

PART 2

REPORT OF OPERATIONS



Callaghan campus, Newcastle

OUR INDIGENOUS COMMITMENT

We are proud of our record in Indigenous higher education, innovation and engagement, which is driven by relationships with the Indigenous community and through the work of the Office of the Pro Vice-Chancellor, Indigenous Strategy and Leadership and the Wollotuka Institute.

— Looking Ahead Strategic Plan 2020-2025



Professor Sarah Wright (back row, second from left) with the Gay'wu Group of Women

PRIME MINISTER'S LITERARY AWARD

Professor Sarah Wright, a human geographer from the University of Newcastle is part of the Gay'wu Group of Women who were joint winners of the Prime Minister's literary awards non-fiction category. Gay'wu Group of Women is the 'dilly bag women's group', a deep collaboration between five Yolngu women and three non-Aboriginal women over a decade. Their book 'Songspirals' is seen by the authors as a place to keep important stories and memories, a container of cherished knowledge. The book is divided into five major songspirals or stories. There's Wuymirri the Whale; Wukun, the gathering of the clouds; Guwak the messenger bird; Wiritj, settling of the serpent; and Gong-gurtha, keeper of the fire. It ends with the wind. 'Songspirals' is a rare opportunity for outsiders to experience Aboriginal women's role in crying the songlines in a very authentic and direct form.

SCHOLARSHIP INSPIRES NEW GENERATION OF MUSIC EXECUTIVES

Global music company BMG, in partnership with the University of Newcastle's School of Creative Industries, launched its first round of Indigenous scholarships, which offer the recipients the opportunity to work alongside some of the world's biggest and most-established artists and music industry professionals. The philanthropic partnership will see two scholarships offered each year for an initial three-year period and will be open to Indigenous students enrolled in the University's School of Creative Industries, as well as to fifth-year Law students - providing a diverse range of integrated learning opportunities with BMG.

MENZIES MEDALLION FOR FIRST ABORIGINAL SURGEON

Australia's first Aboriginal surgeon, the highly-acclaimed ear, nose and throat surgeon, Associate Professor Kelvin Kong was awarded the prestigious Menzies Medallion – the highest award offered by the Menzies School of Health Research, one of Australia's leading medical research institutes dedicated to improving Indigenous, global and tropical health. The award recognises Associate Professor Kong's leadership in Aboriginal health service delivery, advocacy and research, in particular his work to improve ear health in Aboriginal and Torres Strait Islander children. Associate Professor Kelvin Kong was also awarded \$1,123,450 over five years by NHMRC to explore a telehealth ear, nose and throat (ENT) model, to create an efficient, culturally appropriate hearing health care model for all Indigenous Australians.



Associate Professor Kelvin Kong (right) receives his Menzies Medallion

DISTINGUISHED ACHIEVEMENT IN THE HUMANITIES

Two outstanding researchers from the University of Newcastle were among the 22 fellows elected to the Australian Academy of the Humanities - the highest honour for achievement in the humanities in Australia. Professor John Maynard, recognised for his study of Aboriginal activism, cultural and intimate relations between Aboriginal and settler Australians, and Aboriginal people in sport and war; and Professor Victoria Haskins, for her research into Indigenous, women's and labour history, histories of domestic labour, interracial contact, and state intervention in Indigenous affairs.

REMOVING BARRIERS FACING INDIGENOUS RESEARCHERS

The University of Newcastle launched a new scholarship for Aboriginal and Torres Strait Islander PhD candidates to help address the inequality and barriers facing Indigenous researchers, and to help improve life outcomes for Indigenous peoples through Indigenous-led research.

Established with support from the Australian Government Research Training Program (RTP), the new Indigenous Priority Scheme aims to support Indigenous PhD researchers achieve success during their studies. The first recipient of the Scheme is Ian Perdrisat whose research in the field of education seeks to develop a holistic approach for improving the lives of Indigenous youth in remote communities.

INNOVATIVE PROGRAM RECRUITS INDIGENOUS MEDICAL STUDENTS

Having helped train more than 100 Indigenous doctors, the unique Miroma Bunbilla Program provides an alternative pathway to the University's Thurru Indigenous Health Unit. In Awabakal language meaning 'permit... take care of', Miroma Bunbilla is a week-long intensive selection process that gives aspiring Indigenous doctors the chance to prove their passion, aptitude and suitability to commence a medical degree. The program is unique in Australia for its approach to selecting students to study medicine, recognising that Indigenous students often come from remote places with reduced access to traditional educational opportunities and that their cultural context can be very different to that of non-Indigenous students.

NITV JOURNALIST WINS INDIGENOUS ALUMNI AWARD

Proud Jerrinja woman of the Wandi Wandian people and NITV/SBS Political Correspondent Shahni Wellington (Bachelor of Communication 2014) was awarded the 2020 Indigenous Alumni Award. Shahni is an active member of the Darkinjung community on the Central Coast and is outstanding in her field of journalism, as the political correspondent and now senior presenter and journalist for National Indigenous Television (NITV).



Shahni Wellington, 2020 Indigenous Alumni Award winner



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ENGAGEMENT PRIORITIES

Our four Engagement Priorities build on the success and strengths of our University and reflect the issues and opportunities most relevant to the future of our regions and our world. Our priorities reflect the mission-driven issues that we have the capacity, expertise and civic responsibility to address.

— Looking Ahead Strategic Plan 2020-2025



SUPPORTING BUSHFIRE-AFFECTED COMMUNITIES

The Centre for Rural and Remote Mental Health provided bushfire affected communities with additional support via the Rural Adversity Mental Health Program (RAMPH). Assistance provided through RAMPH Coordinators included attending evacuation centres to provide resources and support; participating in disaster recovery committees and activities; communications activity to raise awareness around normal emotional responses to disaster and signs that professional help should be sought; and providing bushfire resources online and in hardcopy for those without internet access.

LONGITUDINAL STUDY ON WOMEN'S HEALTH EXTENDED

The Australian Longitudinal Study on Women's Health, Australia's largest and longest operating women's health survey secured \$8.5 million in funding from the Federal Government Department of Health which will support the study for another three years. Australian Longitudinal Study on Women's Health partners, the University of Newcastle and the University of Queensland, have collected important data on women's health status and trends from across the nation since 1996.

TOMORROW MAKERS

Research focused on developing a blood test for colorectal cancer earned Dr Joel Petit a spot on the 2021 AMP Tomorrow Makers list and a \$57,000 grant. Dr Myles Young also made the list and earned a \$55,000 grant for his work on increasing access to a suite of men's physical and mental health programs, particularly for those in regional and remote areas.



BETTER, HEALTHIER LIVING

We are delivering better health outcomes and contributing to improving the wellbeing of our communities.

STUDENTS OFFER REMOTE DIET SERVICE

Students of the Bachelor of Nutrition and Dietetics program at the University of Newcastle delivered diet advice to the community under a pilot telehealth program, providing the public with continuity of care during times when movements were restricted. The free service offered by final-year students under the supervision of an Accredited Practising Dietitian provided our students with valuable practical skills in dietary consultations and the emerging field of telehealth.

PARTNERSHIP TO UNLOCK HEALTH INFORMATION

A new partnership between Port Waratah Coal Services, Hunter Medical Research Institute (HMRI) and Hunter New England Local Health District, valued at more than \$300,000 over four years, will partly fund a new clinical informatics project with HMRI. The project and role are strategically based within Hunter New England Health to help researchers and clinicians unlock and interpret the wealth of existing health system data.



Quality Teaching Academy

QUALITY TEACHING ACADEMY LAUNCHES

The university's Priority Research Centre for Teachers and Teaching launched the national Quality Teaching Academy in October 2020.

Based on the Quality Teaching model and Quality Teaching Rounds - both developed by University of Newcastle researchers under the leadership of Laureate Professor Jenny Gore - the Academy seeks to empower teachers so they can enrich student learning.

Following a \$16.4 million grant from the Paul Ramsay Foundation in 2018, our Teachers and Teaching Research Centre developed the Quality Teaching Academy and supporting resources to deliver high-impact, evidence-based professional development for teachers. It also offers a range of support services for schools, with a specific focus on overcoming disadvantage.

PARTNERSHIPS WITH NEWCASTLE AND LAKE MACQUARIE CITY COUNCILS

In late 2020, the University entered into formal partnerships with the City of Newcastle and Lake Macquarie City Council. Signed agreements with both councils outlined the shared commitments. The City of Newcastle Memorandum of Understanding has a focus on projects that build economic and social resilience, setting out a framework for how the partners will collaborate to develop a globally-connected, innovative, equitable and sustainable city. The Partnership Agreement with Lake Macquarie City Council formalises the ongoing relationship between the two organisations, under which both will continue to explore opportunities to improve their services and operations through co-investment, partnerships, innovation and research.

2NURFM KEEPING MULTICULTURAL COMMUNITIES CONNECTED

Newcastle's community radio station, 2NURFM, located on our Callaghan campus has been airing linguistically-diverse programs for more than ten years, and this year played an important role in keeping members of our community connected and informed during the COVID-19 pandemic. Programs for Polish, Macedonian, Tongan and Samoan communities are broadcast regularly incorporating foreign language news, music and stories from the native country. Programs have a global reach through the station's app.



CONNECTED COMMUNITIES

We are creating a stronger, more inclusive society by collaborating with communities to build local capacity, social connectedness and sense of belonging.

DOMESTIC VIOLENCE INTERVENTION PILOT PROGRAM FOR YOUNG PEOPLE

With funding from the Department of Social Services and the NSW Department of Education, University of Newcastle researchers developed an early intervention program specifically designed for young people who perpetuate violence against their parents, partners and carers. *Name. Narrate. Navigate.* engages young people around five key drivers of violence, building on earlier research that found trauma (including cultural trauma) was a major factor in youth domestic violence. The pilot engaged more than 100 young people and 500 cross-sector practitioners from the Department of Juvenile Justice (Maitland), Catholic Care, Singleton Family Support, Mission Australia, NSW Police, NSW Health Child and Adolescent Mental Health, Jutiz (an Indigenous social justice organisation), the Department of Family and Community Services, and more.

The team is now developing an online adaptation of the program in partnership with end users, local industry partners and an Indigenous elder to ensure content is safe, inclusive and accessible.

ANALYTICS UNDERPINS CITY'S PANDEMIC RESPONSE

The Hunter Research Foundation Centre worked with the City of Newcastle to help shape the Council's COVID-19 response for the community. The Centre's City Analytics program included monitoring and reporting on national and international best practice, evaluating Council's \$5.5 million community and economic response package, and providing economic impact briefings to the Mayor's City Taskforce comprising city leaders who were brought together to oversee Newcastle's recovery from the pandemic.



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Co-founders of MGA Thermal, Dr Alex Post and Professor Erich Kisi

WORLD-FIRST RENEWABLE ENERGY STORAGE SOLUTION

A fast-growing University of Newcastle start-up, MGA Thermal, led by materials scientist Professor Erich Kisi, is delivering a world first renewable energy storage solution. Miscibility Gaps Alloy (MGA) are thermal storage blocks capable of receiving renewable energy, storing it cheaply and safely as thermal energy, then using it to run steam turbines at power stations instead of burning coal. Proved in partnership with Swiss-based E2S Power Ag and patented by the University of Newcastle, these blocks can be added or removed to scale the system up or down to meet market demand. The team recently closed a seed investment round of \$500,000 with CP Ventures and was awarded a \$495,000 Accelerating Commercialisation grant from the Australian Government.

LEADING WITH HYDROGEN

The University of Newcastle advanced the potential of hydrogen as a sustainable-energy frontrunner this year. The University of Newcastle convened the Hunter Hydrogen Taskforce, established to position the Hunter as a competitive location for investment in hydrogen activity. The group is developing a Hydrogen Roadmap for the region and is pursuing a unifying industry-led project that demonstrates the region's unique value proposition for hydrogen.

Researchers Professor Behdad Moghtaderi and Dr Andrew Maddocks developed a system to manufacture low-cost, zero emissions green hydrogen. A pilot plant at Newcastle Institute for Energy and Resources (NIER) uses the Hydro Harvester which 'harvests' pure water (H₂O) from the air, then uses an electrical current from solar panels, to split the pure water into hydrogen and oxygen before storing the hydrogen as a gas.

NIER represents our university and regions in the \$4.9 million Australian Research Council Training Centre for the Global Hydrogen Economy announced in 2020. The Centre is a multidisciplinary and international consortium, led by the University of NSW.

IN CONVERSATION WITH THE HON MALCOLM TURNBULL AC

The University welcomed The Hon. Malcolm Turnbull AC and Lucy Turnbull AO to Callaghan campus in November, where Mr Turnbull delivered the University's first public, in-person lecture since the start of the pandemic on the topic of Cutting energy emissions and energy costs – *Decarbonising for our prosperous future*.



NEXT GENERATION RESOURCES

We are bringing the world closer to a sustainable future with solutions for the use of natural resources and the development of new energy technologies.

REDUCING CARBON EMISSIONS IN MANUFACTURING

Dr Jessica Allen, from the School of Engineering, was awarded an ARC Discovery Early Career Researcher Award valued at \$423,275 over three years to develop a novel solar-driven manufacturing process able to produce advanced carbon materials which effectively sequester carbon dioxide.

PRINTED SOLAR DEBUTS IN PUBLIC

In a significant step toward commercialisation of printed solar cells, the technology was trialled for the first time in a public setting at Lane Cove Council's new urban space 'The Canopy'. The installation allowed Professor Paul Dastoor's team to test the performance and durability of the product and prompted further renewable energy discussion as the Federal Government considered submissions to its Technology Investment Roadmap.

CENTRES OF EXCELLENCE ESTABLISHED

In 2020, the University played a key role in the establishment of two Centres of Excellence. The \$35 million ARC Centre of Excellence for Enabling Eco-Efficient Beneficiation of Minerals, hosted by the University of Newcastle under the leadership of chemical engineer Laureate Professor Kevin Galvin, involves eight Australian universities, industry partners, and overseas institutions and will drive research towards achieving zero-emission mining.

Professor Brett Neilan is representing the University in a consortium of local and international partners in the new \$35 million ARC Centre of Excellence in Synthetic Biology (CoESB) - a collaboration, which combines engineering with molecular biology to design and construct biological systems that can convert biomass from agriculture or waste streams to biofuel, biodegradable pesticides, bioplastics and other high-value chemicals.



Integrated Innovation Network (I2N) Hub

I2N BEHIND OUR REGION'S START-UP ECOSYSTEM

The Hunter region's start-up ecosystem continued to grow and mature throughout 2020 thanks to the continued efforts of the University's Integrated Innovation Network (I2N). Despite the limitations of COVID-19, I2N events attracted more than 2,000 participants with more than 650 businesses represented. The Navigator program had 68 participants, almost half of whom were female. The Validator program attracted a further 33 participants. Twenty-eight mentors took part in the Venture Mentor Program, providing valuable support to 13 ventures.

FOOD LAB FOR CENTRAL COAST

Designed to meet commercial food preparation standards, a \$1 million kitchen, food testing and laboratory facility opened at the University's Central Coast campus. The new facility will enable students to work alongside researchers and local food enterprises, who can also use the facilities to trial and develop new product lines.

PARTNERING TO BUILD ADVANCED MANUFACTURING CAPABILITY

The University joined with Whiteley Corporation to develop an advanced manufacturing capability for a new human therapeutics plant at Tomago. The partnership will support our regions' growing and potential industries, specifically advanced manufacturing and medical technology. Supported by an Australian Government Innovations Connections research grant and under the leadership of electrical and computer engineer Associate Professor James Welsh, the partnership will develop digitisation and automation processes for the new facility, due to open in 2022.

SECOND DOCTORAL TRAINING CENTRE LAUNCHES

The Food and Agribusiness Doctoral Training Centre opened in October, seeking to leverage Australia's competitive strength in this area. Through industry-embedded PhD programs and training, the Centre will research solutions to the challenges and opportunities that will shape the food and agribusiness industry, with a focus on product science,



GROWING INDUSTRIES

We are harnessing our regions' innovative spirit and history of transformation to help grow our current industries and drive investment into future opportunities.

climate resilience, sustainability, advanced technology and market access. Initial projects include the assessment of essential oils in treating fungal infection in citrus fruit, utilisation of by-products from plant-based milk production, and optimal handling and storage techniques for fresh fruit.

STARTING UP WIND TURBINES

University of Newcastle-born startup, Diffuse Energy, secured more than \$920,000 in funding contributions, including \$341,990 from the Australian Renewable Energy Agency (ARENA) to deploy its small wind turbine technology in remote locations across Australia.

Ten Diffuse Energy turbines will be installed on a variety of remote telecommunications sites, converting the setup from diesel power generation to renewable-hybrid. The project will support four full-time jobs in regional NSW along with additional employment in domestic hardware manufacturing and electrical controller design.

DEFENCE AGAINST IMPACTS OF CORROSION

The development of computer modelling to simulate the deterioration of maritime vessels subject to corrosion, fatigue and extreme ocean conditions, led by Professor of Engineering Rob Melchers, received a \$650,000 Australian Research Council Linkage grant. The collaborative research team of UNSW Sydney, the Defence Science and Technology Group and Pacific Engineering Systems International is working to improve our understanding of the economic, safety and environmental impacts of deteriorating maritime vessels and structures.



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LIFE READY GRADUATES

Recognising the rapidly changing environment our students will be entering when they graduate, our education experience will prioritise activities that help develop life-ready graduates who are community-minded, resilient and ready for work.

— Looking Ahead Strategic Plan 2020-2025



Department of Rural Health students participating in our Rural Immersion Program

STUDENTS IMPROVE THE HEALTH OF OUR REGIONS

More domestic undergraduate health students are choosing to complete a year of clinical placement and studies in rural towns across our regions, through the Department of Rural Health's Rural Immersion Programs. These programs have an emphasis on both community engagement and interprofessional learning. Rural placements can provide students with greater patient access than in busier urban settings, while also allowing them to contribute to better health and wellbeing outcomes in regional, rural and remote communities. Around 30 percent of the final year cohort of physiotherapy students (in 2021) have expressed an interest in the program.

MENTOR PLACEMENT PROGRAM OVERCOMES COVID-19

Master of Teaching students delivered one-on-one tutoring support for more than 200 high school students in a new placement program that gained the support of the NSW Department of Education. The program was developed in response to the COVID-19 restrictions, allowing aspiring teachers to experience a practical teaching environment while providing much-needed support for students preparing to sit their HSC.

ILEAD BEHIND VOLUNTEER OF THE YEAR FINALIST

Currently undertaking a PhD (Education), Indonesian international student and iLEAD Plus stage 1 participant, Salwa Salwa was nominated in the 2020 NSW Volunteer of the Year Award and was a finalist for Volunteer of the Year Awards in the 2020 Student Engagement Awards. Salwa has been an active volunteer in the University and around the local community, supporting a range of activities including cultural and social exchanges. She has done considerable work to break down religious and gender stereotypes and to connect people of different ages, beliefs, genders and cultural backgrounds.



Salwa Salwa, PhD student in Education

2020 EMPLOYABILITY EXCELLENCE AWARDS

The Employability Excellence Awards were launched in 2020 to recognise exceptional achievements in Work Integrated Learning, extracurricular activity, entrepreneurship and paid internships. From a field of 150 nominations, winners included students, staff and partner organisations that support our efforts to create life-ready graduates. We welcomed eight organisations to our Work Integrated Learning Hall of Fame, including the Central Coast based Take 3 for the Sea, co-founded by University of Newcastle alumnus Tim Silverwood.



Alumnus Tim Silverwood, founder of Take 3 for the Sea

RECORD NUMBERS FOR ENABLING PROGRAMS

With our commitment to equity a core feature of our strategic plan, we maintain our sector leading position in the delivery of enabling programs. In 2020, our flagship pathway programs – Open Foundation, Yapug and Newstep – attracted a total of 4,263, setting a new record for the University and making a significant difference to the lives of people from all backgrounds across our regions. 2020 also saw our highest ever number of Indigenous student enabling enrolments, with 324 students representing an increase of close to 20 percent on 2019.

CREATING SPACE FOR MORE WORK INTEGRATED LEARNING

In 2020 the University reviewed its program and course portfolio with the aim of reducing degree complexity and reorientating courses to employer needs. By discontinuing 530 courses, eight Undergraduate and 14 Postgraduate programs, space will be created in the curriculum to embed Work Integrated Learning into every degree, giving students the skills and experiences they need to be life-ready graduates.

ELICOS NSW INTERNATIONAL STUDENT OF THE YEAR

Postgraduate student Shuang Zhang is the 2020 ELICOS NSW International Student of the Year. Currently completing a PhD in Construction Management (Building), Shuang touches the lives of students and staff. High-spirited, dedicated to community, and passionate about spending her time to help those in need, Shuang is a multiculturalism champion on campus. She proactively works to bridge academic, professional and cultural gaps between Australia and her homeland, China. She has organised Chinese alumni to share their industry experience with students and continues to facilitate weekly 'Lucky Lantern' workshops on campus.



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STUDENT DESIGN DECALS FOR NEW ELECTRIC CAR FLEET

Second-year Design students from the School of Creative Industries were given the opportunity to pitch their design concepts for a car decal that will appear on all University electric vehicles. Students Edward Clarkson and Connor Getley produced the winning design - their work inspired by a combination of the cells seen in leaves under a microscope and the technology cells found in solar panels. The students both said the opportunity to gain real world experience was invaluable and getting to see their own work drive past on the University's car was an exciting moment.

*Vice-Chancellor Professor Alex Zelinsky AO
with student designers Edward Clarkson
and Connor Getley*



ASIA PACIFIC FOCUS

We are pursuing opportunities for partnerships and engagement in the Asia Pacific Region. We are investing in the capability of our students and staff to drive solutions to significant global issues.

— Looking Ahead Strategic Plan 2020-2025



Initiatives for Health in the South Pacific Open Forum participants in Suva

SUPPORTING HEALTH IN THE SOUTH PACIFIC

In partnership with UNITAR and the World Health Organisation (WHO), the University of Newcastle hosted an Open Forum on Initiatives for Health in the South Pacific in Suva in February. The forum brought leading public health and social change advocates together to provide information and training to improve health outcomes in the South Pacific. The findings of the joint WHO, World Federation of Societies of Anaesthesiologists and the University of Newcastle Knowledge Summary on Tobacco and Postsurgical Outcomes were presented, as well as tools to assist with the identification of appropriate smoking cessation programs.

INNOVATION FOR A SUSTAINABLE OCEAN

Through its Pacific Node and to celebrate UN World Oceans Day 2020, the University of Newcastle, in partnership with the Secretariat of the Pacific Regional Environment Programme (SPREP), and the Samoan Ministry of Natural Resources and Environment (MNRE) conducted a coastal clean-up of the Moata'a mangrove environment in Samoa. Events included a waste audit by MNRE, SPREP and Moata'a students.

An initiative of NIER, the Pacific Node provides a flexible framework to enhance research capacity to support regional priorities in the areas of climate change resilience, ecosystem and biodiversity protection, waste management and pollution control, environmental governance and food security, and

health. Working with regional partners, the Pacific Node is contributing to sustainable solutions through strategic activities including targeted PhD scholarships to Pacific Island Nationals; research collaborations tied to the environmental protection priorities of the Secretariat of the Pacific Regional Environment Programme (SPREP) and other regional organisations; and research training programs to transfer knowledge to practice.

US CONSUL GENERAL VISITS

The United States Consul General for NSW and QLD, Sharon Hudson Dean, visited the University of Newcastle in December as part of a tour of leading innovation institutions in both States.

With a particular interest in science and technology hubs and innovation centres, the Consul General toured the Advanced Technology Centre, I2N Hub at Williamstown, Newcastle Institute for Energy and Resources and the Hunter Medical Research Institute.

The Consul General recognised the potential to expand the already strong collaborative relationships between the US and Australia, which benefit from common approaches towards research and development, education, business practices, protection of intellectual property, and a willingness to expand the pool of knowledge.

CYCLONE PREPAREDNESS WILL SAVE LIVES

A new outlook model developed by Dr Andrew Magee from the Centre for Water, Climate and Land will save lives by giving Southwest Pacific Island nations including Fiji and New Zealand months more to prepare for tropical cyclones. A collaborative effort with the National Institute of Water and Atmospheric Research in New Zealand, the new outlook model will generate predictions for the number of tropical cyclones at an individual country level, up to four months before the start of the tropical cyclone season. Improving early warnings will directly support advanced disaster management preparedness.

FULBRIGHT SCHOLARS IN 2020

Newcastle Law School's Professor Lisa Toohey was awarded a Fulbright Professional Scholarship in Australian-American Alliance Studies, hosted at the University of Texas, to further her research investigating the changing political dynamics in the Asia-Pacific region, and the impact they are having on the relations between Australia and the United States.

We welcomed visiting American Fulbright Scholars water resources engineer, Dr Kelsey McDonough, and electrical engineer, Professor Edward Sazonov to the University of Newcastle in 2020.

A recipient of the Postdoctoral Scholarship and a graduate from Kansas State University, Dr McDonough worked with researchers at the University of Newcastle's Centre for Water Security and Environmental Sustainability, and the Centre for Water, Climate and Land to evaluate impacts of water availability in Australia.

Hosted by the University's Priority Research Centre for Physical Activity and Nutrition, Professor Sazonov, from the University of Alabama, applied his bioengineering skills to collaborative research projects on human nutrition and healthy eating behaviour. His research group developed sensors for monitoring food intake, cigarette smoking, and physical activity.



L to R: Dr Kelsey McDonough and Professor Edward Sazonov

SINGAPORE ALUMNI EXCELLENCE FUND

A group of 45 Singaporean alumni have been supporting high performing students facing educational disadvantage through a range of scholarships including the Singapore Alumni Scholarship, and a number of Singapore Alumni (follow on) scholarships. What started as a simple idea for a few friends to give back to the city where they laid their career foundations has become a significant collective of philanthropists, donating more than A\$600,000 to the Singapore Alumni Excellence Fund to support 47 Australian students (to date). This group of 'super alumni' continues to grow with two new scholarships being recently established - the CHIN Swui Sen for Singapore Alumni Scholarship in STEM or Business Studies and the CHIN Swui Sen for Singapore Alumni (follow on) Scholarship in STEM or Business Studies in memory of one of the University's first MBA graduates, CHIN Swui Sen (Master of Business Administration 1980; Bachelor of Engineering 1974).



Alumni Chin Swui Sen and wife Tan Poh Kiam near Newcastle

INDONESIAN AMBASSADOR VISITS

Indonesian Ambassador Y Kristiarto S Legowo, accompanied by Consul General of Indonesia Sydney, Mr Heru Hartanto Subolo, visited the University in December as a follow up to the Vice-Chancellor and former Senior Deputy Vice-Chancellor's visit to the Indonesian Embassy in March. The meeting was an opportunity to strengthen relationships, collaborative linkages and strategic partnerships with higher education institutions in Indonesia.

A SECOND NASA MISSION

Professor Shin-Chan Han's international satellite geodesy team (composed of scientists and engineers from NASA Goddard Space Flight Center, US Geological Survey, Northwestern University, Technical University of Delft, and Utrecht University) was selected for NASA's Gravity Recovery and Climate Experiment (GRACE) Follow-On mission. The University of Newcastle-led team joins as one of 20 science team members to the mission for the next four years. Using their GRACE Follow-On satellite-to-satellite data, Professor Han and his team will determine Earth system changes and solid Earth deformation prompted by earthquakes, ice melts, floods and droughts, and sea level rise. This work will provide critical insights to inform policy and public preparedness and responses to natural disasters. This mission follows on from NASA's GRACE mission, on which Professor Han was also engaged.



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REIMAGINING OUR CAMPUSES

We are creating an experience that connects us with society and our communities. Our campuses will be digitally enabled, environmentally responsible, safe, vibrant and accessible.

— Looking Ahead Strategic Plan 2020-2025



L to R: Vice-Chancellor Professor Alex Zelinsky AO, Elder in Residence Aunty Bronwyn Chambers, Dean of Regional Campuses Brok Glen

TRADITIONAL NAMES FOR NEW SPACES AT OURIMBAH

Food and retail offerings at our Ourimbah campus were upgraded this year with two new cafés acknowledging our commitment to respect the cultural and linguistic heritage of the Indigenous people associated with the campus.

In Darkinjung language, Ganda Burung are the words for food shelter - chosen to reflect the café experience - a place to sit and connect with others and with the adjacent outdoor spaces. Yara Ngura, also in Darkinjung language, are the words for gumtree place. This name was chosen to reflect the previous name of the library café and to connect with the environment around the campus.

NEW CAMPUS PARTNERS AND COLLABORATORS

In pursuit of the living labs model of engagement and to expand opportunities for students and researchers to collaborate with industry, we signed lease agreements with two new Callaghan campus partners. The ATC Building is the new home of AdvanCell Isotopes who are developing a platform for a revolutionary cancer treatment and Technotia Laboratories, a multidisciplinary group of scientists and engineers, committed to teaching and sharing knowledge with the next generations of young scientists.

CREATING VIBRANT AND INCLUSIVE CAMPUSES

With a focus on activating our campuses as welcoming and inclusive spaces for all, we ran a student Design-a-Place Marker competition. The winning entry titled The Journey was a four-pillar sandstone sculpture, designed by a team of fifth year Architecture students to represent the University's values of equity, excellence, engagement and sustainability. According to the team, the collection of sculptures speaks to their enriching journey with the university. It will be installed at Callaghan and Ourimbah campuses.

A permanent rainbow pedestrian crossing was installed outside the Chancellery Building at Callaghan, to demonstrate the University's commitment to equity, diversity and inclusion. The crossing is a permanent gesture of acceptance and support to LGBTQIA+ students and staff.



Staff and students launching the rainbow crossing at Callaghan

LOCAL CONNECTIONS OPENS AT CALLAGHAN

Local Connections, a casual, all-day dining experience, opened at Callaghan campus in October. Featuring locally-sourced produce, some of the Hunter’s best wine and staffed largely by students, *Local Connections* is making a valuable contribution to our campus and to our regions. The restaurant has adopted a ‘nose to tail’ philosophy in the menu and in line with the University’s Environmental Sustainability Plan 2019-2025, the kitchen team also keeps waste to a minimum by using the kitchen garden and compost system.

Students and staff at Local Connections



LEADING FROM THE CLOUD

The University of Newcastle became the first University in Australia to migrate its digital data to the cloud, improving the digital experience for students and staff. The transition from a physical data centre also improved environmental sustainability and cybersecurity, and enhanced the University’s technology responsiveness.

Our early adoption of cloud-based services, communication and collaboration channels was key to the University’s pivot to remote learning and working in response to the COVID-19 pandemic. All applications and data targeted for migration to the cloud were moved in just over nine months, instead of 18 months as originally planned.

REDUCING EMISSIONS AND WATER USE

On 1 January 2020, University operations switched to 100 percent renewable electricity under a contract with Red Energy and with that, cut our total carbon emissions by an estimated 47 percent. We constructed two 1.1 million litre rainwater tanks to irrigate sporting fields and reduce our demand for potable water. Through various initiatives we have reduced the 2020 total water consumption by 30 percent when compared to 2019 and these initiatives are actively reducing the University’s CO2-e emissions resulting from our water consumption.



Honeysuckle Stage 1A Topping Out ceremony

MAJOR CONSTRUCTION PROJECTS PROGRESS

A number of major construction projects reached key milestones in 2020. Construction was completed on a \$37.5 million BioResearch Building at our Callaghan campus. The fit-for-purpose building will enhance the technical and functional capabilities for our researchers, helping to improve the way disease is detected, diagnosed and treated. The building will be commissioned in early 2021.

Stage 1A of the University’s Honeysuckle precinct development, a four-storey building that will house a new

Innovation Hub for the region, celebrated its ‘topping out’ and is on track to be the first 6-star Green Star building for sustainable development in regional NSW.

Construction of the \$72.5 million University of Newcastle Central Coast Clinical School and the Central Coast Research Institute, located at Gosford Hospital, progressed to schedule throughout 2020 and is on track to welcome students from Semester 2 in 2021.

INSPIRING PEOPLE

With dedication to our values, we build on the passion, commitment and expertise of our people to focus on collaboration, innovation and agility. Excellence in our people ensures we are being responsive to emerging challenges and opportunities for competitive advantage.

— Looking Ahead Strategic Plan 2020-2025



Students at NUspace

TWO #1 RANKINGS

The University of Newcastle's Law School and undergraduate engineering programs were both recognised as number one in the country by the Quality Indicators for Learning and Teaching (QILT) Student Experience Survey (SES), undertaken in 2019. Each ranked 1st among Australian universities for the 'Quality of Overall Education Experience'.

ACADEMIC EXCELLENCE

We established a formal Academic Excellence program this year, with the aim of supporting a high-performing research-intensive university. Under the leadership of the Pro Vice-Chancellor (Academic Excellence), the Academic Excellence team of academics and professional staff representing various areas of expertise is focused on: driving excellence in the areas of teaching, research and engagement; nurturing excellence and identifying areas which require performance improvement across the University; promoting academic awards and the celebration of excellence; and monitoring performance at the individual, school, college and institutional levels.

In 2020, we rose 10 places to reach 197 in the QS World University Rankings, breaking into the top 200; our Times Higher Education ranking improved 32 places from 313 to 281 in the world; and our ARWU ranking improved 53 places from 418 to 365 in the world.

RESEARCH ACTION AWARD TO PREVENT CHILDHOOD OBESITY

Associate Professor Luke Wolfenden was awarded a Sax Institute Research Action Award for his work in improving the implementation of childhood obesity prevention services across the community. Associate Professor Wolfenden and his team have conducted a series of trials over several years, testing different strategies to implement programs in a variety of settings, such as schools, childcare services and sporting clubs. The team worked on improving the implementation of a healthy canteen policy in schools across NSW and was able to double the number of schools participating in the program. In the Hunter New England region child obesity rates dropped by around 1 percent per annum, at a time when rates were rising elsewhere in NSW.

LEADING THE WAY IN EQUITY, DIVERSITY AND INCLUSION

Inclusive leadership training was delivered to the University's senior executive with plans to cascade the training to other leaders and staff throughout 2021. The program equips leaders with practical tools to advocate for an inclusive culture and to role model inclusive behaviour. In 2020, the University had 80 Aboriginal and Torres Strait Islander staff (2.4 percent towards a target of 3.9 percent) with a number of new positions targeted for Indigenous recruitment across faculties and divisions.

Female academics achieved an overall promotions success rate of 76 percent in 2020.

PROFESSIONAL MENTORING SCHEME

Developed and successfully implemented by the Faculty of Engineering and Built Environment, a Professional Staff Mentor Program was expanded across the University and attracted close to 90 participants. With mentoring widely recognised as an enabler of career success, the program aims included: increasing engagement and job satisfaction; preparing staff for the future workforce; developing leadership skills; enabling the sharing of knowledge and expertise; increasing the frequency of mentoring and networking throughout the institution; and, supporting mentees with goal setting and career management.

In its inaugural year the program attracted 57 mentees keen to develop relationships with and learn from our 32 mentors. The program attracted participation from all Faculties and Divisions.

FELLOWS

A number of prestigious fellowships were awarded to University of Newcastle academics in 2020:

- Laureate Professor Kevin Galvin – **Fellow Australian Academy of Science**
- Laureate Professor Jenny Gore - **Fellow of the American Educational Research Association**
- Professor Victoria Haskins - **Fellow of the Australian Academy of the Humanities**
- Professor Jennifer Martin - **Fellow of the Academy of Health and Medical Sciences**
- Professor John Maynard - **Fellow of the Australian Academy of the Humanities**
- Professor Mark Stewart - **Fellow of the Australian Technological Sciences and Engineering**
- Professor Garry Willgoose - **Fellow of the American Geophysical Union**

2020 EXCELLENCE AWARDS

The University's annual Excellence Awards (formerly the VC's Awards for Excellence) recognise the achievements of individuals and teams of staff across 15 categories:

Community Engagement Award Winner: Aunty Shaa Smith, Uncle Bud Marshall, Neeyan Smith, Professor Sarah Wright, Dr Paul Hodge and Dr Lara Daley, Yandaarra

Global Engagement Award Winner: Professor Ravi Naidu, Faculty of Science

Industry Engagement Award Winner: Associate Professor Richard Fletcher, Faculty of Health and Medicine

Research Supervision Award Winner: Associate Professor Mitch O'Toole, Faculty of Education and Arts

Early Career Researcher Award Winner: Associate Professor Andrew Gardner, Faculty of Health and Medicine

Sessional Academic Teaching Award Winner: Levi Tegg, Faculty of Science

Teaching Award Winner: Dr Bobae Choi and Associate Professor Doowon Lee, Newcastle Business School

Student Experience Excellence Award Winner: Ruth Pring, Lisa Nelson, Hannah Rizzo and Tamara Tancred, Faculty of Engineering and Built Environment, Student Success Partners Program

Individual Award Winner: Dr Adam Koppers, Research and Innovation Division

Professional Team Award Winner: Kate McKenny, Jessica Colefax, Bree Knight, Alex Heim, Tom Knox, Alex Matthew, Louise McGufficke, Jack Meek, Terry Moore, Lizette Olivier, Lisa Puddephatt, Vaida Shaw, Nicole Shelford, William Wallace and Alexandria Yates, AskUON

Rising Star Award Winner: Adrian Mereles, Academic Division

Leadership Excellence Award Winner: Associate Professor Amy Maguire, Faculty of Business and Law

Equity, Diversity and Inclusion Award Winner: Dr Jill Duncan, Faculty of Educations and Arts

Health, Safety and Wellbeing Award: Natalie Evans, Vice-Chancellor's Division

Values Award Winner: Jessica Bennett, Faculty of Health and Medicine



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SUPERSTARS OF STEM

Electrochemist and engineer, Dr Jessica Allen, and coastal scientist, Associate Professor Hannah Power, are among Australia's newest 'Superstars of STEM' – a group of 60 women chosen for this acclaimed national program in 2020. The Superstars of STEM program was created in 2017 by Science & Technology Australia to help demolish gender stereotypes about who can work in science, technology, engineering and mathematics (STEM) and boost the media visibility of women in STEM. It aims to build a critical mass of Australian women scientists, technologists, engineers and mathematicians to become media role models for young women and girls – and to work towards equal representation in the media of women and men working in all fields in STEM.

L to R: Associate Professor Hannah Power and Dr Jessica Allen



LIVING OUR VALUES

Our values set the standard that we expect, encourage and nurture in our staff and students. They guide our decision making and position us to achieve our purpose.

— Looking Ahead Strategic Plan 2020-2025

EXCELLENCE

We pursue the exceptional and strive for innovation in our teaching, research and operating environment.



Associate Professor Amy Maguire receives her award

TEACHING EXCELLENCE REWARDED

Associate Professor Amy Maguire and Dr Warren Reilly received national recognition for their teaching excellence, when they were awarded the highly acclaimed 2019 Australian Award for University Teaching (AAUT) in February 2020. These awards recognise Australia's most outstanding university teachers or teaching teams who have demonstrated excellence, leadership and sustained commitment to teaching and learning in higher education.

Associate Professor Amy Maguire from the Faculty of Business and Law received one of just seven national Teaching Excellence awards, successful in the 'Law, Economics, Business and Related Studies' category. Specialising in Public International Law, International Human Rights Law and Indigenous Peoples, Issues and the Law, Associate Professor Maguire has taught undergraduate and post graduate law students at Newcastle Law School for more than 14 years. She has collaborated with colleagues to support the access and progress of Aboriginal and Torres Strait Islander students to higher education.

Lecturer and Senior Practitioner Fellow with the School of Engineering, Dr Warren A. Reilly, received a Citation for Outstanding Contributions to Student Learning award. Dr Reilly was awarded the Citation for his work implementing innovative approaches to design curricula for students to challenge, problem solve, communicate new learning experiences and direct their own life-long learning.

TOP 200 IN QS WORLD UNIVERSITY RANKINGS

In 2020, the University of Newcastle climbed ten places to sit among the World's Top 200 universities in the prestigious 2021 QS World University Rankings. The University's trajectory reflects an unwavering focus on delivering excellence in teaching, learning and research, and is testament to a sustained emphasis on quality of output as well as a strong and growing network of industry relationships.

EXCELLENCE IN WORK INTEGRATED LEARNING

Dr Xanne Janse de Jonge from the School of Environmental and Life Sciences was awarded the Work Integrated Learning Staff Member of the Year award in recognition of her dedication to providing alternative and meaningful Work Integrated Learning opportunities for students amidst COVID-19 restrictions. During COVID-19 lockdowns, Dr Janse de Jonge ensured second and third-year students could complete their course requirement of 140 hours of practicum, using online consultancy platform Telehealth.

RESEARCH FIELD LEADERS AND RISING STARS

The Australian's Research 2020 magazine named six University of Newcastle researchers 'Field Leaders' or 'Rising Stars' for their track record of excellence. The University was also named 'Lead Institution' for research in the fields of Strategic Management, Cognitive Sciences and Special Education.

- Environmental and Geological Engineering Field Leader: Professor Jinsong Huang
- Software Systems Field Leader: Associate Professor Hongyu Zhang
- Emergency Medicine Field Leader: Professor Zsolt Balogh
- Language & Linguistics Field Leader: Associate Professor Kiwako Ito
- Cognitive Science Field Leader: Professor Scott Brown
- Biodiversity and Conservation Biology Rising Star: Lachlan Howell

DISTINGUISHED GLOBAL PHD TALENT

Nanomaterials researcher Ahmad Tabish was selected for the Distinguished Talent Visa under the Australian Government's Global Talent Independent Program. Tabish is one of the youngest PhD researchers to be granted the Visa. Based at the University of Newcastle's Global Innovative Centre for Advanced Nanomaterials (GICAN), under the leadership of Professor Ajayan Vinu, Tabish is helping to develop highly porous, silica-based nanomaterials for a wide range of applications in the health, energy and environment sectors.

EQUITY

We are committed to widening participation, promoting diversity and fairness, overcoming injustice and increasing success for all.

TRANSFORMATIVE EARLY ENTRY INTO LAW FOR REFUGEES

The Newcastle Law School launched Australia's first scheme to offer people from a refugee background the opportunity to gain early entry to study law. The Refugee Early Entry Scheme considers a person's whole experience, including a range of measures beyond results at school or tertiary admission rank. Successful applicants are accepted into the Bachelor of Laws (Honours) Combined degree program before sitting their final Higher School Certificate (HSC) examinations, reducing the pressures associated with the transition to higher education. This program will drive societal benefits by ensuring people in our communities from refugee and migrant backgrounds can access legal representation by people who share lived experiences and cultural knowledge.

LEADING THE WAY FOR GENDER EQUITY

The University was awarded a 2020 Employer of Choice citation by the Workplace Gender Equality Agency for the 6th consecutive year - in recognition of its commitment and progress towards gender equity. Implementation of the Athena SWAN Bronze Action plan also progressed and Silver accreditation is an Institutional KPI. In September 2020, the University signed a Joint Sector Position Statement as a declaration of cross-sector co-operation and intent, to ensure that the Australian higher education sector emerges from the COVID-19 pandemic with gender equity being central to recovery and sector regeneration.

PHILANTHROPIC PARTNERSHIP IMPROVES INDIGENOUS HEALTH AND WELLBEING THROUGH SPEECH

A new Indigenous scholarship funded by the Vonwiller Foundation offers first year Indigenous Bachelor of Speech Pathology students \$12,000 (over a three-year period).

There is a high demand for speech pathologists in Indigenous communities across rural NSW, especially amongst Aboriginal and Torres Strait Islander children who often have higher rates of middle ear disease and other associated speech, language and literacy difficulties. By supporting our Indigenous students with their insights into the cultural, speech, language and communication needs of their communities, we hope ultimately to see an improvement in health outcomes in Indigenous communities across rural NSW by having a greater number of Indigenous speech pathologists working within and addressing the needs of the community.



Dr Jill Duncan, winner of the 2020 Equity, Diversity and Inclusion Excellence Award



EXCELLENCE THROUGH EQUITY PATHWAY TO MEDICINE

To support a medical workforce that reflects the broader community the University introduced the Excellence through Equity Pathway to Medicine pilot. From 2021, up to six places in the University's Medical Program will be earmarked for students who have overcome major life challenges, with the idea that health services and approaches to care are developed and provided with the full diversity of the population

This new enabling pathway to the Bachelor of Medical Science and Doctor of Medicine (Joint Medical Program) strengthens the University's commitment to equity across our degree programs. As part of the pilot, students who complete Open Foundation or Newstep programs will be eligible for the pathway into Medicine if they satisfy academic and interview criteria, as well as demonstrate socioeconomic disadvantage and three additional equity indicators that include financial hardship, carer responsibilities, personal illness or disability, or experience of domestic/family violence.



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ENGAGEMENT

We are deeply connected to the challenges and opportunities in our regions and beyond.



L to R: Taylah Gray and Loren Collyer in conversation at the Looking Ahead Lecture #5: Black Lives Still Matter

LOOKING AHEAD TOGETHER

In 2020, the University launched the Looking Ahead Lecture Series to engage our communities in our journey under the *Looking Ahead Strategic Plan 2020-2025*. The first five lectures covered a range of topics including the impacts of COVID-19 on society, our collective mental health and the planet; how as an ‘engaged university’ our

researchers collaborate to leverage the unique history of our region to solve some of our most challenging problems; and the historical and continuing inequalities faced by Aboriginal people and the role of education to effect positive change for Australia to be truly fair and free for all.

10 MILLION CONVERSATION READERS

Laureate Professor Clare Collins, Professor of Nutrition and Dietetics in the School of Health Sciences and Deputy Director of the Priority Research Centre for Physical Activity and Nutrition achieved 10 million readers on The Conversation, an independent news site showcasing articles by academics and the wider research community. Professor Collins has authored more than 90 articles for the platform, which have been republished, translated and accessed all over the world.

OPEN WEEK ONLINE

COVID-19 restrictions meant the University was not able to hold traditional Open Day campus events for prospective students, their families and the wider community in 2020. Instead, we delivered Open Week Online – a seamless virtual experience for 2,500+ registered prospective students – delivered through a world-class microsite which achieved more than 27,000 page views. Students tuned into more than 30 live events and visitors could also access content ‘on-demand’. Augmented reality filters for Instagram

meant students could ‘see themselves on campus’ and new Ask a Student and Ask an Academic (TAP) platforms meant students could ‘chat’ with someone in real time as they would have on campus.

GLOBAL CITIZEN AWARD

Noor Maulidiyah was awarded the 2020 University of Newcastle Global Citizen Student Engagement Award. Noor is the international students’ convener at the University of Newcastle Student Association (UNSA) and has advocated for international students at an International Students Welfare Roundtable meeting as well as the Council of International Students Australia and National Union of Students. She volunteers for the University of Newcastle Islamic Society with a particular focus on supporting female Muslim students and contributing to society events and activities. The Global Citizen Award celebrates the work of a student who has embraced global experience and diversity in their educational journey and who shares this passion with their peers.

SUSTAINABILITY

We are ethically minded and prioritise responsible management of our environment and financial resources.

INAUGURAL GREEN IMPACT PROGRAM

Staff across the University championed a greener, more sustainable campus with 21 teams registering to take part in the inaugural Green Impact program. More than 140 staff completed over 290 actions to reduce our carbon footprint across our campuses, including reducing and diverting waste from landfill, increasing recycling, conserving energy, adopting active travel, increasing awareness and engagement in sustainability and planting native seedlings around our campuses.

Green Impact program participants



GREEN GOWN GONGS

The University was awarded three of the eight prestigious 2020 Australasian 'Green Gown Awards'. Awards organiser, Australasian Campuses Towards Sustainability (ACTS) recognised the University's efforts in the 2030 Climate Action, Benefitting Society, Student Engagement and Creating Impact categories.

The Australasian Green Gown Awards are open to all tertiary education institutions in Australia and New Zealand, were started in 2004 and brought to Australasia in 2010 to inspire, promote and support change towards best practice sustainability.

LEADERS IN SUSTAINABLE OPERATIONS AND INVESTMENTS

We continue to lead on climate action. In addition to our switch to 100 percent renewable electricity in 2020, we installed 1.1MW of on-site PV solar (3-4,000 panels) which will generate our own electricity across multiple buildings, and we completed around 12 percent of our LED lighting upgrade to drive energy consumption down.

We are now diverting 40-60 percent of general solid waste from landfill through innovative recycling solutions such as disposable coffee cup recycling (5,000 cups recycled), food organic recycling bins (six tonnes diverted to generate renewable electricity) and soft plastic recycling (two tonnes diverted).

We added three electric vehicles to our fleet in 2020 and these are utilising our four dual electric vehicle charging stations on campus. Our Callaghan/NUspace shuttle route uses a hybrid bus and averages 734 staff and student passengers each day, significantly reducing individual motor vehicle use and our collective CO2e emissions.

We are investing in biodiversity conservation and bushland regeneration, setting aside 30ha for bushland zones on our campuses. In 2020, we planted over 2500 native endemic

seedlings, actively sequestering CO2-e emissions with an estimated 230 tonnes abated across Callaghan and Ourimbah.

Two 1.1 million litre rainwater tanks now irrigate sporting fields and reduce our demand for potable water, adding to the historical construction of 2 million litres of stormwater retention ponds to irrigate ovals, and over 500,000 litres of rainwater tanks. We reduced our total water consumption in 2020 by 30 percent when compared to 2019 and these initiatives are actively reducing the University's CO2-e emissions resulting from our water consumption.

We are also committed to sustainable construction of new buildings. Our new building on track to open in the Honeysuckle Precinct in Newcastle in mid 2021 will be regional Australia's first 6 Star Greenstar Design and 'As Built' rated building by the Green Building Council of Australia.

By the end of 2020, the University had met or exceeded each of its environmental, social and governance (ESG) investment goals. In the three years the ESG goals have been in place, the weighted ESG score has improved by more than 35 percent and the carbon footprint of the University's listed shares portfolio, as measured by weighted average carbon intensity (WACI), has decreased by more than 30 percent and as at 30 June 2020 was c.28 percent below the composite benchmark. We have divested from all fossil fuel companies that are not demonstrating a transition to a low carbon economy and we are increasing investments aligned with the UN Sustainable Development Goals (UN SDGs). The University invests in a Socially Responsible Global Shares fund, of which 70 percent is invested with managers that specifically target sustainability themes aligned with the UN SDGs. In June 2020, the University mapped its portfolio to the UN SDGs and the result was 22 percent of the University's portfolio (listed equity and direct property) being aligned to one or more UN SDGs.



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