH FELLOWSHIP SCHEME

Dr Madelyne Bisby School of Psychological Sciences 'Improving treatment uptake, and understanding how psychological treatments work: Exploring single-session digital treatments for anxiety and depression.'

Dr Carmen Dasilva School of Natural Sciences

'Understanding evolutionary responses of Australian native bees to climate change.'

Dr Geraldine Fela
Department of History and Arc

Department of History and Archaeology 'Here to stay! Remembering the 1998 waterfront dispute.'

#### Dr Luisa Fontoura

School of Natural Sciences

Aligning Ecological Connectivity and Fisheries management practices to improve conservation outcomes of locally managed marine area networks'.

Dr Catherine Gascoigne Macquarie Law School

"Towards a new legal framework for adjudicating causal questions in international investment law."

Dr Christian Gelder

Department of Media, Communications, Creative Arts, Language and Literature 'Mental health modernism: Modern literature and the aesthetics of mental health.'

Dr Ann Na Cho

Macquarie Medical School

'Bio-engineered vascularised human mini brain ('vhumAD') to study Alzheimer's disease and to discover their therapeutics.'

#### Dr Alistair Sisson

School of Social Sciences

'The politics of housing data: Examining the uneven quantification of housing problems.'

Dr Mohammad Tavakkoliyaraki School of Natural Sciences

'Integrated tool for analysis of molecular signatures of extracellular vesicles and their parent cells.'

Dr Chun Yuen Jerry Wong

Woolcock Institute of Medical Research 'Intranasal delivery of therapeutic peptides: optimisation of formulation using nanotechnology for diabetes-associated cognitive deficits.'

#### MACQUARIE UNIVERSITY FELLOWSHIP FOR INDIGENOUS RESEARCHERS

Dr Rose Barrowcliffe

Department of Indigenous Studies

'Making the right to know possible: Metadata
for discovering and accessing records relating to
Aboriginal and Torres Strait Islander peoples.'

#### MACQUARIE UNIVERSITY INCUBATOR RESEARCHERS IMPACT PROGRAM

#### Ninner

Professor Ray Laurence Department of History and Archaeology Pitch: Making animated films for high school educators

#### Runners-up

Dr Richard Savery Department of Med

Department of Media, Communications, Creative Arts, Language and Literature Pitch: Musical captcha, a new approach to internet security using AI-driven emotional music to improve web safety and enjoyment

Professor Wendy Lipworth Department of Philosophy Pitch: Attest, an online tool for identifying and managing conflicts of interest

#### **EXTERNAL AWARDS AND ACHIEVEMENTS**

#### OFFICE OF THE PRO VICE-CHANCELLOR (LEARNING AND TEACHING)

Shamim Joarder won the TEL Award from the Australasian Council on Open, Distance and e-Learning.

Shamim Joarder and the iLearn Insights team were awarded the 2022 Award for Innovation in Teaching and Learning from the Council of Australian University Directors of Information Technology.

#### FACULTY OF ARTS

#### Department of History and Archaeology

Associate Professor Michelle Arrow was appointed Vice-President of the Australian Historical Society.

Dr Peter Edwell was shortlisted in the Prime Minister's Literary Awards for *The Case* that Stopped a Nation: The Archibald Prize Controversy of 1944.

#### **Department of Indigenous Studies**

Madi Day was awarded a Fulbright scholarship for a comparative study of coloniality, gender and heterosexuality across Australia and the United States as settler colonial nation states.

Professor Bronwyn Carlson was announced as a Chief Investigator on a successful grant led by Monash University: the ARC Centre of Excellence for the Elimination of Violence Against Women.

#### Department of Media, Communications, Creative Arts, Language and Literature

Award-winning documentary Ablaze, co-written and directed by Dr Alec Morgan, premiered on ABC TV Plus. Ablaze won the Victorian Premier's History Award, an AWGIE award for Best Documentary Script, and ATOM awards for Best Indigenous Film and Best Documentary (Social and Political Issues). Its script was also shortlisted for the Betty Roland Prize for Scriptwriting as part of the NSW Premier's Literary Awards.

The Skin of Others, a film by Associate Professor Tom Murray screened on SBS On Demand and received an ATOM Award for Best Documentary.

Dr Daozhi Xu received the Australian Historical Association's Allan Martin Award for her research project 'Chinese perspectives on Indigenous people in Chinese–Australian newspapers, 1894–1937'. Dr Xu was also announced as secretary of the International Australian Studies Association.

#### Department of Philosophy

Distinguished Professor Wendy Rogers was awarded the 2022 International Association of Bioethics Award for her bioethics service in the face of challenges.

#### Department of Security Studies and Criminology

Dr Rolando Ochoa won the Best Book prize for Intimate Crimes: Kidnapping Gangs, and Trust in Mexico City awarded by the International Association for the Study of Organized Crime.

#### Macquarie Law School

Professor Niloufer Selvadurai was the Graduate
Research Supervision category recipient in the
2022 Australian Legal Education Awards. Professor
Selvadurai was also awarded an honorarium from
the University of California Los Angeles for her coauthored research on the governance of blockchainenabled smart contracts.

Professor Cathy Sherry was a finalist for a 2022 Sustainability Award (Campus Sustainability Research category) from the Association for the Advancement of Sustainability in Higher Education.

Wallumatta Legal was awarded the Innovation in Social Justice, Inclusion and Diversity category at the Financial Times Innovative Lawyers Asia Pacific 2022 Awards.

#### **Macquarie School of Education**

Dr Susan Caldis was awarded the 2022 Macdonald Holmes Medal from The Geographical Society of New South Wales for outstanding contributions to geographical research and education in Australia and internationally.

#### **School of Social Sciences**

Dr Emily O'Gorman was awarded Silver in the Ecology and Environment category of the 2022 Nautilus Book Awards for Wetlands in a Dry Land: More-Than-Human Histories of Australia's Murray-Darling Basin.

#### FACULTY OF MEDICINE, HEALTH AND HUMAN SCIENCES

#### Macquarie Medical School

Emeritus Professor Richard Kefford was again named among the most influential scientists in the world by the annual Clarivate™ Highly Cited Researchers list for his acclaimed melanoma research.

#### **School of Psychological Sciences**

Dr Malene Ahern and HDR candidate Adam Johnston (Macquarie Law School) were announced as 'catalysts' in the Industry Mentoring Network in STEM, an initiative of the Australian Academy of Technology and Engineering.

Dr Natasha Magson was awarded the 2022 Emerging Scholar Best Article Award from the Journal of Youth and Adolescence for her article 'Risk and protective factors for prospective changes in adolescent mental health during the COVID-19 pandemic'.

Dr Vince Polito received a 2022 Young Tall Poppy Science Award for his work promoting interest in science among students in all stages of learning, teachers and peers.

#### Department of Health Sciences

Dr Rimante Ronto received an Early Career Academic Award for Teaching Excellence from the Council of Academic Public Health Institutions Australasia.

#### Australian Institute of Health Innovation

Professor Shlomo Berkovsky was highly commended for the Data Innovation Award at the 2022 Research Australia Awards.

Associate Professor Farah Magrabi was nominated by the Australian Department of Industry, Science and Resources as one of Australia's representatives for a three-year term on the Global Partnership on Artificial Intelligence.

Professor Johanna Westbrook was named one of Telstra's 2022 Brilliant Women in Digital Health and Aged Care. Professor Westbrook also won the Health Services Research Award at the 2022 Research Australia Awards.

#### **FACULTY OF SCIENCE AND ENGINEERING**

#### Department of Applied BioSciences

Honorary Associate Professor Denis Bauer was awarded the AI in Innovation Award at the 2022 Women in AI Awards. Dr Bauer was also named the first runner-up for the Women in AI Award.

#### Australian Astronomical Optics - Macquarie

Dr Angel Rafael Lopez Sanchez was ranked 66th in the worldwide 'Ranking of Spanish scientists working abroad', according to Google Scholar citations and figures. Dr Lopez Sanchez is the most cited Spanish researcher working in Australia, with an h-Index of 62.

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#### School of Engineering

Professor Darren Bagnall and Dr Sourabh Khandelwal will join leading specialists from the University of Sydney, UNSW Sydney, CSIRO and the Australian National Fabrication Facility on the Semiconductor Sector Service Bureau established by the NSW Government through the Emerging Industry Infrastructure Fund.

Dr Noushin Nasiri was named one of the top 20 scientific researchers under 40 in Australia at the Australian-Asian Leadership Summit.

Dr Fatemeh Salehi was appointed to the Blue Economy CRC Scientific Advisory Committee in the hydrogen/renewable energy field.

#### School of Mathematical and Physical Sciences

The Redback Systems startup company was awarded the 2021 John Love Award for Technical Optics from the Australian and New Zealand Optical Society. The group comprises Dr Matt van Breugel, Professor David Coutts, Dr Christian Schwab, Associate Professor Thomas Volz, Dr Lachlan Rogers and Dr Tobias Feger (Australian Astronomical Optics – Macquarie).

Dr Devika Kamath was awarded the 2022 NSW Community Outreach to Physics Award from the Australian Institute of Physics.

Associate Professor Richard McDermid was named among the most influential scientists in the world by the Clarivate™ Highly Cited Researchers list for his influential research into space science.

#### **School of Natural Sciences**

Professor Brian Atwell was named a life member of the Australian Society of Plant Scientists for his significant contribution to the organisation over many years.

Living Seawalls co-leads Associate Professor Melanie Bishop and Associate Professor Katherine Dafforn won the Biodiversity Award at the 2022 National Banksia Sustainability Awards.

Dr Amy Cain was awarded the prestigious Frank Fenner Award from the Australian Society for Microbiology for her contributions to the development of new genomics techniques and her continued work developing new antibiotics and understanding antibiotic resistance in hospital pathogens. She also received a Young Tall Poppy Science Award for her research that bridges the gap between finding promising novel antibiotic targets and developing much-needed antibiotic compounds.

Associate Professor Joanne Jamie and Adam Joyce
– School of Mathematical and Physical Sciences –
were awarded 2022 National Science Week Grants
to showcase science in our everyday lives through
engaging events and activities.

The Gardening Responsibly team, including Distinguished Professor Michelle Leishman, was recognised as a finalist in the 2022 NSW Sustainability Awards (Small and Medium Enterprises Transformation Award category).

Distinguished Professor Leishman was invited to be part of an independent expert panel to undertake the next five-year statutory review of the *Biodiversity Conservation Act 2016* (NSW). In addition, she was awarded the Excellence in Biological Sciences (Ecological, environmental, agricultural and organismal) Award as part of the NSW Premier's Prizes for Science and Engineering.

Emeritus Professor Sue O'Reilly received the China National International Science and Technology Cooperation Award.

Research fellow Dr Julian Schrader was highly commended for his entry in the 2022 BMC Ecology and Evolution image competition for his picture 'Bioluminescent fungi glowing in the Bornean rainforest'.

#### MACQUARIE BUSINESS SCHOOL

A survey of former students of the top 100 full-time MBA courses worldwide saw the Macquarie Business School's MBA ranked second in Australia and 61st globally, according to the online publication MBA News.

The Macquarie Business School was named equal sixth in the ranking of Australia's 37 business schools by *The Australian Financial Review BOSS*.

Professor Leonie Tickle, Deputy Dean Research and Innovation, was appointed to the Executive Committee of the Business Academic Research Directors' Network of the Australian Business Deans Council.

#### Department of Accounting and Corporate Governance

Distinguished Professor James Guthrie joined the hall of fame of the Australian division of the Centre for Social and Environmental Accounting Research.

#### **Department of Economics**

Professor Shuping Shi received the 2022 Young Economist Award from the Economic Society of Australia

Distinguished Professor David Throsby AO was awarded the Distinguished Fellow Award of the Economic Society of Australia for 2021.

#### **DIVERSITY AWARDS**

Macquarie University Sport was recognised at the annual Australian Pride in Sport Awards for the second consecutive year, winning the 2022 Sporting Organisation of the Year. Macquarie was also one of only five Australian sporting organisations to achieve the Gold Tier in the Pride in Sport Index.

The University was awarded Gold at the 2022 Australian LGBTQ Inclusion Awards, one of only 20 organisations in Australia to achieve Gold status.

#### 2021 AUSTRALIAN AWARDS FOR UNIVERSITY TEACHING CITATION FOR OUTSTANDING CONTRIBUTIONS TO STUDENT LEARNING

- Trish Behan, Macquarie University College, for sustained commitment to leading impactful and collaborative mental health initiatives to support staff and enhance the student experience
- Zara Bending, Macquarie Law School, for inspiring the next generation of legal scholars, advocates and changemakers through holistic mentorship and transformative learning design
- Associate Professor Kevin Brooks, School of Psychological Sciences, for sustained excellence in teaching the psychology of perception through innovative and research-enhanced learning and teaching approaches that support, engage and motivate diverse student groups
- Dr Morwenna Kirwan, Professor Catherine Dean, Associate Professor Verity Pacey, Dr Kelly Gray and Alexandra Bhatti, Department of Health Professions, for their collaborative and innovative approach to curriculum development that delivers connected, flexible and immersive digitally enhanced learning experiences to support and engage medical and health science students
- Dr Rimante Ronto, Department of Health Sciences, for excellence in inspiring, motivating and engaging public health students in transformative, innovative and real-world learning

#### OTHER NOTABLE ACHIEVEMENTS

Macquarie University College's Standard Foundation and Intensive programs became the first university-based foundation program nationally to be endorsed by the National ELT Accreditation Scheme.

Professor Nick Titov, Executive Director of MindSpot, received the Exceptional Contribution Award at the Mental Health Service Awards of Australia and New Zealand. In addition, the MindSpot Academy received a Training Excellence Award at the 2022 Australian Business Awards.

The India Australia Community and Business Alliance awarded Macquarie University College the Research and Development Award for the IELTS Online and two MOOCS (IELTS and PTE) on the FutureLearn platform. The College was also a finalist in two other categories. The three English-language test preparation products developed at the college have reached more than 800,000 users, including more than a quarter of a million in India.

Mark Broomfield, Director of Property, Tony Carton, Head of Project Management, and the Property Projects team were shortlisted for the NSW Architecture Award and the Property Council of Australia Design and Innovation Award for their management of the student accommodation in the Central Courtyard development project.

The Careers and Student Employment team was nominated for the Most Popular Careers Service Award at the Graduate Recruitment Industry Awards from the Australian Association of Graduate Employers.

Michel Hemmings Jones, Macquarie University Sport and Aquatic Centre, won gold in discus at the NSW Masters Athletics State Championships.

The construction company responsible for the Central Courtyard project, FDC Construction and Fitout, was recognised with two awards at the Excellence in Construction Awards. Buildcorp won an award for its innovative work on the Ainsworth Building.

Macquarie was the first university to achieve 'extending level' certification under the FlexReady certification framework by FlexCareers for our innovative flexible work framework, (Flex)<sup>us</sup>, and its implementation.

Three Macquarie projects featured at the inaugural NSW Government's Research Impact Showcase:

- · 'Improving the management of NSW rivers' by Professor Kirstie Fryirs, School of Natural Sciences
- 'Improving trading behaviour in securities markets' by Professor Michael Aitken, Professor Andrew Lepone and Professor Vito Mollica – Department of Applied Finance
- 'Protecting the NSW oyster industry' by Associate Professor Melanie Bishop, Professor David Raftos, Professor Paul Haynes, Associate Professor Adam Stow School of Natural Sciences.

#### **QUEEN'S BIRTHDAY HONOURS 2022**

Honorary Research Fellow Dr Patricia Selkirk AC Companion in the General Division of the Order of Australia

For eminent service to science and conservation. (Dr Selkirk was one of only eight people awarded the AC)

Honorary Associate Professor Dr Shirleene Robinson AM

Member of the Order of Australia For significant service to the LGBTQ+ community, to marriage equality, and to history.

#### MAJOR BOARD APPOINTMENTS

Professor Judith Dawes Macquarie University Photonics Research Centre Board of Directors of Optica (2022–2024 term)

Dr Pamela Humphreys

Director, Macquarie University College Board Director, National ELT Accreditation Scheme Academic panel member, LanguageCert

Associate Professor Hsu-Ming Teo Department of Media, Communications, Creative Arts, Language and Literature Editorial Board, International Australian Studies Association

Professor Dali Kaafar
Executive Director, Macquarie University
Cyber Security Hub
Editorial Board, Engineers Transactions on
Dependable and Secure Computing
Institute of Electrical and Electronics

Professor Benoit Liquet-Weiland School of Mathematical and Physical Sciences Associate Editor of *Biometrics*  20 MACQUARIE UNIVERSITY ANNUAL REPORT 2022 | OVERVIEW

#### **FELLOWSHIPS**

Professor Henry Cutler - Director, Centre for the Health Economy - won the inaugural fellowship from the Deeble Institute for Health Policy Research.

Distinguished Professor Stephen Foley - School of Natural Sciences - was elected Geochemistry Fellow by the Geochemical Society and the European Association of Geochemistry.

Professor Diane Hughes - Department of Media, Communications, Creative Arts, Language and Literature - was awarded an Eccles Centre Visiting Fellowship at the Eccles Centre for American Studies at the British Library for her topic on the evolution of jazz and popular singing in twentieth-century

Dr Mei-fen Kou - Department of Media, Communications, Creative Arts, Language and Literature won a National Library of Australia fellowship for her project 'Print culture, the cold war legacy and understanding "Chineseness" in Australia'.

Professor Richard Menary - Department of Philosophy - was elected Fellow of the Australian Academy of the Humanities.

Associate Professor Shawn Ross - Faculty of Arts - was elected Fellow of the Royal Society of New South Wales. Professor Blake Dear

Dr Yasmina Wicks – Department of History and Archaeology – obtained a coveted European Commission Marie Skłodowska-Curie International Fellowship hosted by the University of Naples 'L'Orientale'.

#### **ARC AUSTRALIAN LAUREATE FELLOWSHIPS**

Distinguished Professor Anne Castles

Macquarie University Centre for Reading, School of Psychological Sciences

'Literacy in adolescence: The next major challenge in the science of reading.'

#### ARC FUTURE FELLOWSHIPS

Dr Amy Cain, School of Natural Sciences

'Microbial junk food: Developing synthetic platforms for plastic degradation'

Dr Randa Abdel-Fattah, School of Social Sciences

'Arab/Muslim Australian social movements since the 1970s: A hidden history.'

Dr Emily O'Gorman, School of Social Sciences

'Protecting global wetlands, 1945 to the present.'

Dr Greta Hawes, Department of History and Archaeology

'Storytelling networks and community crises in ancient Greece.'

Dr Christopher Reid, School of Natural Sciences

'Swarm construction: Ant-inspired processes for teams of building robots.'

#### **DISCOVERY EARLY CAREER RESEARCHER AWARD FELLOWSHIPS**

Dr Emma Burns, School of Education

'The power of teacher-student relationships to optimise student outcomes.'

Dr Zixin Huang, School of Mathematical and Physical Sciences

'Quantum-enabled super-resolution imaging.'

Dr Hamid Karimi-Rouzbahani, School of Psychological Sciences

'Characterising brain networks of intelligence through information tracking.'

Dr Jean-Simon Lemay, School of Mathematical and Physical Sciences

'New foundations for algebraic geometry.'

Dr Daozhi Xu, Department of Media, Communication, Creative Arts, Language and Literature 'Chinese Australian writing on Indigenous Country.'

#### NATIONAL HEALTH AND MEDICAL RESEARCH **COUNCIL HONOUR ROLL**

The following researchers were acknowledged on the honour roll of peer reviewers who contributed to the NHMRC peer-review processes in 2022:

#### **MACQUARIE BUSINESS SCHOOL**

Dr Yuanyuan Gu

Dr Rupendra Shrestha

#### **FACULTY OF MEDICINE, HEALTH AND**

**HUMAN SCIENCES** Dr Seong Beom

Professor Jeffrey Braithwaite

Dr Kate Churruca

Professor Thomas Fath

Professor Simon French

Dr Sian Genoud

Professor Andrew Georgiou

Dr Vivek Gupta

Associate Professor Reema Harrison

Dr Cara Hildreth

Dr Carly Johnco

Dr Annie Lau

Ms Emily Kecman

Associate Professor Ling Li

Dr Chai Kiat (Edwin) Lim

Dr Marco Morsch

Associate Professor Craig Phillips

Professor Helen Rizos

Associate Professor Bingyang Shi

Professor Marcus Stoodley

Dr Ole Tietz

Professor Daniela Traini

Dr Kelly Williams

Associate Professor Yuyi You

Professor Yvonne Zurynski

#### **FACULTY OF SCIENCE AND ENGINEERING**

Dr Mohsen Asadniat

#### NOTABLE STUDENT ACHIEVEMENTS

Christopher Curtis and Zachiary Lorschy, undergraduate accounting students from the Macquarie Business School, won first prize and the Innovation Award in the Accounting for Social Impact Case Competition held by the Auckland University of Technology.

Justin Burke - PhD candidate, Department of Security Studies and Criminology – received the prestigious Michael and Deborah Thawley Scholarship in International Security from the Lowy Institute and the Center for Strategic and International Studies.

The 2022 John Mulvaney Fellowship was awarded to PhD candidate Zac Roberts, Department of Indigenous Studies, for his research exploring the relationship between Aboriginal and Jewish communities in Australia since 1788.

Seven students were nominated as finalists across a range of categories in The Australian Financial Review Top 100 Future Leaders list:

- · Haris Aziz (Clifford Chance Social Impact Law Award)
- · Rehan Kharadi (FINEOS FinTech Award)
- · Kimberly La (Clifford Chance Social Impact Law Award)
- · Linda Le (FINEOS FinTech Award)
- · Tom Simes (CAANZ Accounting Award)
- · Henry Tun (CAANZ Accounting Award)
- · Kingston Wong (Westpac Banking, Insurance and Finance Services Award).

#### **NOTABLE ALUMNI ACHIEVEMENTS**

Ten Macquarie alumni were named among finalists in the Australia China Alumni Awards, which recognise the achievements of Australian-educated Chinese alumni. They include Alan Bai (Community Service Award category) and the Honourable Dr Helen Sham-Ho OAM JP, the first Chinese-born Member of Parliament in Australia

At the Sydney Awards (Committee of Sydney), the 2022 Emerging Leader Award went to Australia's fastest-growing ticketing site Humanitix, co-founded by Macquarie alumni Joshua Ross.

### Rankings **PURSUING EXCELLENCE** AND RENOWN

Macquarie University solidified its place among the top 200 institutions worldwide, ranking 195th in the QS World University Rankings, 2023. The result was driven by an increase in research impact measured by the number of citations received by all published papers. Coupled with a 45 per cent increase in research output since 2015, the growth in citations indicates Macquarie's high-quality and influential research across a broad range of disciplines.

The University was ranked 175 in the 2023 Times Higher Education World University Rankings, placing it within Australia's top 10 highest-performing research universities. Our highest global ranking result to date, the jump follows six consecutive years of improvement. The University's rise was buoyed by Macquarie's rich global networks and partnerships with International Outlook (110) and Citations, which increased by 22 places. In addition, citation impact increased from 71.4 to 76.1, with industry income another bright spot.

The Times Higher Education World University Rankings by Subject, 2023, saw computer science enter the top 175 in the world after steadily climbing over the past few years from the top 400 in 2019. Similarly, physical sciences - which includes mathematics and statistics; physics and astronomy; chemistry; geology; and environmental, earth and marine sciences – has improved year-on-year since 2021 to reach the top 175 in 2023.

The University is ranked as the number three institution in Australia for producing CEOs. Preply, a language learning app and e-learning platform, reviewed the backgrounds of CEOs on the Forbes list of 1000 top global companies, noting that CEOs for organisations such as Wesfarmers, Fortescue, Google and Cochlear are alumni of the Macquarie Business School.



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# Our strategic framework

# A UNIVERSITY OF SERVICE AND ENGAGEMENT: BUILDING THE FUTURE IN AN EVOLVING WORLD

Macquarie University is guided by our overarching strategic framework *Our University: A Framing of Futures*, which establishes seven priorities for the University:

- A culture of transformative learning in a research-enriched environment
- An accelerating and impactful performance in discovery
- Aligning the nature and size of the university for the future
- Creating an innovation nexus where Macquarie and our partners contribute solutions to the world and develop lasting relationships
- Emboldening Macquarie University's recognition and international presence
- Developing a vibrant and sustainable campus, clearly at the centre of a rapidly changing neighbourhood in the international, cosmopolitan city of Sydney
- Improving those aspects of our support services to realise this aspiration and vision.

The strategic framework informed the development of the *Macquarie University Operating Plan* 2020 – 2024, which was created through engagement with the University community.

The Operating Plan has six pillars:

#### **STUDENTS FIRS**

We have strengthened our commitment to explicitly focus on current and future students – their education and their success.

Every decision regarding education and student experience first considers the perspective of students and their success. This means that to foster our students' academic achievement and success, we will prioritise and balance the size and composition of our student body, our coursework suite, our support of students' learning and overall experience, our research capabilities, our higher degree research (HDR) program and our resources.

Our success in achieving these goals will deliver:

- renewal of the student experience with good design principles across education and services, and modernised approaches that blend digital and on campus, as well as a focus on employability and outcomes
- simplification of organisational structures to significantly improve staff development, align workforce profile and uplift capabilities
- renewal and modernisation of services and systems to support the student experience
- engagement with alumni, industry and partners to support employability, student experience and course design.

Information about the delivery of these programs can be found on page 68.

#### **COURSEWORK SUITE AND DELIVERY**

We have extended our work on the renewed curriculum architecture to enhance the attractiveness and sustainability of our coursework suite and its delivery. Our focus is on achieving student success and on providing exceptional quality in our courses, teaching and student engagement. To support this, we will match our modes of engagement with the needs and expectations of contemporary students.

Our success in achieving these goals will deliver:

- simplification of study plans for students and greater progression support
- simpler coursework suite with course- and major-level centred design that is focuses on employability and student needs
- · innovative, digitally enabled learning and teaching, and modernised assessment.

More information about the progress of projects under the Coursework suite and delivery pillar may be found on page 70.

#### **FOCUSED INVESTMENT IN RESEARCH**

We are focusing investment in defined areas of strategic research and research training – based on excellence (existing or emerging), performance and growth – aligned with our 10-year Strategic Research Framework. We have accelerated growth and diversification in sources of external income to support our research mission.

Reputation and renown for the University, as measured through the University's rankings strategy, will be drawn from a focus on quality, excellence and impact of our research.

Our success in achieving these goals will deliver:

- · a strategic approach to growth and diversification of income and partnerships
- continued evolution and improvement of the HDR program, services and administration improving external income to support more scholarships
- strategic decisions on University investment in areas of research, with strong accountability for quality, productivity and outcomes
- a strategic approach to multidisciplinary research, building on potential of research activity across disciplinary and organisational boundaries
- enhanced publication and greater promotion of our research outputs
- improved research facilities through economies of scale at the whole-of-institution level.

Details about progress in achieving our goals may be found on page 72.

#### **OUR PEOPLE**

Our people are key to the University's success. We are recruiting, retaining and developing the highest-performing academic and professional staff, and nurturing them to seize opportunities and meet the challenges of our changing world. We are defining the optimum academic profile for disciplines across the University to ensure that we excel in our dual mission of learning and teaching, and research. In achieving these goals, we have aligned our staff profile with our strategic priorities and aspirations and are evolving our work culture with a heightened emphasis on performance, professional development and adaptability – as we serve and engage all our stakeholders.

Our success in achieving these goals will deliver:

- · an enhanced people and culture program with improvement to internal communications.
- a mature model of academic workforce development, to support academics at Macquarie to achieve our aspirations in education and student success.
- a better career pathway for professional staff, with clearer and more standardised roles, and increased
  opportunity for mobility.
- a more balanced representation of staff across academic disciplines and job families, aligned with our learning and teaching, research and engagement strategies.

For additional information about how we are achieving these goals see page 74.

#### **WAYS OF WORKING**

We accept our responsibility to ensure the University's academic, organisational and financial sustainability for generations to come. To achieve this, we have adjusted our operating models on multiple fronts to better respond to the needs of our students, staff and stakeholders. We acknowledge the crucial partnership between academic and professional staff in achieving our strategic goals and ambitions, and the importance of effective and efficient professional services in enabling the mission of the University.

Our success in achieving these goals will deliver:

- a sustainable and mature model and method for measuring the quality of our service delivery to students and staff.
- · more consistent and standard processes across key professional services.
- a more efficient professional staff support structure, allowing reinvestment in the academic mission of the University.
- effective use of technology to support process and service delivery, allowing our staff to focus their time and effort on areas of greater interest and value add.
- effective and adaptable operating models that enable the University to effectively and efficiently deliver on our shared ambition and commitments.

Further detail about how we have progressed in achieving our aims is found on page 76.

#### **DIGITAL TRANSFORMATION**

The Operating Plan challenges the university community to do new and different things, and to rethink and reimagine our approach to the dual mission of education and research. Every aspect of the plan is grounded in academic excellence, rigour and governance – balanced with innovation, contemporary approaches and digital enablement.

Our success in achieving this goal is measured through:

- applying innovation and digital enablers for learning, teaching, assessment and feedback, which meet the needs of 21st-century students
- using digital tools and platforms that allow improvements in communication and engagement with staff, students and partners
- enhancements to digital services to meet students' needs for support, study planning, information and advice
- harnessing innovation through the development and use of emerging technologies for machine learning, automation and analytics
- taking a strategic approach to systems and data to simplify systems, processes and behaviours and enable better integration across the University
- embracing user experience design across all digitally enabled activities
- well-designed interactions with contemporary digitally enabled processes, allowing students, staff and partners to focus on important and relevant activities.

Page 78 outlines our progress towards the digital transformation of the University.



# Risk identification and management

REDUCING THREATS TO THE UNIVERSITY, OUR STUDENTS, STAFF AND RESOURCES

#### RISK MANAGEMENT

The University's risk management framework focuses on identifying, evaluating and managing strategic and operational risk and opportunities. A key element of the framework is understanding and analysing uncertainty inherent in achieving the University's objectives and obligations, as well as identifying practical controls and mitigation strategies that reduce our existing and emerging risk exposures.

Key activities for 2022 included revision of the Risk Management Policy, revision of Risk Appetite Statements and continued focus on enhancing risk reporting to inform decision making. The University's enterprise risks – covering the University, MQ Health and U@MQ – continued to be maintained and updated through the Executive Leadership team and reported to the Audit and Risk Committee throughout the year.

The University's Fraud and Corruption Control Policy, Critical Incident Management Policy, and Business Continuity Planning were reviewed and updated following appropriate consultation.

MQ Health's Workplace Health Safety and Risk department was restructured during the year to report to Group Risk and further strengthen the alignment of risk specialist functions across the University and controlled entities.

Our risk-based response to the COVID-19 pandemic and the University's COVID-safe arrangements included ensuring the University continues to apply an informed, flexible and proportionate approach in promoting a safe working and study environment, while balancing face-to-face or remote operating modes for staff and students as required.

#### **CURRENT AND EMERGING ISSUES**

Throughout the year, the University Council and senior leadership monitor issues that may impact University strategy and performance. Some of the issues identified during 2022 include:

 The speed of return of international students from multiple countries after the COVID-19 downturn had many angles for consideration during 2022 – including ability of recruitment teams to access markets, interest from students to return to travel for study, availability of affordable travel to Australia and capacity of Australian diplomatic missions to process visa applications.

- The Government's Secure Jobs and Better Pay Bill 2022 shifting away from the primacy
  of single employer enterprise agreements to multi-employer agreement bargaining. This could
  potentially subject different universities to the same agreements, and make union approval a
  requirement before proposed enterprise agreements can be put to an all-staff vote.
- The NSW Vice Chancellor's Committee review of the early offer program in NSW to ensure the ongoing
  integrity of the Higher School Certificate (HSC) and admission of students with every chance of success.
- Federal funding for microcredentials that will see universities receive up to \$16.5 million to deliver microcredentials to up to 4000 students over the next four years. The government is separately legislating for microcredentials to be eligible for FEE HELP.
- A review into the role and purpose of the Australian Research Council (ARC) within the university research system to ensure it can meet current and future needs.
- A review, led by Australia's Chief Scientist, Dr Cathy Foley, of Australia's national science and research
  priorities to address First Nations knowledge, acknowledge climate change and engage with emerging
  critical technologies.
- The release of the latest Skills Priority List by the National Skills Commission, with 286 occupations
  in shortage of the 914 assessed. Health professionals, teachers, technicians and trades workers were
  among the worst affected.
- Changes progressed by the Australian Government, including the release of a competitive process
  for universities to bid for the 20,000 additional university places with an emphasis on access for
  equity students, allocating "surge" resources to process a backlog of visa applications, including from
  students; and increasing post-study work rights for international students to help fill skills gaps.
- A commitment by Australian Ministers for Education to developing a National Teacher Workforce Action Plan to increase the number of people entering and remaining in the profession.

#### INSURANC

Macquarie University has a comprehensive insurance program to provide protection for loss of or damage to assets, revenue, equipment and vehicles, and for statutory and medical liabilities. The University also retains its valuable partnership with International SOS and Control Risks – leaders in medical assistance, international healthcare and security assistance – to support the ongoing safety needs of our students, volunteers and staff travelling overseas.

The Australian insurance market continues to be impacted by global reinsurance market dynamics, the multidimensional and ongoing impact of COVID-19, and claims activity. Premiums continue to rise, reflecting hard market conditions that have prevailed for some time. However, the rate of increase has slowed down

The University's insurance program has been renewed for 2022–2023 and is supported by several specialist providers. While premiums are generally higher, satisfactory levels of cover were secured in all major areas for the ongoing protection of the University and its controlled entities.

#### INTERNAL AUDIT

The University's internal audit provider is PwC (Pricewaterhouse Coopers). PwC conducts audits in accordance with an annual plan that is aligned to the University's Enterprise Risk Framework and was developed following consultation with senior managers and members of the Executive to identify areas of risk. The plan is reviewed by the Audit and Risk Committee of Council.

Audits were conducted in 2022 in accordance with the annual plan, which was amended and supplemented by additional reviews as risk concerns in particular areas of operation were identified or emerged.

Reports of reviews are considered by the Audit and Risk Committee. It also monitors performance of internal audit against the annual plan and implementation of the outcomes and recommendations of internal audits in accordance with a specified timetable.

#### MACQUARIE UNIVERSITY COUNCIL FREEDOM OF SPEECH AND ACADEMIC FREEDOM ATTESTATION ANNUAL STATEMENT

The main university policy governing freedom of speech and academic freedom is the Freedom of Speech Policy and Academic Freedom Policy approved by Council on 9 September 2021.

To strengthen a culture committed to freedom of speech and academic freedom, the University undertook the following activities in 2022:

- Briefing materials on freedom of speech and academic freedom were included in student and staff induction modules.
- Materials on freedom of speech and academic freedom were included in the Council induction manual for the induction of new members of the University Council
- Time was scheduled for periodic discussion of freedom of speech and academic freedom at academic board and governing body meetings, including a specific workshop on freedom of speech and academic freedom at Academic Senate
- Scheduled time was allocated for periodic discussion of these topics in the respective Annual Agenda Plans for Academic Senate and Faculty Boards for 2023
- 5. To the end of 2022, no relevant issues came to the attention of University Council

It is noted that Macquarie University student associations are not affiliated bodies, as is the case at some other universities, and so are already subject to the University's policies on freedom of speech and academic freedom.

The most recent survey of students that included questions regarding management of freedom of speech and academic freedom on campus were incorporated into the Quality Indicators for Learning and Teaching (QILT) Student Experience Survey of 2021 (note the release of this data occurred in August 2022). In this survey Macquarie University students gave the university an 87.3 per cent positive rating on the "freedom of expression scale" compared with 85.6 per cent for all Australian universities.





3. Due diligence, risk assessments and management

3.1 Universities require declaration of interest

#### HOW WE ARE ADDRESSING THE RISKS OUTLINED BY THE UNIVERSITY FOREIGN INTERFERENCE TASKFORCE GUIDELINES 2021

2.2 Universities will provide training to staff and students who are engaged in foreign

at risk of foreign interference.

collaboration or other partnership activities

share experiences and leading practice, to learn

raising awareness, sharing information relating

to foreign interference and being accessible.

from each other and build sector resilience.

2.4 Government supports the sector through

2.3 Universities participate in sector-wide counter foreign interference events and where appropriate,

1.	Governance and risk frameworks	
1.1	Universities have frameworks for managing risks that address foreign interference threats to the university's people, information and assets.	Macquarie University has adopted a responsibility and resolution matrix for the Countering Foreign Interference (CFI) Working Group, and the Working Group manages this risk category via sponsorship of the Annual Action Plan for Countering Foreign Interference.
1.2	Universities will have accountable authorities responsible for managing foreign interference risk.	The Deputy Vice-Chancellor (Research) is Macquarie University's accountable authority, and performs the role of Chair of the CFI Working Group.
1.3	Universities have policies and procedures that set out responsibilities and expected conduct for all those engaging in university business to manage foreign interference risk.	The Conflict of Interest Policy and University Codes of Conduct have been reviewed in relation to CFI risks. A Complaints Procedure for managing probable foreign interference events has been developed and implemented. All policies are reviewed with a CFI lens during their normal review process.
1.4	Universities have clear risk assessment and reporting frameworks available to all staff and students that guide decision making on activities at risk of foreign interference.	In 2022, Macquarie University implemented a Research Risk Review Procedure that enabled all staff to refer an activity for an in-depth review of CFI risks.
1.5	Universities have transparent escalation and reporting mechanisms for foreign interference-related matters.	The Research Risk Review Procedure, the Terms of Reference for the Research Risk Review Committee, and the CFI Complaints Procedure will be published through the University's Policy Central library to ensure transparency of process and policy. Macquarie's CFI Due Diligence Toolkit is available to staff via an online access-controlled platform.
2.	Communication, awareness and education	
2.1	Universities have communication plans and education programs that raise awareness and support mitigation of foreign interference risks.	In Session 2, 2022, Macquarie undertook a communication plan targeting students and staff regarding inappropriate and unwanted behaviour focused on raising awareness of foreign interference risks and disclosure pathways available to students and staff. Orientation materials for inbound international students were amended as part of this communication plan.

Department of Prime Minister and Cabinet.

specific CFI training materials.

The University has undertaken research risk and due diligence training for disciplines identified

as having a national security rating of 'high' in the 2021 Critical Technology Policy released by the

Macquarie actively participates in forums run by Universities Australia and the RMIT Trusted Cyber

Security Forum. Macquarie has provided feedback on the development of sector and non-sector

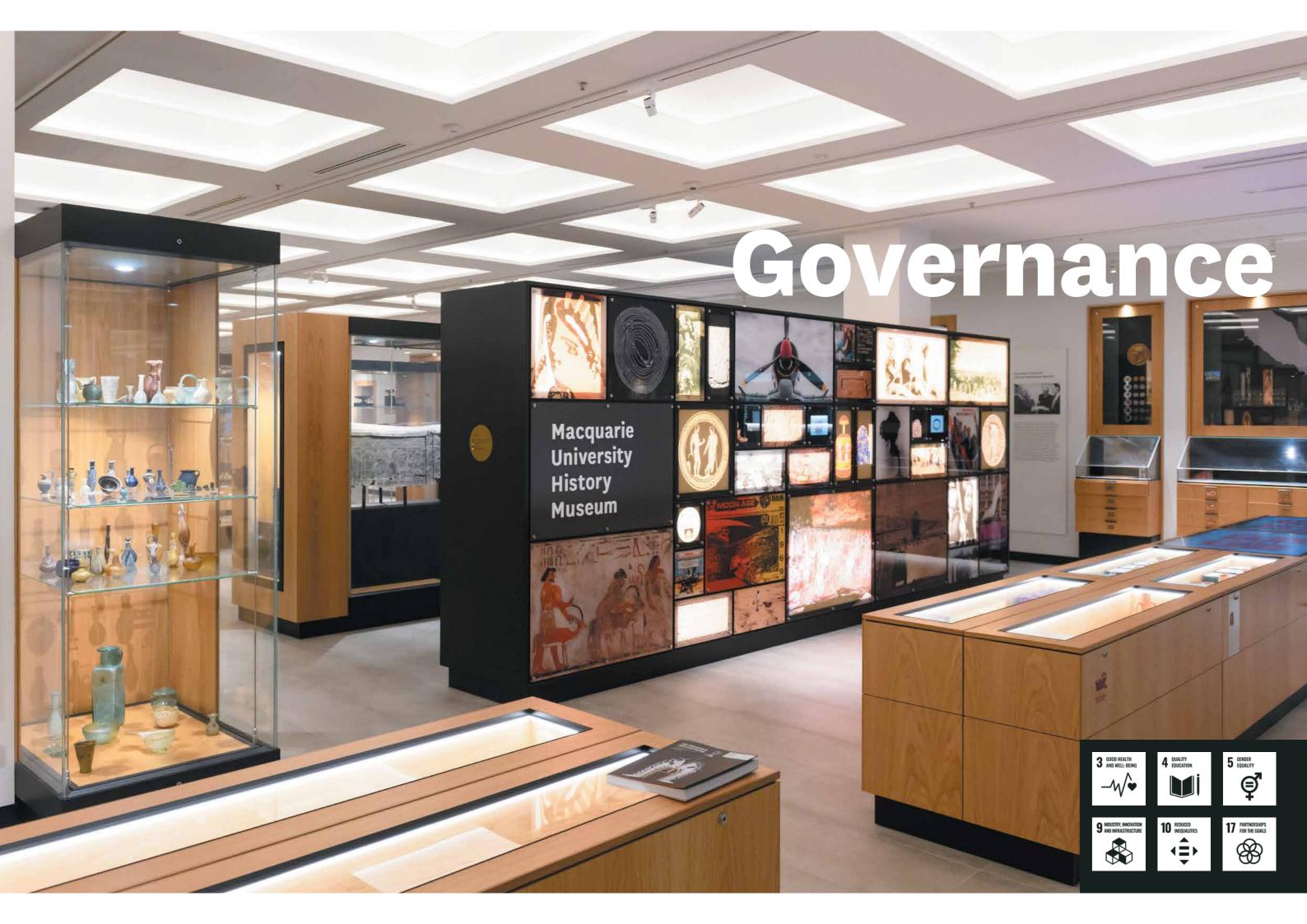
Macquarie has a very productive ongoing engagement with the Counter Foreign Interference

Coordination Centre (CFICC) in New South Wales and thanks CFICC for its support, engagement and

advice. Macquarie organises briefings to select groups of staff from representatives of Commonwealth Government agencies to support counter foreign interference awareness and risk management.

#### disclosures from academic staff including identification of foreign affiliations, relationships and financial interests. 3.2 Universities conduct due diligence to inform In 2022, Macquarie implemented a University-wide CFI Due Diligence Procedure and released four tools decision makers of foreign interference risks. for staff to use: (1) Foreign arrangements online tool (2) Consider the Partner Due Diligence (3) Consider the Research Due Diligence (4) Ongoing Monitoring Due Diligence. 3.2.1 Universities conduct due diligence on partners The CFI Due Diligence Toolkit was implemented in 2022 to ensure partners and personnel received CFI due diligence proportionate to the risk of the associated research. and personnel. 3.2.2 Universities assess the potential of technology The Research Risk Review Committee undertook a dual-use risk review of each discipline at the University that was listed in the 2021 Critical Technology Cards with a national security rating of 'high'. Additional risk and/or research. controls were implemented in proportion to the risk of the critical technology discipline at Macquarie. The Research Risk Review Procedure enables Macquarie to assess the potential of technology and research. 3.3 Universities will apply a comprehensive The Research Risk Review Committee applies a comprehensive program of due diligence via the risk management framework as part of their Research Risk Review Procedure and the CFI Due Diligence Framework. due diligence. 3.4 Universities have approval, audit and continuous From 2023 onwards, the Research Risk Review Committee will review the functioning of the Research evaluation of due diligence activities. Risk Review Procedure and the CFI Due Diligence Framework on an annual basis. 4. Cyber security 4.1 Universities should use threat models where Threat modelling of cyber security risks takes place during security testing, internal project review and possible to understand and proportionately incident response. Outcomes of these activities inform the Macquarie University IT Information Security mitigate cyber business risks and inform their program of work. cyber security strategy. 4.2 Universities will implement a cyber security Macquarie University's cyber security strategy and the Macquarie University IT Information Security strategy that treats cyber security as a program of work includes initiatives that implement appropriate levels of protection from cyber-attacks whole-of-organisation human issue and targeting systems and personnel across the University. incorporates an appropriate controls framework. Macquarie University participates in the Trusted Cyber Security Forum as well as other cyber-related 4.3 Universities should participate in communities of best practice, which share cyber intelligence communities of practice in the Higher Education sector and the broader cyber security industry. and lessons across the sector and government.

Macquarie's Conflict of Interest Policy requires declarations of foreign affiliations and interests.



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# Our leadership

#### ENSURING THE UNIVERSITY ACHIEVES ITS OBJECTIVES

#### **MACQUARIE UNIVERSITY COUNCIL**

Macquarie University Council is the governing authority of the University, established under Part 3 of the *Macquarie University Act* 1989 (NSW) (the Act). Under Part 4 of the Act, the Council acts for and on behalf of the University in the exercise of the University's functions, has the control and management of the affairs and concerns of the University, and may act in all matters concerning the University in such manner as appears to the Council to be best calculated to promote the object and interests of the University.

The Council comprises 15 members who contribute a blend of financial, commercial, governance, legal, academic, administrative and public sector expertise to the business and operation of the Council.

Members are elected or appointed in accordance with the provisions of the Act and the Macquarie University By-law 2005.

#### **MEMBERS OF COUNCIL**

Council membership as at 31 December 2022.

#### CHANCELLOR

Elected pursuant to Section 10(1) of the Act Dr Martin Parkinson AC PSM BEc (Hons1) Adel MEc ANU MA Princeton PhD Princeton FASSA FIPAA Current term to 24 October 2023 ex officio

#### **DEPUTY CHANCELLOR**

Elected pursuant to Section 11(1) of the Act Louise Mason BA LLB (Hons) Macq

Current term to 31 December 2024

#### VICE-CHANCELLOR

Appointed pursuant to Section 12(1) of the Act Professor S Bruce Dowton MB BS Syd MD Syd FACMG FRACP FAICD FRSN Appointed 2 September 2012 ex officio

#### CHAIR OF THE ACADEMIC SENATE

Appointed pursuant to Section 8(H)(c) of the Act Professor Jacqueline Phillips BVSc (Hons) Syd PhD ANU Current term as Chair of the Academic Senate to 30 June 2023

#### APPOINTED BY THE MINISTER FOR SKILLS AND

TERTIARY EDUCATION

Pursuant to Section 8G of the Act

Louise Mason

BA LLB (Hons) Macq

Current term to 31 December 2024

Michael Book BEc Macq

Current term to 10 November 2023

#### **ELECTED BY AND FROM THE ACADEMIC STAFF**

Pursuant to Section 8D of the Act Professor Catherine Dean BAppSc (Phty) CCHS MA Columbia PhD Syd PFHEA GAICD Current term to 31 December 2023

Associate Professor Wylie Bradford BEc (Hons) *Newcastle* MPhil PhD *Cantab* Current term to 31 December 2023

#### ELECTED BY AND FROM THE NON-ACADEMIC STAFF

Pursuant to Section 8D of the Act
Benjamin Dougall
BA LLB MPPP Macq
Resigned from the University and ceased term on
Council on 28 October 2022

#### ELECTED BY AND FROM THE STUDENTS OF THE UNIVERSITY

Pursuant to Section 8D of the Act Jayden Whaites-Fruitrich Current term to 31 May 2023

#### **GRADUATE MEMBERS APPOINTED BY COUNCIL**

Pursuant to Section 8E of the Act Chum Darvall AM BA Macq SF FINSIA FAICD Term ended 31 December 2022

John Wigglesworth BEc Macq FCA Current term to 28 February 2023

Frank Zipfinger BAcc BEc Macq LLB LLM MBA MAICD Current term to 28 February 2027

#### APPOINTED BY COUNCIL

Pursuant to Section 8F of the Act Deborah Green AM BSS Syd MA (History) Syd MPhil Syd Current term to 19 April 2024

Deborah Hadwen BA MA MComLaw *Macq* MAICD Current term to 29 February 2024

Jingmin Qian
BEC UIBE Beijing MBA AGSM
CFA FAICD
Current term to 28 February 2027

#### **COUNCIL MEMBERS' ATTENDANCE AT MEETINGS**

	A	В
Dr Martin Parkinson	6	5
Louise Mason	6	5
Professor S Bruce Dowton	6	6
Professor Jacqueline Phillips	6	6
Michael Book	6	6
Associate Professor Wylie Bradford	6	6
Chum Darvall	6	6
Professor Catherine Dean	6	6
Benjamin Dougall	5	3
Jayden Whaites-Fruitrich	6	3
Deborah Green	6	6
Deborah Hadwen	6	5
Jingmin Qian	6	6
John Wigglesworth	6	5
Frank Zipfinger	6	6
A Number of meetings eligible to ettend		

- A Number of meetings eligible to attend
- B Number of meetings attended

#### **REVIEW OF OPERATIONS**

During 2022, the Council discharged its functions in accordance with Part 4, Division 1, Clause 16 of the *Macquarie University Act* 1989. Activities included:

- considering strategic updates from the Vice-Chancellor at each meeting to oversee the University's performance, including current and emerging issues, implementation of the *Operating* Plan 2020–2024 and key performance indicators
- considering a report from the Vice-Chancellor at each Council meeting on developments and activities (eg COVID-19 related initiatives, research news, Incubator news, Indigenous updates, alumni updates, communication and media coverage, staff updates, policy updates), and notable events and achievements (eg industry recognition and engagement and student and staff accolades)
- reviewing reports from the Audit and Risk Committee that address risks facing the University, internal audit reviews and compliance reports
- reviewing reports from the Finance and Facilities Committee relating to facilities and property and financial management and investment
- reviewing reports from the Nominations and Remuneration Committee that included reports relating to the performance of the Vice-Chancellor

- reviewing reports from the Student Experience Committee
- reviewing reports from the Honorary Awards Committee
- reviewing reports from the Academic Senate relating to the University's academic activities
   reviewing standing items relating to health
- and safety and student misconduct and discipline matters
- reviewing and approving financial statements for the year ending 31 December 2022
- reviewing and approving the annual budget and capital management plan for the year commencing 1 January 2023
- reviewing and maintaining rules, delegations and policies and procedures consistent with legal requirements and community expectations
- receiving strategic presentations covering a
   wide range of matters relating to the University,
   including coursework suite and delivery, the
   students first initiative, digital transformation,
   international strategy, foreign interference,
   marketing and brand strategy, alumni and
   philanthropy, corporate engagement, people
   and culture, and reports from faculties and
   MO Health.

Council received reports on the preparation and timeline for renewal of the University's registration process. Council paid particular attention to the impact of the COVID-19 pandemic on the operations of the University, including the impact on students' participation, progress and completion.

#### **CHANGES TO UNIVERSITY RULES**

Revised University Rules that reflect decisions of the Council included:

- Faculty Rules, effective 1 January 2022
- Academic Senate Rules, effective 8 April 2022
- General Coursework Rules, effective 8 April 2022
- Higher Doctoral Degree Rules, effective 8 November 2022
- Academic Costume Rules, effective 8 November 2022.

The Council also approved the Student Consultation Rules, effective 1 January 2022 and the Tuition Fees and Charges Rules, effective 31 October 2022 (which replaced the Fees Rules, expired 31 October 2022).

## COMPLIANCE WITH THE VOLUNTARY CODE OF BEST PRACTICE FOR THE GOVERNANCE OF AUSTRALIAN UNIVERSITIES

In accordance with Clause 14 of the Voluntary Code of Best Practice for the Governance of Australian Public Universities (the Code), the University advises that it fully complies with the Code. This is reviewed on an annual basis.

Continuous improvement activities undertaken by the Council during 2022 included:

- reviewing the membership of Council for succession planning purposes
- reviewing the membership of Council committees
- reviewing the membership of controlled entity boards
- reviewing the terms of reference of Council committees, as scheduled
- commencement of a review of the University's Delegations of Authority, to be completed in 2023
- commencement of an external review of the effectiveness of Council and academic governance processes, to be finalised in 2023.

#### ACADEMIC SENATE

The Academic Senate reports to the University Council and provides leadership and quality assurance of academic activities – such as scholarship, learning and teaching, research and research training – and safeguards academic freedom.

Membership includes the senior executive and representatives elected by and from the academic staff and students of the University, providing a forum to facilitate debate and information flow between the senior executive officers of the University and the wider academic community.

The Academic Senate advises the Council and the Vice-Chancellor on academic matters; is authorised to approve new and amended award courses and relevant policy on academic matters; and monitors the quality of learning, teaching, research and research training.

#### **PRINCIPAL OFFICE BEARERS**

(At 31 December 2022)

#### VISITOR

Her Excellency the Honourable Margaret Beazley AC QC  $\,$ 

Governor of New South Wales

#### CHANCELLOR

Dr Martin Parkinson AC PSM BEc (Hons1) Adel MEc ANU MA Princeton PhD Princeton FASSA FIPAA

#### DEPUTY CHANCELLOR

Louise Mason BA LLB (Hons) Macq

#### VICE-CHANCELLOR

Professor S Bruce Dowton MB BS Syd MD Syd FACMG FRACP FAICD FRSN

#### **DEPUTY VICE-CHANCELLOR (RESEARCH)**

Professor Sakkie Pretorius BSc (Hons) MSc PhD Free State

#### DEPUTY VICE-CHANCELLOR (ACADEMIC)

Professor Rorden Wilkinson BA (Hons) *Liverpool* MA (dist) *Kent* PhD *Auckland* FACSS FRSA

#### **VICE-PRESIDENT, FINANCE AND RESOURCES**

Robin Payne BA Cantab

#### VICE-PRESIDENT, PROFESSIONAL SERVICES

Nicole Gower BA/LLB (Hons) *UTS* GAICD

#### VICE-PRESIDENT, STRATEGY, PLANNING AND PERFORMANCE

Jonathan Wylie BA (Hons) *Warw* MBA *Manc Met* GAICD

#### EXECUTIVE DEAN, FACULTY OF ARTS

Professor Chris Dixon BA (Hons) MA *UWA* PhD *UNSW* 

#### EXECUTIVE DEAN, MACQUARIE BUSINESS SCHOOL

Professor Eric Knight BA Syd LLB (Hons1) Syd DPhil Oxon FRSN SFHEA

#### DEPUTY VICE-CHANCELLOR (MEDICINE AND HEALTH) AND EXECUTIVE DEAN, FACULTY OF MEDICINE, HEALTH AND HUMAN SCIENCES

Professor Patrick McNeil MB BS (Hons) *UTas* PhD *UNSW* FRACP

#### EXECUTIVE DEAN, FACULTY OF SCIENCE AND ENGINEERING

Professor Lucy Marshall BEng (Hons) MEngSci PhD UNSW

# Macquarie University Organisation Structure

-Chancellor -SBruce Dow

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# EMC

### CHANGES TO ACTS AND SUBORDINATE LEGISLATION

There were no changes to the *Macquarie University Act* 1989 or to its subordinate legislation in 2022.

There were no significant judicial decisions affecting the University or users of its services.

#### **CYBERSECURITY**

The University is committed to protecting its information and computer systems, the privacy of staff and students, and those external to the University. We recognise that the landscape of cybersecurity threats to systems and information is continually developing and escalating.

In 2022, the University delivered an extensive security uplift program to improve protection measures in these areas:

- $\bullet \quad \text{multifactor authentication} \\$
- · security event logging and monitoring
- · web application security
- $\bullet \ \ server\ infrastructure\ hardening$
- · network segmentation
- forensic services and end-point detection and response.

In the coming year, the University will continue to deliver security improvements in the 2023 cybersecurity uplift program, including implementing the Australian Cyber Security Centre's Strategies to Mitigate Cyber Security Incidents, known as the Essential Eight.

The University will continue to strive to achieve a balance between protecting the valuable information in its care and enabling our community to benefit from the safe and extensive use of information technology.



Above: Our learning and teaching partnerships create innovative opportunities for students to build their employability skills.

Left: We are working to seamlessly integrate physical and digital engagement and create a world-class university experience.

#### **PRIVACY**

The University is committed to respecting the privacy rights of its students, staff, patients and third parties. The University implements a range of activities and actions to ensure privacy obligations are met including staff training, guidance on privacy matters and policy review/development.

Privacy complaints are dealt with in accordance with the *Privacy and Personal Information Protection Act 1998* (NSW). The *Privacy and Personal Information Protection Act 1998* provides a formalised structure for managing privacy complaints relating to this. This process is known as 'internal review'. In 2022, any privacy-related concerns were dealt with and resolved by corrective action as required and the University received no applications for privacy internal review in 2022.

#### **PUBLIC INTEREST DISCLOSURES**

The Reporting Wrongdoing – Public Interest Disclosures Policy contains the University's procedures for receiving, assessing and dealing with reports of fraud, corruption and other serious wrongdoing. The number of public interest disclosures is set out in the tables below.

#### REPORT TO NSW OMBUDSMAN (UNDER SECTION 6CA OF THE PUBLIC INTEREST DISCLOSURES ACT) 2020-2022

	2020	2021	2022	
Number of public officials who made public interest disclosures to the University's public authority	0	5	0	
Number of public interest disclosures received by the University's public authority	0	1	0	

#### PRIMARY SUBJECT OF PUBLIC INTEREST DISCLOSURES RECEIVED 2020-2022

	2020	2021	2022
Corrupt conduct	0	1	0
Maladministration	2	0	0
Serious and substantial waste	0	0	0
Government information contravention	0	0	0
Local government pecuniary interest contravention	0	0	0
Total	0	1	0
Number of public interest disclosures that have been finalised in this reporting period	2	0	0



## Our students, advocacy, support services and facilities

#### HOW WE HELP OUR STUDENTS THRIVE

In 2022, 43,684 students were enrolled at Macquarie, a decrease of 1051 (2.3 per cent) students compared with 2021. There was a decrease of 639 international students compared with 2021; domestic student enrolments decreased by 412 over the same period. There were 8433 international students from 114 countries, making up 19.3 per cent of students. Of those, 480 students were enrolled in the University's pathway college and 130 students in offshore programs in China, Hong Kong, Korea and Singapore. The University's total equivalent full-time student load in 2022 was 30,655.6, a decrease of 1646.3 (5.1 per cent) over 2021. Of the total student load, 81.9 per cent was in undergraduate degrees and 18.1 per cent in postgraduate degrees.

#### STUDENT ENROLMENTS

Type of attendance	2022
Full time	24,657
Part time	19,027
Gender	
Male	21,012
Female	22,642
Gender fluid/non binary	30
Domestic/international	
Domestic	35,251
International	8433
Total*	43,684

\*2022 student enrolment numbers as at 31 December 2022 are preliminary. Final figures to be confirmed in line with Australian Government reporting requirements.



#### **HEALTH AND WELLBEING**

Macquarie offers a suite of health and wellbeing services – counselling, accessibility, welfare, advocacy, medical and religious support – that students can take advantage of at any time during their studies.

#### DIVERSITY

Macquarie is an inclusive and diverse campus with students from more than 114 countries. We offer specific support services to students from culturally diverse backgrounds, students with disability, Indigenous students and LGBTIQ+ students.

#### ORIENTATION

Orientation Week – or O Week – is held the week before classes start. Students can find out about student groups, support services and extracurricular programs. In addition, the university now offers a first-year student specialised program – Kickstart – focused on additional preparation for university studies.

#### PEER MENTORING

The Macquarie University Peer Mentor program is one of Australia's longest-running peer-support programs. Mentors are current students who help students find their way around the campus and offer advice on making friends and settling into the Macquarie community.

#### NUMERACY

Through the Numeracy Centre, we offer assistance with maths and statistics. Students can choose from a free drop-in service, weekly workshops for some first-year degrees, bridging programs, preparatory courses and online resources.

#### **LEARNING SKILLS**

The University offers individual consultations, free workshops and online resources to help students with academic writing, referencing, exam strategies and more.

#### **CAREER AND EMPLOYMENT**

The Career and Employment Service helps students prepare résumés, provides advice about the skills students need for their chosen career, identifies job opportunities, and connects students with employers and industry partners through its recruitment service, Employability Connect.

#### FITNES

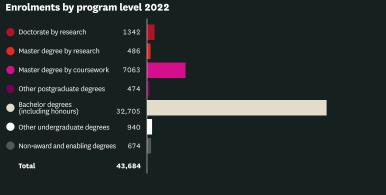
We offer a state-of-the-art health club, 50-metre and 25-metre swimming pools, sports fields, squash courts, sports halls, a martial arts area and a gymnastics hall. Students can also participate in a range of sports including AFL, cheerleading, cricket, dance, fencing, hockey, quidditch, rowing, rugby union, rugby league, skiing and snowboarding, soccer, squash, swimming, table tennis, ultimate frisbee, volleyball and water polo.

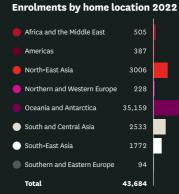
#### ACCOMMODATION

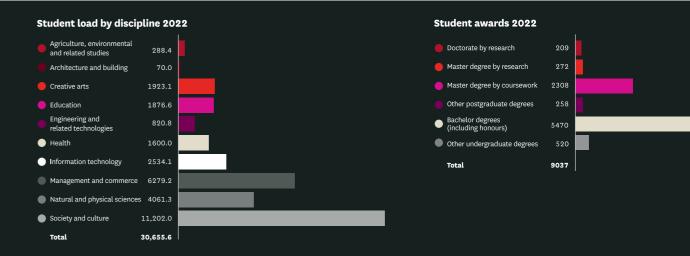
A range of safe, supportive and diverse accommodation options are offered to students on and near the University campus. Our new on-campus student residences are located in the Central Courtyard precinct, the heart of the University. Other options include residential colleges, university partner housing blocks, homestays with local families and local private housing. All of our inviting accommodation options offer comfortable living and a supportive environment that set students up for academic success while enriching their experience of university life.

#### INTERNATIONAL STUDENTS

In addition to the services above, we offer a range of initiatives to support the success of international students. For example, Macquarie was the first university in New South Wales to offer international students access to a multilingual app. The My Legal Mate app provides free, on-demand access to general legal information in areas such as employment, education, accommodation and sexual assault. The video format and Q&A modules offer practical legal solutions in several different languages: English, Hindi, Korean, Mandarin, Portuguese, Thai and Vietnamese.







# Learning and teaching

HELPING STUDENTS ACHIEVE THEIR GOALS – EDUCATIONAL, PERSONAL AND PROFESSIONAL

The Writing
Centre attracted
more than 3000
students wanting
to develop
their academic
literacies.

Learning and teaching achievements in 2022 have significantly improved the learning experience of students and supported staff to deliver quality teaching online and in the classroom. We continue working with students as partners to progress learning and teaching, and deliver initiatives that reflect our commitment to students first.

#### GLOBAL LEADERSHIP PROGRAM

In 2022, more than 3000 students were enrolled in the Global Leadership Program (GLP). Students attended one or more GLP events held across the year, representing a combined total of 4815 students: 3811 students attended 185 seminars; 474 attended the six keynote speaker events; and 530 participated in a variety of modules, challenges and day programs on and off campus. The achievements for the year included:

- · launching the first GLP online innovation module
- launching a new colloquium, in collaboration with IndigenousX, for online advocacy with an Indigenous perspective
- coordinating three keynote speaker events: the Honourable Michael Kirby AC CMG; Steven Killelea AM, founder of Integrated Research Ltd and the Institute for Economics and Peace; and His Excellency Mr Nguyen Tat Thanh, Ambassador of Vietnam
- signing a memorandum of understanding with the St Vincent de Paul Society (NSW) to streamline student volunteering opportunities and processes
- launching the Alumni Achievers Network in partnership with Global Engagement and Reputation
- · launching a student advocate training program.

In the 2022 Graduating Student Survey, participating students reported that the GLP had enhanced their employability and career aspirations, with students believing:

- they (84%) would obtain work in an area of their professional interest
- they (89%) could more confidently plan or make career decisions
- they (81%) were more equipped to pursue a leadership role or position
- the GLP had helped them (85%) develop meaningful, realistic career goals and pathways.



The Learning Enhancement team provided critical learning and teaching support for the pivots between on-campus, hybrid and fully online teaching delivered in 2022. The team supported more than 8900 requests for help with learning design, learning technologies, online exams, educational media, and microcredentials. In addition, just-in-time video production support was provided with video lessons for online delivery and several infographic resources developed to help students get the most from their learning.

The Academic Senate approved the Learning Technologies Policy. A university-wide iLearn template, developed with students and staff, was implemented from Session 1, 2022, to improve the quality and consistency of online learning. In addition, student consultations were held to identify strategies and opportunities for enhancing online learning delivery.

#### **ACADEMIC LITERACIES**

In 2022, the Writing Centre's suite of learning opportunities to develop academic language and literacies (ALL) attracted more than 3000 students. Senior learning advisers worked with academic and teaching staff to map ALL instruction across core zone units and integrate curriculum-relevant teaching of ALL practices. Other key achievements follow:

- The StudyWISE iLearn Academic Literacies Unit attracted 226,890 page views.
- The WriteWISE program delivered 825 consultations with 93.5 per cent satisfaction rating
- Learning advisers provided 550 consultations and expert responses to coursework students.
- The Academic Senate approved the new Academic Language and Literacies Policy and the revised Peer Assisted Study Session Policy.
- Three microcredential workshops were held for staff, focusing on understanding and meeting the needs of neurodiverse students, and breaking down barriers to their success.

#### **LEARNING INNOVATION**

University offering an enhanced range of

support services to help students make the most of their experience.

The Learning Innovation team provided critical support for implementing learning innovation initiatives, including our microcredentials program. Following the approval of the Microcredentials Policy by the Academic Senate, the microcredential digital ecosystem was consolidated, with its introduction to the Curriculum Management System and a digital shopfront with an integrated payment facility. Launched in November, the shopfront has enhanced marketing and purchasing capabilities, including the functionality to market and sell microcredential programs. A total of 4903 digital credentials were issued in 2022, including for students who completed the Skills Development Program and the GLP.

The team also developed prototype dashboards including a National Priorities and Industry Linkage Fund dashboard, a unit failure analysis dashboard, an assessment dashboard and an employability course review dashboard. The latter was supplemented with the production of data packs to support 74 courses, of which 51 underwent review in 2022.

#### STAFF DEVELOPMENT

The Learning and Teaching Staff Development team – guided by the Professional Learning and Capability Enhancement Framework – facilitated professional development programs; developed resources to enhance teaching capability; contributed to curriculum, assessment, learning design and governance; led scholarly reflection and collaborative practice; and shared good practice in learning and teaching across the University.

The highlights for the year included:

- publishing quick guides on topics such as constructive alignment, feedback methods, informal
  evaluation, learning outcomes, student workload, and unit activities and student participation
- facilitating teaching development workshops on active learning, blended synchronous teaching, reflective practice, technologies for teaching, and impactful feedback
- creating self-paced teaching development modules in Workday and iLearn
- facilitating the Beginning to Teach program, for staff new to university teaching, for 70 participants
- hosting the Inclusive Teaching Forum, a collaborative initiative of the Office of the Pro Vice-Chancellor (Learning and Teaching) and Workplace Diversity and Inclusion. This hybrid event, attended by more than 190 staff, sought to raise awareness of the need for equitable and inclusive teaching practices to support and stimulate diversity.

#### LEARNING ANALYTICS

The iLearn Insights tool continued to adapt to the pandemic-driven change to learning modes through various enhancements, including scheduling personal emails and forum participation summaries. In 2022, more than 598,000 emails were sent to students from the iLearn Insights platform.

MyLearn, a student-facing version of iLearn Insights, was launched in March. This tool helps students organise and manage their studies, and gain insights into their study behaviours. Since its inception, more than 16,000 students have accessed 2278 unique unit views, with more than 850,000 hits to MyLearn.

The Teaching Evaluation for Development Service team delivered more than 3700 Learner Experience of Unit surveys and facilitated focus groups with students and staff to review and identify enhancements to the Learner Experience of Teaching survey instrument.

#### ACADEMIC INTEGRITY

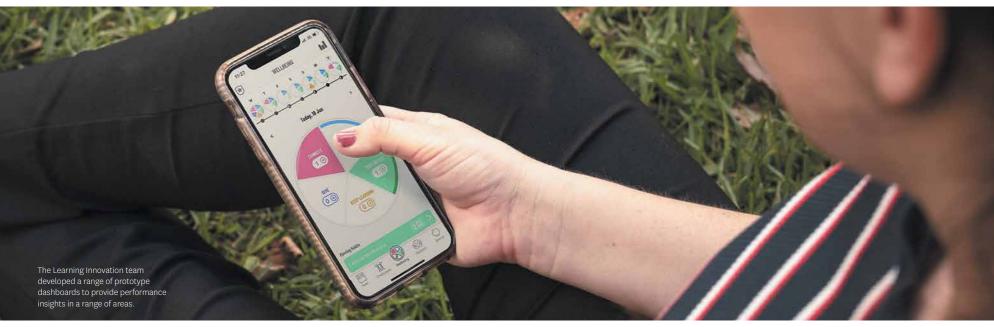
As part of the University's commitment to fostering academic integrity in learning and teaching, key initiatives during the year included:

OPERATIONS | MACQUARIE UNIVERSITY ANNUAL REPORT 2022 45

- introducing the revised Academic Integrity
   Policy mandating academic integrity training
   for students and staff from Session 1, 2022 –
   15,560 students completed the unit, and 720
   staff completed foundation training
- launching the Cheating is Never the Right Answer module to help students identify suspected academic cheating services
- creating in-class resources to support the management of academic integrity breaches for teaching staff
- embedding academic integrity into our Curriculum Lifecycle Framework as part of course accreditation, monitoring and reaccreditation
- making Turnitin Draft Coach available to students for instant feedback on missing citations and text similarity in their written assignments.

In October 2022, the University held its inaugural Academic Integrity Week, which included a Tertiary Education Quality and Standards Agency presentation. This event was designed to foster a positive culture of academic integrity in and outside the classroom. Fifteen sessions attended by about 900 students were facilitated throughout the week.

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#### **MACQUARIE UNIVERSITY COLLEGE**

In 2022, Macquarie University College revised a range of products that included:

- launching three new diplomas Diploma of Business, Diploma of Business Analytics, Diploma of Marketing and Media – taking the award course suite to seven diplomas and 12 undergraduate certificates
- gaining approval for two other diplomas in software engineering and game design and development, and related undergraduate certificates to be launched in 2023
- gaining approval for the College's first microcredential – the Physics Bridging Program.

Several prestigious awards recognised the College's work. The highly successful IELTS Online preparation program and two MOOCs on the FutureLearn platform won the Research and Development Award from the India Australia Community and Business Alliance. The Standard Foundation and Intensive programs became the first university-based programs nationally to be endorsed by the National ELT Accreditation Scheme.

The College delivered the first onshore study tour programs in three years, while the English Medium of Instruction (EMI) Centre delivered its first teacher training programs under the EMI banner and an online global EMI symposium to more than 120 participants.

Other highlights during the year included:

- testing more than 5000 candidates through the IELTS and Pearson test centres
- returning to full in-person learning in July
- · delivering two on-campus graduations
- developing and implementing a new attendance policy to meet the needs of students
- supporting managers acting as board members, committee members or convenors of ELICOS peak bodies and sector organisations
- articulating about 900 students into Macquarie degrees.

#### LIBRARY SERVICES

In 2022, the Library implemented a client-centred digital service model designed to make support available whenever and wherever needed. The Library adopted a students-as-partners approach, where service improvements were made in conjunction with current students, significantly improving learning spaces and online subject and research guides.

Our vast digital collections are vital in supporting learning and teaching. Students accessed Leganto more than 1.1 million times to find unit readings, while MultiSearch was used more than 11.8 million times to access our collections. Changes in academic publishing have presented challenges to providing access to textbooks and required course readings. Participating in new publishing agreements – and e-textbook models – has enabled the Library to increase the availability of these resources for staff and students.

We answered almost 10,000 enquiries via virtual channels and more than 16,000 in-person enquiries. More than 27,000 physical items were loaned to students and staff to support learning and research, of which 6000 items were retrieved from the Automated Retrieval System. In addition, more than 5600 items (electronic and physical) were obtained from other libraries to support higher degree research students and researchers. We also welcomed 811,000 visitors to the Library to use our learning spaces and resources.

Student-facing programs focused on developing transferable skills in information and digital literacy, with technology increasing the reach of our programs and services. In 2022, we supported more than 6400 students to develop information and research skills through online orientation and skills workshops, and conducted more than 1000 online advisory consultations with academics and research students. There were more than a million visits to Library content in StudyWISE and subject and research guides.

Partnerships with academic staff ensured information and digital literacy support were embedded into core curriculum units and program commencement activities.

#### WELLBEING SERVICES

Student Wellbeing offers a comprehensive suite of free and confidential health and wellbeing services that students can access at any time, including after hours, with staff available via phone, teleconference or in-person. Students get the specific support they need – from mental health support to disability support to academic support.

In 2022, we responded to more than 5000 contacts from students and staff. As a result of the Professional Services Transformation Program (see page 76), service delivery changed to ensure any student contacting Student Wellbeing for mental health support had access to best practice assessment, including safety assessment, planning and support.

The reorganisation of the service enabled the Student Wellbeing team to offer more assessments and ongoing counselling appointments, compared to 2021, and a group program to support students whose studies are impacted by mental health. SafeSide Prevention training was rolled out to Student Wellbeing staff to ensure a consistent approach to assessing mental health and risk of self-harm.

Support and education online and on-demand continued to be a crucial part of our mental health support for students. In Session 2, we introduced TalkCampus, an online platform for students to access peer mental health support 24/7 from a global network of up to 12 languages. This platform also provides an accessible option for students located offshore. The MQ Wellbeing app continued to support students' wellbeing. About 1000 students registered to use the app in 2022, and just under 1500 accessed the app regularly. In 2022, we continued to provide an on-demand, online psychological treatment through UniWellbeing – a five-week online program – in collaboration with Macquarie's eCentreClinic. Evaluation from students completing the course continues to show significant improvements in their stress, anxiety and low mood. However, interest in the course has reduced markedly, perhaps reflecting less interest in the online delivery of this content.

In 2022, the Student Wellbeing Accessibility Service saw an increase in the number of students registering for study adjustments due to disability or health conditions, with about 2500 students requiring adjustments during the year. Implementing study adjustments can be complex and may involve

the input and actions of staff – including academic and teaching staff – from multiple areas, such as the Library, IT and Service Connect (see page 76). The team also supports students who have a learning disability through skillshops and assistive technology.

Staff also provide advice and expertise to ensure the learning environment at Macquarie supports wellbeing and access. In 2022, we identified units with high numbers of students requiring adjustments. This information will inform the development of accessible learning and teaching design to reduce the requirement for individual adjustments.

We also support online and in-person education aimed at preventing sexual assault and sexual harassment, and other inappropriate or unwanted behaviours. About 7000 students completed the University's online education in 2022. More than 500 students completed, as part of a student leadership or student group program, in-person education about how to respond to people impacted by sexual harm.

#### **ENGAGING CULTURALLY DIVERSE COMMUNITIES**

The University is committed to ensuring that students from equity backgrounds have equal opportunity to pursue their learning and development needs. Our domestic and international students represent diverse cultures and languages. We collect and analyse data to ensure that our initiatives are supported by evidence and that specific needs are identified.

The Widening Participation Unit (WPU) works to meet the University's commitment to the national widening participation agenda. Funded by the Australian Government's Higher Education Participation and Partnerships Program (HEPPP), our programs and initiatives are designed to increase participation, access and success of groups traditionally under-represented in higher education – such as students from regional and remote areas, low socioeconomic status (SES) backgrounds and Aboriginal and/or Torres Strait Islander peoples.

In 2022, we delivered 17 core programs and collaborated with internal and external stakeholders to facilitate nine joint initiatives across the pre-access, access and participation stages of the higher education student life cycle. This year saw an increase in partnerships with tertiary institutions, industry partners, and

community and not-for-profit organisations. We collaborated with the City Country Alliance of Schools, Country to Canberra, Regional Development Australia Far West, the University of Wollongong (UoW), and Youth Justice NSW – in addition to continued partnerships with Aurora College, the Country Education Foundation of Australia, the Country Universities Centre, the NSW Department of Education, TAFE NSW, The Smith Family, the University of New South Wales (UNSW), and the University of Technology Sydney (UTS).

#### PRE-ACCESS

The WPU's pre-access programs and initiatives benefit students by increasing their awareness of the relevance of higher education, improving their capability to access university education, and enhancing skills that support academic success and prerequisite higher education credentials. In 2022, our pre-access programs engaged 1081 primary and 4169 secondary students from 79 partner schools across New South Wales

Our flagship pre-access programs LEAP ROADS, inROADS and LEAP UP (a mentoring program) were again facilitated with partner schools of students of low SES in remote, regional and metropolitan areas. This year, LEAP ROADS was delivered in collaboration with the UOW's Future Finders Days at UOW Bega and Batemans Bay regional campuses. Over four days, 965 Stage 3 students from 24 primary schools participated in hands-on activities designed to broaden awareness of post-school university pathways. inROADS welcomed 48 Stage 6 students from the Far West and Mid North Coast regions of New South Wales to our Wallumattagal Campus for a four-day program designed to provide firsthand life experience at university. LEAP UP was delivered in a blended format to six South Western Sydney high schools, which saw 95 Stage 5 students from refugee and asylum-seeker backgrounds partnered with 45 Macquarie student mentors.

We delivered the second iteration of the NSW Equity Consortium (NEC) – a longitudinal collaboration between Macquarie University, UNSW, UTS and the NSW Department of Education. The NEC embeds imagined futures ideation into Stage 4 and 5 English key learning areas, with content co-delivered by classroom teachers and 57 student ambassadors from Macquarie. This year, the program reached 840 Year 7 students from five partner schools in west and south-west Sydney. The project's preliminary research findings were presented with UNSW and UTS at the Equity Practitioners in Higher Education Australasia Conference.

The HSC Study Lab – an award-winning HSC preparation tool developed by Macquarie academics and educators – provided free subscriptions to 1213 Stage 6 students and 105 secondary school teachers. The WPU collaborated with the NSW Education Standards Authority to provide free school subscriptions to 19 flood-impacted schools in the NSW North Coast region, enabling 777 Stage 6 students and 74 secondary school teachers to access HSC Biology, Chemistry and Physics courses to support their preparation for HSC examinations.

We continued our commitment to increase awareness across the University of the systemic barriers equity cohorts face and foster a community of equity practice at Macquarie. This included community engagement and advocacy work, involving WPU collaborations with internal and external stakeholders to facilitate community forums, information webinars and career and study expos.

#### ACCESS AND PARTICIPATION

The WPU's access and participation programs directly address equitable access to university by providing targeted pathways and support that empower students to participate and thrive in higher education. In 2022, these programs engaged 487 Macquarie students and 196 academic and professional staff.

The Refugee Transition Program provides students from refugee and asylum-seeker backgrounds with coordinated academic and social support to empower them to confidently navigate the university environment. Students were given access to a dedicated transition officer to connect them with support, services and opportunities provided by the University and other community organisations. Students also received tailored orientation, subject tutoring and academic mentoring, English language support and financial support. In 2022, 71 students from refugee and asylum-seeker backgrounds were supported.



#### **PATHWAYS**

We recognise that students have different strengths, interests and personal circumstances. We also recognise that the Australian Tertiary Admission Rank (ATAR) does not necessarily reflect a student's achievements or potential – especially in light of disruptions caused by COVID-19. Through our range of Macquarie Entry pathways we look at a variety of criteria, including academic results in relevant HSC subjects, Year 11 results, engagement with the local community and previous work or study experience.

#### Macquarie Entry pathways:

- Macquarie Leaders and Achievers Early Entry Scheme
- · Schools Recommendation Scheme
- Academic Entry Program
- · Guaranteed Entry
- · Bachelor pathways
- Aboriginal and Torres Strait Islander Entry Pathway.

#### ADJUSTMENT FACTORS

Students who have completed the HSC, interstate Year 12 examinations or the International Baccalaureate (IB) and included Macquarie in their preferences may be eligible to receive adjustments – additional points that can be added to their ATAR or equivalent admission rank. For many degrees, students can combine our adjustment factor schemes and receive up to 15 additional points.

#### Adjustments include:

- achievement-based adjustments, including Academic Advantage (based on performance in related HSC subjects), Big History Scheme and the Elite Athletes and Performers Scheme
- location-based adjustments, including the Macquarie Catchment Scheme (students living in Macquarie's catchment region may be eligible to receive five additional points) and the Regional Entry Scheme
- equity-based adjustments through the Educational Access Scheme (for students who have experienced educational or social disadvantage, up to five additional points are available).

#### **EQUITY-RELATED SCHOLARSHIP RECIPIENTS 2020-2022**

Scheme	2020	2021	2022
Macquarie University Accommodation Scholarship	85	79	75
Macquarie University Education Costs Scholarship	142	142	165
Macquarie University Higher Study Scholarship	47	50	82
Macquarie University Regional and Remote Support Scholarship			28
Macquarie University Indigenous Grant Program <sup>1</sup>	168	152	
Merit Scholarship	42	62	14
Non-current School Leaver Scholarship <sup>2</sup>	0	0	
Refugee Scholarship	13	15	8
Macquarie University Dunmore Lang College Indigenous Incentive Scholarship <sup>3</sup>	15	16	
Macquarie University Dunmore Lang College Regional and Rural Scholarship	18	16	30
Indigenous Commonwealth Assistance Scholarship <sup>4</sup> ISSP Indigenous Commonwealth Accommodation Scholarship	11	10	13
ISSP Indigenous Commonwealth Education Costs Scholarship	38	29	64
Bridging Grant for Undergraduate Equity Scholarships			15
Total	579	580	494

- 1 Scholarship discontinued from 2022.
- 2 Scholarship has been discontinued
- 3 Macquarie University Dunmore Lang College Indigenous Incentive Scholarship and Macquarie University Dunmore Lang College Regional and Rural Scholarship were offered as one scholarship the Macquarie University Dunmore Lang College Scholarship in 2022.
- 4 Scholarship name changed from the ISSP Indigenous Commonwealth Accommodation Scholarship

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#### STUDENT FEEDBACK AND RESPONSE

At Macquarie, all complaints and feedback are treated seriously, as they provide insights into responding to issues and creating positive change.

In 2022, the Dean of Students assumed responsibility for student complaints, academic appeals and allegations of student misconduct. The Complaints, Appeals and Misconduct (CAM) unit manages student and community complaints, appeals and misconduct matters – and provides support, guidance and training to staff.

#### STUDENT COMPLAINTS

During the year, 302 formal complaint or feedback submissions were lodged, with many issues resolved in consultation with the relevant unit. This number represents a 10 per cent increase in comparison to last year. However, a significant improvement this year was the rate at which complaints received formal investigation. Changes to our complaint policy and procedure enabled the CAM team to resolve complaints more easily without a formal investigation.

Complaints usually fall into one of the following three broad categories.

#### Academic issues

- · Teaching and unit resource quality
- Delays in results and other outcomes, such as academic integrity investigations
- Staff responsiveness and communication

#### Student administration

- Appeals (both grade and academic appeals)
- Student life cycle
- Fees

#### Staff and student complaints

Behaviour-related complaints are managed in a way that facilities and promotes a culture that values and models respectful behaviour by staff and students. The nature of complaints received from community members, mostly parents and alumni, were similar to 2021 – namely, client service dissatisfaction, student wellbeing support, and interactions occurring on and around the Wallumattagal Campus.

The University is reviewing its complaints policy and procedure to ensure that complaints are handled effectively and efficiently. In 2022, we completed or commenced the following initiatives to improve the quality of service provided to students:

- undertaking major upgrades to our Student Care and Reporting Network, known as Advocate, and to the reporting webform
- · delivering procedural fairness and practical decision-making training to staff who deal with complaints
- · improving the complaints website.

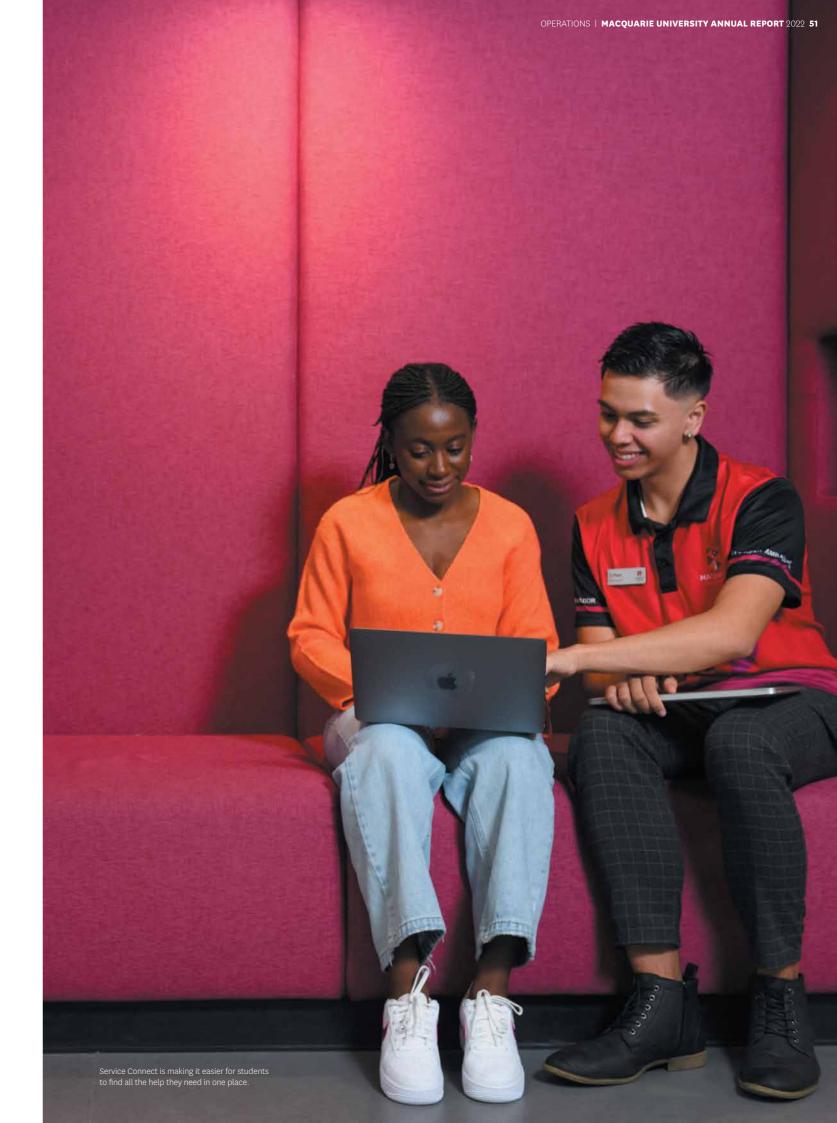
Our academic appeals process allows students to seek a review of academic decisions that affect them to ensure decisions have been made fairly. In 2022, 644 academic appeals were lodged, a rise of 215 per cent from 2021. Most academic appeals sought the review of special consideration outcomes, academic pause or exclusion decision, recognition of prior learning decisions, and faculty grade appeal processes and outcomes.

#### SERVICE AND QUALITY IMPROVEMENTS

With the inception of the new Academic Integrity Policy and Procedure in early 2022, a significant proportion of the case load previously handled by the CAM team was undertaken by faculties. However, there has been a rise in the detection of serious contract cheating, which is expected to continue in 2023. In 2022, the CAM team handled 140 cases of serious misconduct, with fraudulent medical certificates and serious contract cheating predominating.

To ensure the timely handling of matters and maintain student wellbeing even in challenging circumstances, CAM commenced a pilot of the Courageous Conversations model for handling serious misconduct matters. Under this model, students meet with a case manager to discuss the concerns raised prior to more formal action, including by the University's Discipline Committee.

The CAM team ran training sessions with the Office of the General Counsel for staff involved in misconduct decision-making and appeals to ensure consistency and fairness of decision-making at the University. A series of training sessions was also held for faculty and Macquarie University College staff on detecting contract cheating.



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# **Enhancing** employability outcomes

CONNECTING AND COACHING FOR CAREER SUCCESS

# To support career readiness, quality engagement with industry partners was a top priority in 2022.

A key part of the career and employability offerings at Macquarie in 2022 was connecting students to employers. The *Employability Strategy 2021–2025* and its framework guided this effort, as did the post-COVID operating context. Although students returned to campus, pre-COVID ways of working no longer met the needs of students or employers. The Employability and Graduate Success (EGS) team embraced the opportunity to collaborate with faculties to explore and experiment with innovative delivery options to foster students' engagement in their career journey.

Quality engagement with industry partners and employers was also a top priority in 2022, as the

University recognised their invaluable input and contribution to students' employability and career readiness. With the so-called war for talent significantly changing labour market opportunities for students and recent graduates, our PACE (Professional and Community Engagement) program and the Macquarie Student Employment program provided scope for the University to grow and enhance both employment and work-integrated learning opportunities for students. Faculties also widely engaged with industry experts to inform course reviews and ensure our students develop the skills, competencies and confidence needed to transition successfully to the workplace during and after their studies.

The University's efforts to effectively deliver work-integrated learning, STEM skills and industry partnerships were reported in the first annual National Priorities and Industry Linkage Fund report. Furthermore, the University's outstanding reputation for career and employability outcomes was recognised by some of the most prestigious employers in Australia. For example, the Career and Employment Service team was a finalist in the Australian Association of Graduate Employers Awards for Most Popular Careers Service based on employer votes.

#### EMPLOYABLE (YOU)<sup>US</sup> SERIES AND OTHER KEY EVENTS

In August 2022, the five-week Employable (You) series was delivered by the EGS team on topics from career planning options to gaining experience to personal branding. The series, attended by more than 400 students, highlighted and shared insights from career coaches, graduates and industry experts on ways to be more employable, how to gain relevant experience, the ins and outs of recruitment processes, and how to get the most from work-integrated learning and PACE units.

The Employable (You)" series culminated in the Jobs Happy Hour in October 2022, sponsored by the City of Ryde and attended by more than 350 students and 23 employers based in the Connect Macquarie Park Innovation District (CMPID). Students, new graduates, strategic CMPID industry partners, City of Ryde representatives –including Mayor Jordan Lane – Macquarie Student Employment partners and staff attended the event designed to promote job opportunities. The event, which received positive feedback, also enabled industry partners to connect with Macquarie staff to better understand how their organisation can engage with our programs.

The inaugural Engineering Student Employability Conference was held in November with the Faculty of Science and Engineering and industry partners. More than 100 engineering students participated in the conference, focusing on career readiness, networking and internship or employment opportunities.

#### **DEVELOPING EMPLOYABILITY SKILLS**

In March 2022, a new Skills Development Program was launched including the Employability Skills Guide, which outlines 15 skills highly sought after by employers. In a five-week program held in Session 1 and Session 2, participating students explored and applied these skills, and received feedback from career coaches and peers. Students who completed the program were awarded a microcredential and Australian Higher Education Graduation Statement recognition.

#### EMPLOYABILITY CONNECT AND MACQUARIE STUDENT EMPLOYMENT

The Employability Connect student portal continued to grow and positively engage our students. In line with the digital and tiered-service models, Employability Connect offers students on-demand access to key resources and tools that support their career development. There were more than 213,000 student and graduate logins in 2022, reflecting an increase of more than 50,000 (33 per cent) from 2021. In addition, there were 7408 paid roles advertised on the platform, and new content was introduced to provide relevant and tailored information for graduate research candidates.

To further support student engagement and effective communication, the Macquarie Employability Connect Facebook group was launched in March and grew to more than 1300 members in 2022. The platform is driven by student-centred content developed by student creators on work-integrated learning projects and in paid casual roles.

Significant expansion of the Macquarie Student Employment program continued in 2022, with a more than 50 per cent increase in activity compared with the previous year. The team received almost 10,000 job applications and placed nearly 500 students in roles, a figure that is likely to be higher given many employers accept applications directly. Macquarie Student Employment also supported the introduction of the University's first graduate development programs in procurement and finance, as well as the recruitment for key roles in orientation, belonging and student success.



#### INDUSTRY CONNECTIONS AND EMPLOYER INSIGHTS

In May 2022, the EGS team represented the University at the MPEXPO – Macquarie Park Innovation Showcase. They highlighted ways local workplaces can engage in our career and employability activities to deliver significant value to partners and positively benefit student success.

This event was followed by an industry roundtable in June 2022 – co-hosted by Professor Taryn Jones, Pro Vice-Chancellor (Programs and Pathways) and Professor Dominique Parrish, Pro Vice-Chancellor (Learning and Teaching). This initiative sought to gather feedback on the Employability Strategy and framework. Attendees also discussed strategies for delivering on Macquarie's commitment to enhance the employability and job-readiness of students. Evaluation feedback from industry representatives affirmed the value of the discussion, and 100 per cent of industry respondents indicated they were strongly interested in co-designing Macquarie courses, as well as learning activities and assessment tasks within courses.

#### **QUALITY WORK-INTEGRATED LEARNING**

In 2022, the PACE program continued to offer students opportunities to hone their problem-solving and critical thinking abilities, as well as their cultural competence and creativity. Since the program was established, more than 30,000 undergraduates have completed a PACE unit as part of their studies. In 2022, 6233 students were allocated to PACE activities and more than 1000 external partners and organisations were involved in the program.

To recognise the quality outcomes from the PACE program for students, partners and the University, we adopted a refreshed approach to the annual PACE prizes. In addition to student prizes, we celebrated the inaugural partner prize and staff prize to recognise the generosity and commitment of key stakeholders. After two years of restrictions, a successful in-person award ceremony was held, with 43 PACE prizes awarded.

The new Work Integrated Learning Policy, informed by consultations, was developed in 2022 to ensure the quality of all work-integrated learning experiences through the PACE program and other units. Approved in November by the Academic Senate, the policy will be implemented during 2023 by faculties through curriculum and course review processes.





The PACE program continued to give students opportunities to hone their employability skills in settings linked to their career goals.

## Research at Macquarie

**DISCOVERY DRIVEN BY HUMAN-POWERED INNOVATION** 

#### RESEARCH EXCELLENCE

Macquarie academics and discipline groups continued to be named in the top echelon of researchers worldwide.

In the 2022 World's Top 2% Scientists list prepared by Elsevier BV and Stanford University, 132 Macquarie researchers were featured. The study combines several metrics to systematically rank the most influential scientists by field as measured by citations.

The annual Clarivate Highly Cited Researchers list, which spans 69 countries or regions across science and social science fields, identifies researchers who demonstrated significant influence in their chosen field or fields during the past decade. Two Macquarie researchers were recognised for their broad influence, reflected in multiple highly cited papers:

- Emeritus Professor Richard Kefford AM (Faculty of Medicine, Health and Human Sciences) identified in the Clinical Medicine category for the past six years
- · Associate Professor Richard McDermid (Faculty of Science and Engineering) identified in the Space Science category for the past two years.

The Australian newspaper's Research Magazine 2023 ranked Macquarie in the top 10 Australian entrepreneurial universities. Our number nine ranking confirms the impact of our innovation and enterprise programs. In addition, the University was well represented across many areas, with the following researchers named among the country's most influential researchers in their field:

- Dr Jelle Bruineberg epistemology and scientific history, and philosophy
- · Honorary Professor Robert Dale computational linguistics
- · Professor Anand Deva plastic and reconstructive surgery
- · Professor John Dumay accounting and taxation
- Professor Xuan Duong geometry
- and ethology.
- The University was also named the top research institution in 11 fields:
- · Accounting and taxation
- · Acoustics and sound
- · Animal behaviour and ethology
- · Computational linguistics
- · Early childhood education
- · Epistemology and scientific history
- · Foreign language and learning
- Geometry
- · Otolaryngology
- · Plastic and reconstructive surgery
- · Philosophy.

#### **RESEARCH INCOME BY YEAR**

Year	Category 1 TOTAL	Category 2 TOTAL	Category 3 TOTAL	Category 4 TOTAL	TOTAL
2012	\$27,705,362	\$3,809,617	\$11,521,272	\$1,240,812	\$44,277,063
2013	\$30,801,252	\$4,972,895	\$11,716,863	\$1,151,274	\$48,642,284
2014	\$38,590,396	\$3,726,483	\$14,869,211	\$742,748	\$57,928,838
2015	\$42,998,190	\$6,166,576	\$16,962,440	\$1,195,121	\$67,322,327
2016	\$37,728,703	\$8,299,327	\$17,815,542	\$1,683,722	\$65,527,294
2017	\$34,608,224	\$10,763,212	\$17,640,793	\$2,724,362	\$65,736,591
2018	\$36,970,931	\$6,747,584	\$23,387,790	\$2,938,601	\$70,044,906
2019	\$43,636,814	\$12,474,933	\$27,081,369	\$2,376,987	\$85,570,103
2020	\$41,276,075	\$8,749,163	\$33,851,220	\$1,891,241	\$85,767,699
2021	\$46,773,659	\$13,252,599	\$35,056,403	\$1,657,913	\$96,740,574
2022*	\$43,463,494	\$12,430,449	\$39,922,649	\$2,106,573	\$97,923,166

<sup>\*</sup> Figures are unaudited at the time of publication. Final audited figures will be available in June 2023.

Macquarie received **\$97.92 million** in competitive external funding in 2022.\*

Three Macquarie researchers were accepted into the 2023 Australian Research Council (ARC) College of Experts, ensuring we have a continuing role in shaping research excellence and innovation

- Professor Tiffany Jones Faculty of Arts
- Associate Professor Tristan Kennedy Faculty
- Professor Fei Guo Macquarie Business School In 2022, Macquarie had 13 members on the ARC College of Experts:
- · Honorary Professor Elizabeth Pellicano -Faculty of Arts
- · Professor Kristian Ruming Faculty of Arts
- · Professor Ingrid Piller Faculty of Medicine, Health and Human Sciences
- · Professor Daniela Traini Faculty of Medicine, Health and Human Sciences
- · Professor David Coutts Faculty of Science and Engineering
- · Distinguished Professor Michael Gillings -Faculty of Science and Engineering
- · Professor Paul Haynes Faculty of Science and Engineering
- · Associate Professor Yijiao Jiang Faculty of Science and Engineering
- · Professor Annabelle McIver Faculty of Science and Engineering
- · Professor Alison Rodger Faculty of Science and Engineering

· Associate Professor Yuling Wang - Faculty of Science and Engineering

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- · Honorary Professor Martina Linnenluecke -Macquarie Business School
- Associate Professor Kompal Sinha Macquarie **Business School**

Three current distinguished professors were awarded the title for an additional term:

- Naguib Kanawati Faculty of Arts
- · Ron Rapee Faculty of Medicine, Health and Human Sciences
- · David Throsby Macquarie Business School. Other esteemed distinguished professors are:
- · Katherine Demuth, Anne Castles and Ingrid Piller - Faculty of Medicine, Health and **Human Sciences**
- Stephen Foley, Michael Gillings, Lesley Hughes, Michelle Leishman, Nicki Packer, Ian Paulsen, Phillip Taylor and Michael Withford - Faculty of Science and Engineering
- · Deborah Schofield Macquarie Business School.



#### HIGHER DEGREE RESEARCH ENROLMENTS AND COMPLETIONS

In 2022, 481 higher degree research candidates completed their degrees, including 210 Doctor of Philosophy (PhD) candidates and 271 Master of Research candidates. These numbers demonstrate the value of our commitment to the Master of Research.

#### **HIGHER DEGREE RESEARCH COMPLETIONS 2019-2022**

	2019	2020	2021	2022
Total	560	455	528	481

#### **HIGHER DEGREE RESEARCH ENROLMENTS 2019-2022\***

	2019	2020	2021	2022
Total	2130	1973	2028	1953

\*HDR enrolment numbers include BPhil enrolments

#### **RESEARCH OUTPUTS**

In 2021:

- · Macquarie researchers published 4237 research outputs (HERDC, 2022)
- book-based publications made up 6.8 per cent of research publications
- 38.5 per cent of publications were published in the top 10 per cent of journals and 5.4 per cent in the top one per cent (ranking by CiteScore; source SciVal)
- researchers from 135 countries collaborated with Macquarie (Source: SciVal)
- research published in peer-reviewed journals accounted for 87.5 per cent (3709)
- · conference-based publications accounted for 5.6 per cent of total research outputs in the
- 127 researchers published in the top one per cent cited publications (by citations for field and year) in 67 different four-digit Field of Research areas (Source: SciVal).

Verified HERDC 2022 records (published in 2021). Annual research output data (for research published from 1. January 2022 to 31 December 2022) will be reported on 31 December 2023 to allow

#### RESEARCH, INNOVATION AND ENTERPRISE

The University established a new function in the Deputy Vice-Chancellor (Research) portfolio to professionalise Macquarie's approach to external partnerships. Throughout 2022, the Partnerships team continued to develop and manage complex institutional-level relationships between Macquarie and key partners - such as Cochlear, NextSense, Optus, Fujitsu and Horticulture Innovation Australia.

We achieved a milestone with the registration of Celosia Therapeutics, created to deliver gene therapies for neurodegenerative conditions and manage intellectual property. In addition, other researcher-led spin-outs were established: Number 8 bio, Redback Systems, and HydGene Renewables.

Increased effort and focus on the defence sector have generated positive returns and growth in income.

To be formally launched in 2023, the DeepTech Incubator will provide wet lab infrastructure and office space for startups. The new incubator will increase the profile and breadth of the Macquarie innovation ecosystem.

MicroBioGen, a yeast-focused biotech Macquarie spin-out company, opened state-of-the-art R&D laboratory facilities in Macquarie Park, near the ARC Centre of Excellence in Synthetic Biology and the Biofoundry.

stakeholders - government, corporate, alumni, donors and the community, with particular emphasis on broadening and consolidating engagement with the Connect Macquarie Park Innovation District (MPID). Connect MPID was formally launched under MPID business leadership, with a new activity road map in place and Macquarie's involvement on its board. The Greater Cities Commission was secured as a core partner of Connect MPID.

learning and teaching partnerships, including the inaugural Jobs Happy Hour. This initiative was delivered with the City of Ryde, supported by 22 industry partners, and attended by more than

Research partnership coordination and support continued with activities related to the Meadowbank Education and Employment Precinct

research growth and performance can be found on page 72. Details of grants awarded in 2022 are found on page 170.

Macquarie also continued to engage with external In terms of publications, 38.5 per cent were published in the top 10 per cent of journals and 5.4 per cent in the top one per cent of journals. We recommenced activities post-COVID to grow and the Western Sydney Aerotropolis. Additional information about Macquarie's strategic registration of Celosia Therapeutics to deliver ger

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Ranking by CiteScore. Source: SciVal

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## **Human resources**

#### LEADING A THRIVING, PRODUCTIVE WORKFORCE

Work commenced to enhance management capability of new managers and build connections across the University.

At Macquarie, we encourage staff to bring their knowledge and dedication to a campus powered by human collaboration. We strive to create a culture that emphasises adaptability, nurtures individual and collective capabilities to achieve our education and research aspirations, and ensures student and staff success.

#### STRATEGY AND SERVICE

In 2022, Human Resources (HR) continued providing services to the University and its entities. Following a long period of remote working during COVID-19 lockdowns, we provided support for the return to campus workforce plan and played a key role in developing and implementing a new framework for work flexibility. We led the implementation of a range of support measures to alleviate the impacts of the COVID-19 pandemic, including providing two wellbeing days for staff to rest and recharge.

HR commenced negotiations on a new enterprise agreement for academic and professional staff, and continued negotiations for the Macquarie University College and English Language Centre.

David Ward, the newly appointed Chief People Officer, took on leadership of the program board for the 'Our people' stream of our Operating Plan. Throughout the year, the board oversaw the release and implementation of the Flexible Work Framework (see page 74). The board also oversaw the establishment of the University's Senior Leaders Forum and the development of a new leadership development framework. The forum and framework, focused on building a strong community of leaders, support senior leaders as custodians for realising the University's vision and aspirations.

HR continued its essential role in steering workplace transformation through the Professional Services Transformation (PST) workstreams (see page 76). During the year, new models of service delivery in faculty administration and student services were implemented; support for the reorganisation of the Library was provided; and Payroll, IT Services, Finance Shared Services, Student Services, and Admissions and Scholarships were transitioned to the newly established Shared Services function.

#### STAFF DEVELOPMENT

During 2022, the HR team reviewed and expanded the range of staff development programs and workshops delivered in person and online. Recent additions to our offerings included leadership, wellbeing, productivity and time management, project management, communication and influencing.

Following the implementation of the PST, work commenced to enhance management capability of new managers and build connections across the University. New staff development programs included the online Manager Essentials Program and the Manager Mastery Program, a three-month program that has been successfully piloted with positive feedback. In 2023, this program will be offered across the University.

The University undertook a comprehensive review of staff compliance training and developed a new suite of online compliance training to build staff awareness and support a culture of respect, safety and inclusion. The training includes a new Welcome to Macquarie onboarding module and an Ethical Employee module.

#### STAFF ENGAGEMENT AND CULTURE

In November 2022, we celebrated the Vice Chancellor's Excellence Awards for Professional Staff at an event attended by about 300 people. This year, two new categories were introduced: Diversity and Inclusion, and a one-off Agility Award for pandemic response. In addition, it was the first time the Professional Staff Awards and the Learning and Teaching Awards were held jointly. Award winners are listed on page 16.

Work commenced on developing the Professional Staff Service Charter to provide clarity and consistency in our service approach to deliver a truly leading experience for our students and customers.

#### STAFF NUMBERS (FTE)1

Category	2020	2021	2022
Academic	1730.7	1551.5	1617.9
Professional	2006.4	1841.3	1834.6
Total	3737.1	3392.8	3452.5

 $<sup>^{1}</sup>$  Includes continuing, fixed-term and casual staff FTE as at 31 March (government-submitted numbers).

#### NUMBER OF SENIOR EXECUTIVE STAFF <sup>2</sup>

	202	2020		2021		22
	М	F	М	F	М	F
Band 3 (Vice-Chancellor)	1	0	1	0	1	0
Band 2 (Deputy Vice-Chancellor)	3	1	2	1	3	0
Band 1 (Executive Group)	4	2	4	2	4	2
Subtotal	8	3	7	3	8	2
Total	1:	L	1	0	3	.0

<sup>&</sup>lt;sup>2</sup> Numbers as at 31 December 2022

#### AVERAGE SENIOR EXECUTIVE SALARY

Band	Range	2021	2022
Band 3 (Vice-Chancellor)	\$1,000,000-\$1,099,999	\$1,050,000	\$1,050,000
Band 2 (Deputy Vice-Chancellor)	\$500,000-\$599,999	\$550,000	\$560,000
Band 1 (Executive Group)	\$400,000-\$499,999	\$470,000	\$480,000

In terms of employee-related expenditure, 0.9 per cent of employee related expenditure was related to senior executives in 2022. Professional and academic staff covered by an enterprise agreement received a wage increase of two per cent. The recommended increase for staff employed on individual contracts was two per cent. There were no other exceptional movements in wages, salaries or allowances.

## **Engagement**

#### EXTENDING MACQUARIE'S GLOBAL REACH

#### ALUMNI

Macquarie's alumni community continues to grow by almost 10,000 each year, with more than 225,000 living alumni located in over 155 countries. This growth is also reflected in the high demand for both alumni to reconnect and for the University to connect with them. Alumni activities returned to more in-person events with more than 60 held across Australia and a wide range of locations throughout the world. These connections extended the global reach of Macquarie and aided the continued growth of Macquarie's global reputation. They provided support for current students, for research and recruitment of prospective students and for the employment of their fellow alumni.

A key priority for 2022 was understanding the changing needs of our alumni and, in particular, the transition from students to alumni, with the aim of encouraging and promoting lifelong connections. Identifying the needs of our new graduates became a focus and involved engaging current students in a PACE unit to support program development. Alumni from all stages of their life cycle were also invited to participate in research underpinning planning for future years.

#### **PHILANTHROPY**

Philanthropy continued to grow in 2022, with \$21 million raised. This outcome is outstanding in yet another challenging year when the flow-on effects of COVID-19 were felt by donors and partners globally, and maintains the trajectory of our goal to raise \$200 million by 2024.

Over the last 12 months, generous donors have continued to support the University's mission to drive innovation, undertake life- and world-changing research, improve lives and make a difference. However, a shift in focus was needed to face the year's challenges, and in 2022, we focused on strengthening relationships with alumni, friends and donors.

The Philanthropy team has been reconfigured to focus on key priority areas outlined in *Our University: A Framing of Futures* and the *Macquarie University Operating Plan* 2020–2024. The team's vision is to create a lasting and impactful legacy for the University, students, academics, researchers and the community – through building deep relationships and raising funds in an ethical, transparent and sustainable way.

The focus of our frontline fundraisers was on building connections and the pipeline of supporters. The annual appeal program helped re-engage with Macquarie's alumni base to support student scholarships and medical research.

The Macquarie University Art Collection is integral to on-campus community life, and artworks are displayed across campus for the enjoyment of students, staff and visitors. We continued to receive generous gifts of artwork through our Cultural Gifts Program, with more than \$13 million in donations enriching the University's cultural assets not only for aesthetic purposes but also for research, learning and teaching engagement.

Community fundraising continues to be severely impacted by COVID-19, resulting in the cancellation of a number of high-profile fundraising events. The loss in income across community giving was mitigated by the strong uplift in major gifts, trusts and foundations.

#### **BRAND AND RECRUITMENT**

The University ran brand and recruitment campaigns for academic sessions using the existing suite of creative assets with minor optimisations. All key messages focused on employability, with campaign media including outdoor, cinema, radio, online video, social and search. In addition, we launched two bespoke campaigns: one targeting parents to increase awareness, consideration and recommendation – and one targeting the Central Coast region to broaden our brand presence among key geographies to enable future growth

In July 2022, our Open Day campaign went live in Sydney and the NSW Central Coast, with activity across outdoor, radio, social and search. This event was one of the first opportunities to invite prospective students to experience our revitalised campus post-COVID-19, and had an outstanding response. The campaign generated 12,210 event registrations, of which 7942 were new.

We increased our focus on paid social media channels and content, specifically TikTok where our undergraduate audience spends significant time. Across all campaigns during the year, we reported 42,255 leads generated, a 17 per cent increase from the previous year.

As of December 2022, brand health and campaign tracking research shows that exposure to the brand and recruitment campaign continue to impact brand health positively. We are seeing strong recovery across awareness in the category, and total campaign recognition over time is stronger than ever, with 68 per cent of the total target audience recalling the campaign. Survey participants who recalled any element of the campaign also showed stronger awareness, consideration, recommendation and preference than those not exposed.

#### **MEDIA REACH**

The appetite for research-backed news continued among our audiences on a quest for information they could trust, with the University's multimedia publishing platform, *The Lighthouse*, promoting content relating to energy prices, shark behaviour, secondary education and clinical trials.

Driven by the University's academic expertise, The Lighthouse continued its rapid audience expansion delivering 620,400 unique page views by year's end (up by 2.8 per cent on 2021), pushing total traffic numbers in the five years since launch past two million hits.

As the foundation of the University's external communications strategy, *The Lighthouse* and Macquarie's social media channels are the key drivers for generating media coverage of our research and academics and for building reputation and renown.

The launch of a new brand storytelling page – MQ Life – aligned to the University's advertising campaign aimed at school-leavers, showcases teaching staff, new campus facilities and graduate curees stories

Mainstream and industry media helped us to cement our position as a source of video-enhanced research news stories, topical, evidence-based opinion articles and explainers. There were more than 2300 pieces of tier-one coverage in 2022, which translated to a potential worldwide reach of more than 24 billion across the year.



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#### **GOVERNMENT INFORMATION (PUBLIC ACCESS) ACT 2009 (NSW)**

Macquarie actively makes information available through its website and media releases and seeks to provide information consistent with the *Government Information (Public Access) Act* 2009 (GIPA Act). Information held by the University is accessible either by searching the University's website or by contacting the University.

Macquarie assesses requests for information held by the University to determine whether the information is readily available, can be disclosed by proactive release or informal release, or requires a formal application. The fee for a formal GIPA Act application in 2022 was \$30.

In 2022, responsibility for compliance under the GIPA Act was assigned to the Manager Records and Archives, in the Office of the General Counsel.

On 7 December 2021 the Information Commissioner notified the University of an impending review of a decision made by Macquarie University on 9 June 2021 under the GIPA Act. The Information Commissioner provided a report about the decision on 18 March 2022. Two recommendations were made under the GIPA Act.

- the University make a new decision by way of internal review (Section 93 of the GIPA Act)
- the University take into consideration the guidance provided in the report (Section 92 of the GIPA Act).

Subsequently, a new decision was determined and sent to the applicant on 11 April 2022. (Note: the new decision was not treated as a 2022 matter for the purpose of inclusion in the tables that follow).

On 19 December 2022, the Information Commissioner notified the University of an impending review of a decision made by Macquarie University on 26 August 2022 under the GIPA Act. The outcome of this review will be reported in the 2023 Annual Report.

From 1 January 2022 to 31 December 2022, the University received one informal and eight formal access applications for information (see Table B).

All applications were determined in line with statutory timeframes and/or with agreement from the applicant. Six applications resulted in a partial release of information. For one application, the information requested was not available. For two applications, the information requested was withheld.

A further application was assessed and responded to as an informal request for information. In 2022, there were three applications that required third-party consultation.

The University is obliged to report on GIPA Act applications received and transferred to another agency, either at the University's or the applicant's initiation. From January 2022 to 31 December 2022, no applications were transferred to another agency.

The statistical reports that follow (Table A to Table H) correspond to Schedule 2 of the Government Information (Public Access) Amendment Regulation 2010.

GIPA Act access application forms can be found on the University website **mq.edu.au** 

For lodgement of applications by email, in person or by post:

The Right to Information Officer Room 120, The Chancellery,

19 Eastern Road

Macquarie University NSW 2109

**T:** (02) 9850 7362

E: gipa@mq.edu.au

#### TABLE A: NUMBER OF APPLICATIONS BY TYPE OF APPLICANT AND OUTCOME

	Access granted in full	Access refused in full	Access granted in part	Information not held	Information already available	Refuse to deal with application	Refuse to confirm/deny whether information is held	Application withdrawn
Media	0	0	3	0	0	0	0	0
Members of parliament	0	0	0	0	0	0	0	0
Private sector business	0	0	0	0	0	0	0	0
Not-for-profit organisations or community groups	0	0	2	3	0	0	0	0
Members of the public (application by legal representative)	0	0	1	1	0	0	0	0
Members of the public (other)	1	1	2	0	1	0	0	0

#### TABLE B: NUMBER OF APPLICATIONS BY TYPE OF APPLICATION AND OUTCOME

	Number of applications
Personal information applications	4
Access applications (other than personal information applications)	5
Access applications (partly personal and partly other information applications)	0

#### **TABLE C: INVALID APPLICATIONS**

	Number of applications
Application does not comply with formal requirements (Section 41 of the Act)	0
Application is for excluded information of the agency (Section 43 of the Act)	0
Application contravenes restraint order (Section 110 of the Act)	0
Total number of invalid applications received	0
Invalid applications that subsequently became valid applications	0

#### TABLE D: CONCLUSIVE PRESUMPTION OF OVERRIDING PUBLIC INTEREST AGAINST DISCLOSURE: MATTERS LISTED IN SCHEDULE 1 OF THE ACT

Number of times consideration used

Number of applications for review

	Number of times consideration used
Overriding secrecy laws	0
Cabinet information	0
Executive Council information	0
Contempt	0
Legal professional privilege	3
Excluded information	0
Documents affecting law enforcement and public safety	0
Transport safety	0
Adoption	0
Care and protection of children	0
Ministerial code of conduct	0
Aboriginal and environmental heritage	0

#### TABLE E: OTHER PUBLIC INTEREST CONSIDERATIONS AGAINST DISCLOSURE: MATTERS LISTED IN SECTION 14 OF THE ACT

	Number of occasions when application not successful
Responsible and effective government	3
Law enforcement and security	0
Individual rights, judicial processes and natural justice	2
Business interests of agencies and other persons	0
Environment, culture, economy and general matters	0
Secrecy provisions	0
Exempt documents under interstate freedom of information	0

#### **TABLE F: TIMELINESS**

	Number of applications
Decided within the statutory timeframe (20 days plus any extensions)	8
Decided after 35 days (by agreement with applicant)	1
Not decided within time (deemed refusal)	0

#### TABLE G: NUMBER OF APPLICATIONS REVIEWED UNDER PART 5 OF THE ACT (BY TYPE OF REVIEW AND OUTCOME)

	Total
Internal review	0
Review by the Information Commissioner	1
Internal review following recommendation under Section 93 of the Act	0
Review by the NSW Civil and Administrative Tribunal	0

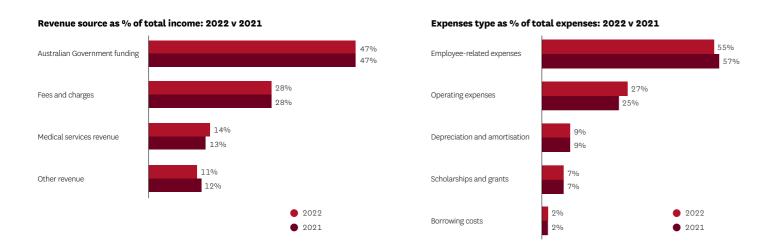
#### TABLE H: APPLICATIONS FOR REVIEW UNDER PART 5 OF THE ACT (BY TYPE OF APPLICANT)

Applications by access applicants	1
Applications by persons to whom information the subject of access application relates (see Section 54 of the Act)	0

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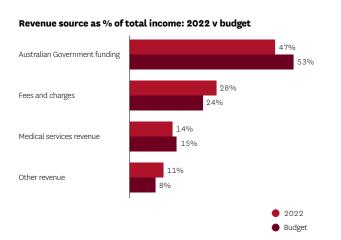
# Financial performance

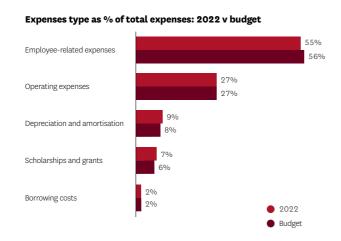
#### **UNAUDITED STATEMENTS**



Total income from continuing operations decreased by 3.06 per cent to \$1146 million, mainly driven by decrease in investment income and lower international teaching revenue. Other major income streams remain stable year-on-year.

Expenses totalled \$1183 million, an increase of 5.56 per cent. Growth in expenses was driven by consultants and contractors expenses and travel and training costs, after restrictions on international and domestic travel were removed.





The Group assesses performance against detailed budgets, which are formally approved by the Council. Performance against targets is reviewed by senior management each month.

Results for 2022 are close to budget, as evidenced in the above graphs.

#### **PROMOTION AND TRAVEL**

In 2022, the University spent \$13.1 million on travel and staff development compared to the 2021 spend of \$3 million. Restrictions on international and domestic travel due to COVID-19 were removed in 2022.

#### **PAYMENT OF ACCOUNTS**

The University's terms of credit in respect of its creditors are 30 days. In 2022, 84 per cent of invoices were paid in accordance with these terms. During the year 100 per cent of Australian dollar payments were made by electronic funds transfer.

#### AGED ANALYSIS AT THE END OF EACH QUARTER

Quarter	Current (within due date) \$'000	Less than 30 days overdue \$'000	30-60 days overdue \$'000	61+ days overdue \$'000
March	6842	592	560	384
June	11,557	342	155	56
September	8018	399	107	190
December	8323	3726	712	191

#### INVOICES DUE OR PAID WITHIN EACH QUARTER

Measure	March	June	September	December
Number of invoices due for payment	8584	9419	10,399	10,116
Number of invoices paid on time	6579	8388	8903	8739
% of invoices paid on time (based on number)	77%	89%	86%	86%
Dollar amount of invoices due for payment	106,716,444	88,715,005	96,821,119	105,804,886
Dollar amount of invoices paid on time	79,900,565	78,570,212	87,180,125	94,995,291
% of accounts paid on time (based on value)	75%	89%	90%	90%



## **Students first**

# PRIORITISING OUR STUDENTS' PERSPECTIVE IN OUR DECISION-MAKING

We have strengthened our commitment to focus explicitly on our current and future students and alumni – their education and their success. Achieving this goal means that we are adopting user-centric frameworks and plans to drive an excellent experience and outcomes in every dimension of students' interactions with the University. Every decision regarding education and student experience first considers the perspective of students and their success.

#### STUDENT EXPERIENCE

Overall student experience at Macquarie is measured through the Quality Indicators for Learning and Teaching Student Experience Survey (SES) across seven indicators: overall educational experience, overall quality of teaching, skills development, learning resources, learner engagement and student support.

The 2021 SES results released in August 2022 showed Macquarie leading the Sydney-based universities in four indicators, including overall undergraduate educational experience. For example, our results demonstrated that Macquarie is leading in the following areas:

- overall educational experience, even for the two years we were severely impacted by COVID-19
- · overall quality of teaching
- · teaching quality and learning resources
- international student overall educational experience
- five study areas: agriculture, business and creative arts, medicine, psychology, and science.

Postgraduate results were above the Sydney average for a number of indicators and demonstrated that the University:

- $\bullet \ \ improved\ across\ all\ quality\ indicators\ except\ student\ support$
- · received a score for teaching quality of 80 per cent (above the national average)
- $\bullet \ \ performed above the \ national \ average \ in \ skills \ development, learning \ resources \ and \ learner \ engagement.$

#### SERVICE EXPERIENCE

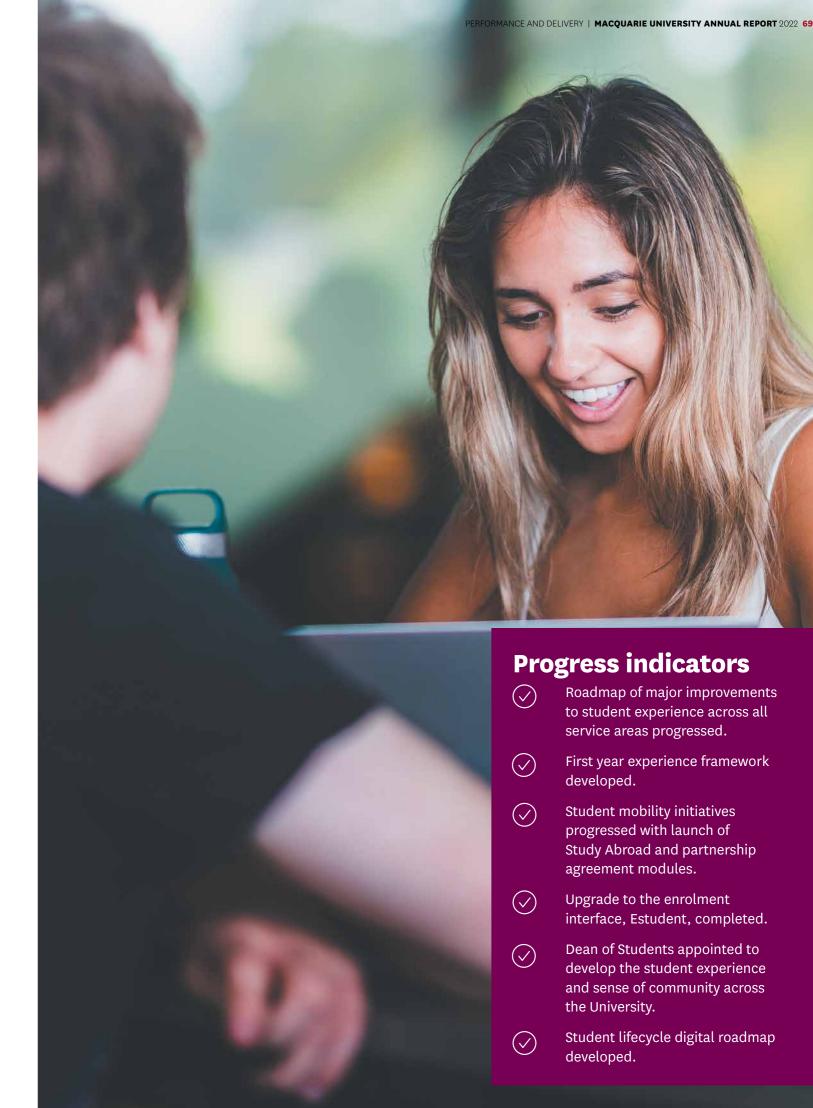
An essential component to overall student experience is the experience students receive when requiring support and services. Following the review of student support services and establishment of the new student service delivery model, the University is undertaking a program of work to define the future state student service experience and establish a service architecture to support this experience, enabled through data and insights.

#### **EDUCATION EXPERIENCE**

Graduate employment outcomes are an important measure of student success. Significant progress has been made in developing sophisticated reporting that monitors student success on a more timely basis – moving from lag indicators to lead indicators. Our enhanced student reporting for student success covers benchmarked student success from government aggregated data – as well as course success, unit success and unit engagement, measured after the first six weeks.

In response to Session 1, 2022, unit success reporting, a number of units were flagged for further review, with faculties actively implementing strategies to address issues identified through this process. Unit engagement reporting looks at rates at which students have completed activities set for the unit, as well as the success rates of the assessment of those activities.

The next area of focus is tracking student retention to understand the movement of students between courses and faculties versus leaving the University entirely. Appropriate retention strategies are already being developed in response to this data, which will be followed by tracking overall student completion or progression to monitor the ultimate success of completing a course.



# Coursework suite and delivery

PROVIDING EXCEPTIONAL QUALITY IN OUR COURSES, LEARNING AND TEACHING

We are extending our work on our renewed curriculum architecture to enhance the attractiveness, viability and sustainability of our coursework suite and its delivery. The University is continuing to move towards a more efficient and better targeted suite of courses for the future. Our efforts are concentrated on achieving student success and on providing exceptional quality in our courses, teaching and student engagement. To support this, we are matching our modes of engagement with the needs and expectations of contemporary students.

#### QUALITY ASSURANCE, IMPROVEMENT AND ENHANCEMENT

A new approach to quality assurance, improvement and enhancement of our curriculum was implemented in 2022. Underpinned by the Curriculum Lifecycle Framework, a suite of new policies and procedures was activated to provide a rigorous and best practice approach to monitoring and reviewing all courses, course components and units

The centrepiece of this framework is a new course reaccreditation process. In 2022, this process involved 12 panels reviewing 38 courses from the Faculty of Arts; the Faculty of Medicine, Health and Human Sciences; the Faculty of Science and Engineering; the Macquarie Business School; and the Graduate Research Academy. The review panels consistently recognised the:

- hard work and dedication of academic and professional staff, particularly in supporting students throughout the COVID-19 pandemic
- successful integration of Indigenous curriculum into many courses
- · high levels of student satisfaction
- · excellent employability outcomes.

#### MICROCREDENTIAL PROGRAM

In response to a long-term structural shift in the Australian workforce and expectations that the number of jobs in transferable-skill intensive occupations is expected to grow at more than twice the rate of jobs in other occupations, the University undertook a strategic initiative to establish a microcredential program.

Designed to meet the evolving world of work and industry needs, and give individuals the opportunity to demonstrate their discrete learning, capabilities and achievements, Macquarie's microcredential courses are targeted, accessible, portable, concise and scalable, and allow students to tailor their studies to their career goals and responsibilities.

Academic and technical infrastructure was delivered to support the microcredential life cycle. For example, resources to support staff to develop and deliver microcredentials were offered and fee-payment integration with the microcredential shopfront delivered. Microcredentials released in 2022 drew on our strengths in finance, river management, leadership, negotiation, and strategic thinking.



# Focused investment in research

#### INCREASING THE IMPACT OF OUR DISCOVERIES

We direct investment in defined areas of strategic research and research training – based on excellence (existing or emerging), performance and growth - aligned with a refresh of our 10-year Strategic Research Framework, Research Strategy 2025. We are accelerating growth and diversification in external income sources to support our research mission. Reputation and renown for the University, as measured through the University's rankings strategy, are drawn significantly from an emphasis on the quality, excellence and impact of our research.

#### **IMPROVEMENTS IN RANKINGS**

Macquarie's position in the *Times Higher Education* (THE) World University Rankings, 2023, improved significantly from 192 in 2022 to 175 in 2023 – a move of 17 places internationally and from 11 to 10 nationally. Two key drivers for improved rankings were industry income increases per academic staff member and improved scoring on citations. The 2023 THE ranking data placed Macquarie at the top of the peer group range for industry income per researcher (full-time equivalent), reflecting an externally engaged workforce.

In the QS World University Rankings, 2023, Macquarie's standing improved five places since 2022 to a ranking of 195th in the world.

#### RESEARCH INCOME GROWTH

Macquarie achieved its sixth consecutive year of increased research income in 2022, including significant Category 1 funding, awarded from the following schemes:

- Australian Research Council (ARC) fellowships (Australian Laureate Fellowship, Future Fellowship and Discovery Early Career Researcher Awards) of \$9.2 million
- ARC funding of \$7 million for 15 2023 Discovery Projects and one project under the Linkage Infrastructure, Equipment and Facilities scheme
- Horticulture Innovation Australia, for \$500,000
- · Medical Research Future Fund, for \$5.9 million
- the National Health and Medical Research Council's Ideas Grant Scheme awarded
   \$6.7 million to the University as institutional lead of six projects.

Macquarie researchers have consistently worked to diversify funding sources. Due to their diligence, adaptation and innovation, industry and collaborative partnerships income (Categories 2–4) has moved from 42 per cent of our research income in 2016 to 55 per cent in 2022. Details of grants awarded in 2022 are found on page 170.

#### MACQUARIE UNIVERSITY

#### RESEARCH CENTRE SCHEME

The Macquarie University Research Centre Scheme was refreshed to foster larger multidisciplinary collectives with the potential to increase national and international competitiveness. The next generation of Macquarie's high-performing flagship research collectives were selected to drive significant new external opportunities, income and impact, and to enhance the University's reputation, rankings and renown.

The 10 new centres – five Consilience centres and five Strength at Scale centres – will capitalise on Macquarie's significant research strengths and long-standing reputation in areas that also intersect with student load and new external opportunities. To be funded from 2023, they involve more than 500 Macquarie staff, led by 56 senior research leaders from across all four faculties.

#### **GRADUATE RESEARCH ACADEMY**

GRAfest, a networking and development conference for the research degree community that supports candidate engagement and development, was held in November. Speakers and guests shared ideas and strategies to address graduate employment challenges, researcher recruitment and wellbeing.

With the reopening of borders in 2022, the University refreshed and refocused International Research Training Partnership Strategy initiatives with Mahidol University (Thailand), the University of Groningen (Netherlands), the University of Bristol (UK) and the University of St Andrews (UK). These engagements will be formalised as framework agreements by early 2023 to allow for future cotutelle or joint PhD programs, staff exchange and travel grants, seed funding for research collaboration and joint research training initiatives.

In 2022, the Graduate Research Academy (GRA) onboarded and administered 40 fellows under the COVID Recovery Fellowship Scheme.

The Master of Research (MRes) review received commendations for submission quality, the innovative nature of the MRes model and the strong working relationship between the GRA and faculties. Recommendations from the review will be implemented in 2023.

The value of higher degree research (HDR) scholarships offered by the University increased to \$32,000 per year, aligning with HDR scholarship offerings across the sector and enhancing the University's competitiveness in the NSW market.



## Our people

# RECRUITING, RETAINING AND DEVELOPING HIGH-PERFORMING STAFF

With our people key to the University's success we strive to recruit, retain and develop the highest performing staff, and nurture them to seize opportunities and meet the challenges of our changing world. We are continuing to define the optimum academic profile for disciplines across the University to ensure that we excel in our dual missions of learning and teaching, and in research. To achieve these goals, we are aligning our staff profile with our strategic priorities and aspirations, and evolving our work culture to emphasise performance, professional development and adaptability, as we serve and engage all our stakeholders.

#### **FLEXIBLE WORK FRAMEWORK**

Following changes to the way we work and expectations of how work is performed brought about by the COVID-19 pandemic, Macquarie's Our People program board investigated how flexible working could be permanently embedded.

The University conducted extensive consultation and research to explore the different ways people work, and how to balance the needs of staff, their teams, our students and the University, with the aim of positioning Macquarie University as a future-focused leader and employer of choice within the higher education sector.

As a result of this work the Flexible Work
Framework – known as (Flex)<sup>us</sup> – was
developed using a flexibility by design
approach. (Flex)<sup>us</sup> was launched in August 2022,
supported by Flex Champions in each faculty and
portfolio and accompanied by a set of practical
resources, including explainer videos and a
Flexible Work Companion.

Six months after the launch of the (Flex)<sup>us</sup> framework, a survey demonstrated that more than 75 per cent of staff were satisfied with how their faculty or portfolio approached the implementation of the framework. The University also received external recognition for this work as the first university to achieve 'extended level' certification under the FlexReady certification framework by FlexCareers.

#### **SENIOR LEADERS FORUM**

The Senior Leaders Forum was established in March 2022 to build and evolve a cohesive and unified community of senior leaders across the University. The Forum has successfully engaged senior leaders on core strategies while also driving leadership capabilities. A key part of achieving this was the development of a Leadership Development Framework, which was designed by senior leaders within our community.

#### PROFESSIONAL STAFF SERVICE CHARTER

A Professional Staff Service Charter was developed to align professional staff on core service principles to drive excellence in our service delivery. Work on the definition of our core service principles and the proposed Charter commenced in 2022, led by a working group from a broad range of faculties and portfolios. Staff consultation commenced in late 2022 with implementation planned for 2023 to embed the service charter across our professional services.

#### INCLUSION@WORK SURVEY

Macquarie University participated in the Diversity Council Australia's Inclusion@Work survey to better understand staff experiences of diversity and inclusion at the University. The survey was designed to gain insights into the diversity profile of our University community and to identify areas of focus. Over 1200 staff members participated in the survey. The results from the survey will inform the development of the Workplace Diversity, Inclusion and Belonging Strategy.



## Ways of working

TRANSFORMING THE WAY WE WORK TO SUPPORT ORGANISATIONAL SUSTAINABILITY

We embrace our responsibility to ensure the University's academic, organisational and financial sustainability for generations to come. To achieve this, we are adjusting our operating models on multiple fronts to better respond to the needs of our students, staff and stakeholders. We acknowledge the crucial partnership between academic and professional staff in achieving our strategic goals and ambitions, and the importance of effective and efficient professional services in enabling the mission of the University.

#### PROFESSIONAL SERVICES TRANSFORMATION

The Professional Services Transformation (PST) Program was initiated in 2019 when the University began considering sector trends and benchmarks to improve service levels and gain efficiencies in the provision of professional services. The transformation program was undertaken from 2020 to 2022 as part of the University's Operating Plan Ways of working stream. The program's objectives were to create:

- · a measurable, more service-oriented model and service-focused culture
- standardised processes and structures to enable better use of technology
- better career pathways and more standardised roles and structures
- · a sustainable financial model to allow investment in the academic mission.

The program, an institution-wide but centrally coordinated endeavour, began with a community-wide briefing and consultation process that outlined a roadmap for transformation. This was then delivered in an iterative, phased approach across 2021 and 2022. In 2022, the work was organised into 16 coherent programs of work, starting with Information Technology and Financial Services, and ending with a roadmap for Human Resources. The largest programs of work were the end-to-end student service delivery model, the professional support model for faculties and the new shared services approach.

As a result of this work, we now have a consistent, coherent and transparent model of professional support for academics in each of the four faculties – and a single point of entry for student enquiries through the newly established Service Connect. This facilitates institution-wide data insights so that more scalable and sustainable service improvements for students and staff can be designed and delivered. There are also optimal service delivery models across IT, Finance and other key professional services, aligned with sector benchmarks.

Some early outcomes against the PST objectives have included a reduction in total professional staff costs aligned with financial targets, a 9 per cent improvement on operational efficiency determined through external benchmarking, and more transparent structures, with a 50 per cent reduction in the number of unique position descriptions.

There was a significant focus on co-design and consultation throughout the program. Across the life of the program, 13 all-staff townhalls, 11 Q&A sessions and 37 articles, newsletters and email communications were delivered. In December 2022, the program team was recognised for conducting the program with high levels of collaboration and connection at the Vice-Chancellor's Excellence Awards (see page 16).

Across the two years, the program reconceptualised processes, systems, structures and ways of working. As a result, the PST Program improved coordination, removed duplication and standardised professional staff roles. The program also laid the foundations to better use technology and provide a better user experience. This work is continuing beyond the life of the PST Program.

#### SERVICE CONNECT

With changing student expectations of university life, new technology and increasing expectations on staff, the University's service model was updated to place customer needs at its centre. The new model replaces services that were provided to students and staff from diverse functions and across faculties, with each area taking a different approach to customer service and support.

The new shared services centre, known as Service Connect, unites Student Services (including Admissions and Scholarships), Finance, HR, IT and Property. It provides a single entry point that seamlessly cuts across multiple units and touchpoints to serve the needs of our customers – students and staff.

Service Connect empowers students and staff, and increases self-sufficiency. It offers a better and more consistent customer experience, drives cost efficiencies and simplifies our processes. In the three months post-launch, 5340 student enquiries were resolved by a new auto-response channel, and average student frontline enquiry wait times were reduced. Service Connect aims to create a seamless connected experience, online or in person, meaning that students can find the help they need to overcome falling grades, get financial support or change courses in a single location. Staff are also able to deal with complex problems simply, freeing up their time to do what they do best.

Service Connect uses a standardised approach to the way we communicate based on our brand pillars – open collaboration, empowered imagination, integrated perspectives and real-world impact – to ensure we offer a sector-leading, personalised experience that is welcoming, seeks out unmet needs and provides single-touch solutions wherever possible.

Together, these help connect students and staff with the intelligence they need, and provide them with an education experience that matches their everyday digital experience – that is, being able to find what they need anywhere, anytime and anyhow.



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### Digital transformation

#### SUPPORTING SEAMLESS PHYSICAL AND DIGITAL INTEGRATION

We aspire to deliver world-class university experiences that seamlessly integrate physical and digital environments. We aim to leverage digital technologies to nurture immersive, lifelong learning in our students, our people and our alumni. We intend to use technology to support our ability to act strategically to identify and foster research opportunities and partnerships for sustainable benefit. And we support our people in their embrace of digital opportunities in order to better serve our communities as a digitally connected university.

#### STUDENT LIFE CYCLE DIGITAL ROAD MAP

Our five-year student life cycle digital road map defines the path forward to consolidate student digital information into a modern, secure student customer relationship management system. The road map identifies the specific sequence of digital capabilities required to support capture and integrated management of relevant information and interactions throughout the student journey – from prospective students through to alumni. In 2023, with the road map finalised, we will implement the first digital capabilities: student services, student administration and student communications.

#### **E-STUDENT ENROLMENT**

In 2022, the new eStudent enrolment system was implemented to address key pain points in the previous enrolment process. Students now have a modern, mobile-optimised interface for navigating enrolment tasks that not only is more intuitive, but also provides integrated, up-to-date timetabling information and an easy-to-use fee payment platform. It has also streamlined processes for staff that reduce reliance on email communications and address compliance concerns.

#### **DATA ANALYTICS**

We completed vital work in developing strategic data assets that enable a single, 360 degree view across the student life cycle – from the point where students express an interest in studying at Macquarie through to graduation and becoming successful alumni. In addition to delivering dashboards and reporting, we also launched the Data Governance Centre to support staff, students and alumni with improved access to, and understanding of, our data assets.

#### **CYBER SECURITY UPLIFT**

To get ahead of the increasing volume and sophistication of cybersecurity threats, we have a continuing program of critical work to enhance the University's overall security. In 2022, the program implemented network segmentation, infrastructure hardening and enhanced web application security. We also introduced multi-factor authentication to safeguard critical business applications, including Microsoft Office 365 and VPN, and we now have advanced capabilities in cyberforensics and extended detection and response.

#### SYSTEMS RATIONALISATION AND DECOMMISSIONING

In order to invest in new technologies, we need to be disciplined in the rationalisation of our existing technology landscape – and focused on realising better value from our technology spend. In 2022, we retired 662 servers, decommissioned 18 applications and most notably, completed our multi-phase Oracle ecosystem rationalisation program to migrate key application infrastructure to more modern and lower cost technologies, which will result in up to \$13.5 million in savings over next five years. These savings will be re-invested in more strategic applications and infrastructure.





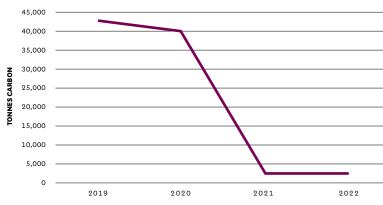
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### **Environmental** sustainability

CREATING A GREENER FUTURE

Macquarie University was among the first Australian universities to commit to 100 per cent renewable electricity, driven by our dedication to developing a sustainable campus. In 2020, we signed a Power Purchase Agreement (PPA) with Red Energy to provide 100 per cent renewable electricity, sourced from Snowy Hydro, for the Wallumattagal Campus. In 2022, this resulted in a 97 per cent drop in our carbon emissions from electricity consumption.

#### **DECLINE IN SCOPE 2 CARBON EMISSIONS (CO2E(T)) AFTER RENEWABLE ELECTRICITY PPA IN 2020**



Macquarie was one of the first universities to commit to 100 per cent renewable energy.

Above: The lush green spaces of the University campus are a popular destination for the wider community, as

Below: Our new and revitalised Central Courtyard buildings have received a 5-star green star rating from the Green Building Council of Australia, including the new accommodation building.

well as staff and students.

Progress towards our energy efficiency goal has been boosted by the installation of roof-top solar panels on Campus. We currently have a combined generating capacity of 746kW, with more on the way. Solar, combined with our energy efficiency initiatives, has seen a steady reduction in our total energy use since 2019, despite the growth in floor area.

And this is just a part of our journey towards a more sustainable future. In 2019, Macquarie University developed a Sustainable Bonds Framework which was the winner of Environmental Finance Bonds Award in 2019. Our Student Accommodation, Central Courtyard and Lincoln buildings were built using funds from the bonds and awarded a 5-star Green Star rating by the Green Building Council of Australia in 2022. In addition, the naturalisation of Mars Creek, also funded through the bonds, has encouraged eels to migrate upstream with the animals spotted in the headwaters of the creek for the first time in more than 20 years. Similarly, native birds including the superb fairy wren and red browed finches now inhabit the re-vegetated riparian area.

Other sustainability initiatives across campus include water capture and reuse and electric vehicle charging stations. Research and education carried out supports the United Nations Sustainable Development Goals (SDGs) and creates educational equity for students of all backgrounds.

Our focus on working towards the SDGs is demonstrated by the University being ranked equal 79th in the world in the Times Higher Education Impact rankings for 2022. This is a global performance ranking that assesses universities on their performance against the goals.

2023 is shaping up to be an exciting year with the development of the next iteration of the Sustainability Strategy through to 2030.

#### **BIODIVERSITY ON CAMPUS**

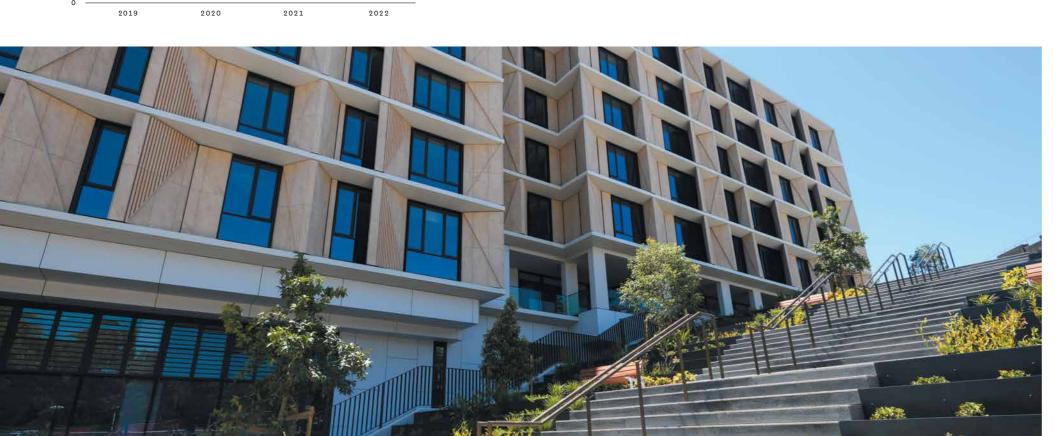
December 2022 saw Macquarie University participate in an ambitious Sydney-wide program of tree and shrub planting sponsored by the NSW Government, and administered by non-profit organisations.

Greening Australia provided on-ground support and a mix of 1700 locally native tree, shrub and groundhabitat plants. These were used to create a buffer zone for campus bushland fringing the Lane Cove Valley.

The partnership was further expanded to include volunteers from the Mars Creek bushcare group, who sit within the Friends of Lane Cove National Park community organisation.

This less-visited corner of the campus features a small waterfall, a three hectare 'ecology reserve' used in undergraduate studies, and visiting wildlife from the adjacent national park.

Macquarie's strong research presence in urban biodiversity, through the Centre for Smart Green Cities, was an important link in foreshadowing this partnership. It is hoped to continue similar future initiatives, providing a virtuous loop between the University's research, sustainable land management, and community collaboration.





# Indigenous strategy

## ENHANCING INDIGENOUS LEARNING AND TEACHING AND RESEARCH

Aboriginal and Torres Strait Islander staff and the broader university community returned to campus in 2022 with renewed energy in delivering *Macquarie University Indigenous Strategy* 2016–2025 outcomes.

One of this year's highlights was renaming the University's main campus as the Wallumattagal Campus – a national first that respects and acknowledges the longevity of the relationship the Traditional Custodians had, and continue to have, with the land on which the University is situated. The renaming of our main campus was part of a broader project that investigated and acknowledged the impact of Lachlan Macquarie, the University's namesake, on First Nations peoples.

The University continues to achieve great success in Indigenous learning and teaching, and research. A project approved by the Academic Senate was completed to assess the embedding of Indigenous curriculum across all disciplines of the University. The project saw pleasing results and determined about 55 per cent of Macquarie students are exposed to Indigenous knowledges and curriculum during their degrees. The Academic Senate also approved the inclusion of the Indigenous Connected Curriculum into our postgraduate curriculum architecture.

#### NGARAMURU PROGRAM

The Ngaramuru Program – for Year 7 to Year 12 students, comprises a CLS certificate (Years 7–10), the Rising Stars Leadership Camp (Year 10), the Critical Thinking unit and an early entry program (Year 11), and Camp Aspire (Years 11–12). In 2022, the Rising Stars camp attracted 80 students from more than 150 applications, and Camp Aspire attracted 90 students, with about 50 per cent from regional, rural and remote regions.

We continue to witness students' transition from the Critical Thinking unit; for example, 60 per cent of Aboriginal and Torres Strait Islander students who received an early offer – based on receiving a credit or above in Year 11, 2021 – accepted offers to study at Macquarie in 2023.

#### NATIONAL INDIGENOUS SCIENCE EDUCATION PROGRAM (NISEP)

The National Indigenous Science Education Program (NISEP) uses science, technology, engineering and mathematics (STEM) to place Indigenous secondary school students in STEM leadership positions at school, in the community and at university events so they gain the confidence, motivation and skills to complete school and pursue pathways to higher education.

In 2022, we engaged with more than 1800 school students from regions of low-socioeconomic status through NISEP's core events involving about 100 Indigenous school students as NISEP leaders. Evaluations of NISEP student leaders identified 59 per cent had an increased interest in completing Year 11 and Year 12, 61 per cent in going on to higher education and 81 per cent in studying science – with 90 per cent identifying greater confidence, valuing the experience and finding it good or inspiring.

Former NISEP student and Bundjalung man William Frazer received the inaugural Ochre Award for First Nations Australians from the Royal Australian Chemical Institute. William completed his studies at Macquarie in 2022 and graduated with a Bachelor of Science (Chemical and Biomolecular Sciences) and Bachelor of Laws. William has been associated with NISEP since Year 8 at Casino High School – a partner school of

#### **WUYAGIBA STUDY HUB**

Our collaboration with the Wuyagiba Study Hub continued in 2022. Eight students completed the two microcredentials offered through a collaboration between Macquarie academics and community Elders and Knowledge Holders. All students completed Macquarie's Aboriginal and Torres Strait Islander Entry Pathway and have received offers to commence their studies in 2023. The Wuyagiba Study Hub attracted another four years of funding through the Regional University Centres grants program, with Macquarie University as its sole partner.



#### WALANGA MURU

In collaboration with faculties and departments across the University, Walanga Muru continued to offer opportunities to Aboriginal and Torres Strait Islander students to ensure a transformational student experience through a culturally affirming and intellectually engaging environment.

One highlight was our Indigenous Deadly Awards attended by more than 100 staff, students and friends, and sponsored by the Student Representative Committee. Awards were presented for academic achievement, outstanding community service, leadership, sports, and creative arts. An overall 'Deadly Award' was also presented.

In 2022, 11 Indigenous higher degree research (HDR) students attended a study tour in Aotearoa (New Zealand) for a week with Māori scholars and HDR students. Students were inspired by this opportunity and emerged with an invigorated sense of determination towards their studies and future pathways, and with important networks.

#### OTHER INITIATIVES

The Office of the Pro Vice-Chancellor (Indigenous Strategy) and the Office of the Pro Vice-Chancellor (Learning and Teaching) offered Indigenous Learning and Teaching Grants, a total of \$100,000, to encourage the development and delivery of innovative and engaging Indigenous curriculum. Project outcomes will be presented at a symposium in 2023.

A suite of Manawari Cultural Safety Training programs has been developed, with more than 1200 staff undertaking the training online and in person. In 2022, Manawari Corporate Aboriginal Cultural Safety Training was also offered to industry partners. An increase in the number of industry partners has resulted in exciting opportunities, including cadetships and scholarships for Aboriginal and Torres Strait Islander students, Indigenous research collaborations and other customised programs.

Macquarie's Department of Indigenous Studies and the Centre for Global Indigenous Futures continued to undertake nationally and internationally recognised scholarships in learning and teaching, and research. Special articles were published in the *Journal of Global Indigeneity*, and new partnerships were developed with Indigenous international scholars. Professor Bronwyn Carlson is the Chief Investigator and Deputy Director of the newly successful Australian Research Council Centre of Excellence for the Elimination of Violence Against Women. Monash University leads the centre with six other universities and 47 partner organisations.

The Djurali Indigenous Health Education and Research Network was established and has attracted more than \$7 million in grant funding and more than \$6 million to support other projects. Djurali additionally supported the completion of 15 Aboriginal and Torres Strait Islander audiometry students, 13 with a diploma and two with a Certificate IV. This outcome is significant as there were only three Indigenous audiologists in Australia prior to students graduating.

Above: Fifty-five per cent of Macquarie students are exposed to Indigenous knowledges and curriculum during their degrees

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# Social sustainability

### ENSURING OUR PEOPLE FEEL VALUED, ACCEPTED AND SUPPORTED TO THRIVE

#### **DIVERSITY AND INCLUSION**

In 2022, Macquarie University progressed our diversity and inclusion (D&I) goals and embedded D&I principles in our day-to-day operations. D&I goals were prioritised as a focus area of our Operating Plan 2020–2024 and associated principles incorporated as critical drivers across the 'Our people' workstream.

For a second consecutive year, the University was recognised by the Workplace Gender Equality Agency as an Employer of Choice for Gender Equality. This achievement builds on our Workplace Gender Equity Strategy and reaffirms our long-term commitment in this space. The University was one of seven recipients from the Higher Education category and one of 120 organisations recognised nationally. This places the University firmly among the nation's progressive organisations for gender equality in the workplace across all assessment criteria.

Our commitment to gender equality and diversity was further strengthened in 2022. Macquarie joined the Champions of Change Coalition – a globally recognised network focused on shifting systems of gender inequality in the workplace, advancing more women in leadership, and building respectful and inclusive workplaces.

During 2022 and following on from lessons learned during COVID-19, we prioritised our commitment to creating an inclusive, flexible work environment to support the wellbeing and work-life balance of staff. The Flexible Work Framework (see page 74) acknowledges that each person and team have different needs and preferences and that the needs of our stakeholders are diverse. The framework empowers managers and teams to co-design the best flexible work practices for them. Macquarie is the first university to achieve 'extending level' certification under the FlexReady certification framework by FlexCareers – the highest level awarded for flexible work practices.

Macquarie attained gold status at the 2022 Australian LGBTQ Inclusion Awards, a step up from silver achieved yearly since 2018. The citation recognises Macquarie as one of Australia's top organisations for LGBTQIA+ inclusion based on the Australian Workplace Equality Index (AWEI) and reaffirms our commitment to and action in creating a safe and supportive culture through inclusive workplace policies and processes, dedicated activities and an active network. The Macquarie Ally Network continued to be active throughout the year – more than 100 people completed training, and the Ally membership grew to nearly 700 members.

Our Equity, Diversity and Inclusion Committee, and faculty and portfolio D&I committees engaged our community in D&I initiatives and events. Highlights during the year included the International Women's Day address, the Inclusive Teaching Forum and the 16 Days of Activism Against Gender-Based Violence Forum.

In 2022, we progressed our action plans for gender equity, access and inclusion, and LGBTQIA+ inclusion. We also implemented the Diversity Council Australia's Inclusion@Work survey tool to understand staff experiences of inclusion and inform the development of a new D&I strategy for the Macquarie community.

Our 2023 D&I goals include:

- · launching a new diversity, inclusion and belonging strategy
- embedding D&I principles across projects under our Operating Plan
- · offering D&I capability building for leaders and staff
- undertaking targeted actions to reduce the workplace gender pay gap
- strengthening the grassroots efforts of our network of D&I committees as they support our D&I priorities
- maintaining our leading practice benchmarks, awards and citations.

#### RESPECT, NOW, ALWAYS,

Actions taken in 2022 focused on capacity building in the form of enhanced governance and project capabilities, policy renewal and education initiatives. These were developed in response to the National Student Safety Survey (NSSS) results and included:

- establishment of an RNA project manager role to coordinate and champion activities
- updates to our Student Sexual Misconduct Prevention and Responses Policy and Procedure to reflect changes to affirmative consent in NSW legislation
- establishment of a new Sexual Safety and Wellbeing Committee to oversee the RNA project
- hosting the "Sextember" week of activities, in partnership with external stakeholders, to promote healthy sexual behaviours and respectful relationships
- launching a new University website focused on sexual health and sexual wellbeing
- "Responding to Disclosures" training for all new staff.

#### MODERN SLAVERY

Macquarie University is committed to respecting and protecting the human rights of our staff and students, and community members. The University opposes all forms of modern slavery and maintains responsible and transparent operations and supply chains. Our approach and commitment to guard against modern slavery is consistent with the University's purpose, vision and values.

The University's Modern Slavery Statement was made under Part 2 of Section 16 of the *Modern Slavery Act* 2018 (Cth) and submitted to the Federal Government in 2022. It sets out the steps the University has taken across our research, teaching and operations activities to identify and prevent modern slavery.

Due to the existing legislative framework concerning education and employment in Australia, the risk that the University itself is engaged in modern slavery activities is relatively low. Our operational risk assessment focuses on student recruitment, third-party labour suppliers and international research partnerships and procurement, specifically the areas of subcontracting and supply chain.

The University works closely with the Australian Universities Procurement Network (AUPN) on the design and development of the modern slavery risk dashboard, which provides universities with an indication of the scale of modern slavery risks in their supply chains.

We will continue to work diligently with our partners and suppliers and refine our policies and processes to ensure that our employees, students, partners and suppliers have a full understanding of modern slavery risks. We will also ensure they have the tools and pathways to address risks in accordance with the internationally agreed principles and the Act, and are able to identify and eliminate any potential for modern slavery practices in our operations and supply chain.

#### TRENDS IN THE REPRESENTATION OF EEO GROUPS (%)1 2021-2022

Professional staff	2021	2022
Women	68.5	67.6
Aboriginal and Torres Strait Islander peoples <sup>2</sup>	1.8	2.3
People with a disability	5.0	5.4
People with a disability requiring work-related adjustment	0.6	0.4
English not main language at home*	N/A	25.0
Academic staff		
Women	45.1	46.5
Aboriginal and Torres Strait Islander peoples <sup>2</sup>	1.8	2.4
People with a disability	3.6	4.1
People with a disability requiring work-related adjustment	1.2	0.8
English not main language at home*	N/A	18.8

<sup>\*</sup> New metric

#### TRENDS IN THE DISTRIBUTION OF EEO GROUPS<sup>3</sup> 2021-2022

Professional staff	2021	2022
Women	93	92
Aboriginal and Torres Strait Islander peoples <sup>2</sup>	100	101
People with a disability	105	105
People with a disability requiring work-related adjustments	N/A	N/A
English not main language at home*	N/A	79
Academic staff		
Women	80	82
Aboriginal and Torres Strait Islander peoples <sup>2</sup>	69	64
People with a disability	102	101
People with a disability requiring work-related adjustments	N/A	N/A
English not main language at home*	N/A	87

<sup>\*</sup> New metric

A distribution index of 100 indicates that the centre of distribution of the EEO group across salary levels is equivalent to that of other staff. Values less than 100 mean that the EEO group tends to be more concentrated at lower salary levels than is the case for other staff. The more pronounced this tendency is, the lower the index will be. An index of more than 100 indicates that the EEO group is less concentrated at the lower salary levels. 'N/A' denotes where numbers are too small for the distribution index figure to be reliable (ie less than 10).

 $<sup>{\</sup>it 1}\, {\it Headcount}\, {\it of}\, {\it all}\, {\it permanent}\, {\it and}\, {\it fixed-term}\, {\it contract},\, {\it full-time}\, {\it and}\, {\it part-time}\, {\it staff}\, {\it as}\, {\it at}\, {\it 31}\, {\it March}\, {\it 2022}.$ 

<sup>2</sup> Based on the responses to a voluntary self-service staff equity survey.

<sup>3</sup> If there was no relevant information, then the staff member was excluded from the relevant EEO calculation.

#### **WORK HEALTH AND SAFETY**

In 2022, the University continued to maintain its Health and Safety Management System and Recovery at Work Strategy to promote good health and prevent injury and illness, through regular monitoring and continual improvement.

#### 2022 PRIORITY HEALTH AND SAFETY INITIATIVES

The following key strategic initiatives were undertaken in 2022 to enhance the Health and Safety Management System:

- undertaking a comprehensive review of workplace health and safety strategy in alignment with international standard ISO 45001
- undertaking comprehensive review of workplace health and safety reporting to further inform and support decision-making
- providing an annual briefing and discussion for officers on health and safety obligations and expectations relating to promoting a positive safety culture
- reviewing and approving work health and safety (WHS) policy, procedures and risks, and reviewing notifiable incident reporting to the regulator, and strengthening awareness of material changes and developments in relevant practice
- monitoring and reviewing key WHS structures, consultation arrangements and roles such as WHS committees and their terms of reference, WHS representatives and emergency control organisations (including wardens, first aiders and mental health first aiders) and providing information from the Emergency Planning Committee and the Diving and Boating Safety Committee on the progress of initiatives

- reviewing, assessing and evaluating the operational management of identified hazards, risks, controls and processes to support and resource ongoing improvements and minimise health, safety and wellbeing risks
- investing in and promoting existing and additional mental health and resilience initiatives for the psychosocial wellbeing of our people and to ensure we manage those risks by taking into consideration the relevant matters updated in the WHS Regulation during the year
- regularly reviewing hazard, incident and workers compensation information, and providing reports to the Audit and Risk Committee and the University Council.

#### COVID-19 RESPONSE

The COVID-19 taskforce continued to lead the University in adapting and responding to changes associated with COVID-19. The taskforce applied an informed, flexible and proportionate approach to promoting a safe working and study environment while balancing face-to-face and remote operating modes for staff and students.

A range of measures, in consultation with WHS committees, health and safety representatives and union representatives, were implemented in line with government guidelines and actively monitored to ensure safety and minimise risks associated with COVID-19.

#### **HEALTH AND SAFETY DATA**

The University maintains an online health and safety incident reporting system where proactive reporting is encouraged. Supporting an environment of WHS awareness, transparency, and continual improvement is an important part of the University culture, enabling issues to be reported, investigated, and responded to in a timely way.

The University undertakes detailed internal investigations for serious incidents that include debriefing and learning sessions to prevent reoccurrence. There has been no emerging pattern for serious injuries, although falls have contributed to longer recovery times.

The University proactively reports notifiable incidents to the health and safety regulator. In 2022, no incidents required the University to report to the regulator.

#### WORKERS COMPENSATION

The Health and Safety Management System includes a program to promote safe and prompt recovery at work. It encourages positive outcomes by providing the necessary support services to facilitate a safe return to work, with dedicated return to work officers employed to liaise with injured staff, managers and other University stakeholders to coordinate effective return to work plans.

#### WORKERS COMPENSATION PERFORMANCE MEASURE

The average cost of a workers compensation claim is an indicator of injury severity and proactive recovery at work. The average cost of claims and claims numbers continued to experience a downward trend from 2019 to 2022, which is associated with fewer reported injuries and lower severity because of the change in operations affected by COVID-19.

#### **WORK HEALTH AND SAFETY 2019-2022**

Performance measure	2019	2020	2021	2022
Incidents reported (staff) <sup>1</sup>	157	85	66	96
Number of casual, fixed-term and contract staff	5504	5442	4981	4911
Incidence rate per 100 University employees <sup>2</sup>	2.85	1.56	1.33	1.41
Workers compensation claims (% of incidents reported) <sup>3</sup>	33%	27%	24%	29%

<sup>1</sup> University controlled entity staff are excluded from the reported number of staff injuries. Injuries involving students, members of the public and contractors are not included in the calculation. Variations in the figures reported for a particular year may vary in subsequent years as incidents may be reported in a later year or details revised to a different period or business unit upon further investigation.

<sup>2</sup> The incidence rate is calculated by dividing the total number of reported injuries divided by staff headcount, then multiplied by 100.
3 The percentage may vary compared with previous annual reports. This occurs when historic injuries progress to workers compensation claims that are reported in later years.

WORKERS COMPENSATION PERFORMANCE MEASURE	2019	2020	2021	2022
Average cost of workers compensation claim <sup>4</sup>	\$15,653	\$14,565	\$8432	\$10,235

4 Workers compensation gross incurred cost includes actual costs and insurer estimates. This figure may change over time due to historic changes to insurer estimates and costs incurred. Average is calculated claims with a dollar amount exceeding so divided by the total gross incurred claims cost.



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# Financial statements

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### **Statement of** appointed officers

In accordance with a resolution of the Council of Macquarie University, pursuant to Section 7.6 (4) of the Government Sector Finance Act 2018 ('the Act'), we state that to the best of our knowledge and belief:

- The financial statements present fairly the University and Consolidated Entity's financial position, financial performance and cash flows.
- The financial statements have been prepared in accordance with the applicable requirements of the Act, the Government Sector Finance Regulation 2018, and the Financial Statement Guidelines for Australian Higher Education Providers for the 2022 Reporting Period issued by the Australian Government (Department of Education).
- The financial statements have been prepared in accordance with Australian Accounting Standards, which include Australian Accounting Interpretations.

We are not aware of any circumstances which would render any particulars included in the financial statements to be misleading or inaccurate.

To the best of our knowledge and belief, the amount of Australian Government financial assistance expended during the reporting period was for the purposes for which it was intended and Macquarie University has complied with applicable legislation, contracts, agreements and programme guidelines in making expenditure.

The University charged Student Services and Amenities Fees strictly in accordance with the Higher Education Support Act 2003 and the Administration Guidelines made under this Act. Revenue from the fee was spent strictly in accordance with the Act and only on services and amenities specified in subsection 19-38(4) of the Act.

There are reasonable grounds to believe that the University will be able to pay its debts as and when they fall due.

Professor S Bruce Dowton

Vice-Chancellor and President

Dr Martin Parkinson AC PSM Chancellor

Sydney

14 April 2023

### Income statement

		Consolid	ated	Paren	t
		2022	2021	2022	2021
	Note	\$'000	\$'000	\$'000	\$'000
Revenue and income from continuing operations					
Australian Government financial assistance	_				
Australian Government grants	2	278,967	303,745	268,026	292,001
HELP - Australian Government payments	2	239,549	238,272	239,549	238,272
State and local government financial	3	40.00=	40.000	5.000	0.455
assistance		18,807	19,266	5,892	6,455
HECS-HELP - Student payments		25,549	19,750	25,549	19,750
Fees and charges	4	291,518	307,087	290,836	306,341
Investment income (net gains/losses)	5	(985)	40,771	(1,925)	40,718
Consultancy and contracts	6	46,075	37,472	46,227	37,541
Medical services revenue		162,710	150,800	4,581	3,652
Gains on disposal of assets		2,699	-	2,699	-
Other revenue and income	7	81,332	65,259	61,785	55,870
Total revenue and income from continuing operations		1,146,221	1,182,422	943,219	1,000,600
Expenses from continuing operations	_	<u>-</u>			
Employee related expenses	9	652,988	641,606	543,912	540,899
Depreciation and amortisation	10	101,486	103,246	100,949	102,639
Repairs and maintenance		16,663	16,497	11,917	12,722
Borrowing costs	11	21,106	16,893	21,239	16,921
Impairment of assets	12	(304)	7,096	(304)	6,697
Losses on disposal of assets		-	219	-	196
Consultants and contractors		54,295	36,689	47,697	33,286
Scholarships and grants		84,394	79,876	84,148	79,721
Medical consumables		64,995	62,620	1,049	812
Other expenses	13	186,879	155,519	174,970	143,416
Total expenses from continuing operations	_	1,182,502	1,120,261	985,577	937,309
Net result for the year	_	(36,281)	62,161	(42,358)	63,291
Net result attributable to members of	_	(55,251)	5=, : 5 ?	(,)	33,201
Macquarie University		(36,281)	62,161	(42,358)	63,291

The above Income Statement should be read in conjunction with the accompanying notes.

# Statement of comprehensive income

		Consolio	lated	Parer	
		Consone	iutou	Parer	ıı
		2022	2021	2022	2021
	Note	\$'000	\$'000	\$'000	\$'000
Net result for the year		(36,281)	62,161	(42,358)	63,291
Other comprehensive income Items that will not be reclassified to profit or loss					
Unrealised gain on revaluation of property, plant and equipment and service concession assets		87,937	44,311	87,937	44,311
Net actuarial gain recognised in respect of Defined Benefits Plans	36(g)	221	1,300	221	1,300
Total items that will not be reclassified to income statement		88,158	45,611	88,158	45,611
Total other comprehensive income		88,158	45,611	88,158	45,611
Total comprehensive income attributable to members of Macquarie University		51,877	107,772	45,800	108,902

The above Statement of Comprehensive Income should be read in conjunction with the accompanying notes.

# Statement of financial position

		Consolid	ated	Paren	t
	Note	2022 \$'000	2021 \$'000	2022 \$'000	2021 \$'000
ASSETS					
Current assets					
Cash and cash equivalents	14	81,248	102,871	55,631	84,000
Receivables	15	103,816	106,838	85,174	85,934
Inventories	17	5,194	5,658	148	109
Other financial assets	18	4,746	4,743	4,746	4,743
Other non-financial assets	20	25,754	22,293	25,021	21,632
Total current assets	_	220,758	242,403	170,720	196,418
Non-current assets					
Receivables	15	365,066	445,235	365,066	445,235
Service concession asset	16	103,965	103,552	103,965	103,552
Other financial assets	18	61,960	65,159	61,357	65,159
Other non-financial assets	20	6,961	9,131	6,961	9,131
Investments in controlled entities	19	-	-	98,799	98,799
Property, plant and equipment	21	3,001,075	2,884,532	2,999,628	2,883,685
Right-of-use assets	22	22,897	27,728	22,553	27,229
Intangible assets	23 _	56,734	63,807	56,730	63,798
Total non-current assets	_	3,618,658	3,599,144	3,715,059	3,696,588
Total assets	_	3,839,416	3,841,547	3,885,779	3,893,006
LIABILITIES					
Current liabilities					
Trade and other payables	24	103,892	108,996	85,065	91,532
Borrowings	25	-	-	10,460	7,900
Provisions	26	139,108	132,906	127,164	121,916
Other liabilities	27	173,264	135,214	167,670	129,740
Lease liabilities as a lessee	22 _	6,766	8,052	6,646	7,897
Total current liabilities	_	423,030	385,168	397,005	358,985
Non-current liabilities	0.5	045.045	045.045	045.045	045.045
Borrowings	25	645,815	645,315	645,815	645,315
Provisions	26	388,328	474,247	386,707	471,923
Other liabilities Lease liabilities as a lessee	27 22	15,438 20,007	16,712 25,184	15,289 19,754	16,563 24,811
Total non-current liabilities		1,069,588	1,161,458	-	1,158,612
Total liabilities	_	-	-	1,067,565	1,517,597
	_	1,492,618	1,546,626	1,464,570	
Net assets	_	2,346,798	2,294,921	2,421,209	2,375,409
EQUITY					
Parent entity interest		1 144 022	1 056 095	1 144 022	1 056 005
Reserves Retained earnings		1,144,922	1,056,985	1,144,922	1,056,985
•	_	1,201,876	1,237,936	1,276,287	1,318,424
Parent interest	_	2,346,798	2,294,921	2,421,209	2,375,409
Total equity	_	2,346,798	2,294,921	2,421,209	2,375,409

The above Statement of Financial Position should be read in conjunction with the accompanying notes.

# Statement of changes in equity

	J	Consolidated			Parent	
As reval res	Asset revaluation reserve	Retained	Total	Asset revaluation reserve	Retained	Total
<del>50</del>	\$.000	\$.000	\$.000	\$.000	\$.000	\$.000
1,0	12,674	1,012,674 1,174,475	2,187,149	1,012,674	1,012,674 1,253,833 2,266,507	2,266,507
	'	62,161	62,161	'	63,291	63,291
7	44,311	'	44,311	44,311	•	44,311
	'	1,300	1,300	•	1,300	1,300
	44,311	63,461	107,772	44,311	64,591	108,902
1,0	56,985	1,056,985 1,237,936	2,294,921	1,056,985 1,318,424 2,375,409	1,318,424	2,375,409
	,	(36,281)	(36,281)	•	(42,358)	(42,358)
~	87,937	•	87,937	87,937	•	87,937
	•	221	221	•	221	221
"	87,937	(36,060)	51,877	87,937	(42,137)	45,800
1,1	14,922	1,144,922 1,201,876	2,346,798	1,144,922 1,276,287 2,421,209	1,276,287	2,421,209

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The above Statement of Changes in Equity should be read in conjunction with the accompanying i
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# **Statement of cash flows**

		Consolidated		Pare	nt
		2022	2021	2022	2021
	Nata	\$'000	\$'000	\$'000	\$'000
	Note	Ψ 000	Ψ 000	ΨΟΟΟ	Ψ 000
Cash flows from operating activities					
Australian Government Grants	37(a)(b)(c)(e)(f)	505,374	546,198	494,433	534,454
OS-HELP (net)	37(g)	1,234	-	1,234	-
Superannuation supplementation receipts	37(h)	29,282	31,687	29,282	31,687
State and local Government Grants	3	18,807	19,266	5,892	6,455
HECS-HELP - Student payments		25,549	19,750	25,549	19,750
Receipts from student fees and other customers (inclusive of GST)		639,842	567,446	459,254	411,030
Dividends received		5,401	5,985	5,399	5,985
Interest received		1,970	469	1,636	416
GST recovered		17,286	21,890	16,704	19,107
Payments to suppliers and employees (inclusive of GST)		(1,103,806)	(979,170)	(909,149)	(792,204)
Superannuation supplementation payments	37(h)	(29,282)	(31,687)	(29,282)	(31,687)
Interest and other cost of finance	<i>07</i> (11)	(22,067)	(22,288)	(22,208)	(22,327)
Lease payments for leases of low-value assets		(3,684)	(3,772)	(3,317)	(3,560)
Short term lease payments		(33)	(20)	-	(0,000)
Net cash provided by operating activities	33	-	· · · · · · · · · · · · · · · · · · ·		
Net dash provided by operating activities		85,873	175,754	75,427	179,106
Cash flows from investing activities					
Proceeds from sale of property, plant and equipment		4,154	476	4,154	476
Proceeds from sale of financial assets		4,743	5,227	4,743	5,227
Payments for property, plant and equipment		(97,082)	(92,421)	(96,106)	(92,303)
Payments for intangible assets		(5,700)	(8,815)	(5,700)	(8,820)
Payments for financial assets		(4,963)	(4,740)	(4,963)	(4,740)
Net cash used in investing activities		(98,848)	(100,273)	(97,872)	(100,160)
Cash flows from financing activities					
Repayment of borrowings			- (85,000)	-	(85,000)
Funds received from / (repaid to) related parties for the Central Treasury Agreement		,		2,560	(5,050)
Repayment of lease liabilities		(8,648)	) (9,452)	(8,484)	(9,175)
Net cash used in financing activities		(8,648	(94,452)	(5,924)	(99,225)
Net increase /(decrease) in cash and cash					
equivalents held		(21,623	<b>)</b> (18,971)	(28,369)	(20,279)
Cash and cash equivalents at beginning of the		400.07	104.040	04.000	104.070
financial year		102,87	121,842	84,000	104,279
Cash and cash equivalents at end of the financial year	14	81,248	<b>3</b> 102,871	55,631	84,000

The above Statement of Cash Flows should be read in conjunction with the accompanying notes.

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# Notes to the financial statements

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#### 1 Summary of Significant Accounting Policies

The principal accounting policies adopted in the preparation of these financial statements are set out below and where applicable throughout the notes to the accounts (these can be identified as italicised text). These policies have been consistently applied for all years reported unless otherwise stated. The financial statements include separate statements for Macquarie University as the parent entity and the consolidated entity consisting of Macquarie University and its controlled entities (the 'Group').

The financial statements for the year ended 31 December 2022 were authorised for issue by the Macquarie University Council on 14th April 2023.

#### (a) Basis of preparation

The financial statements are general purpose financial statements which have been prepared on an accrual basis in accordance with Australian Accounting Standards, the *Government Sector Finance Act 2018*, *Government Sector Finance Regulation 2018*, the *Higher Education Support Act 2003* and the Financial Statement Guidelines for Australian Higher Education Providers, as issued by the Australian Government (Department of Education).

Macquarie University applies Tier 1 reporting requirements.

Macquarie University is a not-for-profit entity and these statements have been prepared on that basis. Some of the Australian Accounting Standards requirements for not-for-profit entities are inconsistent with IFRS.

The financial statements are presented in Australian dollars, which is also Macquarie University's functional currency, and all values are rounded to the nearest thousand dollars (\$'000).

#### (i) Historical cost convention

These financial statements have been prepared under the historical cost convention, as modified by the revaluation of certain financial assets and liabilities and certain classes of property, plant and equipment.

#### (ii) Critical accounting estimates

The preparation of these financial statements requires the use of certain critical accounting estimates. It also requires management to exercise its judgement in the process of applying the Group's accounting policies. All significant estimates or assumptions made in the preparation of the financial statements are described in the accounting policy notes.

#### (iii) Comparative amounts

Where necessary, comparative information is reclassified to enhance comparability in respect of changes in presentation adopted in the current year.

#### (iv) Foreign currency transactions and balances

Foreign currency transactions are translated into Australian dollars at rates of exchange prevailing at the dates of the transactions. Foreign currency cash balances, as well as amounts receivable and amounts payable in foreign currency at the reporting date or at settlement date, are translated at the rates prevailing on that date, with exchange differences brought to account as exchange gains or losses in the Income Statement.

#### (b) Basis of consolidation

The consolidated financial statements represent the financial statements of the parent entity, being Macquarie University and the assets, liabilities and results of all entities it controlled in accordance with AASB 10 Consolidated Financial Statements at the end of or during the financial year. Control is established when the parent is exposed to or has rights to variable returns from its involvement with the entity and has the ability to affect those returns through its power to direct the relevant activities of the entity.

Transactions, balances and unrealised gains on transactions between Group entities are eliminated. The accounting policies of controlled entities are consistent with the policies adopted by the Group.

A list of controlled entities is contained in note 29(b) to the financial statements.

#### (c) Income tax exemption

Macquarie University and its controlled entities have received an endorsement by the Australian Taxation Office ("ATO") to access the income tax exemption from 1st July 2000 under the *Income Tax Assessment Act 1997*, with the exception of Macquarie University Property Investment Company and Celosia Therapeutics Pty Limited, neither of which had an income tax charge or payment in 2022 (2021: nil).

#### NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2022 | MACQUARIE UNIVERSITY ANNUAL REPORT 2022 101

#### 1 Summary of Significant Accounting Policies (continued)

#### d) Goods and services tax (GST)

Revenues, expenses and assets are recognised net of the amount of goods and services tax (GST), except where the GST incurred is not recoverable from the ATO. In these circumstances, the GST is recognised as part of the cost of acquisition of the asset or as part of an item of the expense.

Receivables and payables are stated with the amount of GST included. The net amount of GST recoverable from, or payable to, the ATO is included with other receivables or payables in the Statement of Financial Position.

Cash flows are included in the Statement of Cash Flows on a gross basis. The GST components of cash flows arising from investing or financing activities which are recoverable from, or payable to, the ATO are classified as operating cash flows.

#### e) New accounting standards and interpretations - overview

#### Effective for the first time

The Group considered the application of new and amended Accounting Standards mandatorily applicable for the first time in the current financial year. None of those new or amended Accounting Standards had any material impact on the Group's current or previous financial statements.

#### Issued but not yet effective

Certain new Accounting Standards and Interpretations have been published that may be applicable to the Group but are not mandatory for the 31 December 2022 reporting period.

It is estimated that the adoption of these pronouncements when effective will have no material financial impact on future reporting periods.

Standard or Interpretation	Application date
AASB 2020-1 Amendments to Australian Accounting Standards-Classification as Current or Non-current - Amendments to AASB 101	n of Liabilities 1 January 2024
AASB 2021-2 Amendments to Australian Accounting Standards - Disclosure of Accounting Policies and Definition of Accounting Estimates	of 1 January 2023
AASB 2021-5 Amendments to Australian Accounting Standards - Deferred Ta Assets and Liabilities arising from a Single Transaction	ax related to 1 January 2023
AASB 2022-3 Amendments to Australian Accounting Standards - Illustrative E Not-for-Profit Entities accompanying AASB 15	Examples for 1 January 2023
AASB 2014-10 Amendments to Australian Accounting Standards-Sale or Con Assets between an Investor and its Associate or Joint Venture - Amendments and AASB 128	
AASB 2022-5 Amendments to Australian Accounting Standards - Lease Liabi an Leaseback	lity in a Sale 1 January 2024
AASB 2022-6 Amendments to Australian Accounting Standards - Non-current with Covenants	t liabilities 1 January 2024
AASB 2022-7 Editorial Corrections to Australian Accounting Standards and R Superseded and Redundant Standards	Repeal of 1 January 2023
AASB 2022-10 Amendments to Australian Accounting Standards - Fair Value Measurement of Non-Financial Assets of Not-for-Profit Public Sector Entities	1 January 2024

#### 2 Australian Government financial assistance

		Consolid	ated	Paren	t
		2022	2021	2022	2021
	Note	\$'000	\$'000	\$'000	\$'000
Commonwealth Grants Scheme (CGS) and Other Education Grants	37(a)	172,820	183,424	172,820	183,424
Research Training Program	37(c)	30,316	30,650	30,316	30,650
Research Support Program	37(c)	17,036	35,156	17,036	35,156
Other Capital Funding	37(e)	328	158	328	158
Australian Research Council	37(f)	17,102	15,124	17,102	15,124
Total CGS, Scholarship and Research Grants		237,602	264,512	237,602	264,512
Non-Capital		41,365	39,233	30,424	27,489
Total Other Australian Government financial assistance	_	41,365	39,233	30,424	27,489
Total Australian Government Grants		278,967	303,745	268,026	292,001
HELP - Australian Government payments	37(b)	239,549	238,272	239,549	238,272
Total Australian Government financial assistance	_	518,516	542,017	507,575	530,273

The following policy is applicable for notes 2 to 4 and 6 to 7.

#### Accounting Policy

#### AASB 15 Revenue from Contracts with Customers

In assessing the revenue recognition requirements, the Group firstly determines whether an enforceable agreement exists and whether the promise to transfer goods and services to the customer are sufficiently specific. If these conditions are met the Group applies the principles of AASB 15 Revenue from contracts with customers to determine the appropriate revenue recognition. Should these conditions not be met the transaction will not be in scope of AASB 15 Revenue from contracts with customers and the Group applies AASB 1058 Income of not-for-profit entities and/or other accounting standards for other related amounts. Refer AASB 1058 Income of not-for-profit entities below.

The Group considers the terms of the contract and funding agreements to determine the consideration the Group expects to receive; this amount is then allocated to the identified performance obligation(s).

At contract inception, the Group determines whether it satisfies the performance obligations over time or at a point in time. Typically, performance obligations are satisfied over time for services when the customer receives and consumes the benefits of the services.

For revenue assessed to be recognised over time, the Group has determined the input method as an appropriate method of measuring progress towards satisfaction of the performance obligations. These input methods are further described below for each major revenue stream of the Group.

If a performance obligation is not satisfied over time, it is deemed to be satisfied at a point in time. The Group determines the point in time by reference to when control of the good/service has been transferred to the customer. Examples of indicators of transfer of control include a present right to payment, delivery of goods and/or when the customer has accepted the good/service. At contract inception the Group allocates the total consideration to the performance obligations and will recognise the revenue when the control has been transferred to the customer.

Remaining performance obligations represent services the Group has promised to provide to customers under existing agreements which are satisfied as the services are provided over the contract term or at a point in time until the obligation is met. In determining the transaction price allocated to the remaining performance obligations, the Group assesses transaction price and any variable considerations contained within the contract with the customer.

Remaining performance obligations are associated with research and other contract obligations, including submission of required reports, publication of research data and results and transfer of intellectual property.

#### NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2022 | MACQUARIE UNIVERSITY ANNUAL REPORT 2022 103

#### 2 Australian Government financial assistance (continued)

#### AASB 1058 Income of not-for-profit entities

For contracts and agreements assessed as in scope of AASB 1058, the Group recognises income when the funds are received

For grants received to enable the Group to acquire or construct a specified non-financial asset to be controlled by the Group, a liability is recognised for the grants received and revenue is recognised as or when the Group acquires or constructs the asset under the terms of the grant.

#### Application of Revenue Standards for major revenue streams across the Group

Commonwealth Grants Scheme and Other Education Grants including Higher Education Loan Programs (HELP)

The University has determined that these grants and programs are in scope of AASB 15 Revenue from contracts with customers as an enforceable agreement exists with sufficiently specific performance obligations regarding the provision of tuition services.

Revenue is recognised over time in line with the calendar days over a teaching period. For funds received during the year pertaining to tuition services not delivered at the end of the reporting period, the University recognises unearned revenue, which is disclosed in note 27.

#### Research Training and Support Program

These grants do not contain sufficiently specific performance obligations; therefore these grants are recognised under AASB 1058 and income is recognised at the time the University receives the grant.

#### Research Revenue

Revenue recognition for research funding is dependent upon the source of the funding and the nature of the transactions. Research grants that are considered to be within the scope of AASB 15 meet the enforceability criteria due to the existence of refund clauses in the agreements with the grantor and the promises to transfer goods or services to the customer (or on behalf of the customer) are sufficiently specific as the University has the obligation to provide:

- Comprehensive research findings during or after completion,
- Publication of research data and results on an ongoing basis in an open access repository, if requested by the grantor, or;
- A licence or transfer of intellectual property if requested by the grantor.

Depending on the nature of the promise, the University either recognises revenue at a point in time when the promise is delivered or recognises revenue over time as the service is performed. Generally, research revenue is recognised over time using an input methodology, being expenditure incurred to date for the project.

There is no significant financing component as research contracts typically have a contract period of less than three years on average. The consideration is mostly fixed without highly probable variable components.

#### Medical Services Revenue

Medical services revenue as disclosed in the Income Statement is recognised at a point of time when medical services have been provided to the patient. Other services ancillary to the provision of medical services are recognised at a point in time and are based on the price specific in contracts and at point of sale, net of discounts and returns at the time of sale.

#### 3 State and local government financial assistance

Consolida	Parent		
<b>2022</b> 202		2022	2021
\$'000	\$'000	\$'000	\$'000
18,807	19,266	5,892	6,455
18,807	19,266	5,892	6,455
	2022 \$'000 18,807	\$'000 \$'000 18,807 19,266	2022       2021       2022         \$'000       \$'000       \$'000         18,807       19,266       5,892

During 2020, MQ Health Pty Ltd, a controlled entity within the Group, entered into a partnership agreement with NSW Health to provide COVID pandemic support functions from the private hospital at the request of NSW Health. In 2022, total payment of \$11.5m (2021: \$11.6m) was recorded as revenue in relation to this agreement.

#### NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2022 | MACQUARIE UNIVERSITY ANNUAL REPORT 2022 105

#### 4 Fees and charges

		Consolid	ated	nt		
		2022	2021	2022	2021	
		\$'000	\$'000	\$'000	\$'000	
Course Fees and Charges						
Fee-paying onshore overseas students		220,370	242,201	220,370	242,201	
Fee-paying offshore overseas students		10,845	10,404	10,845	10,404	
Continuing education		1,007	1,206	1,007	1,206	
Fee-paying domestic postgraduate students		16,658	17,327	16,658	17,327	
Fee-paying domestic undergraduate students		9,373	7,332	9,373	7,332	
Fee-paying domestic non-award students		5,230	5,330	5,230	5,330	
Other domestic course fees and charges	_	2,184	1,781	2,184	1,781	
Total Course Fees and Charges		265,667	285,581	265,667	285,581	
Other Non-Course Fees and Charges						
Parking fees		6,661	5,716	5,979	4,970	
Student accommodation		4,714	2,083	4,714	2,083	
Student Services and Amenities Fees from	37(i)					
students		6,976	7,660	6,976	7,660	
Service fees and other charges		7,500	6,047	7,500	6,047	
Total Other Non-Course Fees and Charges		25,851	21,506	25,169	20,760	
Total Fees and Charges		291,518	307,087	290,836	306,341	

Refer to note 27 for the accounting policies on unearned revenue student fees.

Accounting Policy

Course Fees and Charges revenue relates to undergraduate and graduate programs, continuing education and executive programs. Revenue is recognised over time based on the number of calendar days of a teaching period for each specific course.

Non-Course Fees and Charges revenue relates to student accommodation, parking fees, student services and amenities fees and other services. Revenue is recognised either:

- (a) over time as and when the services are provided and consumed by the customer, or;
- (b) at a point in time when control of the goods or services have been transferred to the customer.

#### 5 Investment income (net gains/losses)

	Consolidated		Paren	t
	2022 \$'000	2021 \$'000	2022 \$'000	2021 \$'000
Interest income Cash and term deposits at amortised cost	2,016	460	1,682	407
Fair value gains/(losses) Equity instruments at fair value through the Income Statement	(3,416)	(43,798)	(4,020)	(43,798)
<b>Dividends</b> Dividends from equity instruments at fair value through the Income Statement	415	84,109	413	84,109
Total investment revenue	(985)	40,771	(1,925)	40,718

The University holds 2.63% equity holding in Education Australia Limited (EAL), which at 31 December 2020 in turn held 40% equity in IDP Education Limited (IDP).

During 2021 the University received from EAL an in-specie distribution of 1,831,159 ordinary shares in IDP at a fair value of \$53.1m and a cash dividend of \$5.3m. These distributions were fully franked and the University has recognised franking credits receivable of \$22.7m as at 31 December 2022 (2021:\$25.1m). Refer to Note 15 for information on the franking credits receivable.

#### Accounting Policy

Interest income is recognised as it is earned, which is the effective interest method.

Dividends are recognised when:

- (a) the University's right to receive the payment is established, which is generally when shareholders approve the dividend
- (b) it is probable that the economic benefits associated with the dividend will flow to the entity; and,
- (c) the amount of the dividend can be measured reliably.

#### 6 Consultancy and contracts

	Consolida	Parent		
	2022	2021	2022	2021
	\$'000	\$'000	\$'000	\$'000
Consultancy	5,712	5,394	5,864	5,463
Contract research	40,363	32,078	40,363	32,078
Total consultancy and contracts	46,075	37,472	46,227	37,541

#### Accounting Policy

Consultancy and contract research in scope of AASB 15 Revenue from contracts with customers and assessed as revenue over time is measured using the input method of costs incurred as to most appropriately reflect the satisfaction of the underlying performance obligation i.e. the transfer of services to the customer.

For those contracts where revenue is assessed as point in time revenue recognition, revenue is recognised when the Group transfers control of the goods or services to the customer.

#### NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2022 | MACQUARIE UNIVERSITY ANNUAL REPORT 2022 107

#### 7 Other revenue and income

	Consolidated		Parent	•		
	2022	2021	2022	2021		
	\$'000	\$'000	\$'000	\$'000		
Childcare fees	7,927	7,012	-	-		
Commission income	877	400	709	349		
Donations and bequests	25,292	16,431	25,293	16,431		
Education and training revenue	276	18	276	18		
Food sales, hotel and retail	6,116	3,313	-	-		
Finance lease income	318	318	318	318		
Recoveries	1,366	1,476	7,725	10,633		
Rental charges	24,568	25,674	20,726	22,781		
Royalties, trademarks and licences	671	367	671	367		
Scholarships and prizes	846	650	846	650		
Sports and event fees	7,016	4,339	-	-		
Service concession income	1,274	1,274	1,274	1,274		
Other income	4,785	3,987	3,947	3,049		
Total other revenue	81,332	65,259	61,785	55,870		

Accounting Policy

#### (i) Other revenue and income

Other revenue and income includes donations, bequests and income from on-campus non-academic services including food, childcare, retail, hotel and sports facilities.

The Group considered the revenue recognition criteria under AASB 15 Revenue from contracts with customers for other revenue. Generally, the revenue recognition for these revenue streams is recognised at a point in time when the Group transfers control of the goods or provides the services to the customer. For these revenue streams, there is usually a non-material period between cash received from the customer and satisfaction of performance obligations.

Donation income is recognised upon receipt of the asset donated, to the extent that there are no specific performance obligations identified in the contract.

#### (ii) Rental charges

Income from leases is recognised in the Income Statement on a straight-line basis over the lease term, taking into account any lease incentives provided to the lessee and minimum known rental increases over the term of the lease.

#### (iii) Finance lease income

Finance lease income is recognised in the Income Statement over the lease period so as to produce a constant periodic rate of interest on the remaining balance of the receivable for each period.

#### (iv) Service concession income

Income in relation to service concession liabilities is recognised over the term of the service concession arrangement as access to the service concession assets is provided to the operator. Refer to note 27 for the accounting policy on service concession liabilities.

17,102

30,424 239,549

30,424

239,549

41,365 239,549

5,892

11,510

7,297

25,851

25,549 265,667

5,892 25,549 290,836 (1,925) 46,227 4,581 2,699 61,785

25,169 (1,925) 5,864 4,581 2,699

40,363

18,807 25,549 291,518 (985) 46,075 162,710 2,699 81,332

(985) 5,712 162,710 2,699

40,363

61,785

172,820 30,316 17,036 328

30,316 17,036 328 17,102

30,316 17,036 328 17,102

30,316 17,036 328

17,102

41,365

2022 \$'000 Total

2022 \$'000 Other

Research

Teaching

172,820

172,820

Parent 2022 \$'000

2022 \$'000

2022 \$'000 Total

\$.000

Consolidated

2022 \$.000

Other

Research

846,636 23,092

48,942

94,109

703,585

223,307 **1,033,347** 27,874 **27,874** 

106,455

943,219

73,491

26,139

47,352

85,000

37,648

47,352

288,829

853,896

45,565 63,817

81,304

727,027

1,020,172

82,887

17,081

65,806

95,487

6,455 19,750 306,341 40,718 37,541 3,652 55,870

20,760 40,718 5,463 3,652 55,870

32,078

183,424 30,650 35,156 158

30,650 35,156 158

2021 \$'000 Total

2021 \$'000 Other

\$.000 2021

Research

Teaching

\$'000 Total

2021

2021

Consolidated

183,424

183,424 30,650 35,156 158

Parent

2021 \$.000 27,489 238,272

6,455

19,750 285,581

19,266 19,750 307,087 40,771 37,472 150,800 65,259

15,124

15,124

15,124

27,489

238,272

39,233 238,272

# Disaggregation of revenue

2022	Teacl	172,820	•	•	•	•	•	239,549		•	25,549	265,667	•	•	•	•		703,585	•	703,585	ı	
	Note	2	2	2	2	2	2	2	8			4	5	9			7					
		Commonwealth Grants Scheme (CGS) and Other Education Grants	Research Training Program	Research Support Program	Other Capital Funding	Australian Research Council	Other Australian Government financial	Higher Education Loan Programs	Non-capital state and local government	assistance	HECS-HELP	Fees and Charges	Net investment losses	Consultancy and contracts	Medical services revenue	Net gains on disposal of assets	Other revenue	Total revenue and income from continuing operations	Total income of not-for-profit entities (AASB 1058)	Total revenue from contracts with customers (AASB 15)	Total other income¹	

Disaggregation of revenue (continued) œ

		2021	2021	2021
		\$.000	\$.000	\$,000
	Note	Teaching	Research	Other
Commonwealth Grants Scheme (CGS)	η			
and Other Education Grants		183,424	•	•
Research Training Program	7	•	30,650	•
Research Support Program	7	•	35,156	•
Other Capital Funding	7	•	158	•
Australian Research Council	7	•	15,124	•
Other Australian Government financial	7			
assistance		•	38,244	686
Higher Education Loan Programs	7	238,272	٠	•
Non-capital state and local government	က			
assistance		•	7,655	11,611
HECS-HELP		19,750	•	٠
Fees and Charges	4	285,581	•	21,506
Net investment revenue	2	•	•	40,771
Consultancy and contracts	9	•	32,078	5,394
Medical services revenue		•	٠	150,800
Other revenue	_	•		65,259
Total revenue and income from				
continuing operations	•	727,027	159,065	296,330
Total income of not-for-profit entities (AASB 1058)	,	'	65,806	29,681
Total revenue from contracts with customers (AASB 15)		727,027	93,259	199,886 1
Total other income¹		•		66,763
	I			

ognised under AASB	
nd service concession income recognised	
ASB 16 Leases and service cor	
sed under A	
B 9 Financial Instruments, lease income recogni	
come recognised under AASI	ts.
<sup>1</sup> The table also includes investment in	1059 Service Concession Arrangemen
힏	1059 Service Conces.

#### 9 Employee related expenses

	Consolid	Parent			
	2022	2021	2022	2021	
	\$'000	\$'000	\$'000	\$'000	
Academic					
Salaries	218,190	223,657	218,190	223,657	
Contributions to superannuation and pension schemes					
Contribution to funded schemes <sup>1</sup>	34,439	33,657	34,439	33,657	
Contribution to unfunded schemes <sup>2</sup>	100	103	100	103	
Payroll tax	12,909	12,003	12,909	12,003	
Workers' compensation	(48)	867	(48)	867	
Long service leave expense	8,658	4,196	8,658	4,196	
Annual leave expense	14,506	16,547	14,506	16,547	
Total academic	288,754	291,030	288,754	291,030	
Non-academic					
Salaries	291,016	282,124	192,742	192,168	
Contributions to superannuation and pension schemes					
Contribution to funded schemes <sup>1</sup>	40,471	37,826	30,934	29,417	
Contribution to unfunded schemes <sup>2</sup>	238	296	238	296	
Payroll tax	11,682	10,082	11,578	9,984	
Workers' compensation	75	1,493	(41)	757	
Long service leave expense	6,637	3,650	5,597	3,300	
Annual leave expense	13,730	15,206	13,725	14,048	
Total non-academic	363,849	350,677	254,773	249,970	
Total employee related expenses	652,603	641,707	543,527	541,000	
Deferred superannuation expense	385	(101)	385	(101)	
Total employee related expenses, including deferred employee benefits for superannuation	652,988	641,606	543,912	540,899	

<sup>&</sup>lt;sup>1</sup> Funded schemes include UniSuper and Self-Managed Super Funds.

Refer to note 26 for policies on employee benefits.

Reimbursement arrangements relating to SASS, SANCS and SSS from the Commonwealth and State Government under the Higher Education Superannuation Program (HESP) are explained in note 36(a) and quantified in note 36(f). In accordance with Department of Education Financial Statement Guidelines, these cash payments are not included in income or expenses.

NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2022 | MACQUARIE UNIVERSITY ANNUAL REPORT 2022 111

#### 10 Depreciation and amortisation

	Consolidated		Parent		
		2022	2021	2022	2021
	Note	\$'000	\$'000	\$'000	\$'000
Depreciation					
Buildings		41,031	41,634	41,031	41,634
Plant and equipment <sup>1</sup>		30,840	28,239	30,464	27,925
Infrastructure		5,514	5,698	5,514	5,698
Library Collection - General		686	1,638	686	1,638
Leasehold improvements		3,527	4,203	3,527	4,203
Total property, plant and equipment depreciation	21	81,598	81,412	81,222	81,098
Service concession asset	_	1,889	1,829	1,889	1,829
Total service concession asset depreciation	_	1,889	1,829	1,889	1,829
Amortisation					
Patents		45	31	45	31
IT software		5,211	5,137	5,206	5,128
Digital library collections		6,610	6,005	6,610	6,005
Total intangible amortisation	23	11,866	11,173	11,861	11,164
Buildings		5,974	7,862	5,872	7,623
Computer equipment		159	970	105	925
Total right-of-use assets depreciation	22	6,133	8,832	5,977	8,548
Total depreciation and amortisation		101,486	103,246	100,949	102,639
-	_				

Refer to note 16, 21, 22 for policies on depreciation and note 23 for policies on amortisation.

#### 11 Borrowing costs

	Consolidated		Parent	
	2022	2021	2022	2021
	\$'000	\$'000	\$'000	\$'000
Interest expense on lease liabilities	883	1,092	875	1,081
Interest and other costs on University-issued bonds	20,772	20,738	20,772	20,738
Bank facility and other costs	1,795	2,014	1,936	2,053
Borrowing costs	23,450	23,844	23,583	23,872
Less: amount capitalised	(2,344)	(6,951)	(2,344)	(6,951)
Total borrowing costs expensed	21,106	16,893	21,239	16,921

Accounting Policy

Borrowing costs are recognised as expenses in the period in which they are incurred, except where they are included in the costs of qualifying assets, in which case the borrowing costs directly attributable to the acquisition, construction or production of the asset is capitalised as part of the cost of that asset.

<sup>&</sup>lt;sup>2</sup> Unfunded schemes include the State Authorities Superannuation Scheme (SASS), State Authorities Non-contributory Superannuation Scheme (SANCS) and State Superannuation Scheme (SSS). Cash payments to these schemes relating to employer contributions for current employees are shown in this note.

<sup>&</sup>lt;sup>1</sup> Includes motor vehicles.

#### 12 Impairment of assets

		Consolidated		Parent	
		2022	2021	2022	2021
		\$'000	\$'000	\$'000	\$'000
Impairment of financial assets Trade receivables	15(a)	(304)	2.347	(304)	1,948
Impairment of non-financial assets		- (	-	(3.3.7)	
Property, plant and equipment (incl. Right-of-use assets)	21 22	-	4,749	-	4,749
		-	4,749	-	4,749
Total impairment of assets		(304)	7,096	(304)	6,697

During 2021, the University vacated a leased office space and was unable to sub-let it given the relatively short remaining lease term and market conditions for office space. The University assessed the asset for impairment and an impairment loss of \$2.9m was recognised to reduce the carrying amount of the asset to nil, which was determined by its fair value. The Group also incurred leasehold improvement costs for the office space and the corresponding carrying amount of \$1.5m was also fully impaired.

Refer to note 15 for the policies on impairment of financial assets, note 21 for policies on impairment of property, plant and equipment and note 22 for policies on impairment of right-of-use assets.

#### 13 Other expenses

	Consolidated		Parent	
	2022	2021	2022	2021
	\$'000	\$'000	\$'000	\$'000
Advertising, marketing and promotions	13,716	11,937	12,729	11,162
Agents commission	17,936	11,519	17,936	11,519
Audit fees, bank charges and legal costs	4,925	3,395	3,879	2,760
Insurance	5,529	4,608	5,529	4,608
Computing, IT and software	39,386	39,241	36,084	35,603
General consumables and materials	18,694	14,192	13,429	9,899
Non-capitalised equipment	4,645	4,282	3,768	3,301
Payments to research partners	6,935	4,786	6,935	4,786
Rental, hire and other leasing fees	6,768	7,077	6,327	6,806
Security	5,115	4,945	5,099	4,859
Subscriptions and copyright	14,852	13,623	14,782	13,546
Travel and training	13,073	3,090	13,246	2,861
Tuition services	7,850	7,570	7,850	7,570
Utilities and cleaning	20,536	18,182	20,519	18,137
Miscellaneous expenses	6,919	7,072	6,858	5,999
Total other expenses	186,879	155,519	174,970	143,416

#### NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2022 | MACQUARIE UNIVERSITY ANNUAL REPORT 2022 113

#### 13 Other expenses (continued)

Accounting Policy

(i) Repairs and Maintenance

Repairs and maintenance costs are shown on the face of the Income Statement. Repairs and maintenance are recognised as expenses as incurred, except where they relate to the replacement of a component of an asset, in which case the carrying amount of those parts that are replaced is derecognised and the cost of the replacing part is capitalised if the recognition criteria are met. Other routine operating maintenance, repair and minor renewal costs are recognised as expenses, as incurred.

(ii) Medical consumables

Medical consumables are shown on the face of the Income Statement. Medical consumables are recognised as expenses as incurred.

(iii) Scholarships and grants

Scholarships and grants are shown on the face of the Income Statement. Scholarship and grants are recognised as expenses as incurred.

(iv) Rental, hire and other leasing fees include lease charges incurred on short-term leases of \$33k (2021: \$20k) and low value leases, excluding short term leases of low-value assets of \$3.7m (2021: \$3.8m). Refer to Note 22 for the definition of low value leases.

All other expenses disclosed in Note 13 are recognised as expenses as incurred.

#### 14 Cash and cash equivalents

	Consolidated		Parent	
	2022	2021	2022	2021
	\$'000	\$'000	\$'000	\$'000
Cash and cash equivalents	81,248	102,871	55,631	84,000
Total cash and cash equivalent in the statement of financial position and statement of cash flows	81,248	102.871	55,631	84.000
Of Cash flows	81,248	102,871	55,631	84,00

Weighted average interest on consolidated cash and cash equivalents at 31 December 2022 is 3.35% (2021: 0.31%). Accounting Policy

Cash and cash equivalents include cash on hand, deposits held at call with financial institutions and other short-term and highly liquid investments with original maturities of 90 days or less that are readily convertible to known amounts of cash and which are subject to an insignificant risk of changes in value.

#### (a) Restricted Funds

Cash at bank and on hand includes:

- an amount of \$106k as at 31 December 2022 (2021: \$108k) for the purpose of meeting the objectives of the estate of the late F.J. Walsh bequest; and
- an amount of \$163k as at 31 December 2022 (2021: \$168k) for the purpose of meeting the objectives of the Nippon Foundation Fund.

#### 15 Receivables

	Consolidated		Parent		
		2022	2021	2022	2021
	Note	\$'000	\$'000	\$'000	\$'000
Current					
Receivables		30,275	26,025	16,858	11,072
Student fees receivables		11,167	11,278	11,167	11,278
Less: Provision for expected credit losses	15(a)	(6,932)	(9,514)	(5,516)	(7,969)
Related party receivables	29(d)	-	-	1,422	5,249
Total net receivables		34,510	27,789	23,931	19,630
Accrued income		40,006	48,279	31,943	35,534
Finance lease receivables	15(b)	1	1	1	1
Deferred government benefit for superannuation <sup>1</sup>	36(f)	29,299	30,769	29,299	30,769
Total current receivables	_	103,816	106,838	85,174	85,934
Non-current					
Finance lease receivables	15(b)	3,723	3,724	3,723	3,724
Deferred government benefit for superannuation <sup>1</sup>	36(f)	360,568	440,736	360,568	440,736
Other receivables		775	775	775	775
Total non-current receivables		365,066	445,235	365,066	445,235
Total receivables		468,882	552,073	450,240	531,169

<sup>&</sup>lt;sup>1</sup> State Authorities Superannuation Scheme (SASS) and State Superannuation Scheme (SSS) and State Authorities Non-contributory Superannuation Scheme (SANCS).

Refer to Note 36 for details of the deferred government benefit for superannuation receivable.

In 2021, the University recognised a receivable of \$22.7m relating to the expected receipt of franking credits arising from the in-specie distribution of IDP shares by Education Australia Limited and made a claim to the ATO accordingly. The ATO has advised that it considers the University is not eligible to make the claim and invited submissions on this position. The University remains confident of the grounds for the claim.

#### Accounting Policy

Trade receivables are non-interest bearing. Trade receivables are generally on terms of 30 days. Student receivables are due in accordance with a published payment date for each enrolled course unit or in accordance with individual payment plans agreed with students who are experiencing short-term financial difficulty.

For trade receivables, contract assets and lease receivables the University applies a simplified approach in calculating expected credit losses ("ECLs"), recognising a loss allowance based on lifetime ECLs at each reporting date. The University has established a provision matrix that is based on its historical credit loss experience, adjusted for forward looking factors specific to the debtors and the economic environment.

For finance lease receivables, the Group applies general approach in calculating ECLs, which are recognised in two stages. For credit exposures for which there has not been a significant increase in credit risk since initial recognition, ECLs are provided for credit losses that result from default events that are possible within the next 12-months (a 12-month ECL). For those credit exposures for which there has been a significant increase in credit risk since initial recognition, a loss allowance is required for credit losses expected over the remaining life of the exposure, irrespective of the timing of the default (a lifetime ECL). At each reporting date, the Group evaluates whether there has been a significant increase in credit risk using all reasonable and supportable information that is available, including forward-looking information without undue cost or effort.

The Group recognises accrued income when a contractual performance obligation has been satisfied but has not yet been invoiced to the customer or funding received from the customer.

NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2022 | MACQUARIE UNIVERSITY ANNUAL REPORT 2022 115

#### 15 Receivables (continued)

#### (a) Provision for expected credit losses

Set out below is the movement in the allowance for expected credit losses for receivables:

	Consolidated		Parent		
		2022	2021	2022	2021
	Note	\$'000	\$'000	\$'000	\$'000
At 1 January	15	9,514	8,918	7,969	6,466
Provision for expected credit losses	12	-	2,347	-	1,948
Receivables written off during the year as uncollectible		(2,278)	(1,751)	(2,149)	(445)
Unused balance reversal	12	(304)	-	(304)	<u>-</u>
At 31 December	15	6,932	9,514	5,516	7,969

#### (b) Finance lease receivables

(i) Finance leases

Accounting Policy

The University is lessor under a long term lease of land to an external organisation. This lease is classified as a finance lease as substantially all the risks and rewards of use of the land have been transferred to the lessee at inception of the lease.

Finance leases are recognised at the lease's inception at the lower of fair value of the leased asset and the present value of future minimum lease payments. The corresponding rent receivables, net of finance income, are included in receivables. Each lease receipt is allocated between the receivable and finance lease income.

(ii) Macquarie University Research Park

The University has entered into a finance lease with a third party organisation over land in the Macquarie University Research Park. At the end of the lease period, the building constructed by the lessees will revert to University ownership without consideration to the lessee.

(iii) Future minimum lease payments to the University under all non-cancellable finance leases

		Consolidated		Parent	
		2022	2021	2022	2021
		\$'000	\$'000	\$'000	\$'000
Within one year		271	271	271	271
Between one year and five years		1,082	1,082	1,082	1,082
Later than five years	_	20,495	20,765	20,495	20,765
Minimum lease payments		21,848	22,118	21,848	22,118
Less: Future finance charge		(18,124)	(18,393)	(18,124)	(18,393)
Total future minimum lease payments	15	3,724	3,725	3,724	3,725

#### 16 Service concession assets

	Consolidated		Parent	
	2022	2021	2022	2021
	\$'000	\$'000	\$'000	\$'000
Non-current				
At valuation	104,287	103,860	104,287	103,860
Accumulated depreciation	(322)	(308)	(322)	(308)
Total service concession asset	103,965	103,552	103,965	103,552

The University entered into a Student Accommodation Agreement with a third-party operator to manage and operate the student accommodation known as the Macquarie University Village Stage 1, and to build, manage and operate the student accommodation known as Macquarie University Village Stage 2. The period of the agreement is 30 years, which commenced in December 2006, and at the end of that time the student accommodation will revert to the University without any payment to the operator.

#### Accounting Policy

#### (i) Definition

An asset constructed for the University (as a public sector grantor) and upgrades or major component replacements for existing assets of the University by private operators, are recognised as a service concession asset when the University (grantor) has control over the asset.

#### (ii) Control of a Service Concession Asset

Control of service concession assets arises when the University controls or regulates:

- what services the operator must provide with the asset, and:
- to whom it must provide them, and;
- at what price the services must be provided.

Control assessment further requires that the University must control through ownership, beneficial entitlement, any significant residual interest in the asset at the end of the term of the arrangement.

Grantor also controls the asset if it will be used in a service concession arrangement for either its entire economic life or the major part of its economic life.

#### (iii) Asset construction and legal title

Service concession assets may be constructed:

- by the University;
- by the University and subsequently improved by a third party operator, or;
- by a third party operator.

Legal title is not a prerequisite for asset recognition.

#### (iv) Initial measurement and recognition

Service concession assets are initially recognised at fair value, which is their current replacement cost, in accordance with the cost approach to fair value in AASB 13 Fair Value Measurements. Assets are assigned an asset class, as defined in Note 21.

When an existing asset is used in a service concession arrangement, such an asset is reclassified as a service concession asset and measured at current replacement cost at the date of reclassification. At the date of reclassification, where there is a difference between the carrying amount of the asset and its fair value (current replacement cost) the difference is accounted for as a revaluation of the asset and recognised in other comprehensive income and accumulated in the asset revaluation reserve.

#### NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2022 | MACQUARIE UNIVERSITY ANNUAL REPORT 2022 117

#### 16 Service concession assets (continued)

#### (v) Subsequent costs, replacement of parts and repairs and maintenance

Subsequent costs, including replacement or upgrade of components of the service concession assets are recognised as an asset if they meet the recognition criteria as defined in Note 21. All other repairs and maintenance are charged to the Income Statement during the period in which they are incurred.

#### (vi) Subsequent measurement

After initial recognition or reclassification, service concession assets are carried at fair value less any depreciation and impairment using the methodologies described by asset class in Note 35.

Increases in the carrying amounts arising on revaluation of service concession assets are recognised in Other Comprehensive Income and accumulated in equity under Asset Revaluation Reserve.

Decreases that reverse previous increases of the same asset class are recognised in Other Comprehensive Income, to the extent of the remaining reserve attributable to their asset class. All other decreases are charged to the Income Statement.

#### (vii) Depreciation

Service concession assets are depreciated only when they are completed and ready for use.

Depreciation is calculated on a straight-line basis, net of an asset's residual value, over its expected useful life. Standard applicable rates by asset class are defined in Note 21.

#### (viii) Derecognition

At the end of the term of the service concession arrangement, the relevant service concession asset is reclassified to the relevant non-current asset class, and subsequently revalued in accordance with that asset type.

Refer to Note 27 for further details of the accounting policy relating to, and the impact of, service concession arrangements for the Group.

#### 17 Inventories

	Consolidated		Parent	
	2022	2021	2022	2021
	\$'000	\$'000	\$'000	\$'000
Current				
Medical supplies	4,058	4,295	-	-
Other inventories	1,136	1,363	148	109
Total current inventories	5,194	5,658	148	109

#### Accounting Policy

Inventories are valued at the lower of cost and net realisable value.

#### 18 Other financial assets

	Consolidated		Parent	
	2022	2021	2022	2021
	\$'000	\$'000	\$'000	\$'000
Current				
Restricted assets - term deposits held at amortised cost	4,746	4,743	4,746	4,743
Total current other financial assets	4,746	4,743	4,746	4,743
Non-current				
Third party equity investments held at fair value and revalued through the Income Statement	61,776	65,159	61,173	65,159
Restricted assets - term deposits held at amortised cost	184	<u>-</u>	184	
Total non-current other financial assets	61,960	65,159	61,357	65,159
Total other financial assets	66,706	69,902	66,103	69,902

Funds are invested in accordance with the Macquarie University Act 1989.

As at 31 December 2022, the Group held current term deposits subject to restrictions of \$4.7m (2021: \$4.7m). These amounts relate to donations and bequests from donors for the purpose of funding scholarships and prizes.

Accounting Policy

(i) Definition

A financial instrument is any contract that gives rise to a financial asset of one entity and a financial liability or equity instrument of another entity.

(ii) Initial recognition and measurement

Financial assets are classified, at initial recognition, as either:

- (a) subsequently measured at amortised cost, or;
- (b) fair value through Other Comprehensive Income (OCI), or;
- (c) fair value through the Income Statement.

The classification of financial assets at initial recognition depends on the financial asset's contractual cash flow characteristics and the University's business model for managing them. With the exception of trade receivables that do not contain a significant financing component, the University initially measures a financial asset at its fair value plus (in the case of a financial asset not at fair value through the Income Statement) transaction costs.

(iii) Subsequent measurement

For purposes of subsequent measurement, financial assets are classified as follows:

- Financial assets at amortised costs.
- Investments in equity instruments designated at fair value through OCI.
- Financial assets at fair value through the Income Statement.

#### Financial assets at amortised cost

The University measures financial assets at amortised cost if both of the following conditions are met:

- (a) The financial asset is held to hold financial assets in order to collect contractual cash flows, and;
- (b) The contractual terms of the financial asset give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding.

Financial assets at amortised cost are subsequently measured using the effective interest (EIR) method and are

#### NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2022 | MACQUARIE UNIVERSITY ANNUAL REPORT 2022 119

#### 18 Other financial assets (continued)

subject to impairment. Gains and losses are recognised in the Income Statement when the asset is derecognised, modified or impaired.

The University has trade receivables as shown in note 15 and term deposits in this category.

#### Investments in equity instruments designated at fair value through OCI

Upon initial recognition, the University can elect to classify irrevocably its equity investments as equity instruments designated at fair value through OCI when they meet the definition of equity under AASB132 Financial Instruments: Presentation and are not held for trading. The classification is determined on an instrument-by-instrument basis.

Gains and losses on these financial assets are never recycled to the Income Statement. Dividends are recognised as other income in the Income Statement when the right of payment has been established, except when the University benefits from such proceeds as a recovery of part of the cost of the financial asset, in which case, such gains are recorded in OCI. Equity instruments designated at fair value through OCI are not subject to impairment allocation.

The University made an irrevocable election, on adoption of AASB 9 Financial Instruments, to classify its equity investments in Controlled Entities under this category. These assets are shown in Note 19.

#### Financial assets at fair value through the Income Statement

Financial assets at fair value through the Income Statement are carried in the Statement of Financial Position at fair value with net changes in fair value recognised in the income statement. The University holds all third-party equity investments in this category. Dividends on these third-party equity investments are also recognised in the Income Statement when the right of payment has been established.

(iv) Derecognition

A financial asset is usually derecognised when the rights to receive cash flows from the asset have expired.

(v) Offsetting

Financial assets and financial liabilities are offset and the net amount is reported in the consolidated Statement of Financial Position if there is a currently enforceable legal right to offset the recognised amounts and there is an intention to settle on a net basis, to realise the assets and settle the liabilities simultaneously.

#### 19 Investments in controlled entities

		Consolidated		Parent	
		2022 \$'000	2021 \$'000	2022 \$'000	2021 \$'000
Non-current					
Investment in MQ Health Pty Ltd - investment: Class B Funding Shares	29(d)	-	-	98,799	98,799
Total non-current investment in controlled entities	_	-	-	98,799	98,799

#### Accounting Policy

Investments in all controlled entities are measured at fair value. Fair valuation techniques for this asset are discussed in Note 35.

The University has irrevocably elected to reflect changes in the fair value of this asset class via the Statement of Other Comprehensive Income. The University believes this has the effect of improving stability and understandability of the parent Income Statement, which is helpful for external users of the accounts. It also more accurately reflects the long-term nature of these investments.

#### 20 Other non-financial assets

	Consolida	ited	Parent	
	2022	2021	2022	2021
	\$'000	\$'000	\$'000	\$'000
Current				
Prepayments	23,584	20,192	22,851	19,531
Lease asset - lessor	2,170	2,101	2,170	2,101
Total current other non-financial assets	25,754	22,293	25,021	21,632
Non-current				
Lease asset - lessor	6,961	9,131	6,961	9,131
Total other non-financial assets	32,715	31,424	31,982	30,763

#### Accounting Policy

The University recognises a prepayment as an asset when payments for goods or services have been made in advance of the University obtaining a right to access those goods or services.

Lease assets where the University is the lessor relates to assets recognised where the University has offered lease incentives to lessees. An asset is recognised at commencement date for the value of the incentive and is amortised over the lease period.

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#### 20 Other non-financial assets (continued)

#### (a) Operating leases - as lessor

Future minimum lease payments to be received under non-cancellable operating leases:

	Consolida	ated	Parent	•
	2022	2021	2022	2021
	\$'000	\$'000	\$'000	\$'000
Within one year	22,823	26,617	21,342	24,830
Between one year and five years	50,176	66,295	47,819	62,640
Later than five years	7,423	6,339	7,065	5,801
	80,422	99,251	76,226	93,271

Macquarie University leases out various strategically held properties, including the Hearing Hub, the Cochlear building, and several properties within the Macquarie University Research Park.

Accounting Policy

Future minimum lease payments under non-cancellable operating leases are shown undiscounted and inclusive of GST liability.

# 21 Property, plant and equipment

		Construction in progress	Land	Buildings	Plant and Leasehold equipment¹ improvements	Leasehold nprovements	Library General	Library Special	Works of Art Infi	of Art Infrastructure	Total
Parent	Note	\$.000	\$.000	\$.000	\$.000	\$.000	\$,000	\$,000	\$.000	\$.000	\$,000
<b>At 1 January 2021</b> - Cost		253,981	'	1	322,644	32,127	14,021	1		•	622,773
- Valuation		•	821,279	1,434,401	•		•	6,756	40,620	127,869	2,430,925
Accumulated depreciation and impairment	•		'	(5,820)	(189,843)	(10,606)	(11,389)	,	'	(870)	(218,528)
Net book amount	•	253,981	821,279	1,428,581	132,801	21,521	2,632	6,756	40,620	126,999	2,835,170
Year ended 31 December 2021 Opening net book amount		253,981	821,279	1,428,581	132,801	21,521	2,632	6,756	40,620	126,999	2,835,170
Additions		63,810	'	1	16,370		295		3,281		83,756
Recognised in Other Comprehensive income - Revaluation surplus/(loss) on			2								6
property, plant and equipment		•	000,81	32,002	1 (099)	, (0,		•		(4,939)	42,903
Disposais Depreciation charge	10		(70)	(41,634)	(990) (27,925)	(4,203)	(1,638)			(5,698)	(803) (81,098)
Transfer between asset classes/reclassification		(277,729)	'	226,888	50,911	1,022	95	•	•	4,460	5,644
Impairment losses	•	. 1	1	'	(398)	(1,521)		'		'	(1,887)
Closing net book amount	•	40,062	834,212	1,646,697	171,131	16,801	1,381	6,756	43,901	122,744	2,883,685
At 31 December 2021 - Cost		40,062	'	'	353,544	29,978	8,122				431,706
- Valuation			834,212	1,653,319		•		6,756	43,901	123,579	2,661,767
Accumulated depreciation and impairment	•	'	'	(6,622)	(182,413)	(13,177)	(6,741)	,	'	(835)	(209,788)
Net book amount	•	40,062	834,212	1,646,697	171,131	16,801	1,381	6,756	43,901	122,744	2,883,685

# rioperty, plant and equipment (continued

Parent	Note	Construction in progress \$'000	Land \$'000	Buildings \$'000	Plant and Leasehold equipment¹ improvements \$'000	Leasehold provements \$'000	Library General \$'000	Library Special \$'000	Works of Art Infi \$'000	s of Art Infrastructure 000 \$1000	Total \$'000
Year ended 31 December 2022 Opening net book amount Additions	'	40,062	834,212	1,646,697	171,131	16,801	1,381	6,756	43,901	122,744	2,883,685
Recognised in Other Comprehensive income - Revaluation surplus/(loss) on property, plant and equipment		•	17,237	62,875			•	715	(1,625)	6,431	85,633
Disposals Depreciation charge	10		(679)	- (41,031)	(622) (30,464)	. (3,527)	- (989)			- (5,514)	(1,201) (81,222)
Transfer between asset classes  Closing net book amount	'	(49,884)	- 850,870	25,682	23,363	13,364	- 695	7,471	54,728	124,412	(82)
At 31 December 2022 - Cost - Valuation	l	71,681	- 850.870	850.870 1.701.415	387,470	30,068	2,362	- 174.7	54.728	125.389	491,581
Accumulated depreciation and impairment	'		1	(7,192)	(205,286)	(16,704)	(1,667)		'		(231,826)
Net book amount	'	71,681	850,870	850,870 1,694,223	182,184	13,364	695	7,471	54,728	124,412 2,999,628	2,999,628

<sup>&</sup>lt;sup>1</sup> Plant and equipment include motor vehicles.

(continued)
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21 Property, plant and equipment (continued)	tinued)										
		Construction in progress	Land	Buildings	Plant and equipment¹ i	Plant and Leasehold equipment¹ improvements	Library General	Library Special	Works of Art In	of Art Infrastructure	Total
Consolidated	Note	\$.000	\$.000	\$.000	\$.000	\$.000	\$.000	\$.000	\$.000	\$.000	\$.000
<b>At 1 January 2021</b> - Cost		254,072	1	1	327,937	32,127	14,021		1	•	628,157
- Valuation		1	821,279	1,434,401	•	1	•	6,756	40,620	127,869	2,430,925
Accumulated depreciation	•	'		(5,820)	(194,161)	(10,606)	(11,389)			(870)	(222,846)
Net book amount	•	254,072	821,279	1,428,581	133,776	21,521	2,632	6,756	40,620	126,999	2,836,236
Year ended 31 December 2021 Opening net book amount	!	254,072	821,279	1,428,581	133,776	21,521	2,632	6,756	40,620	126,999	2,836,236
Additions	•	63,911	,	'	16,390	•	295	,	3,281		83,877
Recognised in other comprehensive income - Revaluation surplus/(loss) on property, plant and equipment		•	13,000	32,862	1	•	1	•	1	(2,959)	42,903
Disposals		•	(67)	•	(989)	(18)	•	•	•	(28)	(828)
Depreciation charge	10	1	•	(41,634)	(28,239)	(4,203)	(1,638)	•	٠	(5,698)	(81,412)
Transfer between asset classes		(277,921)	•	226,888	51,103	1,022	92	•	•	4,460	5,644
Impairment losses	•	•	'		(366)	(1,521)	•	'			(1,887)
Closing net book amount	•	40,062	834,212	1,646,697	171,978	16,801	1,381	6,756	43,901	122,744	2,884,532
<b>At 31 December 2021</b> - Cost		40,062		'	358,835	29,978	8,122	•		•	436,997
- Valuation		•	834,212	1,653,319	•	•	•	6,756	43,901	123,579	2,661,767
Accumulated depreciation	•	1	'	(6,622)	(186,857)	(13,177)	(6,741)	'	'	(835)	(214,232)
Net book amount	•	40,062	834,212	1,646,697	171,978	16,801	1,381	6,756	43,901	122,744	2,884,532

Property, plant and equipment (continued) 7

		Construction in progress	Land	Buildings	Plant and Leasehold equipment¹ improvements	Leasehold provements	Library General	Library Special	Works of Art Inf	of Art Infrastructure	Total
Consolidated	Note	\$.000	\$.000	\$.000	\$.000	\$.000	\$.000	\$.000	\$.000	\$.000	\$.000
Year ended 31 December 2022 Opening net book amount		40.062	834.212	.212 1.646.697	171.978	16.801	1.381	6.756	43.901	122.744	122.744 2.884.532
Additions	•	81,530	'		19,730	84			12,452		113,796
Recognised in Other Comprehensive Income											
<ul> <li>Revaluation surplus/(loss) on property, plant and equipment</li> </ul>		•	17,237	62,875		•	٠	715	(1,625)	6,431	85,633
Disposals		•	(629)	•	(627)	•	•	•	•	•	(1,206)
Depreciation charge	10	•	•	(41,031)	(30,840)	(3,527)	(989)	•	•	(5,514)	(81,598)
Transfer between asset classes	•	(49,884)		25,682	23,363	9	•		•	751	(82)
Closing net book amount	•	71,708	850,870	,870 1,694,223	183,604	13,364	695	7,471	54,728	124,412	124,412 3,001,075
At 31 December 2022 - Cost		71,708	'		392,393	30,068	2,362	•	•	•	496,531
- Valuation		•	850,870	,870 1,701,415	•	•	•	7,471	54,728	125,389	2,739,873
Accumulated depreciation and impairment	•		'	(7,192)	(208,789)	(16,704)	(1,667)	'		(977)	(235,329)
Net book amount		71,708	850,870	,870 1,694,223	183,604	13,364	695	7,471	54,728	124,412	124,412 3,001,075

<sup>1</sup>Plant and equipment include motor vehicles.

#### 21 Property, plant and equipment (continued)

#### (a) Capital commitments

Capital expenditures contracted for various buildings capital projects at the reporting date but not recognised as liabilities as at 31 December 2022 are as follows:

	Consolida	nted	Parent	
	2022	2021	2022	2021
	\$'000	\$'000	\$'000	\$'000
Within one year	74,131	31,114	74,131	30,266
Between one year and five years	1,022	-	1,022	
Total capital commitments	75,153	31,114	75,153	30,266

#### **Accounting Policy**

Capital commitments are shown undiscounted, and inclusive of GST liability.

#### (i) Definition

Property, plant and equipment are tangible items that:

- are held for use in the production or supply of goods or services, for rental to others, or for administrative purposes;
   and
- are expected to be used during more than one period.

#### (ii) Recognition

An item of property, plant and equipment can be recognised as an asset if:

- it is probable that future economic benefits associated with the item will flow to the entity, and;
- The cost of the item can be measured reliably.

An item of property, plant and equipment that qualifies for recognition as an asset is initially measured at cost, which includes both the purchase price (net of discounts and rebates) and costs directly attributable to bringing the asset to the location and condition necessary for it to operate (including incremental employee costs, site preparation, delivery, installation, assembly costs and professional fees).

Where an asset is acquired or gifted at no or nominal cost, the cost is its fair value as at the date of acquisition.

#### (iii) Capitalisation thresholds and collective asset

Acquisitions and additions of non-current assets are capitalised if the value is more than \$5,000.

Where individual items are less than this amount, but the purchase total is collectively greater than the capitalisation limit, the collective total may be capitalised.

#### (iv) Subsequent costs, replacement of parts and repairs and maintenance

Subsequent costs, including replacement of parts, are recognised as an asset only if they meet the recognition criteria above. The carrying value of those parts that are replaced are derecognised in accordance with derecognition criteria below.

All other repairs and maintenance are charged to the Income Statement during the financial period in which they are incurred.

#### (v) Derecognition

The carrying amount of a capital asset shall be derecognised:

- On disposal, or;
- When no future economic benefits are expected from its use.

The gain or loss on derecognition is the difference between the net proceeds (if any) and the carrying amount of the item at the date of disposal. The gain or loss is recognised in the Income Statement.

#### (vi) Subsequent re-measurements by asset class

All PPE asset classes are measured at fair value, using the methodologies described in the Note 35 Fair Value Measurement, except for the following classes, which are measured at depreciated historic cost: Plant and Equipment; Leasehold Improvements; Library General, and Construction in Progress. There are no material differences between

#### NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2022 | MACQUARIE UNIVERSITY ANNUAL REPORT 2022 127

#### 21 Property, plant and equipment (continued)

the fair value and the carrying value of these assets.

#### (vii) Fair value revaluation adjustments

Any accumulated depreciation at the date of revaluation is eliminated against the gross carrying amount of the asset and the carrying amount is adjusted to the revalued amount of the asset.

Increases in the carrying amounts arising on revaluation of property, plant and equipment are recognised in Other Comprehensive Income and accumulated in equity under the heading of Asset Revaluation Reserve.

Decreases that reverse previous increases of the same asset class are recognised in Other Comprehensive Income, to the extent of the remaining reserve attributable to the asset class. All other decreases are charged to the Income Statement.

#### (viii) Depreciation

Property, plant and equipment are depreciated only when they are completed and ready for use. Depreciation is calculated on a straight-line basis, net of an asset's residual value, over its expected useful life. Standard applicable rates by asset type are:

Asset	2022 and 2021
Construction in progress	N/A
Land	N/A
Buildings	10 - 60 years
Plant and equipment	3 - 10 years
Leasehold improvements	Term of lease
Library Collections: General	5 years
Library Collections: Special	N/A
Works of Art	N/A
Infrastructure	10 - 60 years

#### (ix) Asset residual values and useful lives

Asset residual values and useful lives are reviewed annually, and adjusted if appropriate, incorporating external valuers' information where relevant. The carrying amount of an asset held at depreciated historic cost is written down immediately to its recoverable amount if the asset's carrying amount is greater than its estimated recoverable amount.

#### (x) Purpose of property ownership

All property held by the University is held for strategic purposes. In accordance with AASB 140 Investment Properties (para Aus 9.1), buildings are therefore accounted for under AASB 116 Property, Plant and Equipment rather than AASB 140 Investment Property.

#### (xi) Impairment

The Group assesses those assets that are measured at depreciated historic cost, at each reporting date, where there is an indication that an asset may be impaired. If any indication exists, or when annual impairment testing for an asset is required, the Group estimates the asset's recoverable amount. An asset's recoverable amount is the higher of an asset's or CGU's fair value less cost of disposal and its value in use. The recoverable amount is determined for an individual asset, unless the asset does not generate cash inflows that are largely independent of those from other assets or group of assets. When the carrying amount of an asset or CGU exceeds its recoverable amount, the asset is considered impaired and is written down to its recoverable amount.

#### 22 Right-of-use assets and liabilities

			Cons	solidated			Parent
	Note	Buildings \$'000	Plant and Equipment \$'000	Total	Buildings \$'000	Plant and Equipment \$'000	Total \$'000
A4.4 January 2024	11010	Ψ 000	Ψ 000	ΨΟΟΟ	ΨΟΟΟ	ΨΟΟΟ	ΨΟΟΟ
At 1 January 2021 - Cost - Accumulated depreciation		52,205 (14,455)	3,347 (2,297)	55,552 (16,752)	51,296 (13,793)	3,348 (2,297)	54,644 (16,090)
Net book amount	•	37,750	1,050	38,800	37,503	1,051	38,554
Year ended 31 December 2021	•		1,000		01,000	1,001	33,001
Opening net book amount Additions		37,750 644	1,050 272	38,800 916	37,503 336	1,051	38,554 336
Disposals Impairment loss		(274) (2,862)	(20)	(294) (2,862)	(230) (2,862)	(21)	(251) (2,862)
Depreciation charge	10	(7,862)	(970)	(8,832)	(7,623)	(925)	(8,548)
Closing net book amount At 31 December 2021		27,396	332	27,728	27,124	105	27,229
- Cost		51,363	3,452	54,815	50,837	3,180	54,017
- Accumulated depreciation and impairment		(23,967)	(3,120)	(27,087)	(23,713)	(3,075)	(26,788)
Net book amount		27,396	332	27,728	27,124	105	27,229
Year ended 31 December 2022							
Opening net book amount		27,396	332	27,728	27,124	105	27,229
Additions	10	1,302	- (4E0)	1,302	1,301	- (40E)	1,301
Depreciation charge	•	(5,974)	(159)	(6,133)	(5,872)	(105)	(5,977)
Closing net book amount At 31 December 2022	•	22,724	173	22,897	22,553	<u>-</u>	22,553
- Cost		52,451	272	52,723	52,138	-	52,138
<ul> <li>Accumulated depreciation and impairment</li> </ul>		(29,727)	(99)	(29,826)	(29,585)	-	(29,585)
Net book amount		22,724	173		22,553		22,553
Lease liabilities as lessee							
			Cons	solidated		Parent	
			2022	2021		2022	2021
			\$'000	\$'000		\$'000	\$'000
Current - lease liabilities			6,766	8,052		6,646	7,897
Non current - lease liabilities		2	20,007	25,184	1	9,754	24,811
At 31 December		2	.6,773	33,236	2	6,400	32,708

#### NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2022 | MACQUARIE UNIVERSITY ANNUAL REPORT 2022 129

#### 22 Right-of-use assets and liabilities (continued)

The Group has leases for buildings and equipment, and these are recorded in accordance with AASB 16 Leases.

#### **Buildings**

The Group has entered into property leases with third party organisations. The lease periods range 3 to 12 years. These leases are subject to market rent review and rental increases as per the terms of the contracts. Other variable considerations such as outgoings are expensed in the Income Statement in the period in which they relate to. The lease term is determined at inception based on management's best estimate on the likelihood of exercising the options.

#### Plant and Equipment

The Group has leases for IT equipment and other equipment. The lease periods for equipment range 4 to 5 years. The lease payments are fixed and are not subject to increases over the lease term.

#### **COVID-19 Related Rent Concessions**

The Group has provided rent concessions to lessees and has received rent concessions from lessors as a result of the COVID-19 pandemic. Rent concessions include rent holidays or rent reductions for a period of time. As a result, \$27k (2021: \$55k) was charged to the Income Statement to reflect the changes in lease payments that arise from such rent concessions from a third party lessor.

#### Accounting Policy

#### (i) Definition of a Lease

A contract is a lease if the contract conveys a right to control the use of an identified asset for a period of time in exchange for consideration. Indicators of control of include:

- a) The lessee has the right to obtain substantially all of the economic benefits from the use of the asset throughout the period of use, or;
- b) The customer has the right to direct the use of the asset throughout the period of use.

The contract does not contain a lease if the supplier has the substantive right to substitute the asset throughout the period of use.

A right of use asset is an asset that represents a lessee's right to use an underlying asset for the lease term.

The Group has elected not to recognise right-of-use assets and lease liabilities:

- a) where the leases term is 12 months or less, or;
- b) where the value of the leased asset as new is assessed as being low value. The Group has applied a threshold of \$50k.

The Group recognises right-of-use assets for leases that have significantly below-market terms and conditions principally to enable the entity to further its objective (concessionary leases) at cost.

#### (ii) Recognition

In contracts where the Group is a lessee, a right of use asset and lease liability is recognised at the commencement date of the lease.

#### (iii) Measurement

A lease liability is initially measured at the present value of unpaid lease payments at the commencement date of the lease. To calculate the present value, the unpaid lease payments are discounted using the interest rate implicit in the lease if the rate is readily determinable. If the interest rate implicit in the lease cannot be readily determined, the incremental borrowing rate at the commencement date of the lease is used.

For a contract that contains a lease component and one or more additional lease or non-lease components, the Group allocates the consideration in the contract to each lease component on the basis of the relative stand-alone price of the lease component and the aggregate stand-alone price of the non-lease components.

A right-of-use asset is initially measured at cost comprising the initial measurement of the lease liability adjusted for any lease payments made before the commencement date less lease incentives received, plus other direct costs required by the lease.

#### 22 Right-of-use assets and liabilities (continued)

#### (iv) Subsequent remeasurement

After commencement date, the lease liability is reduced to reflect the lease payments made and increased to reflect the interest on the lease liability.

The lease liability is remeasured to reflect any lease reassessments or lease modifications. Lease reassessments can include when there are changes in future lease payments arising from a change in an index or rate or change in lease term. Lease modifications can include a change in the scope of the lease. The lease liability is remeasured by discounting the revised lease payments. Right-of-use assets are measured at cost less accumulated amortisation and adjusted for any remeasurements of the lease liability.

Right of use assets are subject to the impairment requirements of AASB 136 Impairment of assets. Refer to Note 21 for the policies on impairment.

#### (v) Rental concessions due to COVID-19

AASB 2020-4 Amendments to Australian Accounting Standards - COVID-19 Related Rent Concessions and AASB 2021-3 Amendments to Australian Accounting Standards - COVID-19 Related Rent Concessions beyond 30 June 2021 provides relief to lessees from applying AASB 16 Leases on lease modification accounting for rent concessions arising as a direct consequence of the COVID-19 pandemic. Where the Group has received rental concessions that meet the requirements of these Standards, the Group has remeasured the lease liability and recognised as other revenue the rental relief. The timing of the recognition of the revenue is dependent on the conditions of the relief offered.

					Ö	Consolidated					Parent
		Construction in progress	Patents	IT Patents software	Digital library collection	Total	Construction in progress	Patents	IT Patents software	Digital library collection	Total
	Note	\$,000	\$.000	\$,000	\$,000	\$,000	\$,000	\$.000	\$,000	\$,000	\$.000
At 1 January 2021											
- Cost		20,735	775	34,934	75,094	131,538	20,735	775	34,661	75,094	131,265
- Accumulated amortisation	•	'	(295)	(19,983)	(42,042)	(62,320)	'	(295)	(19,728)	(42,042)	(62,065)
Net book amount	•	20,735	480	14,951	33,052	69,218	20,735	480	14,933	33,052	69,200
Year ended 31 December 2021											
Opening net book amount		20,735	480	14,951	33,052	69,218	20,735	480	14,933	33,052	69,200
Additions		8,304	'	•	3,421	11,725	8,304	'	•	3,421	11,725
Amortisation charge		•	(31)	(5,137)	(6,005)	(11,173)	•	(31)	(5,128)	(6,005)	(11,164)
Disposals		(319)	•	•	•	(319)	(319)	•	•	٠	(319)
Transfer between asset classes	,	(17,297)	1	7,166	4,486	(5,644)	(17,297)	1	7,166	4,486	(5,644)
Closing net book amount	•	11,423	450	16,980	34,954	63,807	11,423	450	16,971	34,954	63,798
At 31 December 2021											
- Cost		11,423	775	41,996	75,531	129,725	11,423	775	41,723	75,531	129,452
- Accumulated amortisation	'		(325)	(25,016)	(40,577)	(65,918)	'	(325)	(24,752)	(40,577)	(65,654)
Net book amount	'	11,423	450	16,980	34,954	63,807	11,423	450	16,971	34,954	63,798
Year ended 31 December 2022											
Opening net book amount		11,423	450	16,980	34,954	63,807	11,423	450	16,971	34,954	63,798
Additions		1,830	•	•	3,157	4,987	1,830	•	•	3,157	4,987
Amortisation charge	10	•	(45)	(5,211)	(6,610)	(11,866)	•	(42)	(5,206)	(6,610)	(11,861)
Disposals		(22)	(253)	Ξ	•	(276)	(22)	(253)	Ξ	•	(276)
Transfer between asset classes	•	(6,730)	692	1,379	4,741	82	(6,730)	692	1,379	4,741	82
Closing net book amount		6,501	844	13,147	36,242	56,734	6,501	844	13,143	36,242	56,730
At 31 December 2022				•							
- Cost		6,501	1,010	43,263	76,907	127,681	6,501	1,010	43,073	76,907	127,491
- Accumulated amortisation	•	1	(166)	(30,116)	(40,665)	(70,947)	'	(166)	(29,930)	(40,665)	(70,761)
Net book amount		6.501	844	13.147	36 242	56 734	6 501	844	13.143	36.242	56.730

NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2022 | MACQUARIE UNIVERSITY ANNUAL REPORT 2022 131

3 Intangible

#### 23 Intangible assets (continued)

There's no capital commitments for intangible assets as at 31 December 2022 (2021: nil).

Accounting Policy

(i) Definition

An intangible asset is an identifiable non-monetary asset without physical substance.

(ii) Recognition

An intangible asset is recognised if, and only if:

- it is probable that the expected future economic benefits that are attributable to the asset will flow to the entity; and
- to restrict the access of others to those benefits; and
- the cost of the asset can be reliably measured.
- (iii) Patents

Patents are recognised as assets if they meet the criteria outlined above.

- (iv) IT Software
- (a) Software-as-a-Service (SaaS) arrangements

Where costs incurred to configure or customise SaaS arrangements that do not result in the recognition of an intangible asset, those costs that provide the Group with a distinct service (in addition to the SaaS access) are recognised as expenses when the supplier provide the services. When such costs incurred do not provide a distinct service, the costs are capitalised as prepayments and are recognised as expenses over the duration of the SaaS contracts.

In the process of applying the Group's accounting policy on configuration and customisation of costs incurred in implementing SaaS arrangements, management has made the following judgements which have the most significant effect on the amounts recognised in the consolidated financial statements.

Determining whether cloud computing arrangements contain an intangible asset

- The Group evaluates cloud computing arrangements to determine if they provide resources that the Group can control.
   The Group determines that a software licence intangible asset exists in a cloud computing arrangement when both of the following are met at the inception of the arrangement:
  - The Group has the contractual right to take possession of the software during the hosting period without significant penalty.
  - It is feasible for the Group to run the software on its own hardware or contract with another party unrelated to the supplier to host the software.

Capitalisation of configuration and customisation costs in SaaS arrangements

Where the Group incurs costs to configure or customise SaaS arrangements and such costs are considered to enhance current on-premise software or provide code that can be used by the Group in other arrangements, the Group applies judgement to assess whether such costs result in the creation of an intangible asset that meets the definition and recognition criteria in AASB138 Intangible assets.

(b) Website costs

Costs in relation to websites controlled by the Group from development are recognised as an intangible asset if, and only if, in addition to complying with the general requirements described above for recognition, the Group can satisfy the requirements on how the website will generate probable future economic benefits in accordance with AASB.138.57(d), for example the website is capable of generating revenues from enabling orders to be placed. Otherwise all costs in developing a website are recognised as an expense when incurred.

(c) Other IT Software

All other IT software assets are recognised in accordance recognition and measurement policies for intangible assets.

(v) Digital Library assets

Digital library assets include licences and subscriptions costs paid to gain access to purchased information. Such costs can only be capitalised where the license includes perpetual access rights to the purchased information.

#### NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2022 | MACQUARIE UNIVERSITY ANNUAL REPORT 2022 133

#### 23 Intangible assets (continued)

#### (vi) Initial Recognition

An intangible asset shall be measured at cost. Where an asset is acquired at no cost, or for a nominal cost, the deemed cost is its fair value as at the date of acquisition.

#### (vii) Amortisation

Intangible assets are amortised when they are completed and ready for use. Amortisation is calculated on a straight-line basis over the assets estimated useful lives, which are reviewed regularly. Standard applicable rates by asset type are

Asset	2022 and 2021
Patents	20 years
IT software	3-10 years
Digital library collections	10 years

#### (viii) Impairment

Intangible assets are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. An impairment loss is recognised for the amount by which the asset's carrying amount exceeds its recoverable amount, being the higher of the asset's fair value less costs of disposal, and its value-in-use.

#### 24 Trade and other payables

		Consolidated		Parent	
		2022	2021	2022	2021
	Note	\$'000	\$'000	\$'000	\$'000
Current					
Trade payables		36,732	37,571	28,077	27,208
Accrued expenses		63,616	67,824	52,168	59,486
Related parties payables	29(d)	-	-	1,276	1,237
OS-HELP Liability to Australian Government	37(g)	3,544	3,601	3,544	3,601
Total trade and other payables		103,892	108,996	85,065	91,532

#### Accounting Policy

Trade payables are recognised when the University becomes obliged to make future payments as a result of purchases or other obligations. These liabilities are measured at original cost, which is not materially different to amortised cost due to the short-term nature of liabilities. The amounts are unsecured and are usually paid within 30 days of recognition.

Total trade and other payables include \$3.9m (2021: \$2.8m) denominated in currencies other than Australian dollars.

#### 25 Borrowings

		Consolidated		Parent	
	Note	2022 \$'000	2021 \$'000	2022 \$'000	2021 \$'000
Current Unsecured controlled entity loans	25(a)		<u>-</u>	10,460	7,900
Total current borrowings	<u> </u>	<u> </u>	<u> </u>	10,460	7,900
Non-current Unsecured University-issued bonds	25(b)	645,815	645,315	645,815	645,315
Total non-current borrowings		645,815	645,315	645,815	645,315
Total borrowings		645,815	645,315	656,275	653,215

#### Accounting Policy

Borrowings are initially recognised at fair value, net of transaction costs incurred. Borrowings are subsequently measured at amortised cost. Any difference between the proceeds (net of transaction costs) and the redemption amount is recognised in the Income Statement over the period of the borrowings using the effective interest method. Fees paid on the establishment of loan facilities, which are not considered an incremental cost relating to the actual draw-down of the facility, are recognised as prepayments and amortised on a straight-line basis over the term of the facility.

Borrowings are derecognised from the Statement of Financial Position when the obligation specified in the contract is discharged, cancelled or expired. The difference between the carrying amount of a financial liability that has been extinguished or transferred to another party and the consideration paid, including any non-cash assets transferred or liabilities assumed, is recognised in other income or other expenses.

Borrowings are classified as current liabilities unless the University has an unconditional right to defer settlement of the liability for at least 12 months after the end of the reporting period and does not expect to settle the liability for at least 12 months after the end of the reporting period.

#### (a) Controlled Entities loans

Several controlled entities with surplus cash balances have entered into an unsecured loan agreement with the University. The University pays interest on loan tranches to the lending controlled entity, at a rate reflecting the University's return on investments.

#### (b) University-issued bonds

The fair value of the issued bonds was \$516.7m (2021: \$687.6m). Refer to Note 35(c) for details of fair value measurement.

Bonds payable	Face value \$000s	Fixed coupon rate	Term	Issue date
Tranche2	200,000	3.50%	10 years	Sept 2018
Tranche3	50,000	4.50%	25 years	Sept 2018
Tranche4	160,000	2.25%	10.5 years	Nov 2019
Tranche5	90,000	3.10%	25 years	Nov 2019
Tranche6	150,000	3.05%	20 years	May 2020

#### (c) Financing arrangements

The University had unrestricted access to bank loan facilities totalling \$500m at the reporting date, of which, nil is drawn (2021: \$500m available, nil drawn).

There was no formal overdraft facility in place as at 31 December 2022. There were unused credit card facilities totalling \$2.1m (2021: \$2.4m) at year end.

#### NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2022 | MACQUARIE UNIVERSITY ANNUAL REPORT 2022 135

#### 25 Borrowings (continued)

#### (c) Financing arrangements (continued)

The Group has no asset pledged as security for current and non-current borrowings.

#### (d) Reconciliation of liabilities arising from financing activities

	Consolidated				Pare	nt		
	2021 \$'000	Cashflow \$'000	Other \$'000	2022 \$'000	2021 \$'000	Cashflow \$'000	Other \$'000	2022 \$'000
University-issued bonds	645,315		500	645,815	645,315	-	500	645,815
Controlled Entities Loans	-		-	-	7,900	2,560	-	10,460
Lease liabilities as a lessee	33,236	(8,648)	2,185	26,773	32,708	(8,484)	2,176	26,400
Total liabilities from financing activities	678,551	(8,648)	2,685	672,588	685,923	(5,924)	2,676	682,675

#### 26 Provisions

	Consolidated			Parent	
		2022	2021	2022	2021
	Note	\$'000	\$'000	\$'000	\$'000
Current provisions expected to be settled wholly within 12 months Employee benefits					
Annual leave		42,445	42,096	33,629	33,206
Long service leave		13,045	12,023	10,548	10,435
Other employee related costs		7,442	6,507	7,357	6,507
Defined benefits obligation	36(f)	29,299	30,769	29,299	30,769
Employment on-cost provision		532	552	532	552
Subtotal	_	92,763	91,947	81,365	81,469
Current provisions expected to be settled wholly after 12 months					
Employee benefits					
Annual leave		8,471	11,331	8,471	11,331
Long service leave		37,874	29,628	37,328	29,116
Subtotal		46,345	40,959	45,799	40,447
Total current provisions		139,108	132,906	127,164	121,916
Non-current provisions Employee benefits					
Long service leave		14,368	18,300	12,747	15,976
Defined benefits obligation	36(f)	362,887	443,246	362,887	443,246
Employment on-cost provision		6,544	7,902	6,544	7,902
Make good		4,529	4,799	4,529	4,799
Total non-current provisions		388,328	474,247	386,707	471,923
Total provisions	_	527,436	607,153	513,871	593,839

Refer to note 36(f) for ageing of net liability and reimbursement rights relating to Defined Benefits Obligation.

Movements in each class of provision during the financial year, other than employee benefits, are set out below:

Consolidated	Termination benefits	Make Good Provision	Total
Carrying amount as at 1 January 2022	5,914	4,799	10,713
Additional provisions recognised	2,054	158	2,212
Unused amounts reversed	(412)	(428)	(840)
Amount used	(7,414)	<u>-</u>	(7,414)
Carrying amount as at 31 December 2022	142	4,529	4,671

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#### 26 Provisions (continued)

Accounting Policy

#### Employee benefits

(i) Short-term obligations

Liabilities for short-term employee benefits including wages and salaries are measured at the amount expected to be paid when the liability is settled. If it is expected that these liabilities will be settled wholly within twelve months of the reporting period, they are recognised in the Trade and Other Payables in note 24.

(ii) Long-term obligations

The liabilities for long-term benefits such as annual leave and long service leave are recognised in current provisions for employee benefits if:

- a) it is expected to be settled wholly within twelve months of the reporting period and;
- b) there is no unconditional right to defer settlement of the liability for at least twelve months after the reporting date. Such liabilities are recognised as non-current if either of the above criteria do not apply.

Long-term liabilities are measured at the present value of expected future payments to be made in respect of services provided by employees up to the reporting date. Consideration is given to expected future wage and salary levels, experience of employee departures and periods of service. Expected future payments are discounted using market yields at the reporting date on national government bonds with terms to maturity and currency that match, as closely as possible, the estimated future cash outflows.

The long service leave liability has been recognised according to an actuarial assessment performed in accordance with AASB 119 Employee Benefits.

(iii) Post-employment benefits - please refer to Note 36

#### Other provisions

Provisions are recognised when the Group has a present legal or constructive obligation as a result of past events, it is probable that an outflow of resources will be required to settle the obligation, and the amount can be reliably estimated.

Provisions are measured at the present value of management's best estimate of the expenditure required to settle the present obligation at the date of Statement of Financial Position. The discount rate used to determine the present value reflects current market assessments of the time value of money and the risks specific to the liability. The increase in the provision due to the passage of time is recognised as a finance cost.

(i) Termination benefits - included in Note 26 as Other employee related costs

Termination benefits are payable when employment is terminated before the normal retirement date, or when an employee accepts an offer of benefits in exchange for the termination of employment. The Group recognises termination benefits either when it can no longer withdraw the offer of those benefits or when it has recognised costs for restructuring within the scope of AASB 137 Provisions, Contingent Liabilities and Contingent Assets, that involves the payment of termination benefits. Benefits not expected to be settled wholly within 12 months after the end of the reporting period are discounted to present value.

#### 27 Other liabilities

	Consolidated		Parent	
	2022	2021	2022	2021
	\$'000	\$'000	\$'000	\$'000
Current				
Unearned revenue student fees	53,015	34,808	53,015	34,808
Unearned revenue other	10,687	8,346	5,093	2,872
Unearned revenue - contracts	84,306	77,218	84,306	77,218
Australian government unspent financial assistance	23,982	13,568	23,982	13,568
Service concession liability	1,274	1,274	1,274	1,274
Total current other liabilities	173,264	135,214	167,670	129,740
Non-current				
Service concession liability	15,289	16,563	15,289	16,563
Advances other	149	149	-	_
Total non-current other liabilities	15,438	16,712	15,289	16,563
Total other liabilities	188,702	151,926	182,959	146,303

Refer to note 2-7 for the accounting policies on revenue and income.

Refer to note 22 for the accounting policies on lease liabilities where the Group is a lessee.

Refer to note 4 for the accounting policies on fees and charges.

The University applies AASB 15 Revenue from contracts with customers with respect to research grants and recognised unearned revenue for research grants where the performance obligations had not or had only partially been satisfied as at the date of adoption.

The University applies AASB 1059 Service concession arrangements and recognised a service concession liability with respect to the service concession asset.

Refer to note 16 for the accounting policies on service concession assets.

Accounting Policy

Unearned revenue student fees relates to student fees and Government teaching grant revenue recognised under AASB 15 Revenue from contracts with customers where the courses are yet to be delivered.

Unearned revenue other relates to grant and other revenue recognised under AASB 15 where the customer has provided consideration, but the Group has not met or only partially satisfied the performance obligations at the end of the reporting period.

Service concession liability is recognised at the same time as the initial recognition of a service concession asset.

To the extent that the service concession liability does not give rise to a contractual obligation to provide cash to the operator, a GORTO (grant of a right to the operator model) liability is recognised as the unearned portion of the revenue arising from the exchange of assets between the University and the operator. The liability is subsequently amortised into the income statement according to the economic substance of the service concession arrangement, generally on a straight line basis.

Income in relation to service concession liabilities is recognised over the term of the service concession arrangement as access to the service concession assets is provided to the operator.

#### NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2022 | MACQUARIE UNIVERSITY ANNUAL REPORT 2022 139

#### 28 Key management personnel disclosures

#### (a) Names of responsible persons and executive officers

The following persons were responsible persons and executive officers of Macquarie University during the financial year. All members of the University Council were appointed or elected under the provisions of the *Macquarie University Act 1989*. Council members include University employees who may be ex-officio members or elected staff members.

The following persons also had authority and responsibility for planning, directing and controlling the activities of Macquarie University during the financial year.

#### (i) Executive officers

Professor S Bruce Dowton

Professor Patrick McNeil

Professor Sakkie Pretorius

Professor Mariella Herberstein (until 1 September 2022)

Professor Rorden Wilkinson (from 1 September 2022)

Professor Martina Mollering (until 27 May 2022)

Professor Chris Dixon (from 27 May 2022)

Professor Eric Knight

Professor Magnus Nyden (until 14 April 2022)

Professor Lesley Hughes (from 21 February 2022 until 19 August 2022)

Professor David Coutts (from 22 August 2022 until 9 November 2022)

Professor Lucy Marshall (from 10 November 2022)

Ms Nicole Gower

Mr Robin Payne

Mr Jonathan Wylie

#### (ii) University Council Members

Dr Martin Parkinson AC PSM - Chancellor

Ms Louise Mason - Deputy Chancellor

Professor S Bruce Dowton - Vice-Chancellor and President

Professor Jacqueline Phillips - Chair of Academic Senate

Mr Michael Book

Associate Professor Wylie Bradford (re-elected commencing 1 January 2022)

Mr Chum Darvall (until 31 December 2022)

Professor Catherine Dean (re-elected commencing 1 January 2022)

Ms Deborah Green

Ms Deborah Hadwen

Ms Jingmin Qian

Mr John Wigglesworth

Mr Frank Zipfinger

Mr Benjamin Dougall (until 28 October 2022)

Mr Jayden Whaites-Fruitrich

#### 28 Key management personnel disclosures (continued)

#### (b) Remuneration of Council Members and Executives

No Council member has received any remuneration in his/her capacity as a Council member.

	Parent	
	2022	2021
Remuneration of executive officers		
\$60,000 to \$69,999	1	-
\$100,000 to \$109,999	1	-
\$130,000 to \$139,999	1	-
\$160,000 to \$169,999	1	-
\$240,000 to \$249,999	2	-
\$260,000 to \$269,999	1	-
\$340,000 to \$349,999	1	-
\$420,000 to \$429,999	-	1
\$430,000 to \$439,999	1	1
\$460,000 to \$469,999	-	2
\$470,000 to \$479,999	2	1
\$480,000 to \$489,999	-	1
\$490,000 to \$499,999	-	1
\$530,000 to \$539,999	1	-
\$550,000 to \$559,999	-	1
\$560,000 to \$569,999	1	-
\$580,000 to \$589,999	-	1
\$600,000 to \$609,999	-	1
\$610,000 to \$619,999	1	-
\$1,050,000 to \$1,059,999	1	1
	15	11

The University has performed a review of transactions with entities in which the Council members of the University and members of the University Executive have declared their interest via the University Register of Interests. Management has determined that these transactions have occurred at arm's length and on terms and conditions no more favourable than those which it is expected the University would have adopted for a normal employee, customer or supplier relationship.

#### (c) Key management personnel compensation

	Parent	
	2022 \$'000	2021 \$'000
Salaries	5,359	5,592
Superannuation payments	544	447
Total key management personnel compensation	5,903	6,039

No short-term bonus payments were paid to key management personnel.

#### NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2022 | MACQUARIE UNIVERSITY ANNUAL REPORT 2022 141

#### 28 Key management personnel disclosures (continued)

#### (d) Loans to key management personnel

During 2013, a Loan Agreement in the amount of \$875k was signed between Macquarie University and Professor S B Dowton for acquiring a residence in Sydney. The balance at the reporting date was \$775k (2021: \$775k). The loan incurred \$15k (2021: \$8k) interest and \$8k (2021: \$8k) was paid for the year ended 31 December 2022.

Pursuant to the Loan Agreement, the University uses this property for University functions, for a fee assessed at a fair value using comparable market rental for similar properties. Professor S B Dowton waived all fees payable under the Loan Agreement in 2022 (2021: nil).

There are no other loans to key management personnel.

#### 29 Related parties

#### (a) Parent entity

The ultimate parent entity within the Group is Macquarie University, an entity established under NSW state legislation.

#### (b) Controlled Entities

The consolidated financial statements incorporate the assets, liabilities and results of the following controlled entities in accordance with the accounting policy described in note 1(b):

				Equit	y Holding
Name of Entity		Principal place of business	Class of Shares	<b>2022</b> %	2021 %
Access Macquarie L	td	Australia	Limited by Guarantee	100	100
AusUni Pty Ltd1		Australia	Ordinary	-	79.50
Celosia Therapeutic	s Pty Limited <sup>2</sup>	Australia	Ordinary	100	-
COH Property Trust		Australia	Units	100	100
MGSM Limited		Australia	Limited by Guarantee	100	100
Macquarie University Pty Ltd	/ Clinical Associates	Australia	Limited by Guarantee	100	100
Macquarie University Foundation Ltd	/ Hong Kong	Hong Kong	Limited by Guarantee	100	100
MU Property Investn Pty Ltd	nent Company No. 3	Australia	Ordinary	100	100
Macquarie University Investment Compan		Australia	Ordinary	100	100
Macquarie University Investment Trust	/ Property	Australia	Units	100	100
MQ Health Pty Ltd		Australia	Class B funding	100	100
MUH Operations Pty	Ltd	Australia	Ordinary	100	100
MUPH Clinic Pty Ltd		Australia	Ordinary	100	100
MUPH Hospital Pty I	_td	Australia	Ordinary	100	100
U@MQ Ltd		Australia	Limited by Guarantee	100	100

<sup>&</sup>lt;sup>1</sup>AusUni Pty Ltd was deregistered on 16 November 2022.

<sup>&</sup>lt;sup>2</sup>Celosia Therapeutics Pty Ltd was registered on 4 October 2022.

#### 29 Related parties (continued)

#### (c) Transactions with related parties

The following transactions occurred during the reporting period with related parties:

	2022	2021
	\$'000	\$'000
Controlled entities		
Sale of goods and services	7,325	9,551
Donations and bequests	1,053	2,055
Purchase of goods and services	8,055	5,054
Interest expense	141	39
Transfer of equity investments	90	-

#### (d) Outstanding balances

The following balances are outstanding at the reporting date in relation to transactions with related parties:

		2022	2021
	Note	\$'000	\$'000
Controlled entities			
Trade and other receivables	15	1,422	5,249
Investment in controlled entity	19	98,799	98,799
Trade and other payables	24	1,276	1,237
Loans from controlled entities	25	10,460	7,900

No provisions for doubtful debts have been raised in relation to any outstanding balances, and no expense has been recognised in respect of bad or doubtful debts due from related parties.

#### 30 Remuneration of auditors

	Consolidated		Parent	
	2022	2021	2022	2021
	\$'000	\$'000	\$'000	\$'000
Audit and review of the Financial Statements				
Fees paid to Audit Office of NSW Audit fees for the financial report	615	606	382	386
Audit fees for restricted funds and other audit engagements	22	21	4	3
Total paid for audit and review	637	627	386	389
Other audit and assurance services				
Fees paid to Audit Office of NSW Audit of regulatory returns	36	25	36	25
Total paid for audit and assurance	36	25	36	25
Total remuneration for audit and assurance related services	673	652	422	414

#### NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2022 | MACQUARIE UNIVERSITY ANNUAL REPORT 2022 143

#### 31 Contingencies

#### (a) Bank Guarantees

The University has bank guarantee facilities of \$29.1m (2021: \$28.7m) of which \$9.5m (2021: \$6.8m) was unused at the reporting date. The bank guarantees primarily relate to the provision of security for a workers' compensation insurance program.

#### (b) Contingent assets and liabilities

The Group does not have any material contingent liabilities or contingent assets as at 31 December 2022.

#### 32 Events Occurring After the Reporting Date

No event or transaction has occurred between the end of the financial year and the date of authorisation of this report of a material nature to significantly affect the financial position of the Group.

The University continues to monitor the impact of COVID-19.

### 33 Reconciliation of operating result after income tax to net cash flows from operating activities

		Consolidated		Parent	
		2022	2021	2022	2021
		\$'000	\$'000	\$'000	\$'000
Net result for the period		(36,281)	62,161	(42,358)	63,291
Depreciation and amortisation	10	101,486	103,246	100,949	102,639
Net (gains)/losses on sale of non-current assets		(2,699)	219	(2,699)	196
Fair value loss on other financial assets at fair value	5	0.440	40.700	4 000	40.700
through profit or loss		3,416	43,798	4,020	43,798
Capitalisation of borrowing costs	11	(2,344)	(6,951)	(2,344)	(6,951)
Net loss on impairment of non current assets		-	4,749	-	4,749
Non-cash dividend		-	(53,104)	-	(53,104)
Other non-cash income		(12,452)	(3,281)	(12,452)	(3,281)
Interest expense on lease liabilities	11	883	1,092	875	1,081
Change in operating assets and liabilities:					
(Increase) / decrease in trade debtors		83,192	26,910	80,930	26,712
(Increase) / decrease in inventories		464	(457)	(39)	227
(Increase) / decrease in other non-financial assets		(1,094)	(1,703)	(1,022)	(1,581)
Increase / (decrease) in trade creditors		(5,978)	21,735	(7,341)	24,132
Increase / (decrease) in other operating liabilities		36,776	18,537	36,656	19,209
Increase / (decrease) in provision	_	(79,496)	(41,197)	(79,748)	(42,011)
Net cash provided by operating activities	_	85,873	175,754	75,427	179,106

### 34 Financial risk management

### (a) Objectives and policies

The Group's activities expose it to a variety of financial risks: market risk (including currency risk, fair value interest rate risk, cash flow interest rate risk and price risk), credit risk and liquidity risk. The Group's overall risk management program focuses on the unpredictability of financial markets and seeks to minimise potential adverse effects on the financial performance of the Group.

The University has adopted an Investment & Treasury Risk Management Policy, approved by the Finance and Facilities Committee (a Committee of Council) that establishes a policy framework for the management of financial risk. The Finance and Facilities Committee reviews the University's financial risk and financial asset performance at each of its meetings.

### (b) Market risk

### (i) Foreign exchange risk

The Group is exposed to fluctuations in foreign currencies arising from the purchase of goods and services in currencies other than the Group's functional currency. The risk is not material due to the limited amount of trade and other payables denominated in non AUD currency at the reporting date, refer to note 24.

### (ii) Price risk

The University is exposed to equity securities price risk. This arises from investments held by the University and classified as designated at fair value through the Income Statement. The risk is not likely to be material to the Group, given the limited holdings in these assets.

### (iii) Cash flow and fair value interest rate risk

Although the University carries debt, the majority of debt is at a fixed rate of interest. Refer to note 25 for details. Interest rate risk relates to investments. All other financial assets and liabilities are non-interest bearing.

### (iv) Summarised sensitivity analysis

Sensitivity analysis was produced by altering the relevant balance for +/-10% change in the foreign exchange and other price risk, and +/-1% in the interest rate risk identified. The results of this analysis and the risk assessment

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### 34 Financial risk management (continued)

### (b) Market risk (continued)

noted in the paragraph above, did not give rise to any material changes in the balances affected by the risks identified for the consolidated or parent entity.

### (c) Credit risk

The maximum credit risk exposure to recognised financial assets at the reporting date is the carrying amount, net of any provisions for impairment and expected credit losses of these assets, as disclosed in the Statement of Financial Position and notes to the financial statements. The University has no credit risk for derivative financial instruments. Financing facilities are disclosed in note 25.

The carrying amount of financial assets (as contained in the table in sub note 34(d) below) represents the Group's maximum exposure to credit risk.

### (d) Liquidity risk

The Group manages liquidity risk by monitoring forecast cash flows and maintains sufficient cash to maintain short term flexibility and enable the Group to meet financial commitments in a timely manner.

### Consolidated

### 31 December 2022

		Less than 1 year	1 to 5 years	5+ years	Total
		2022	2022	2022	2022
	Note	\$'000	\$'000	\$'000	\$'000
Financial Liabilities:					
Trade and other payables		(103,752)	-	-	(103,752)
Bonds	25	-	-	(645,815)	(645,815)
Lease liabilities as a lessee	22 _	(6,766)	(17,831)	(2,176)	(26,773)
Total Financial Liabilities	_	(110,518)	(17,831)	(647,991)	(776,340)
Financial Assets:					
Financial Assets <sup>1</sup>	_	156,489	61,964	4,494	222,947
Total Financial Assets	_	156,489	61,964	4,494	222,947
Net Liquidity	_	45,971	44,133	(643,497)	(553,393)

<sup>&</sup>lt;sup>1</sup> Financial Assets consists of cash and cash equivalents, term deposits, trade and finance lease receivables and third-party equity investments.

### 34 Financial risk management (continued)

### (d) Liquidity risk (continued)

31 December 2021

		Less than 1 year 2021	1 to 5 years 2021	5+ years 2021	Total 2021
,	lote	\$'000	\$'000	\$'000	\$'000
Financial Liabilities: Trade and other payables Bonds Lease liabilities as a lessee	25 _	(108,802) - (8,052)	- - (18,338)	- (645,315) (6,846)	(108,802) (645,315) (33,236)
Total Financial Liabilities	_	(116,854)	(18,338)	(652,161)	(787,353)
Financial Assets: Financial Assets	_	182,490	65,163	4,495	252,148
Total Financial Assets	_	182,490	65,163	4,495	252,148
Net Liquidity	_	65,636	46,825	(647,666)	(535,205)

### 35 Fair value measurement

### (a) Fair value measurements

Due to the short-term nature of current receivables, current borrowings and current payables, their carrying value is assumed to approximate to fair value. The fair value of liabilities is estimated by discounting the future contractual cash flows at the current market interest rate that is available to the University for similar financial instruments. The only balance where the carrying amount and aggregate fair values of financial liabilities differ at reporting date is borrowings, disclosed in Note 25(b).

### (b) Fair value hierarchy

Macquarie University categorises assets and liabilities measured at fair value into a hierarchy based on the level of inputs used in measurements.

### Description

Level 1 quoted prices (unadjusted) in active markets for identical assets or liabilities.

Level 2 inputs other than quoted prices included within Level 1 that are observable for the asset

or liability, either directly or indirectly.

Level 3 inputs for the asset or liability that are not based on observable market data

(unobservable inputs)

### (i) Recognised fair value measurements

Fair value measurements recognised in the Statement of Financial Position are categorised into the following levels at 31 December 2022.

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### 35 Fair value measurement (continued)

### (b) Fair value hierarchy (continued)

### Fair value measurements at 31 December 2022

		Total	Level 1	Level 2	Level 3
Consolidated	Note	\$'000	\$'000	\$'000	\$'000
Financial assets Third party equity investments held at fair value and revalued through the Income Statement	18	61,776	50,560	11,216	<u>-</u>
Total financial assets		61,776	50,560	11,216	_
Non-financial assets Service concession assets Investment in controlled entities at fair value (applies to Parent only)	16 19	103,965 98,799	-		103,965 98,799
PPE:	04	050.070		050.070	
Land Buildings	21 21	850,870 1,694,223	-	850,870 465,698	- 1,228,525
Infrastructure	21	124,412	-	-	124,412
Library Special Collections	21	7,471	-	-	7,471
Works of Arts	21	54,728	-	<u> </u>	54,728
Total non-financial assets	_	2,934,468	-	1,316,568	1,617,900
Fair value measurements at 31 December	er 2021				
		Total	Level 1	Level 2	Level 3
Consolidated	Note	\$'000	\$'000	\$'000	\$'000

		Total	Level 1	Level 2	Level 3
Consolidated	Note	\$'000	\$'000	\$'000	\$'000
Financial assets					
Third party equity investments held at	18				
fair value and revalued through the Income Statement <sup>1</sup>		65,159	54,239	10,920	-
Total financial assets		65,159	54,239	10,920	-
Non-financial assets					
Service concession assets	16	103,552	-	-	103,552
Investment in controlled entities at fair value (applies to Parent only)	19	98,799	-	-	98,799
PPE:					
Land	21	834,212	-	834,212	-
Buildings	21	1,646,697	-	460,503	1,186,194
Infrastructure	21	122,744	-	-	122,744
Library Special Collections	21	6,756	-	-	6,756
Works of Art	21	43,901	<u>-</u> _		43,901
Total non-financial assets		2,856,661	-	1,294,715	1,561,946

There were no transfers between levels 1, 2 or 3 for recurring fair value measurements during the year.

Macquarie University's policy is to recognise transfers into and out of fair value hierarchy levels as at the end of the reporting period.

### 35 Fair value measurement (continued)

### (c) Valuation techniques used to derive level 2 and level 3 fair values

### (i) Borrowings

The fair value of the bonds disclosed in Note 25(b) are based on observable price quotations at the reporting date These are classified as Level 1.

### (ii) Assets or liabilities not traded in active markets

The fair value of financial instruments that are not traded in an active market (for example, over-the-counter derivatives) is determined using valuation techniques. These valuation techniques maximise the use of observable market data where it is available and rely as little as possible on entity specific estimates. If all significant inputs required to fair value an instrument are observable, the instrument is included in Level 2.

### (iii) Property, Plant and Equipment

The fair value of property, plant and equipment is measured on the assumption that the existing use is the highest and best use, where there are no feasible alternative uses in the existing natural, legal, financial and sociopolitical environment. However, in the limited circumstances where there are feasible alternative uses, assets are valued at their highest and best use. Fair value of property, plant and equipment is determined based on the best available market evidence, including current market selling prices for the same or similar assets. Where there is no available market evidence, the asset's fair value is measured at its market buying price, the best indicator of which is depreciated replacement cost.

- Off-campus buildings and tenanted on-campus buildings are assessed annually by an independent expert valuer.
   Observable market transactions or market information is used when available (Sales Comparison Approach and Income Capitalisation Approach). These assets are located in established and relatively liquid markets and are classified as Level 2.
- On-campus non-tenanted buildings and infrastructure are assessed annually by an independent expert valuer.
   Additionally, revaluation adjustments may be made during the year if there are significant changes in either
   expected use or duration of use for assets in these classes. As market information is not observable, other
   valuation techniques (including discounted replacement value) are used that maximise the use of relevant
   observable inputs (including utilising State Government approved Campus Concept Plans) and minimise the use
   of unobservable inputs. These assets are classified as Level 3.
- Buildings and infrastructure that are classified as service concession assets are measured using the current replacement cost, which is the depreciated replacement cost of the assets. These assets are classified as Level 3.

### (iv) Library Special Collections

The Library Special Collection is revalued every three years by an independent expert valuer. The collections are classified as Level 3 due to the limited number of external observable inputs.

### (v) Works of Art

Works of Art are revalued every three years by an independent external valuer, on the basis of market value for existing use. The collection is classified as Level 3 due to the limited number of external observable inputs.

### (vi) Land

Land is valued at fair value having regard to its highest and best use. However, where there are natural, legal and socio-political restrictions on the use of land such that there is no feasible alternative use in the near future, such land is valued at market value for its existing use, because that is its highest and best use.

Land is assessed annually by an independent expert valuer. Significant inputs include existing zoning rights, specific planned uses for each precinct of Campus Land (as described in the government approved Concept Plan), specific floor space maximums for several precincts, and market sale evidence. Discounts have been applied to reflect restricted use and the large land parcel size. Land is classified as Level 2.

Land that is subject to a service concession arrangement applies the same valuation technique outlined above.

### (vii) Equity investment in controlled entities (MQ Health Pty Ltd)

Equity investments in controlled entities are fair valued every year using a five year discounted cashflow model which includes a terminal value. A discount rate is selected based on the weighted average cost of capital of comparable organisations within the Australian private healthcare sector.

### NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2022 | MACQUARIE UNIVERSITY ANNUAL REPORT 2022 149

### 35 Fair value measurement (continued)

### (d) Fair value measurements using significant unobservable inputs (level 3)

(i) Valuation inputs and relationships to fair value

Buildings represent the majority of the assets classified within level 3. Remaining useful life is the largest unobservable input for this asset class. An increase/decrease in the term of useful life by +/- 5% would increase/decrease fair value by \$61.4m (2021: \$59.3m).

### 36 Retirement benefit obligations

All University employees, including casuals, receive superannuation benefits equal to or exceeding the government Superannuation Guarantee Levy.

### (a) Employee Benefits - Unfunded Defined Benefit Superannuation Liabilities

Accounting Policy

The University contributes to three closed state pension schemes within the State Authorities Superannuation Trustee Corporation, namely the State Authorities Superannuation Scheme (SASS), the State Superannuation Scheme (SSS) and the State Authorities Non-contributory Superannuation Scheme (SANCS), which are subject to reimbursement arrangements under the Higher Education Support Act 2003 in the proportion of 78:22 from the Commonwealth and the State Governments respectively. Cash contributions to these three schemes as well as reimbursements received from the Commonwealth and State Governments, are detailed in note 37(h) and are shown in the Statement of Cash Flows

These schemes are defined benefit schemes, providing defined lump sum benefits based on years of service and final average salary.

A liability in respect of these plans is recognised in note 26, and is measured as the present value of the defined benefit obligation at the reporting date less the fair value of the superannuation fund's assets at that date and any unrecognised past service cost. The present value of the defined benefit obligation is based on expected future payments which arise from membership of the fund to the reporting date, calculated annually by independent actuaries using the projected unit credit method. Consideration is given to expected future wage and salary levels, experience of employee departures and periods of service. Expected future payments are discounted using market yields at the reporting date on national government bonds with terms to maturity and currency that match, as closely as possible, the estimated future cash outflows.

Remeasurement gains and losses and past service costs are not recognised in the Income Statement or Statement of Comprehensive Income, due to the government reimbursement arrangements noted above. Instead, a debtor is shown in note 15, to the same value of the liability in note 26, reflecting the funds owing from the Federal and State Governments to cover the unfunded element of the three schemes.

### (b) Fund specific disclosure

State Authorities Superannuation Trustee Corporation

The Pooled Funds hold in trust the investments of the State Authorities Superannuation Scheme (SASS), State Authorities Non-contributory Superannuation Scheme (SANCS) and State Superannuation Scheme (SSS) which are now closed NSW public sector superannuation defined benefit schemes.

The University does not expect to make contributions to any Pooled Fund Schemes in 2023 (2022: Nil) aside from normal payments made under the Superannuation Guarantee Levy for those employees who are members of these funds, and minor payments for recently retired pensioners with a pensionable salary at exit that is higher than the expected notional salary as calculated by the scheme administrators.

The weighted average duration of the defined benefit obligation is 8.5 years (2021: 9.6 years).

Professorial Superannuation Fund

The Professorial Superannuation Fund (PSF) is closed to new members and provides a combination of an accumulation benefit and a defined benefit. The University expects to make \$0.3m in contributions in 2023 (2022: \$0.3m) to the Professorial Superannuation Scheme.

### Pooled Funds - maturity analysis

The expected maturity analysis of undiscounted benefit payments is as follows:

	Less than 1 year		Between 2 and 5 years	Over 5 years	Total
	\$'000	\$'000	\$'000	\$'000	\$'000
Defined benefit obligations - 31 December 2022	29,299	28,512	81,274	327,406	466,491
Defined benefit obligations - 31 December 2021	30,769	30,144	84,992	359,891	505,796

### NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2022 | MACQUARIE UNIVERSITY ANNUAL REPORT 2022 151

### 36 Retirement benefit obligations (continued)

### (b) Fund specific disclosure (continued)

### Professorial Superannuation Fund - maturity analysis

The expected maturity analysis of undiscounted benefit payments is as follows:

	Less than 1 year		Between 2 and 5 years	Over 5 years	Total
	\$'000	\$'000	\$'000	\$'000	\$'000
Defined benefit obligations - 31 December 2022	1,376	1,276	3,244	3,575	9,471
Defined benefit obligations - 31 December 2021	1,396	1,313	3,419	6,079	12,207

### (c) Categories of plan assets

### Pooled Funds - key assumptions

The analysis of the plan assets at the end of the reporting period is as follows:

	2022	(%)	2021 (%)	
	Active Market	No Active Market	Active Market	No Active Market
Cash and Cash Equivalents	6.0	8.0	5.0	9.0
Equity instruments	51.0	6.0	52.0	2.0
Debt instruments	-	4.0	-	6.0
Property	-	2.0	-	6.0
Other		23.0		20.0
Total	57.0	43.0	57.0	43.0

The principal assumptions used for the purposes of the actuarial valuations were as follows:

	2022	2021
	%	%
Discount rate	4.09	1.68
Expected return on plan assets	7.0	6.50
Expected rates of salary increase	2.74-3.68	2.74-3.2
Expected rates of CPI increase	2.5-7.0	2.25-2.75

### **Professorial Superannuation Fund - key assumptions**

The analysis of the plan assets at the end of the reporting period is as follows:

	2022	(%)	2021 (%)	
	Active Market	No Active Market	Active Market	No Active Market
Cash and Cash Equivalents	29.0	-	8.0	-
Equity instruments	17.0	-	61.0	-
Debt instruments	-	41.0	-	21.5
Other		13.0	-	9.5
Total	46.0	54.0	69.0	31.0

2024 (0/

### 36 Retirement benefit obligations (continued)

### (c) Categories of plan assets (continued)

The principal assumptions used for the purposes of the actuarial valuations were as follows:

	2022	2021
	%	%
Discount rate	3.9	1.4
Pension growth rate	3.5	3.0

### (d) Actuarial assumptions and sensitivity

The sensitivity of the Pooled Funds defined benefit obligation to change in the significant assumptions is:

	Change in assumption	Impact on defined obligation			
		Increase in assumption	Decrease in assumption		
Discount rate	0.5%	Decrease by 3.99%	Increase by 4.29%		
Rate of CPI increase	0.5%	Increase by 4.61%	Decrease by 4.32%		
Rate of salary increase	0.5%	Increase by 0.06%	Decrease by 0.06%		
Rate of pensioner mortality	0.5%	Decrease by 0.98%	Increase by 0.73%		

The sensitivity of the Professorial Superannuation Fund defined benefit obligation to change in the significant assumptions is:

	Change in assumption	Impact on d	efined obligation
		Increase in assumption	Decrease in assumption
Discount rate	0.5%	Decrease by 2.90%	Increase by 3.03%
Salary/ pension growth rate	0.5%	Increase by 2.74%	Decrease by 2.65%

The above sensitivity analyses are based on a change in an assumption while holding all the other assumptions constant. In practice this is unlikely to occur, and changes in some of the assumptions may be correlated. When calculating the sensitivity of the defined benefit obligation to significant actuarial assumptions the same method has been applied as when calculating the defined benefit liability recognised in the Statement of Financial Position.

The methods and types of assumptions used in the preparation of the sensitivity analysis did not change compared to the prior period.

### NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2022 | MACQUARIE UNIVERSITY ANNUAL REPORT 2022 153

### 36 Retirement benefit obligations (continued)

### (e) Statement of financial position amounts

		\$'000	\$'000	\$'000	\$'000	\$'000
	Note	SASS	SANCS	SSS	PSF	Total
Net liability reconciliation - 2022						
Defined benefit obligation		13,183	1,632	412,134	9,946	436,895
Fair value of plan assets	_	(5,438)	(1,489)	(30,155)	(7,627)	(44,709)
Net liability	36(f)	7,745	143	381,979	2,319	392,186
Reimbursement rights - 2022						
Opening value of reimbursement right		9,294	933	461,279	_	471,506
Expected return on reimbursement rights		216	3	215	-	434
Remeasurements		(1,765)	(793)	(79,515)	-	(82,073)
Closing value of reimbursement right	36(f)	7,745	143	381,979	-	389,867
Present value obligation - 2022 Opening defined benefit obligation		16,133	2,105	494,535	12,207	524,980
Current service cost		132	2,105	494,535	314	524,960 510
Interest expense		254	32	8,042	160	8,488
•	_	16,519	2,201	502,577	12,681	533,978
Remeasurements						
Actuarial losses/(gains) arising from changes in financial assumptions		(862)	(194)	(76,811)	(1,339)	(79,206)
Experience losses/(gains)		(1,006)	(247)	19,075	195	18,017
Exponence reason/(game)	_	(1,868)	(441)	(57,736)	(1,144)	(61,189)
Contributions						
Plan participants	_	165	-	14	-	179
		165	-	14	-	179
Payments from plan				<b>(22.245</b> )		/A / A ·
Benefits paid		(1,753)	(253)	(28,213)	(1,328)	(31,547)
Taxes, premiums and expenses (paid)	_	120	125	(4,508)	(263)	(4,526)
	_	(1,633)	(128)	(32,721)	(1,591)	(36,073)
Closing defined benefit obligation	_	13,183	1,632	412,134	9,946	436,895

### 36 Retirement benefit obligations (continued)

### (e) Statement of financial position amounts (continued)

,	Statement of infancial position amounts (continued	)					
,		•	\$'000	\$'000	\$'000	\$'000	\$'000
		Note	SASS	SANCS	SSS	PSF	Total
	Present value of plan assets - 2022						
	Opening fair value of plan assets		6,839	1,172	33,256	9,698	50,965
	Interest income		99	20	539	126	784
			6,938	1,192	33,795	9,824	51,749
	Remeasurements						
	Return on plan assets, excluding						
	amounts included in net interest expense	-	(216)	(3)	(215)	(923)	(1,357)
			(216)	(3)	(215)	(923)	(1,357)
	Contributions						
	Employers		184	428	29,282	317	30,211
	Plan participants	-	165	-	14	-	179
			349	428	29,296	317	30,390
	Payments from plan						
	Benefits (paid)		(1,753)	(253)	(28,213)	(1,328)	(31,547)
	Taxes, premiums and expenses (paid)	-	120	125	(4,508)	(263)	(4,526)
		-	(1,633)	(128)	(32,721)	(1,591)	(36,073)
	Closing fair value of plan assets	-	5,438	1,489	30,155	7,627	44,709
	Net liability reconciliation - 2021						
	Defined benefit obligation		16,133	2,105	494,535	12,207	524,980
	Fair value of plan assets		(6,839)	(1,172)	(33,256)	(9,698)	(50,965)
	Net liability	36(f)	9,294	933	461,279	2,509	474,015
	Reimbursement rights - 2021						
	Opening value of reimbursement right		16,228	1,803	493,768	-	511,799
	Expected return on reimbursement rights		(787)	11	208	-	(568)
	Remeasurements		(6,147)	(881)	(32,697)		(39,725)
	Closing value of reimbursement right	36(f)	9,294	933	461,279	-	471,506

### NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2022 | MACQUARIE UNIVERSITY ANNUAL REPORT 2022 155

### 36 Retirement benefit obligations (continued)

### (e) Statement of financial position amounts (continued)

		\$'000	\$'000	\$'000	\$'000	\$'000
	Note	SASS	SANCS	SSS	PSF	Total
Present value obligations - 2021						
Opening defined benefit obligation		22,532	2,991	529,689	13,530	568,742
Current service cost		225	91	-	276	592
Interest expense	_	198	26	4,991	44	5,259
		22,955	3,108	534,680	13,850	574,593
Remeasurements						
Actuarial losses/(gains) arising from changes in demographic assumptions		169	36	(3,489)	-	(3,284)
Actuarial losses arising from changes in financial assumptions		(313)	(69)	(15,773)	(807)	(16,962)
Experience losses		841	(368)	7,490	723	8,686
	_	697	(401)	(11,772)	(84)	(11,560)
Contributions						
Plan participants	_	215		24	-	239
		215	-	24	-	239
Payments from plan Benefits paid		(6,339)	(671)	(28,445)	(1,283)	(36,738)
Taxes, premiums and expenses (paid)/ received	_	(1,395)	69	48	(276)	(1,554)
	_	(7,734)	(602)	(28,397)	(1,559)	(38,292)
Closing defined benefit obligation	_	16,133	2,105	494,535	12,207	524,980
Present value of plan assets - 2021						
Opening fair value of plan assets		6,304	1,188	35,921	9,690	53,103
Interest income	_	75	12	326	37	450
		6,379	1,200	36,247	9,727	53,553
Remeasurements						
Return on plan assets, excluding amounts included in net interest expense		787	(11)	(208)	1,216	1,784
·	_	787	(11)	(208)	1,216	1,784
Contributions		101	(11)	(200)	1,210	1,704
Employers		7,191	588	25,590	313	33,682
Plan participants		215	-	24	-	239
	_	7,406	588	25,614	313	33,921
Payments from plan						
Benefits (paid)		(6,338)	(674)	(28,445)	(1,282)	(36,739)
Taxes, premiums and expenses (paid)/received		(1,395)	69	48	(276)	(1,554)
(paid), 10001104	_				<u> </u>	_
	_	(7,733)	(605)	(28,397)	(1,558)	(38,293)
Closing fair value of plan assets	_	6,839	1,172	33,256	9,698	50,965

### 36 Retirement benefit obligations (continued)

### (f) Ageing of net liability and reimbursement rights

Ageing of net liability and reimbursement rights						
		\$'000	\$'000	\$'000	\$'000	\$'000
	Note	SASS	SANCS	SSS	PSF	Total
Net liability 2022						
Current	26	2,182	306	26,811	-	29,299
Non-current	26	5,563	(163)	355,168	2,319	362,887
Total net liability	_	7,745	143	381,979	2,319	392,186
Reimbursement rights 2022						
Current	15	2,182	306	26,811	-	29,299
Non-current	15	5,563	(163)	355,168	-	360,568
Total reimbursement rights	_	7,745	143	381,979	-	389,867
	Note					
Net liability 2021						
Current	26	3,373	466	26,930	-	30,769
Non-current	26	5,921	467	434,349	2,509	443,246
Total net liability	_	9,294	933	461,279	2,509	474,015
Reimbursement rights 2021						
Current	15	3,373	466	26,930	-	30,769
Non-current	15	5,921	467	434,349	-	440,736
Total reimbursement rights	_	9,294	933	461,279	-	471,506

### (g) Amounts recognised in Other Comprehensive Income

	\$'000	\$'000
	PSF	PSF
	2022	2021
Remeasurements		
Actuarial losses arising from changes in financial assumptions	1,339	807
Actuarial losses/(gains) arising from experience adjustments	(195)	(723)
Actual return on plan assets less interest income	(923)	1,216
Total remeasurements in Other Comprehensive Income	221	1,300

### (h) UniSuper

Accounting Policy

The University also contributes to UniSuper Defined Benefit Plan ('UniSuper') (formerly Superannuation Scheme for Australian Universities) (SSAU) for academic staff appointed since 1 March 1988 and all other staff from 1 July 1991. The UniSuper is a post employment defined contribution plan into which the University pays fixed contributions.

The UniSuper Defined Benefit Division (DBD) is a defined benefit plan under Superannuation Law but, as a result of Clause 34 of the UniSuper Trust Deed, a defined contribution plan under Accounting Standard AASB 119. UniSuper is not considered to be controlled by the University and therefore the excess/shortfall of assets over accrued benefits has not been included in the University's accounts.

# Acquittal of Australian Government Financial Assistance

### **Education grants** Education - CGS and other <u>a</u>

	Commonwealth Grants Scheme#1	Commonwealth Srants Scheme#1	Indig Su Su Proc	Indigenous Student Success Program#2	Indigenous, Regional and Low-SES Attainment Fund#3	ndigenous, gional and Low-SES Attainment Fund#3	Educ Disa Su Prog	Higher Education Disability a Support Program#4	Higher National Education Priorities Disability and Industry Support Linkage Program#4 Fund	National riorities Industry Linkage Fund		Total
	2022	2021	2022	2021	2022	2021	<b>2022</b> 2021		2022	2021	2022	2021
Parent Entity (University) Only	e \$.000	\$,000	\$.000	\$,000	\$.000	\$,000	\$.000	\$,000	000.\$ 000.\$ 000.\$ 000.\$	000	\$.000	\$,000
Financial assistance received in CASH during the reporting period (total cash received from Australian Government for												
the program)	160,361	<b>160,361</b> 175,046 <b>1,587</b> 1,519 <b>2,436</b> 2,957	1,587	1,519	2,436	2,957	328		7,063 7	,000	303 7,063 7,000 171,775 186,825	186,825
Net accrual adjustments	1,318	1,318 (2,698)	•	•	- <b>(273)</b> (703)	(703)	•	•	•		- <b>1,045</b> (3,401)	(3,401)
Revenue for the period 2	<b>161,679</b> 172,348	172,348	1,587	1,519 2,163 2,254	2,163	2,254	328	303	7,063 7	,000	303 <b>7,063</b> 7,000 <b>172,820</b> 183,424	183,424
Surplus from the previous year	4,486	<b>4,486</b> 1,789	211	289	85	•	•	•	- 7,000		11,782	2,078
Total revenue including accrued revenue	166,165 174,137	174,137	1,798	1,808 <b>2,248</b> 2,254	2,248	2,254	328	3031	4,063 7	000,	30314,063 7,000 184,602 185,502	185,502
Less expenses including accrued expenses	(162,997)(169,651) (1,392) (1,597) (2,321) (2,169) (328)	169,651) (	1,392)	1,597) (	2,321) (	2,169)	(328)	(303)	•	-(16	- <b>(167,038)</b> (173,720)	73,720)
Surplus for the reporting period	3,168	<b>3,168</b> 4,486	406	211	(23)	85	•	-1,	1,063 7	,000	<b>-14,063</b> 7,000 <b>17,564</b> 11,782	11,782
#1 Includes the basic CGS grant amount, CGS – Medical Student Loading, Transition Fund Loading, Allocated Places, Non Designated Courses and CGS - Special Advances from	ransition Fu	nd Loading	ı, Allocat	ed Place	s, Non	Designa	ted Cou	rses an	d CGS	- Speci	al Advan	ses from

NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2022 | MACQUARIE UNIVERSITY ANNUAL REPORT 2022 157

Indigenous Student Success Program has replaced the Indigenous Commonwealth

Includes the Higher Education Participation and Partnership Program, regional loading and # # # 8 # #

Higher Education Disability Support Program includes Additional Support for Students with Disabilities and Australian

## Acquittal of Australian Government Financial Assistance (continued) 37

### Higher education loan programmes (excl OS-HELP) **@**

Parent Entity (University) Only	Cash Payable/(Receivable) at the beginning of the year	Financial assistance received in cash during the reporting period	Cash available for the period	enue earned	Cash Payable/(Receivable) at the end of the year
Parent E	Cash Payabl year	Financial assista reporting period	Cash availab	Revenue earned	Cash Payabl

	HE GC Gym	HECS-HELP (Australian Government payments only)	ш	FEE-HELP	v	SA-HELP		Total
	2022	2021	2022	2021	2022	2021	2022	2021
Note	\$.000	\$,000	\$.000	\$,000	\$.000	\$,000	\$.000	\$,000
	8,108	(2,973)	(2,020)	(1,670)	6)	(7)	6,079	(4,650)
	201,300	199,494	45,338	46,503	2,966	3,004		<b>249,604</b> 249,001
	209,408	196,521	43,318	44,833	2,957	2,997	255,683	244,351
7	(193,771)	(193,771) (188,413)	(42,981)	(46,853)	(2,797)	(3,006)	(3,006) (239,549) (238,272)	(238,272)
	15.637	8 108	337	(0202)	160	(6)	16.134	6.079

## Acquittal of Australian Government Financial Assistance (continued) 37

### Department of Education and Training Research <u>©</u>

Parent Entity (University) Only
Financial assistance received in CASH during the reporting period (total cash received from the Australian Government for the program)
Net accrual adjustments
Revenue for the period
Surplus/(deficit) from the previous year
Total revenue including accrued revenue
Less expenses including accrued expenses Surplus for reporting period

## Total Higher Education Provider Research Training Program expenditure ਉ

Research Training Program Fees offsets Research Training Program Stipends Research Training Program Allowances

Total for all types of support

	Research	Research Training Program	Research Support Program	Support Program		Total
	2022	2021	2022	2021	2022	2021
Note	\$.000	\$,000	\$.000	\$,000	\$.000	\$,000
	30,316	30.650	17.036	35.156	47.352	65.806
	•	•	•	•	•	•
8	30,316	30,650	17,036	35,156	47,352	65,806
	•	•	16,771	•	16,771	•
1	30,316	30,650	33,807	35,156	64,123	908,59
•	(30,316)	(30,650)	(33,807)	(18,385)	(64,123)	(49,035)
	•	•	•	16,771	•	16,771

Total domestic Total	students students 2021	000.\$ 000.\$ 000,\$ 00	<b>52</b> 22,367 <b>1,659</b> 669	<b>35</b> 6,678 <b>1,305</b> 430	<b>21</b> 497 44 9	<b>08</b> 29,542 <b>3,008</b> 1,108
Total domestic Total dom	students students 2022	\$.000	<b>16,552</b> 22	10,035	721	<b>27,308</b> 29

**Total** 2021 \$'000

2022 \$'000 2,046 (1,718) 328 328 328 1,718 (328) 2,046

# 37 Acquittal of Australian Government Financial Assistance (continued)

### (e) Other Capital Funding

Linkage Infrastructure, Equipment and Facilities grant	<b>2022</b> 2021	Note \$'000 \$'000				<b>2,046</b> 158	- (1,718)	2 328 158	<b>328</b> 458	656 616	1,718 (130)	<b>(328)</b> (158)	<b>2,046</b> 328	
		Parent Entity (University) Only	Financial assistance received in CASH	during the reporting period (total cash	received from Australian Government for the	program)	Net accrual adjustments	Revenue for the year	Surplus/(deficit) from the previous year	Total revenue including accrued revenue	Prior year opening balance adjustment	Less expenses including accrued expenses	Surplus/(deficit) for the reporting period	

# 37 Acquittal of Australian Government Financial Assistance (continued)

## (f) Australian Research Council Grants

		ā	Discovery	_	-inkages	Netw	Networks and Centres	Special Research Initiatives	Research Initiatives		Total
		2022	2021	2022	2021	2022	2021	2022	2021	2022	2021
Parent Entity (University) Only	Note	\$,000	\$,000	\$,000	\$,000	\$.000	\$,000	\$.000	\$.000	\$.000	\$,000
Financial assistance received in CASH											
during the reporting period (total cash received from the Australian Government for											
the program)	Ť	4,554	15,082	3,754	3,442	5,228	5,182	121	122	23,657	23,828
Net accrual adjustments	(2,	,738)	(3,312)	(1,198)	(1,477)	(2,538)	(3,832)	(81)	(83)	(6,555)	(8,704)
Revenue for the period	1	1,816	11,770	2,556	1,965	2,690	1,350	40	39	17,102	15,124
Surplus/(deficit) from the previous year	Ť	5,473	12,827	3,781	2,316	2,890	1,958	112	30	22,256	17,131
Total revenue including accrued revenue	27	7,289	24,597	6,337	4,281	5,580	3,308	152	69	39,358	32,255
Prior year opening balances adjustment		2,509	2,296	670	1,416	(112)	931	81	82	3,148	4,725
Less expenses including accrued expenses	(12,	,197)	(11,420)	(2,495)	(1,916)	(2,719)	(1,349)	(40)	(38)	(17,451)	(14,724)
Surplus/(deficit) for reporting period	17	7,601	15,473	4,512	3,781	2,749	2,890	193	112	25,055	22,256

3,601

2021 \$'000

Note

\$'002 \$'000 1,234 (1,291) (57) 3,601

# 7 Acquittal of Australian Government Financial Assistance (continued)

### (g) OS-HELP

Parent Entity (University) Only	Cash received during the reporting period	Cash spent during the reporting period	Net cash received	Cash surplus from the previous period	Cash surplus for the reporting period

## (h) Higher Education Superannuation Program (HESP)

the reporting period
Cash received from State government during the
reporting period
Cash available
Cash surplus / (deficit) from the previous period
Cash available for current period
Contributions to specified defined benefit funds
Cash surplus/(deficit) for this period

6,971	31,687	•	31,687	(31,687)	
6,442	29,282	•	29,282	(29,282)	

24,716

2021 \$'000

2022 \$'000 22,840

# 37 Acquittal of Australian Government Financial Assistance (continued)

## Student Services and Amenities Fee

Ξ

			from students		poi	revenue
Parent Entity (University) Only	Unspent revenue from previous period	SA-HELP revenue earned	Student services and Amenities Fees from students	Total revenue expendable in period	Student services expenses during period	Unspent /(overspent) student services revenue

(10)	(22.(2)	•
(10,676)	(9,763)	1
10,666	9,763	l
7,660	9/6,9	4
3,006	2,797	
•	(10)	
\$,000	\$.000	Note
2021	2022	

### 38 US Department of Education financial responsibility supplemental schedule

For the year ended 31 December 2022, the US Department of Education require the financial information used to compute the 'composite score' be included in the higher education providers financial statement, which was previously lodged separately.

The below information has been disclosed for the current year, being 31 December 2022, as well as comparative information.

Location in Financial		2022	2021
Statements and Related Notes	Financial Element	\$'000	\$'000
	Primary reserve ratio: expendable net assets		
Statement of Financial Position	Net Assets without donor restrictions	2,416,010	2,370,390
Statement of Financial Position	Net Assets with donor restrictions	5,199	5,019
Note 29 - Related parties	Secure and unsecured related party receivables	1,422	5,249
Note 29 – Related parties	Unsecured related party receivables	1,422	5,249
Note 21 – Property, plant and equipment	Property Plant and Equipment, net (includes construction in progress)	2,999,628	2,883,685
Note * - Financial responsibility supplemental schedule	Property Plant and Equipment – pre- implementation	2,411,631	2,359,813
Note * - Financial responsibility supplemental schedule	Property Plant and Equipment post- implementation with outstanding debt for original purchase	-	-
Note * - Financial responsibility supplemental schedule	Property Plant and Equipment post- implementation less any construction in progress without outstanding debt for original purchase	516,316	483,810
Note 21 – Property, plant and equipment	Construction in progress	71,681	40,062
Note 22 –Right-of-use assets and liabilities	Lease Right-of-use asset, net	22,553	27,229
Note * - Financial responsibility supplemental schedule	Lease Right-of-use asset, -Pre-implementation	21,081	24,649
Note * - Financial responsibility supplemental schedule	Lease Right-of-use asset, -Post-implementation	1,472	2,580
Note 23 – Intangible assets	Intangible assets	56,730	63,798
Note 36 - Retirement benefit obligations	Post-employment and pension liabilities	2,319	2,509
Note 25 - Borrowings	Long-term debt - for long-term purposes	645,815	645,315
Note 25 - Borrowings	Long-term debt - pre-implementation	496,848	496,408
Not Applicable	Long-term debt - Post-implementation	-	-
Not Applicable	Line of Credit for Construction in Process	-	-
Note 22 - Right-of-use assets and liabilities	Lease right-of-use asset liability	26,400	32,708
Note - Financial responsibility supplemental schedule	Pre-implementation right-of-use leases liability	24,906	30,107
Note - Financial responsibility supplemental schedule	Post-implementation right-of-use leases liability	1,494	2,601
Not applicable	Annuities with donor restrictions	-	-
Not applicable	Term endowments with donor restrictions	-	-
Not applicable	Life Income Funds with donor restrictions	-	-
	Net assets with donor restrictions: restricted in perpetuity	-	-
		-	-

### 38 US Department of Education financial responsibility supplemental schedule (continued)

Location in Financial		2022	2021
Statements and Related Notes	Financial Element	\$'000	\$'000
	Primary reserve: expenses and losses		
Income statement	Total expenses without donor restrictions-taken directly from Income Statement	985,577	937,309
Note 5 Investment income (net gains/losses)	Non-operating and Net investment (loss)	1,925	-
Note 5 Investment income (net gains/losses)	Net investment losses	1,925	-
Not applicable	Pension-related changes other than net periodic costs	-	-
	Equity ratio: Modified net assets		
Statement of financial position	Net assets without donor restrictions	2,416,010	2,370,390
Note 14 and Not 18	Net assets with donor restrictions	5,199	5,019
Note 23 - Intangible assets	Intangible assets	56,730	63,798
Note 29 Related parties	Secured and Unsecured related party receivable (net)	1,422	5,249
Note 29 – Related parties	Unsecured related party receivables	1,422	5,249
	Modified Assets		
Statement of financial position	Total Assets	3,885,779	3,893,006
Note * – Financial responsibility supplemental schedule	Lease Right-of-use asset - pre- implementation	21,081	24,649
Note * – Financial responsibility supplemental schedule	Pre-implementation right-of-use leases liability	24,906	30,107
Note 23 - Intangible assets	Intangible assts	56,730	63,798
Note 29 – Related parties	Secure and Unsecured related party receivables	1,422	5,249
Note 29 – Related parties	Unsecured related party receivable (net)	1,422	5,249
	Net income ratio		
Statement of financial position	Change in net assets without donor restrictions	45,800	108,902
Income statement less Change in Net Assets With Donor Restrictions	Total Revenue and Gains	1,033,232	1,046,153
Note * - Financial responsibility supplemental	schedule		
		2022	2021
		\$'000	\$'000
Lease right-of-use assets		04.004	04.040
Lease right-of-use-assets - pre-implementation  Lease right-of-use-assets - post-implementation		21,081 1,472	24,649 2,580
Loade right of the decode peet important and		22,553	27,229
Lease liabilities Lease liability - pre-implementation		24,906	30,107
Lease liability - post-implementation		1,494	2,601
Property, plant and equipment		26,400	32,708
Property, plant and equipment - Pre-implementation Property, plant and equipment - Post-implementation		2,411,631	2,359,813
less any construction in progress without outstanding debt		516,316	483,810
Construction in progress		71,681	40,062
		2,999,628	2,883,685

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### INDEPENDENT AUDITOR'S REPORT

### **Macquarie University**

To Members of the New South Wales Parliament

### **Opinion**

I have audited the accompanying financial statements of Macquarie University (the University), which comprise the Statement of Appointed Officers, Income Statement and Statement of Comprehensive Income for the year ended 31 December 2022, the Statement of Financial Position as at 31 December 2022, the Statement of Changes in Equity and the Statement of Cash Flows for the year then ended, notes comprising a Summary of significant accounting policies, the US Department of Education financial responsibility supplemental schedule (Note 38) and other explanatory information of the University and the consolidated entity. The consolidated entity comprises the University and the entities it controlled at the year's end or from time to time during the financial year.

In my opinion, the financial statements:

- have been prepared in accordance with Australian Accounting Standards and the applicable financial reporting requirements of the Government Sector Finance Act 2018 (GSF Act) and the Government Sector Finance Regulation 2018
- presents fairly, the financial position, financial performance and cash flows of the University and the consolidated entity.

My opinion should be read in conjunction with the rest of this report.

### **Basis for Opinion**

I conducted my audit in accordance with Australian Auditing Standards. My responsibilities under the standards are described in the 'Auditor's Responsibilities for the Audit of the Financial Statements' section of my report.

I am independent of the University in accordance with the requirements of the:

- Australian Auditing Standards
- Accounting Professional and Ethical Standards Board's APES 110 'Code of Ethics for Professional Accountants (including Independence Standards)' (APES 110).

Parliament promotes independence by ensuring the Auditor-General and the Audit Office of New South Wales are not compromised in their roles by:

- providing that only Parliament, and not the executive government, can remove an Auditor-General
- mandating the Auditor-General as auditor of public sector agencies
- precluding the Auditor-General from providing non-audit services.

I have fulfilled my other ethical responsibilities in accordance with APES 110.

I believe the audit evidence I have obtained is sufficient and appropriate to provide a basis for my audit opinion.

Level 19, Darling Park Tower 2, 201 Sussex Street, Sydney NSW 2000

GPO Box 12, Sydney NSW 2001 | t 02 9275 7101 | mail@audit.nsw.gov.au | audit.nsw.gov.au

### Key Audit Matters

Key audit matters are those matters that, in my professional judgement, were of most significance in my audit of the financial statements for the year ended 31 December 2022. These matters were addressed in the context of my audit of the financial statements as a whole, and in forming my opinion thereon, I do not provide a separate opinion on these matters. I have determined the matters described below to be the key audit matters to be communicated in my report.

### **Kev Audit Matter**

### How my audit addressed the matter

### Valuation of defined benefit superannuation and long service leave liabilities

At 31 December 2022, the University reported:

- defined benefit superannuation liabilities totalling \$392.2 million
- long service leave liabilities totalling \$65.3 million.

I considered this to be a key audit matter because:

- the defined benefit superannuation and long service leave liabilities are financially significant to the University's financial position
- there is a risk that the data used in the defined benefit superannuation and long service leave liability valuation models (the models) is not accurate and/or complete
- the underlying models used to value the liabilities are complex due to high level of judgement and estimation involved in the valuation assumptions, including discount rates and salary inflation
- the value of the liabilities is sensitive to minor changes in valuation assumptions.

Further information on the valuation of defined benefit superannuation and long service leave liabilities is included in Note 26 'Provisions' and Note 36 'Retirement benefit obligations'.

Key audit procedures included the following:

 obtained an understanding of the processes and key controls in place for defined benefit superannuation liabilities supporting the:

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- membership data used in the model
- defined benefit superannuation liability calculation
- obtained an understanding of the processes and assessed key controls for long service leave liabilities
- assessed completeness and mathematical accuracy of the data used in the models
- obtained management's actuarial reports and year-end adjustments, and for defined benefit superannuation liabilities, engaged a qualified actuary ('auditor's expert') to assess the:
  - competence, capability and objectivity of management's independent experts
  - appropriateness of the models
  - reasonableness of key assumptions used
  - reasonableness of the reported liability balances
- assessed the adequacy of the financial statement disclosures against the requirements of applicable Australian Accounting Standards.

### Other Information

The University's annual report for the year ended 31 December 2022, includes other information in addition to the financial statements and my Independent Auditor's Report thereon. The Appointed Officers of the University are responsible for the other information. At the date of this Independent Auditor's Report, the other information I have received comprises the draft Annual Report.

My opinion on the financial statements does not cover the other information. Accordingly, I do not express any form of assurance conclusion on the other information.

In connection with my audit of the financial statements, my responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the financial statements or my knowledge obtained in the audit, or otherwise appears to be materially misstated.

If, based on the work I have performed, I conclude there is a material misstatement of the other information. I must report that fact.

I have nothing to report in this regard.

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### **Council's Responsibilities for the Financial Statements**

The Council is responsible for the preparation and fair presentation of the financial statements in accordance with Australian Accounting Standards, the GSF Act, GSF Regulation and the 'Financial Statement Guidelines for Australian Higher Education Providers for the 2022 Reporting Period'. The Council's responsibilities also includes such internal control as the Council determines is necessary to enable the preparation and fair presentation of the financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, the Council is responsible for assessing the University's ability to continue as a going concern, disclosing as applicable, matters related to going concern and using the going concern basis of accounting.

### Auditor's Responsibilities for the Audit of the Financial Statements

My objectives are to:

- obtain reasonable assurance about whether the financial statements as a whole is free from material misstatement, whether due to fraud or error
- issue an Independent Auditor's Report including my opinion.

Reasonable assurance is a high level of assurance, but does not guarantee an audit conducted in accordance with Australian Auditing Standards will always detect material misstatements. Misstatements can arise from fraud or error. Misstatements are considered material if, individually or in aggregate, they could reasonably be expected to influence the economic decisions users take based on the financial statements.

A description of my responsibilities for the audit of the financial statements is located at the Auditing and Assurance Standards Board website at:

http://www.auasb.gov.au/auditors responsibilities/ar5.pdf. The description forms part of my auditor's report.

The scope of my audit does not include, nor provide assurance:

- that the University carried out its activities effectively, efficiently and economically
- as to the appropriateness of the certifications in the Statement by the Appointed Officers that the:
  - amount of Australian Government financial assistance expended during the reporting period was for the purposes for which it was intended, and the University has complied with applicable legislation, contracts, agreements and programme guidelines in making expenditure
  - University charged Student Services and Amenities Fees strictly in accordance with the Higher Education Support Act 2003 (HES Act) and the Administration Guidelines made under the HES Act. Revenue from the fee was spent strictly in accordance with the HES Act and only on services and amenities specified in subsection 19-38(4) of the HES Act
- about the security and controls over the electronic publication of the audited financial statements on any website where they may be presented
- about any other information which may have been hyperlinked to/from the financial statements.



Lawrissa Chan
Director, Financial Audit

Delegate of the Auditor-General for New South Wales

17 April 2023 SYDNEY This page has been left blank intentionally

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### **Appendix**

### GRANT FUNDING AWARDED TO MACQUARIE RESEARCHERS

### **AUSTRALIAN RESEARCH COUNCIL**

### 2023 DISCOVERY PROJECTS

### **Professor Andrew Barron**

School of Natural Sciences, Faculty of Science and Engineering 'Action selection in insects: How a microbrain knows what to do'

\$591,950

### **Associate Professor Melanie Bishop**

School of Natural Sciences, Faculty of Science and Engineering

'Creating coolspots: Eco-engineering heat-resistant intertidal communities' \$395,375

### **Professor Chris Dixon**

School of Social Sciences, Faculty of Arts 'Hello, Mr America: Americans on R&R leave in Australia in the Vietnam War' \$151,000

### **Professor Simon Griffith**

School of Natural Sciences, Faculty of Science and Engineering

'Mitonuclear incompatibility, speciation, and the Z sex chromosome' \$237,980

### Professor Stephen Hanly, Professor Iain Collings and Dr Hazer Inaltekin

School of Engineering, Faculty of Science and Engineering

'Enabling wide area mm-wave mobile broadband networks'

\$493,000

### **Professor Stuart Jackson**

School of Engineering, Faculty of Science and Engineering 'Seeing the light: High-power visible-light generation using silicate fibre'

\$524,000
Professor Ian Paulsen

### Coloral Caracas I Colora

School of Natural Sciences, Faculty of Science and Engineering

'Can cyanobacteria use organic nutrients to thrive in future oceans?'

\$499,743

### **Associate Professor Bingyang Shi**

Macquarie Medical School, Faculty of Medicine, Health and Human Sciences

### **Dr Yiqing Lu**

School of Engineering, Faculty of Science and Engineering

'Seeing the bio-nano "talk" in the brain via realtime multiplex tracking' \$605,000

### Associate Professor Kompal Sinha and Professor Elisabetta Magnani

School of Economics, Macquarie Business School

### **Professor Francesco Chirico**

School of Management, Macquarie Business School

### Dr Yuanyuan Gu

Centre for the Health Economy, Macquarie Business School 'Supporting dynamic multidimensional entrepreneurial resilience in Australia' \$173,936

### Associate Professor Selvaraj Velayutham, Professor Amanda Wise, Associate Professor Shaun Wilson, Dr Norbert Ebert and Dr Nicholas Harrigan

Macquarie School of Social Sciences, Faculty of Arts

'Survival and wellbeing among migrant precariat in Australia's gig economy' \$404,000

### Professor Yan Wang, Professor Mehmet Orgun and Dr Guanfeng Liu

School of Computing, Faculty of Science and Engineering

'Trust-oriented data analytics in online social networks'

### \$420,000

### Associate Professor Kira Westaway

School of Natural Sciences, Faculty of Science and Engineering 'Dispersing myths; characterising human

migration through Asia'

### Professor Mark Wiggins and Dr Ben Morrison

School of Psychological Sciences, Faculty of Medicine, Health and Human Sciences 'Situational assessment as a marker of cognitive skill decay' \$503,000

### Dr Jia Wu and Professor Jian Yang

School of Computing, Faculty of Science and Engineering

'New graph mining technologies to enable timely exploration of social events' \$380,610

### Associate Professor Yijiao Jiang

School of Engineering, Faculty of Science and Engineering

'Energy-efficient liquid-flow system for electroreduction of carbon dioxide' \$495.000

### 2021 LINKAGE PROJECTS (ROUND 2)

### Associate Professor Donna Houston, Associate Professor Kate Lloyd, Dr Miriam Williams and Dr Justine Lloyd et el.

School of Social Sciences, Faculty of Arts
'The power of public spaces to connect
communities and places which aims to uncover the
vital role of public spaces during COVID-19 and in
a time of climate change'
\$254,046

### Professor Stuart Jackson and Associate Professor Alexander Fuerbach et el.

School of Engineering and School of Mathematical and Physical Sciences, Faculty of Science and Engineering

'Optimising lasers for ablation of structurally complex solid non-metals' \$661,000

### 2021 LINKAGE PROJECTS (ROUND 3)

### Professor Linda Harrison, Associate Professor Sandie Wong, Professor Rebecca Bull, Professor Sheila Degotardi and Dr Belinda Davis

School of Education, Faculty of Arts 'Observe, reflect, improve: A tool to enrich children's learning' \$544.236

### Dr Jia Wu, Professor Jian Yang, Professor Michael Sheng and Professor Amin Beheshti

School of Computing, Faculty of Science and Engineering

### **Professor David McAlpine**

Macquarie University Hearing Associate Professor Paul Sowman School of Psychological Sciences, Faculty of Medicine, Health and Human Sciences 'Deep pattern mining for brain graph analysis: A data mining perspective'

### **AUSTRALIAN LAUREATE FELLOWSHIPS**

### Distinguished Professor Anne Castles

School of Psychological Sciences, Faculty of Medicine, Health and Human Sciences 'Literacy in adolescence: The next major challenge in the science of reading' \$3,147,256

### **FUTURE FELLOWSHIPS**

### Dr Amy Cain

School of Natural Sciences, Faculty of Science and Engineering

'Microbial junk food: Developing synthetic platforms for plastic degradation' \$802,000

### Dr Randa Abdel-Fattah

School of Social Sciences, Faculty of Arts 'Arab/Muslim Australian social movements since the 1970s: A hidden history' \$802,000

### Associate Professor Emily O'Gorman

School of Social Sciences, Faculty of Arts 'Protecting global wetlands, 1945 to the present' \$811,055

### Dr Greta Hawes

Department of History and Archaeology, Faculty of Arts 'Storytelling networks and community crises in ancient Greece' \$922,168

### Dr Christopher Reid

School of Natural Sciences, Faculty of Science and Engineering 'Swarm construction: Ant-inspired processes for teams of building robots' \$805,961

### 2023 DISCOVERY EARLY CAREER RESEARCHER AWARDS

### Dr Emma Burns

School of Education, Faculty of Arts
'The power of teacher–student relationships to
optimise student outcomes'
\$410,723

### Dr Zixin Huang

School of Mathematical and Physical Sciences, Faculty of Science and Engineering 'Quantum-enabled super-resolution imaging' \$415,154

### Dr Hamid Karimi-Rouzbahani

School of Psychological Sciences, Faculty of Medicine, Health and Human Sciences 'Characterising brain networks of intelligence through information tracking' \$457,810

### Dr Jean-Simon Lemay

School of Mathematical and Physical Sciences, Faculty of Science and Engineering 'New Foundations for algebraic geometry' \$352.200

### Dr Daozhi Xu

Department of Media, Communications, Creative Arts, Language and Literature – Faculty of Arts 'Chinese Australian writing on Indigenous Country' \$371,402

### 2023 LINKAGE INFRASTRUCTURE, EQUIPMENT AND FACILITIES

### Distinguished Professor Ian Paulsen, Dr Amy Cain, Dr Sasha Tetu and Dr Liping Li

School of Natural Sciences, Faculty of Science and Engineering

### Dr Ming Li

School of Engineering, Faculty of Science and Engineering

'A multifaceted technology platform to enhance single-cell genomics' \$682,792

### NATIONAL HEALTH AND MEDICAL RESEARCH COUNCIL

### Isabelle Meulenbroeks

Australian Institute of Health Innovation, Faculty of Medicine, Health and Human Sciences 'The impact of COVID-19 and associated health policies on access to allied healthcare, care quality and health outcomes in Australian residential aged care facilities' \$101,542

### PARTNERSHIP PROJECTS

### Associate Professor Reema Harrison

Australian Institute of Health Innovation, Faculty of Medicine, Health and Human Sciences 'Smarter hospitals: Unlocking the promise of virtual models of care through infrastructure innovation in Australian healthcare facilities' \$1,276,987

### Honorary Associate Professor Peter Hibbert

Australian Institute of Health Innovation, Faculty of Medicine, Health and Human Sciences 'Improving the health system's response when patients are harmed: a mixed-methods study' \$1,496,179

### **INVESTIGATOR GRANT SCHEME**

### Dr Ming Li

\$1,186,771

School of Engineering, Faculty of Science and Engineering 'Platform technologies for antibiotic resistance

diagnostics at single-cell resolution'

### **IDEAS GRANT SCHEME**

### Professor Antonio Di Ieva, Dr Sidong Liu, Professor John Magnussen and Professor Benoit Liquet-Weiland

Macquarie Medical School, Faculty of Medicine, Health and Human Sciences

'Computational analysis and artificial intelligence in brain tumour imaging: Towards the augmented diagnostics of the future'

### Dr Shelley Forrest and Dr Annika van Hummel

Macquarie Medical School, Faculty of Medicine, Health and Human Sciences

'Understanding neurodegeneration caused by oligodendroglial dysfunction' \$1,025,253

### Associate Professor Vivek Gupta, Professor Stuart Graham and Associate Professor Mehdi Mirzaei

Macquarie Medical School, Faculty of Medicine, Health and Human Sciences 'Let there be light – modified serpin as a dual function therapeutic agent in glaucoma'

### Professor Lars Ittner, Dr Julia van der Hoven, Dr Yuanyuan Deng and Dr Shelley Forrest

Macquarie Medical School, Faculty of Medicine, Health and Human Sciences 'Inhibition failure in Alzheimer's disease' \$1,212,345

### Distinguished Professor Nicki Packer and Dr Hasinika Hewawasam Gamage

School of Natural Sciences, Faculty of Science and Engineering

'Metformin, gut epithelium and microbiome in the prevention of colorectal cancer' \$847,242.50

### Dr Christina Perry

\$876,991.56

School of Psychological Sciences, Faculty of Medicine, Health and Human Sciences 'Incubation of craving for alcohol: Is exercise a viable intervention?'

### NATIONAL INSTITUTE FOR HEALTH RESEARCH COLLABORATIVE RESEARCH GRANTS

### Professor Viviana Wuthrich (in conjunction with University College London)

School of Psychological Sciences, Faculty of Medicine, Health and Human Sciences 'A randomised controlled trial of tailored acceptance and commitment therapy for older people with treatment-resistant generalised anxiety disorder' \$3,135,872

### MEDICAL RESEARCH FUTURE FUND

Associate Professor Robyn Clay-Williams, Professor Jeffrey Braithwaite, Associate Professor Reema Harrison, Associate Professor Yvonne Zurynski, Associate Professor Peter Hibbert, Dr Louise Ellis and Dr Elizabeth Austin

Australian Institute of Health Innovation, Faculty of Medicine Health and Human Sciences Associate Professor Rebecca Mitchell Department of Management,

### Professor Henry Cutler and Dr Kate Churruca

Centre for the Health Economy, Macquarie Business School

Macquarie Business School

### Dr Leanne Holt,

Department of Indigenous Studies, Faculty of Arts 'Models of care to improve the efficiency and effectiveness of acute care' \$2,836,550

### Dr Kylie Gwynne

Department of Health Sciences, Faculty of Medicine, Health and Human Sciences 'Cardiovascular health mission' \$574.883.90

### Professor Johanna Westbrook

Australian Institute of Health Innovation, Faculty of Medicine, Health and Human Sciences 'Dementia, ageing and aged care mission' \$992.386

### CLINICAL TRIALS ACTIVITY GRANT OPPORTUNITY

### Dr Milena Gandy

School of Psychological Sciences, Faculty of Medicine Health and Human Sciences \$973,195.11

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### CYBER SECURITY SKILLS PARTNERSHIP INNOVATION FUND (ROUND 2)

### Professor Dali Kaafar

School of Computing,
Faculty of Science and Engineering
'Develop and deliver the Cyber Range
Training Centre'
\$2,400,000

### NATIONAL INTELLIGENCE AND SECURITY DISCOVERY RESEARCH GRANTS

### Professor Dali Kaafar, Dr Ian Wood and Associate Professor Mark Dras

School of Computing, Faculty of Science and Engineering

### Professor Shlomo Berkovsky

Australian Institute of Health Innovation, Faculty of Medicine, Health and Human Sciences

### Professor Niloufer Selvadurai

Macquarie Law School, Faculty of Arts 'Application title: Fighting global phone scams with conversational AI' \$592.796

### **NATURAL HAZARDS RESEARCH AUSTRALIA**

### Associate Professor Mel Taylor, Associate Professor Fiona Miller and team et al.

School of Social Sciences, Faculty of Arts 'Post-flood research' \$275,053

### HCF RESEARCH FOUNDATION TRANSLATIONAL RESEARCH GRANTS

### **Dr Mitchell Sarkies and Andrew Hirschhorn**

Australian Institute of Health Innovation, Faculty of Medicine, Health and Human Sciences 'Implementation of evidence – and consensusbased perioperative care pathways to reduce unwarranted clinical variation' \$267.534

### METHANE EMISSIONS REDUCTION IN LIVESTOCK (MERIL) PROGRAM

### Fei Liu

School of Natural Sciences, Faculty of Science and Engineering

'Test low-cost and naturally sourced methanereducing substances for incorporation into lick blocks for grazing livestock' \$324,864

### NATIONAL LIBRARY OF AUSTRALIA 2023 FELLOWSHIPS

### Dr Mei-fen Kou

Department of Media, Communications, Creative Arts, Language and Literature – Faculty of Arts 'Print culture, the cold war legacy and understanding "Chineseness" in Australia' Fellowship supported by the Stokes family

### Dr Leigh Boucher

Department of History and Archaeology, Faculty of Arts

'Examine the early responses to HIV/AIDS in Sydney  $$100,\!000$ 

### THE PACIFIC FUND

### Associate Professor Tom Murray et al.

Department of Media, Communications, Creative Arts, Language and Literature – Faculty of Arts

### **Professor Bronwen Neil**

Department of History and Archaeology, Faculty of Arts

'Knowledge building for climate solutions and food security in French Polynesia and the Cook Islands through Rahui/Ra'ui management' \$90,000

### JOHN TEMPLETON FOUNDATION

### Professor Greg Downey et al.

School of Social Sciences, Faculty of Arts 'Concepts in dynamic assemblages: Cultural evolution and the human way of being' US\$3,244,981

### COMMUNITY INVESTMENT FUND, DP WORLD

### Associate Professor Katherine Dafforn

**and Associate Professor Melanie Bishop** School of Natural Sciences, Faculty of Science

and Engineering
'Expand the Living Seawalls project to focus

specifically on port infrastructure including pilings' \$880,000

### **CANCER COUNCIL NSW**

### Associate Professor Yuling Wang

School of Natural Sciences, Faculty of Science and Engineering 'Closely monitor for early signs of treatment resistance in breast cancer' \$449.682

### **NSW GOVERNMENT GRANTS**

### NextSense

'New innovation centre at Macquarie University' \$12.500.000

### **DEPARTMENT OF EDUCATION**

Dr Janet Dutton, Associate Professor Iain Hay, Associate Professor Michael Cavanagh, Associate Professor Fay Hadley, Associate Professor John De Nobile, Professor Garry Falloon, Dr Kim Wilson, Dr Hye-Eun Chu, Dr Susan Caldis and Leanne Bamford-Barnes

School of Education, Faculty of Arts
'Mid-career transition to teaching program'
\$1,099,496

### NSW HEALTH MRNA FUTURE LEADERS PROGRAM GRANTS

### Professor Daniela Traini and Dr Hui Xin Ong et al.

Macquarie Medical School, Faculty of Medicine, Health and Human Sciences 'RNA therapies for Alzheimer's disease direct to the brain via the nose'

### NSW NATIONAL PARKS AND WILDLIFE SERVICE AND KOSCIUSZKO THREDBO PTY LTD

### Dr Sasha Tetu and Professor Paul Haynes

School of Natural Sciences, Faculty of Science and Engineering

'Assess the ecological impact of the use of a biological snowmaking additive in Kosciuszko National Park' \$30,000

### NSW GOVERNMENT LEGAL AID PARTNERSHIP

Faculty of Medicine, Health and Human Sciences Macquarie Law School Office of the Pro Vice-Chancellor

(Indigenous Strategy)

'Train and employ 200 Aboriginal and/or Torres Strait Islander peoples at Legal Aid New South Wales' \$1,500,000

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External printing costs incurred in the production of this report totalled \$3312 (exc GST)

ISSN 0728-9480

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For copies of the Annual Report contact Group Marketing on +61 (2) 9850 7378 or email macquariemarketing@mq.edu.au

The report is also available on the University's website at mq.edu.au/about/annual-reports

ABN 90 952 801 237

This document has been prepared by Group Marketing, Macquarie University. The information in this document is correct as at the date of publication.

PHOTOS: Effy Alexakis, Declan Blackall, Dinil Jayasekara, Carmen Lee, Morris McLennan, Adam Scarf, Chris Stacey, Joanne Stephan, Jesse Taylor, Joel Tinker, Tobias Rowles, Adam Scarf, Paul Wright

