



**UNSW**  
SYDNEY

# UNSW Sustainable Development Goals

2020–2021 Report

UNSW Sydney  
Division of  
Equity Diversity  
& Inclusion



# Acknowledgement of Country

We would like to acknowledge the Bedegal (Kensington campus), Gadigal (City and Art & Design Campuses) and Ngunnawal people (Australian Defence Force Academy in Canberra) who are the traditional custodians of the lands where each campus of UNSW is located.

## 2021 Key Facts



**One of Australia's**

leading research and teaching universities



**2nd in Australia**

for ARC funding 2021



**World-class research**

2018 Excellence in Research in Australia



**LGBTIQ+ & gender equality**

Accredited for inclusion: GOLD AWEI  
Bronze SAGE Athena Swan  
Employer of Choice WGEA



**1097 support places**

for students from low-SES, regional, remote, and Indigenous backgrounds.



**55,000+ research publications**

related to the 17 SDGs<sup>1</sup>



**100% renewable energy**

across UNSW since 2020<sup>2</sup>



**55th in the world**

2022 Times Higher Education Impact Rankings<sup>3</sup>



**17th for SDG 6**

Clean water and Sanitation<sup>4</sup>



**17th for SDG 7**

Affordable and clean energy<sup>4</sup>

<sup>1</sup> Using THE data points figures calculated using SCOPUS/ Elsevier (2018–2020).

<sup>2</sup> 100% of UNSW's electricity demand has been supplied by emissions-free UNSW solar photovoltaic (PV) technology from the Sunraysia Solar Farm.

<sup>3</sup> The 2022 Impact Rankings is the fourth edition and the overall ranking includes 1406 universities from 106 countries/regions.

<sup>4</sup> THE Impact rankings 2022, which assessed projects completed in 2020.

# Introduction

The United Nations' 17 Sustainable Development Goals (SDGs) are an urgent call for action by all countries in a global partnership.

UNSW's commitment to improving the quality of life for people in Australia and around the world, through partnerships, thought leadership, engagement with decision-makers, sustainable development and a commitment to equity, diversity and inclusion is confirmation of our conviction that we have a role to play in working towards the SDGs.

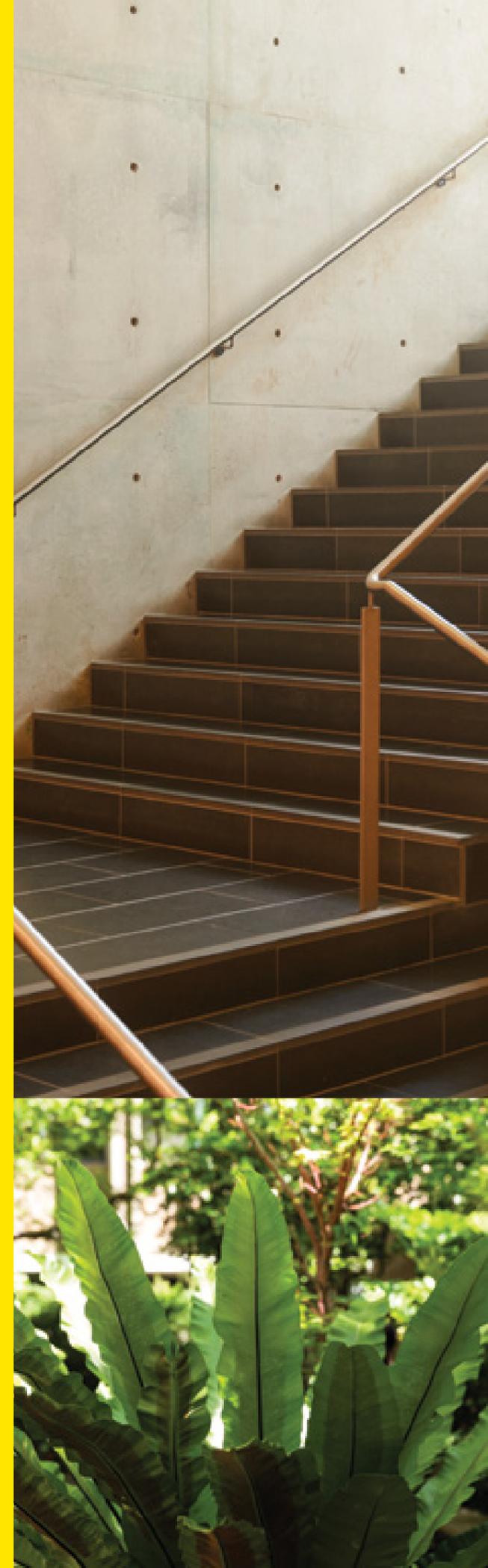
UNSW works to achieve the SDGs through innovative research that improves lives, producing socially aware and globally focused graduates, and by building strategic partnerships in Australia, the Asia-Pacific region and across the world. In this way we expand our global impact, address contemporary challenges and take advantage of new opportunities in research and education. Our commitment to social impact is explicit

in the UNSW 2025 Strategy and equally significant to our commitment is UNSW's history, since the University's establishment in 1949, of pursuing social justice causes through research and teaching, and partnerships.

As a global Top 50 university and member of the Australian Group of Eight research-intensive universities, we take our leadership responsibility seriously by creating and nurturing an inclusive educational and employment environment for staff and students, fostering relationships with our local, national and global communities, and ensuring that we hold ourselves accountable to report against the SDGs.

This inaugural report gives a picture of UNSW's performance against the SDGs over the years 2020-2021. Future reports will be produced annually and will ensure our SDG-related activities are compiled and made public to promote transparency and to bring our community along on the social impact journey.

2021 Key Facts	1
Introduction	2
SDG 1 No Poverty	4
SDG 2 Zero Hunger	6
SDG 3 Good Health and Well-being	8
SDG 4 Quality Education	10
SDG 5 Gender Equality	12
SDG 6 Clean Water and Sanitation	14
SDG 7 Affordable and Clean Energy	16
SDG 8 Decent Work and Economic Growth	18
SDG 9 Industry, Innovation and Infrastructure	20
SDG 10 Reduced Inequalities	22
SDG 11 Sustainable Cities and Communities	24
SDG 12 Responsible Consumption and Production	26
SDG 13 Climate Action	28
SDG 14 Life Below Water	30
SDG 15 Life on Land	32
SDG 16 Peace, Justice and Strong Institutions	34
SDG 17 Partnerships for the Goals	36





# No Poverty

Over 3 million Australians, including 731,000 children, live below the poverty line. If poverty persists in a wealthy country like Australia, how do we eradicate it on a global scale? UNSW is committed to research, education, support and partnerships that tackle poverty, inequality, wellbeing and justice.



## RESEARCH & ENTERPRISE

### Tackling critical social issues

A five-year research and impact collaboration between ACOSS (the Australian Council of Social Services) and UNSW through the Social Policy Research Centre (SPRC) continues to sharpen the national focus on poverty and inequality in Australia. In 2020 we released our joint two-part report, 'Poverty in Australia', which included the impacts of COVID-19 on inequality.

### Monitoring homelessness

Researchers from the City Futures Research Centre and Centre for Social Impact at UNSW led the Australian Homelessness Monitor 2020 report in partnership with Launch Housing. The report contained the first in-depth examination of the impacts of COVID-19 on housing markets and homelessness in Australia, predicting that homelessness is set to surge.

### Amplifying social impact

The Centre for Social Impact is a collaboration between UNSW, Swinburne University of Technology and The University of Western Australia. Its Amplify Social Impact initiative delivers solution-oriented data and tools to equip organisations to improve the wellbeing of Australia's communities, families and individuals.



## EDUCATION & STUDENT EXPERIENCE

### Equity scholarships and Support Grants

UNSW awarded over \$6 million in Equity Scholarships to 961 students in 2021. Student Support Grants are also available to eligible students to assist with essential living and study related costs.

### The Gateway Admission Pathway

The Gateway Admission Pathway supports students from low socioeconomic status (SES) backgrounds, typically underrepresented at university, to gain early conditional entry to UNSW prior to finishing their Higher School Certificate. In 2020, 979 early conditional offers were made to underrepresented students through the Gateway Admission Pathway, rising to 1583 in 2021.

## EXTERNAL LEADERSHIP

### NSW Equity Consortium: Imagined Futures

The NSW Equity Consortium is an alliance led by UNSW with UTS and Macquarie University. It uses literacy as a vehicle to encourage students in Years 7-9 from underrepresented backgrounds to conceptualise their "Imagined Futures" and builds student capacities for accessing tertiary education and improving learning outcomes beyond school.

### Yuwaya Ngarrali Partnership with Dharriwaa Elders Group

Yuwaya Ngarrali is an initiative that promotes two-way learning between Walgett's Dharriwaa Elders Group and a range of UNSW faculties, who work in partnership to improve the wellbeing, social, built and physical environment and life pathways of Aboriginal people in Walgett through Community-Led Development and evidenced-based programs.

## OPERATIONS & GOVERNANCE

### COVID-19-related relief programs

During 2020 UNSW raised \$1.85 million in philanthropic support for COVID-19-related relief programs, and provided \$5.9 million in funding relief and grants to around 11,000 students. Relief programs and grants continued into 2021.



GOALS



**15%**  
stretch target of all undergraduate students to be from low-SES backgrounds

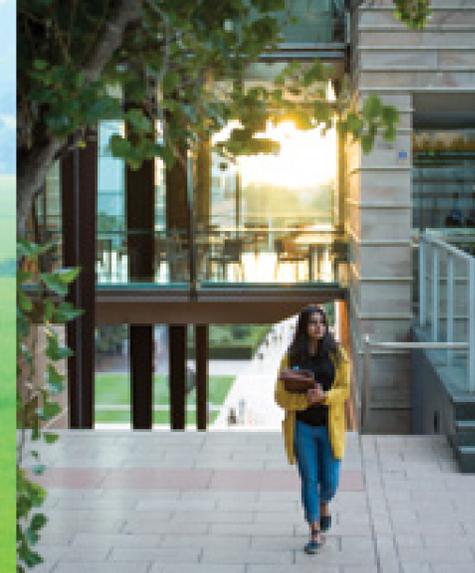
**954**  
courses

**492**  
Publications  
(2020)



# Zero Hunger

In 2019, there were over 820 million people globally suffering from hunger according to the Food and Agricultural Organisation, and estimates are that over 4 million Australians did not have reliable access to food.



249  
courses

\$14,225  
Research funding

495  
Publications  
(2020)

## RESEARCH & ENTERPRISE

### Future Food Systems Cooperative Research Centre

UNSW is a research partner for the Future Food Systems Cooperative Research Centre, working with big brands to deliver science and technology solutions for the Australian food sector.

### Fish farming in PNG and Vietnam

Associate Professor Jes Sammut has collaborated with the National Fisheries Authority in PNG on a fish farming research project to address food and income security in the Asia-Pacific region. Funded by the Australian Centre for International Agricultural Research (ACIAR) he's also worked in Vietnam to increase rice and shrimp production levels in the Mekong Delta.

### Could meat-free Monday solve world hunger?

Food and health expert Professor Johannes le Coutre, from UNSW's School of Chemical Engineering, says reducing meat consumption could help reduce the impact of climate change. He participated in The Future of Food as part of a Centre for Ideas event during National Science Week in 2021.

### UNSW Chemical Engineering Food and Health Cluster

The Food and Health Cluster drives innovation in the interconnected research areas of health, food process engineering and sustainability, from infant nutrient intake to cellular agriculture.

## EDUCATION & STUDENT EXPERIENCE

### Arc Food Hub

Arc Food Hub, a free grocery store for UNSW students, was launched during COVID-19. Emergency e-vouchers for supermarkets, valued at \$200, were distributed to help at-risk domestic and international students meet their basic needs. In 2020 Arc distributed more than 9000 food hampers and 2500 pre-made meal packs to students through its Food Hub initiative.

### Creston College community initiatives

Creston College organises activities to help residents and friends of the college give back, including preparing meals to feed the homeless in Sydney's Western suburbs. They also work with Indigenous communities in Dubbo and undertake annual summer projects in the Philippines, India, Mexico and Fiji.

## EXTERNAL LEADERSHIP

### Food and water security in Walgett

A five-year NHMRC grant (2021–2025) has been secured for a Yuwaya Ngarra-li/ UNSW GWI initiative in collaboration with the Dharriwaa Elders Group and Walgett Aboriginal Medical Service (WAMS). It's created a community garden and a water-efficient micro-farm to enhance food and water security for the community.

### Is it possible to feed a future population of 10 billion people a healthy diet within planetary boundaries?

Four years ago, this question was posed to a group of doctors and dieticians from all over the world, and their response became the Planetary Health Diet – a way of eating created by scientists to bring together the health needs of humans with what our planet can afford. In 2020 UNSW Medicine & Health and the Centre for Ideas held a digital livestream on this topic.

## OPERATIONS & GOVERNANCE

### Sustainable food choices on campus

All campus food outlets offer vegetarian options, and some offer vegan options. Run by volunteers, Thoughtful Foods Co-op provides the UNSW community with bulk wholefoods, pantry items and seasonal organic fruit and veggie boxes.





# Good Health and Well-being

COVID-19 has forced all of us to examine our global world and the central importance of health for our social, educational and economic security, and highlights the fact that threats to health are not experienced equally by all.

## RESEARCH & ENTERPRISE

### The Centre for Social Research in Health (CSRH)

The CSRH conducts social and behavioural health research into chronic health conditions, HIV and sexual health and undertakes health promotion and harm reduction, while contributing to policy and working in partnership with the community, government and research partners.

### Partners with PNG Institute of Medical Research

Papua New Guinea (PNG) has the highest burden of HIV in the Pacific region and a rise in drug resistance in the region has proven problematic for people currently on or about to commence HIV treatment. The Kirby Institute at UNSW Sydney and the PNG Institute of Medical Research have partnered to improve HIV viral load testing and detection of drug resistance in PNG.

### Women in health research in 2020

In 2020, UNSW including Associate Professor Christy Newman released a groundbreaking report in collaboration with other universities that is expected to improve the lives of people with bloodborne viruses. And Scientia Professor Fiona Stapleton was named in The Australian 250 top researchers.

## EDUCATION & STUDENT EXPERIENCE

### SEXtember

UNSW's SEXtember festival held annually on campus and online is a collaboration between the UNSW Health Promotions Unit and Arc to explore the diverse worlds of sex and sexuality, providing broad perspectives.

### Free and affordable optometry clinic

Students, staff and the wider community can access a wide range of free and affordable services at the Optometry Clinic, operated by the UNSW Optometry School, using staff, clinicians and student practicums.

### Free and confidential counselling

UNSW Counselling and Psychological Services provide free and confidential counselling sessions to all students at UNSW. In 2020 they added online telehealth sessions.

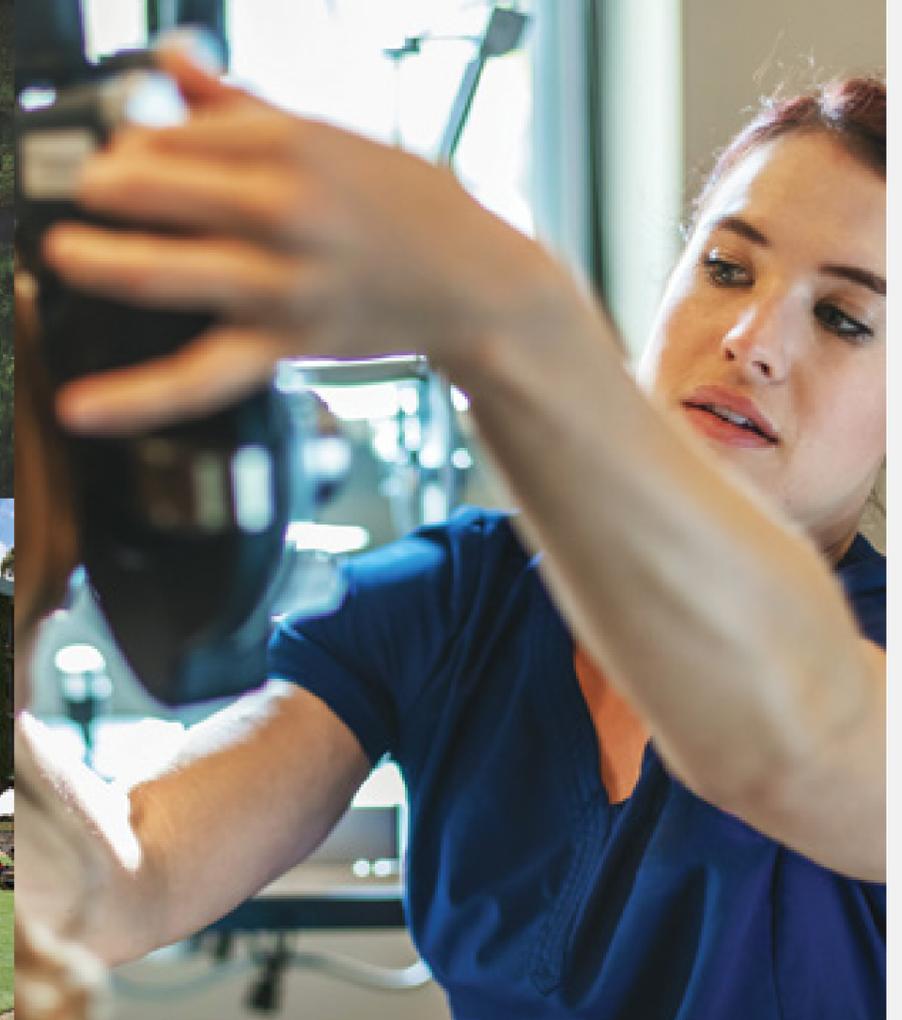
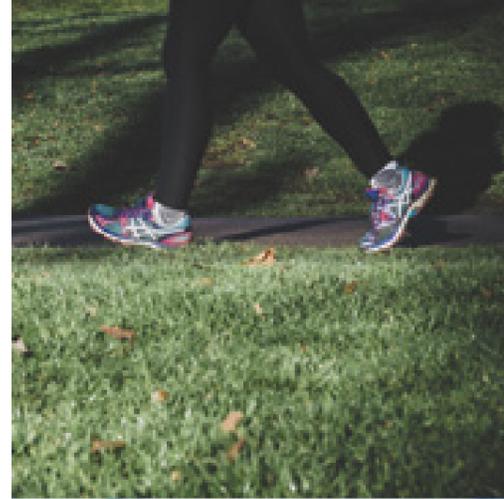
### UNSW Medicine & Health

One of the world's top 50 medical faculties, UNSW Medicine & Health consists of world-leading research centres and institutes, eight schools in Sydney, a Rural Clinical School plus NSW country campuses, state-of-the-art facilities and partnerships with some of the finest Australian healthcare organisations. It is committed to driving innovation and education to improve patient outcomes across Australia and prioritises social equity and inclusion by delivering effective medical research and education to Indigenous and rural communities.

## EXTERNAL LEADERSHIP

### Leading the fight against COVID-19

In 2020 a team of 13 world-class researchers and project staff from the Kirby Institute and the School of Public Health and Community Medicine at UNSW was seconded to NSW Health to join the fight against COVID-19.



### Top infectious diseases expert

Professor of Epidemiology, Healthcare Infection and Infectious Diseases Control, Mary-Louise McLaws has advised the World Health Organization for over two decades. During the pandemic she also provided expert advice to the government and media.

### Dedicated RNA research

UNSW is leading a new institute to establish an RNA-based medicine and vaccine manufacturing hub in Sydney following a call from the NSW Government.

### Randwick Health and Education Precinct

UNSW is collaborating with the NSW State Government and other stakeholders to develop the Randwick Health and Education Precinct – bringing together world-class education, research and healthcare organisations to address real-world problems across the lifespan.

## OPERATIONS & GOVERNANCE

### Smoke-free campuses

UNSW has been smoke-free since 31 May 2014.

137

Courses

\$204,780,430

Research funding

10,439

Publications (2020)



AWARD

Professor James (Jim) Patrick, one of the original engineers to pioneer the development of the multi-channel cochlear implant, was named the 2021 NSW Scientist of the Year.

### UNSW Healthy Universities Initiative

The Healthy Universities Initiative aims to promote and improve student and staff self-management, success and wellbeing at UNSW. In 2021 it looked at a whole of university approach.

### Leading COVID-19 response

Health, safety and wellbeing were at the forefront of UNSW's approach to the COVID-19 pandemic, with online resources for staff, students and visitors and guidance from our Safe Return team.



# Quality Education

Many of the injustices that the SDGs target result from a lack of education. However, worldwide, 262 million children were not attending school in 2017 and this is thought to have risen given the COVID-19 crisis. The UNSW Vision is to improve lives globally, through innovative research, transformative education and commitment to a just society.



**AWARD**

UNSW School of Education is benchmarked with the highest ranking of 5 by Excellence in Research for Australia (ERA).

## RESEARCH & ENTERPRISE

### UNSW Matraville Education Partnership

This ongoing initiative between the UNSW School of Education and Matraville Sports High School (MSHS), and the broader Little Bay Community of Schools, sees academics and students from UNSW work with Matraville students, teachers and the wider public to deliver a suite of educational opportunities.

### Centre for Ideas

Since 2018, the Centre for Ideas has presented a program of events specifically for general public audiences, online and in person, bringing the globe's leading thinkers to UNSW and also presenting UNSW to the world.

### UNSW Gonski Institute for Education

The Institute brings together scholars, policy-makers and practitioners to conduct research that will help improve academic and wellbeing outcomes particularly for disadvantaged students and those who live in rural and remote Australia.

## EDUCATION & STUDENT EXPERIENCE

### Shack Tutoring

Shack Tutoring is a long-running program run by Arc UNSW where current students volunteer to tutor high schoolers. In 2020 the program had over 160 participants and in 2021 around 150. UNSW students gain communication, leadership and organisational skills, and support high-schoolers to excel in their studies.

### SDG modules

UNSW ran Continuing Professional Development (CPD) modules to help academics become familiar with the SDGs and consider ways that sustainability thinking can be included in their own teaching, and launched an SDG Toolkit in 2020 to assist academics to incorporate sustainability thinking into their course content.

### UNSW students 'most employable'

UNSW was recognised for the employability of its students in the Top 100 Future Leaders Competition 2021 for the second year in a row, with a record-breaking 37 students named as most employable students in 2021. It's the highest number of students to be selected from one institution since the inception of the awards in 2014.

## EXTERNAL LEADERSHIP

### Imagined Futures

UNSW has undertaken a five-year partnership, The NSW Equity Consortium, with the University of Technology Sydney and Macquarie University to engage in outreach work seeking to build student

and school capacity for accessing tertiary education and improving learning outcomes. In collaboration with schools, the consortium has developed the Imagined Futures outreach program for underrepresented students in whole cohort year groups between Years 7–9.

### Leading and enhancing optometry education

Associate Professor Isabelle Jalbert from UNSW Medicine & Health was awarded a Citation for Outstanding Contributions to Student Learning, as part of the 2021 Australian Awards for University Teaching (AAUT). Her leadership has enhanced optometry education through development of evidence-based curriculum and teaching resources, and contributions to teacher training.

## OPERATIONS & GOVERNANCE

### Integrating 10 SDGs into a Psychology Course

This capstone course is a requirement for all Psychology undergraduate students and integrates 10 of the UN Sustainable Development Goals to showcase how psychological science can be used to help achieve these goals. An excellent exemplar for other educators to follow, the course directly advances a key commitment of UNSW's Environmental Sustainability Plan by offering a learning and teaching program that inspires students to contribute to a sustainable world.

**3271**

Courses

**\$2,748,095**

Research funding

**643**

Publications (2020)

### UNSW Library

UNSW Library is one of Australia's major research libraries, with extensive scholarly information resources. It serves a large population of academic staff and students on two campuses and affiliated research institutes. It also demonstrates its role at the centre of the University by hosting a range of exhibitions.

### Launching a new education strategy

The Pro Vice-Chancellor Education & Student Experience Portfolio Strategy, 2021–2025 was launched with an aim of being recognised globally for the distinctiveness of our education and for the quality of our student experience. In 2021, UNSW also held its inaugural Education Festival.

**220**

centrally allocated teaching spaces (CATS) at Kensington

**3000+**

student-led study spaces

**70,000+**

Moodle users



# Gender Equality

UNSW delivers numerous mentoring and other targeted supports to encourage women's applications, acceptance, entry, and participation at the University.



AWARD

SAGE Athena SWAN Bronze Award.



Astrophysicist, Professor Lisa Harvey-Smith

## Girls in Business Camp

In 2020, the Girls in Business camp was held virtually over two days, and delivered in partnership with six 'Women in Business Ambassadors' representing undergraduate females.

## UNSW Women in Maths and Science Champions Program

This career development program supports higher degree research students and early career scientists, with the Champions completing over 550 hours of outreach activities to encourage and inspire other girls and women in STEM, involving 26 students and 21 staff in 2020.

## New Wave

New Wave, offered twice annually by the UNSW Founders Program, is a two-week program which seeks to address the underrepresentation of women in entrepreneurship by empowering UNSW students, staff or alumni who identify as women to launch startups.

## EXTERNAL LEADERSHIP

### The Women in STEM Ambassador

Award-winning astrophysicist, Professor Lisa Harvey-Smith, is a Professor of Practice in Science Communication at UNSW. As the first Government-appointed Women in STEM Ambassador she has worked to drive gender equity in Science, Technology, Engineering and Mathematics education and careers on a national scale, by mobilising Australia's business leaders, educators and policymakers. In 2020, she was reappointed as the Australian Government's Women in STEM Ambassador.

## OPERATIONS & GOVERNANCE

### Strategy in Action

The UNSW Strategy in Action 2025 commits to ensuring equity in staff recruitment, development, retention and promotion, particularly ensuring no disadvantage on the basis of gender, cultural background, disability or Indigenous origin. This includes a



GOALS



**50%**  
of female professional staff at level 10 and above by 2025



**40%**  
of female academic staff at levels D & E by 2025

## RESEARCH & ENTERPRISE

### The Women's Wellbeing Academy (WWBA)

The WWBA brings together colleagues and collaborators from across the UNSW community to enhance and highlight our diverse multidisciplinary work in the area of women's wellbeing, from gendered violence and the persistent wage gap to gender health inequities.

The WWBA supports, promotes and amplifies unique projects funded by philanthropy and seed-funding in areas including medicine and health, arts and social sciences, and creating partnerships and alliances. In 2020, 12 grants were awarded to diverse projects from WWBA members.

### The Gendered Violence Research Network (GVRN)

The GVRN is a joint initiative of UNSW Arts, Design & Architecture and UNSW Law & Justice. The GVRN undertakes rigorous and reliable multi-disciplinary research which focuses on 'real-world' outcomes uniting UNSW's significant domestic and international research expertise to respond, prevent and end gendered violence in Australia and beyond.

In 2020, The Commonwealth Department of Social Services commissioned the GVRN to undertake a national audit and evaluation of the services funded by the Commonwealth Keeping Women Safe in Their Homes initiative, and the existing Safe at Home responses provided by states and territories, resulting in the Safe at Home Operational Framework published in 2021.

### Women in Research Network (WiRN)

UNSW's WiRN is a forum for research-active women to connect and collaborate to build an equitable and inclusive research culture at UNSW. WiRN provides support, information and advocacy for its higher degree research and staff members.

## EDUCATION & STUDENT EXPERIENCE

UNSW broadly, and the Faculties of Business, Engineering and Science, deliver numerous mentoring and other targeted supports to encourage women's applications, acceptance, entry, and participation at the University. These range from initiatives for female high school and undergraduate students, to networking events to help students connect with one another and hear from inspiring women from their fields of study.

03

Courses

\$34,000

Research funding

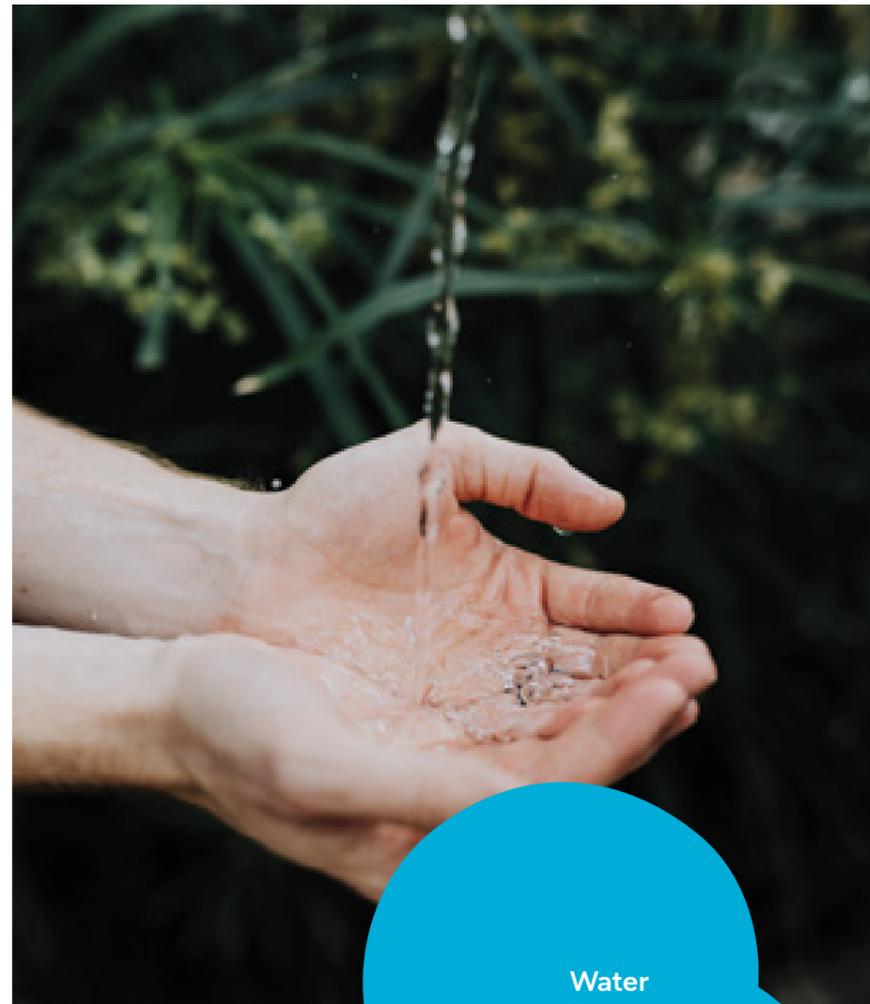
1105

Publications (2020)



# Clean Water and Sanitation

UNSW ranked 8th for SDG 6 in the 2021 Times Higher Education Impact Rankings. The University's high ranking in SDG 6 reflects UNSW's contributions to clean water and sanitation through campus operations, research and outreach, and active UNSW participation in several key initiatives.



Water efficiency on campus improved by **54%** between 2018 and 2021.

UNSW GWI: **13** specialist centres  
**400** researchers, professional staff & PHD students



**150**  
Courses

**\$1,678,513**  
Research funding

**1032**  
Publications (2020)

## RESEARCH & ENTERPRISE

### UNSW-GWI

The UNSW Global Water Institute (UNSW-GWI) is a world leader in water research, innovation and problem solving. With 400 researchers from seven faculties and 13 specialist centres across the University we have created the nation's most advanced water knowledge hub. In 2020, GWI hosted the NSW Water Directorate WSA Water Utility Bushfire Preparation Workshop. In 2021, Associate Professor Will Glamore, Dr Valentin Heimhuber and Jamie Ruprecht of the UNSW Water Research Laboratory (WRL) were invited to lead the hydrologic aspects of the Commonwealth Clean Energy Regulator's 'Blue Carbon Method'.

### 2030 water-use efficiency target

UNSW is working towards a 2030 target to substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity.

## EDUCATION & STUDENT EXPERIENCE

### Water resources

In 2020, UNSW ranked 5th globally and 1st in Australia for water resources in the Academic Ranking of World Universities subject ranking.

## Humanitarian Engineering

Under UNSW's Humanitarian Engineering program, students are able to go on global mobility experiences via the CHALLENG program, which connects UNSW Engineering students, academics and industry to exciting, real-world, project-based learning initiatives. Experiences include addressing the impact of climate change by collaborating with locals to create sustainable solutions for water scarcity in northern Uganda.

## EXTERNAL LEADERSHIP

### Australian Water Partnership (AWP)

UNSW-GWI is a key member of the AWP which was launched by the Australian Government Department of Foreign Affairs and Trade to share Australia's water expertise, primarily in the Indo-Pacific region.

### Founding member of Global Ocean Accounts Partnership

UNSW is a Founding Member of the Global Ocean Accounts Partnership, which was applauded at the 3rd Asia-Pacific Day of the Ocean hosted by the United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP) Secretariat in Bangkok in 2020.

### Coast Snap

Dr Mitch Harley of the Water Research Laboratory developed the Coast Snap citizen science coastal monitoring system.

## New Water Policy Report

To support the newly launched Global Acceleration Framework for SDG 6, in 2020 Dr Susanne Schmeidl from the School of Social Sciences worked with the Water Policy Group on the first annual water policy survey, to feed into the inaugural Water Policy Report and contribute to policy development.

## OPERATIONS & GOVERNANCE

### On-campus water audits

Water audits were completed on the 15 most water-intensive buildings, focusing on leak detection, assessment of WELS rating of existing fixtures, and cooling tower and plant room audits. Efficiency opportunities were identified and implemented. Six new sub-meters were installed on lawn irrigation systems to improve monitoring of bore water use and leak detection.



# Affordable and Clean Energy

Globally, about 1 billion people do not have access to electricity. Could the use of renewable energy sources like the wind and sun be the pathway to access affordable, reliable, sustainable and modern energy?



RECORDS

UNSW School of Photovoltaic & Renewable Energy (SPREE) is internationally recognised for its record-breaking research in solar power (photovoltaics) and renewable energy and has held power efficiency records for solar cells for 30 of the last 35 years.

## RESEARCH & ENTERPRISE

### Next generation battery materials

Associate Professor Neeraj Sharma from the School of Chemistry, started the Australian Battery Society in 2020 and also leads research into the development of next generation battery materials including sodium-ion and potassium-ion based batteries. In 2020, a collaboration with the University of Sydney received a \$510,000 Arc Discovery Grant to create new hybrid materials for next-gen lithium batteries.

### Solar expert awarded Japan Prize

Professor Martin Green, Director of the Australian Centre for Advanced Photovoltaics (ACAP) at UNSW, was recognised with the prestigious Japan Prize in 2021 for his world-leading research in developing high-efficiency silicon photovoltaic devices.

### 2021 Cherry Award winner

UNSW Engineering Professor Thorsten Trupke won the internationally coveted IEEE William Cherry Award, for outstanding contributions to photovoltaic science and technology.

## EDUCATION & STUDENT EXPERIENCE

### #1 degree

UNSW offers the premiere Solar and Renewable Energy Engineering Degree in Australia. School of Photovoltaic & Renewable Energy Engineering (SPREE) research projects were supported by \$67 million in external funding for 2019–20, with \$8.2 million in industry partnerships.

## EXTERNAL LEADERSHIP

### The UNSW Energy Institute

Coordinating energy activities across UNSW and collaborating with industry, government, community stakeholders and other research institutions, The UNSW Energy Institute draws on the vision and work of UNSW's energy researchers based in the Tyree Energy Technologies Building and the Faculty of Engineering, alongside faculties such as Arts and Social Sciences, Science, Built Environment and Law.

318

Courses

\$14,661,055

Research funding

3259

Publications (2020)



Professor Martin Green



Associate Professor Neeraj Sharma

## UNSW Digital Grid Futures Institute

The UNSW Digital Grid Futures Institute brings together UNSW's elite researchers and major partners across industry, government, research institutions and the community to advance the blueprint for future energy systems globally.

## OPERATIONS & GOVERNANCE

### Going greener

From constructing a new 60 kW solar photovoltaic (PV) system on the top level of the Botany Street car park, connected to six electric vehicle (EV) charging stations, to installing Internet of Things (IoT) sensors in the Wallace Wurth building laboratories, UNSW is actively working towards many green energy-saving initiatives.

## UNSW Environmental Sustainability Plan 2019–21

Our goals include achieving a NABERS Energy equivalent rating of 4\* or above for 10 existing buildings and increasing the average energy efficiency of existing buildings by 3% by 2022.



The PERC solar cell was first invented at UNSW in 1983 and today powers more than

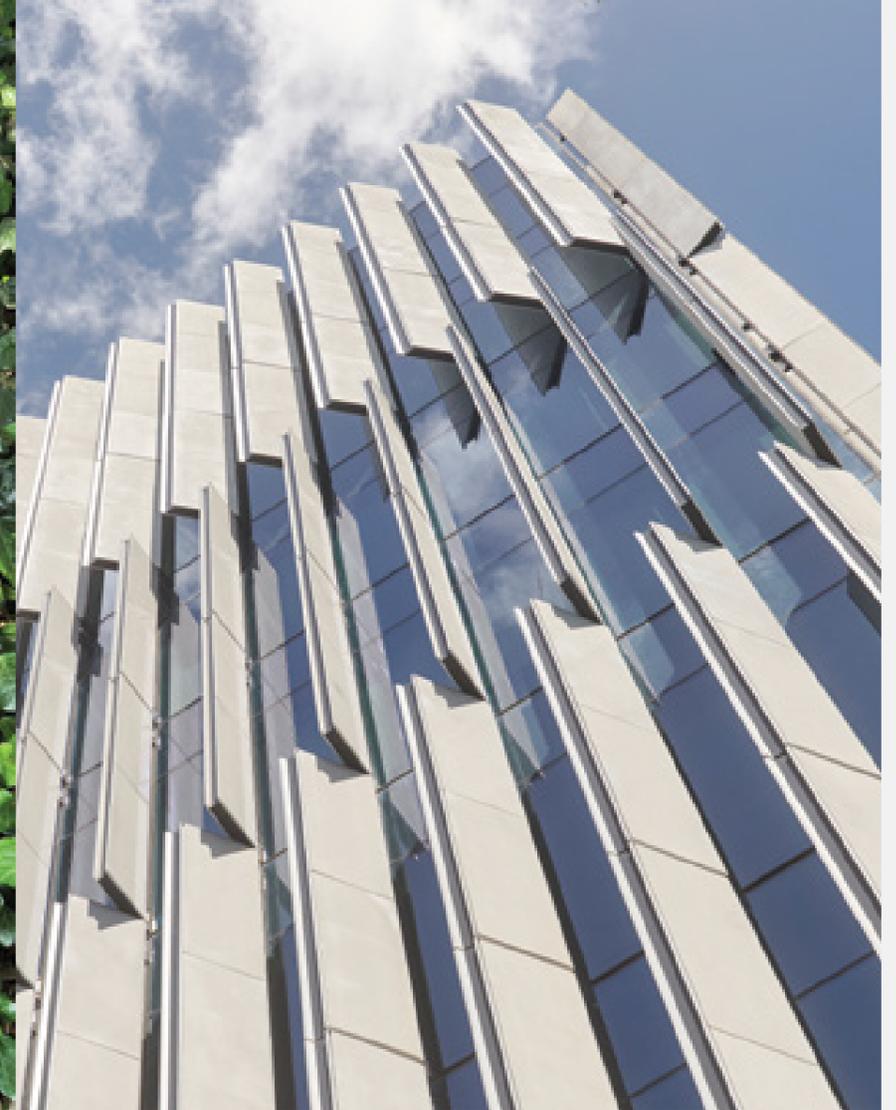
85%

of all new solar panel modules all over the world



# Decent Work and Economic Growth

When economic growth is not inclusive, people do not have decent work or productive employment and inequality increases.



855

Courses

\$1,503,915

Research funding

748

Publications (2020)

## RESEARCH & ENTERPRISE

### Combating Modern Slavery

A livestream Legal Hour event hosted by UNSW Law in 2020 featured a panel of business and human rights leaders on the topic of Modern Slavery, exploring whether Australia's legal framework is likely to be effective in combating modern slavery and how businesses should respond.

### Centre for Applied Economic Research (CAER)

Founded in 1976 CAER aims to be a champion of informed policy, engaging with government and industry to translate leading academic research into real-world impact.

### UNSW Ageing Futures Institute

Population ageing is one of humanity's most pressing challenges. The UNSW Ageing Futures Institute conducts research and translates it into policy and practical outcomes, to enable optimal ageing for individuals and society.

## EDUCATION & STUDENT EXPERIENCE

### The NSW Equity Consortium

UNSW is part of the NSW Equity Consortium, a five-year partnership (2020–2025) with the University of Technology Sydney and Macquarie University. The consortium engages in outreach work which seeks to build student and school capacity for accessing tertiary education and improving learning outcomes post-school.

## Co-NNECTIONS

Co-NNECTIONS is a unique professional development program designed to enhance the education and career outcomes of students from diverse backgrounds and walks of life at UNSW. This inclusive program gives students access to a range of great companies, professional networks and real-world experience designed to build confidence and skills as a professional and help shape a career and future beyond university.

### Creating leaders and entrepreneurs

UNSW has produced more startup founders and millionaires than any other Australian university. A report on Australia's Top 50 CEOs also found that UNSW has educated more corporate leaders than any other institution. UNSW graduates are more likely to gain full-time employment and earn a higher starting salary than students from most Australian universities.

## EXTERNAL LEADERSHIP

### Work Integrated Learning (WIL)

Industry and community partners are key to the success of WIL and UNSW engages with partners from all sectors. In 2020, UNSW WIL students developed projects for the Australian Museum to assist them in engaging young adults on climate change issues. They also worked with GML Heritage on a project entitled 'Priceless: the contribution of heritage items and areas to the economy'.

### Gender pay gap

At UNSW, a pay equity audit is undertaken at least once every two years that tracks the gender pay gap by Faculty/Division. This practice is regular and ongoing.

### UNSW Tax Clinic

Run by students, UNSW Tax Clinic is a free service for financially vulnerable individuals and small businesses who would otherwise not have access to tax advice and support.

## OPERATIONS & GOVERNANCE

### Gender pay equity

UNSW has prioritised gender pay equity analysis and our remuneration policy commits UNSW to several key gender equity pay objectives, including for the proportion of all monies paid to females to equal the proportion of all positions filled by females, by 2025.

### Modern Slavery

Modern Slavery is estimated to affect over 40 million people worldwide. In accordance with the Federal Government's Modern Slavery Act 2018, UNSW produces an annual 'Modern Slavery Statement' and is committed to ensuring a strong response on modern slavery, by ensuring that:

- operations and supply chains do not cause, involve or contribute to modern slavery; and
- our suppliers, collaborators and others with whom UNSW does business, respect and share our commitment with regard to minimising the risk of modern slavery.



# Industry, Innovation and Infrastructure

UNSW has a long-held tradition of sustained innovation, focusing on areas critical to our future – from tackling the effects of climate change, forging new systems to support society’s most vulnerable, to developing lifesaving medical treatments and breakthrough technologies. Our scholars, researchers and entrepreneurs are committed to expanding, sharing and applying knowledge that will ignite positive change.

## RESEARCH & ENTERPRISE

### e-waste microfactorie

Professor Veena Sahajwalla runs the world’s first e-waste microfactorie at UNSW’s Centre for Sustainable Materials Research and Technology (SMaRT Centre), where she is Director. She began a second microfactorie to convert waste materials like glass, plastic and textiles that Australia previously exported or sent to landfill, into industrial-grade ceramics. In late 2021 she was awarded the 2022 NSW Australian of the Year.

### Design Next

Design Next is UNSW’s centre for integrated design, bringing our engineering, architecture, business, and art and design capabilities together in a world-class, cross-faculty design initiative and learning environment.

### Centre for Infrastructure Engineering and Safety

The Centre for Infrastructure Engineering and Safety facilitates advanced research in all aspects of civil engineering infrastructure, including building structures, bridges, tunnels, roads, railways, pavements and materials. It aims to be the nexus of the various scientific disciplines in the broad fields of engineering infrastructure – its design, evaluation, construction, performance, retrofit and reuse.

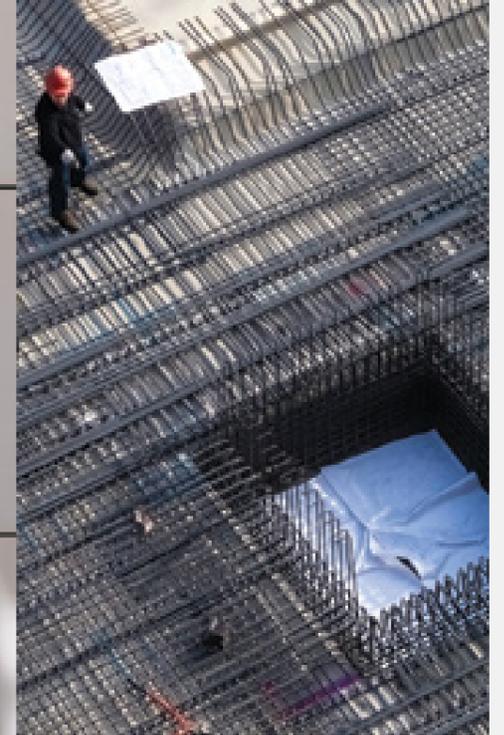
## EDUCATION & STUDENT EXPERIENCE

### Internships, volunteering and work placements

UNSW students have access to a wide range of paid and voluntary internships, volunteering opportunities and work integrated learning placements across a broad range of industries – from creative to scientific or corporate.

### From curiosity to startup

UNSW Founders aims to embed entrepreneurship on campus. Its programs and services support UNSW students, staff and alumni to build entrepreneurship skills, found and grow real companies.



  
**\$1B**  
infrastructure investment since 2015

## EXTERNAL LEADERSHIP

### Materials & Manufacturing Futures Institute

The UNSW Materials & Manufacturing Futures Institute is an interdisciplinary research hub studying, building and transforming the future of materials innovation and advanced manufacturing, and delivering real-world social benefits and tangible solutions to emerging global problems. It connects leading academics and industry players, and undertook 12 interdisciplinary seed grants in 2020.

### Sir William Tyree Foundation Institute of Health Engineering

Tyree IHealthE harnesses the capabilities of UNSW Engineering and UNSW Medicine & Health. It has established the Sydney Consortium for Improving Medicine with Innovation and Technology (SCIMIT) to bring together clinicians, technologists and industry, identify unmet healthcare needs and develop

effective new medical technologies. During 2020 Associate Professor Sze-Yuan Ooi and a team of infectious disease and respiratory specialists created the TCC-COVID app.

### UNSW UNOVA

UNSW UNOVA brings research, design and digital solutions together in areas from crisis management to digital health and sustainability. Founded by Dr Felix Tan, a senior lecturer at the UNSW Business School, in 2020 a team of UNOVA collaborators were awarded funding from the Australia-ASEAN Council of the Department of Foreign Affairs and Trade to deliver workshops focused on the role of women in digital entrepreneurship. UNOVA also runs external courses via Skills@UNOVA to build digital economy skills.

### UNSW’s Institute for Global Development (IGD)

The IGD consolidates UNSW’s activities aligned with SDG 9, Industry, Innovation and Infrastructure. Conference sessions, articles and interviews are made available and give a picture of the University’s activities and progress.

## OPERATIONS & GOVERNANCE

### Randwick Health and Innovation Precinct

In 2021 a public exhibition revealed plans for the Randwick Health and Innovation Precinct. More than just a new physical premises for healthcare services, the vision is for the RHIP to be a transformative and collaborative place of excellence, solving global challenges to enhance and nurture lifelong health. There are three strategic priorities: clinical and academic excellence; innovation and collaboration; and global and local impact.



# Reduced Inequalities

The UNSW Strategy in Action 2025 commits to shape and progress a just society by mobilising our community's expertise to lead debate, sustainability, address global challenges and foster equity, diversity and inclusion.



844 courses

\$1,449,570 Research funding

1081 Publications (2020)

## RESEARCH & ENTERPRISE

### UNSW Disability Innovation Institute

The Institute is central to the University's profile as a global leader in disability-inclusive research and social justice. It facilitates interdisciplinary disability research and educational pedagogy, collaborating with others to design accessible and inclusive working, living and learning environments, generate innovative technologies and create inclusive and equitable practice and policy.

### Impact sourcing with UNOVA

UNSW UNOVA is a transdisciplinary research and development lab that brings industry partners, government and Australia's global university together in the spirit of collaborative development and to reduce inequalities. This includes a project exploring the role of IT in impact sourcing, in response to the disability inclusion gap.

### The UNSW Institute for Global Development (IGD)

Underpinned by a commitment to enhancing social justice and inclusion through empowering individuals and their communities, the IGD draws on resources and expertise from across all UNSW Faculties to work towards this commitment.

## EDUCATION & STUDENT EXPERIENCE

### Gateway Admission Pathway and Program

The UNSW Gateway Admission Pathway and Program (GAPP) aims to make university entry more equitable. It offers underrepresented students an alternative pathway into university, recognising

that an ATAR is not the only indicator of potential success and preparedness for university.

The UNSW GAPP runs over three years from Year 10 to Year 12 and aims to prepare students from Gateway partner schools for university.

### Equitable Learning Service

A support service for thousands of UNSW students living with a disability, medical condition, learning disability, or dealing with personal circumstances that affect study.

### A human rainbow for LGBTIQ+

In February 2020 over 1000 UNSW students and staff participated in a human rainbow to stand in solidarity with the LGBTIQ+ community, as part of Mardi Gras celebrations.

### Be A Better Human

Arc and UNSW have partnered in an initiative called 'Be A Better Human' in order to help strengthen a respectful and inclusive culture. Key issues such as racism, discrimination, misconduct, bullying and harassment are being addressed.

## EXTERNAL LEADERSHIP

### A case for constitutional reform

In 2020, the UNSW Indigenous Law Centre and Nura Gili conducted a community information campaign on the *Uluru Statement from the Heart*, collaborating with SBS to translate it into over 60 languages, delivering 20 keynote speeches and hosting NAIDOC Week events. The Balnaves Foundation committed \$1.25 million to UNSW's Indigenous Law Centre to establish a term Chair in Constitutional Law. UNSW's Pro Vice-Chancellor, Indigenous, Professor Megan Davis, was appointed.

## Recognising Indigenous Intellectual Property

Professor Daniel Robinson has worked with Indigenous communities in the Pacific and Australia on Access and Benefit-Sharing (ABS), a legally recognised system that returns benefits of commercialisation back to communities.

## OPERATIONS & GOVERNANCE

### Creating an inclusive campus

The Division of Equity Diversity & Inclusion (EDI) was established mid 2017, and aims to create an inclusive campus for students and staff to reach their full potential, regardless of their background and to promote the value and benefits of diversity for students, staff and visitors. The EDI board is chaired by UNSW's Deputy-Vice Chancellor Professor Eileen Baldry, and meets quarterly to prioritise initiatives that can improve equity and diversity for students and staff, and review progress towards plans and targets set by the University, Faculties and Divisions.

### Ally Network

The Ally@UNSW Network aims to ensure UNSW is a safe and welcoming place for all LGBTIQ+ students and staff.

### Disability Inclusion Action Plan

The DIAP focuses on making UNSW's built infrastructure and digital systems accessible and inclusive for students and staff living with disability.



AWARDS

Gold Employer status in Australian Workplace Equality Index 2020 and 2021.



GOALS

THE UNSW STRATEGY IN ACTION 2025 COMMITS TO:



2%

of general staff to include Aboriginal people and Torres Strait Islander people



12%

of general and academic staff to be people with a disability



\$1.4M

in equity scholarships awarded to students from low-SES backgrounds



# Sustainable Cities and Communities

Environmental sustainability is a key element of our 2025 Strategy. Our students and staff are actively engaged in environmental and social issues. We recognise that we are uniquely positioned to contribute to solving global environmental challenges through teaching, research, thought leadership and demonstrating leading practices on our campuses.

## RESEARCH & ENTERPRISE

### City Futures Research Centre

Since 2005, the City Futures Research Centre has developed into a national leader in scholarly applied public interest research on our cities. Collaborating within and beyond UNSW, their applied focus involves partnerships with government agencies, industry stakeholders and community groups, to develop evidence-based ideas for tackling the complex challenges of urban change and growth.

### Improving classroom air quality

With rising interest in air pollution and quality, in 2021 a team from the UNSW Sydney's School of Built Environment found concentrations of carbon dioxide (CO<sub>2</sub>) in classrooms peaked significantly higher than the 850-ppm threshold prescribed by the National Construction Code due to a lack of proper ventilation. Improving ventilation could improve health and learning outcomes.

### Curating Cities: A Database of Eco Public Art

Curating Cities is a five-year research project that examines how the arts can generate environmentally beneficial behavioural change and influence the development of green infrastructure in urban environments. The project provides a rubric for public art in relation to the fundamental domains of sustainable planning: energy, water, food and waste.

### UNSW Art & Music

UNSW has a long and distinguished history of art exhibitions and concerts by various music groups including the UNSW Choir, the Australia Ensemble, the UNSW Orchestra, and the Burgundian

Consort. The University's extensive art collection is managed by a specialist curator and work is exhibited in public and other spaces, as well as offices and meeting rooms. The University Library's sizeable special collections provide fascinating materials for regular exhibitions open to staff, students and the community.

### UNSW Rapid Urbanisation and Population Health Network (RUPH)

Associate Professor Xiaohu Feng leads the RUPH, a partnership between the UNSW Institute for Global Development, UNSW Grand Challenges and UNSW Medicine & Health exploring urban health and environmental issues and supporting the building of transdisciplinary, cross-faculty research capacity among UNSW academics conducting research in Australia, Asia and the Western Pacific regions.

## EDUCATION & STUDENT EXPERIENCE

### Cost of living guide

UNSW provides assistance with determining approximate cost of living, for domestic and international students.

### Reducing plastic use with bubblers

23 new water bubblers were installed in 2020 to reduce single-use plastics.

## EXTERNAL LEADERSHIP

### Race to Zero

In 2021, UNSW recommitted to Race to Zero, which aims to combat climate

716

Courses

\$6,681,774

Research funding

1493

Publications (2020)

change and build a sustainable future. UNSW is now a signatory to the Race to Zero for Universities and Colleges and Race to Zero NSW.

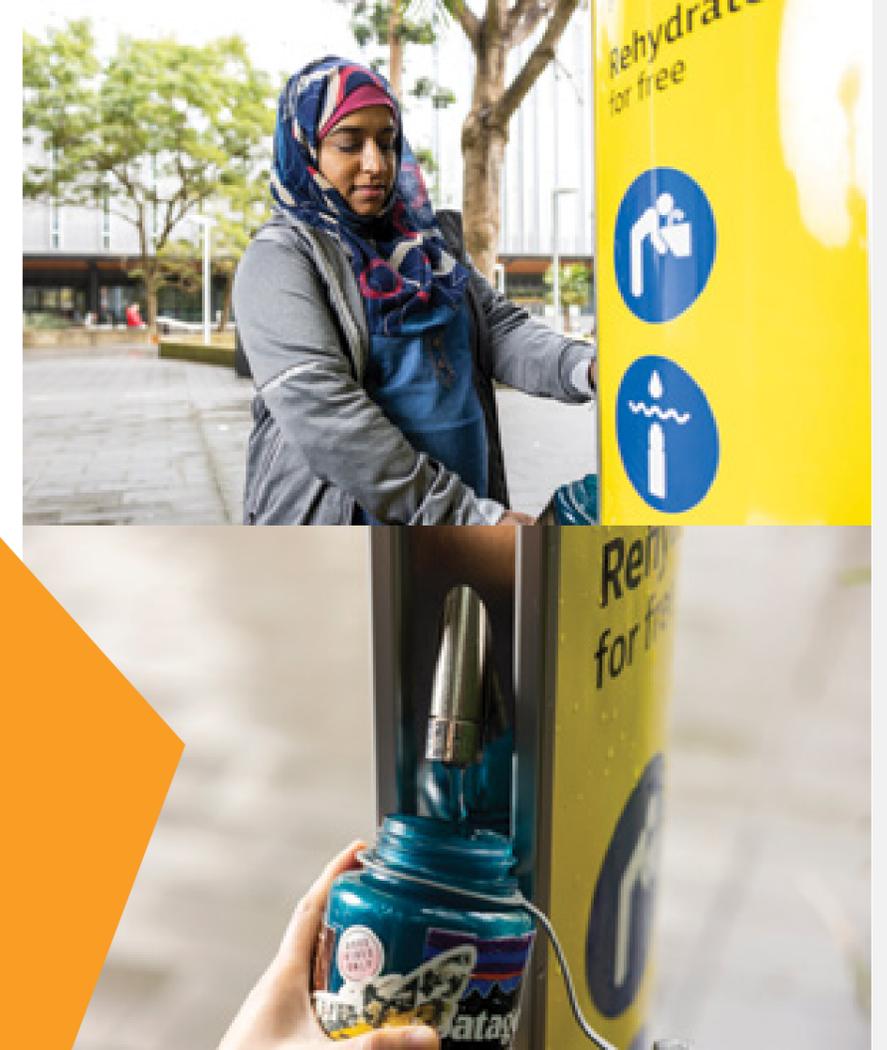
### Disaster resilience & urbanisation

Led by Professor David Sanderson and Dr Paul Barnes, the IGD supports UNSW's world-leading work on disaster resilience. How do we ensure future cities are more sustainable, resilient and inclusive?

## OPERATIONS & GOVERNANCE

### Our Environmental Sustainability Plan

The UNSW Environmental Sustainability Plan 2019-21 outlines our vision to be a catalyst for an environmentally sustainable future through excellence in research, teaching and campus operations. In 2020 we released an update on World Environment Day on our progress towards achieving many of the goals.



GOALS

Design and build new buildings to minimum 5\* Green Star Design & As Built or equivalent and 5.5\* NABERS Energy equivalent by 2022.



Commitment to reducing air travel emissions by

1% by 2022



Maintain tree canopy cover of 28% (102,593m<sup>2</sup>) at Kensington campus



Increase the percentage of staff and students commuting by active travel modes to 20% by 2022



# Responsible Consumption and Production

UNSW demonstrates its commitment to SDG 12 through: research and thought leadership that addresses responsible consumption and production; courses that focus on sustainability and PRME principles, including life cycle engineering principles and practices; and implementing sustainable procurement practices and systems to reduce, segregate and recycle our own waste.



Professor Veena Sahajwalla is named 2022 NSW Australian of the Year

## RESEARCH & ENTERPRISE

### UNSW Sustainable Manufacturing and Life Cycle Engineering Research Group

The Sustainable Manufacturing and Life Cycle Engineering Research Group at UNSW was established in 1998 within the School of Mechanical and Manufacturing Engineering. The Research Group has partnered with Arc and Baxter Australia to investigate energy and water flow in manufacturing environments in order to identify the hot spots for reduction or reclamation of energy and water usage.

### Reducing embodied carbon emissions

UNSW Built Environment have embarked upon research into building lifecycle assessment including emissions known as 'embodied carbon', caused by materials, construction, maintenance and demolition. In a typical building, embodied carbon can be responsible for more than half of the total greenhouse gas emissions the building will release across its lifecycle.



GOALS



90%

of construction and demolition waste recycled

504

Courses

\$6,557,135

Research funding

792

Publications (2020)

## EDUCATION & STUDENT EXPERIENCE

### Increasing environmental sustainability on and beyond campus

Environmental sustainability is a key element of our 2025 Strategy. Our students and staff are actively engaged in environmental and social issues. We recognise that we are uniquely positioned to contribute to solving global environmental challenges through teaching, research, thought leadership and demonstrating leading practices on our campuses.

### A transdisciplinary approach to environmental humanities

Environmental humanities incorporates geography, critical social theory, cultural studies, environmental communication, history, philosophy, science and technology studies (STS), anthropology, legal geography and urban studies, to examine and understand the interplay of sociocultural factors that influence today's environmental and societal complexities and critically and creatively question contemporary human ecological relations.

## EXTERNAL LEADERSHIP

### The Grand Challenges

UNSW aims to confront the greatest issues facing humanity by leading research, policy and public conversations that can change the world through its

Grand Challenges program. The program puts UNSW's research squarely into the real world, with each challenge engaging scholars, policymakers and the public through a series of critical discussions, debates, events and activities.

### NSW Australian of the Year

In 2021, UNSW Professor and Laureate Fellow Veena Sahajwalla was named the 2022 NSW Australian of the Year. Professor Sahajwalla has pioneered turning waste into a new generation of green materials and products.

## OPERATIONS & GOVERNANCE

### Furniture reuse program

A new furniture reuse program was rolled out in 2020 and, as a result, in 2021, 487 items of furniture were provided for reuse. A used furniture sale also provided 126 furniture items to students and staff at a nominal price, avoiding 2.4 tonnes of furniture going to landfill.

### Reducing construction and demolition waste

UNSW's Construction and Demolition Waste Management Guideline supports our goal to recycle 90% of any construction and demolition waste.

### Going plastic free

Plastic Free Dining was launched in early 2021 to phase out single-use plastics from dining services at UNSW campuses, and an award system was developed for UNSW retailers who have gone plastic free. Three-bin recycling systems for outdoor areas were also introduced.



# Climate Action

UNSW demonstrates its commitment to SDG 13 through research that builds knowledge and capacity to meet climate change and support the integration of climate change measures into policies and planning. We offer courses and education programs on climate change risks, opportunities and impacts.

We have a commitment to achieve net zero greenhouse gas emissions across our operations and value chain and a strong involvement in co-operative planning for climate disasters and informing and supporting government action on climate change.



## RESEARCH & ENTERPRISE

### UNSW Climate Change Research Centre (CCRC)

UNSW CCRC is a multi-disciplinary research centre and one of the largest university research facilities of its kind in Australia. Administered within the School of Biological, Earth and Environmental Sciences (BEES) in the Faculty of Science, CCRC houses research expertise in atmospheric, oceanic and terrestrial processes, alongside courses, education programs and campaigns on climate change risks, impacts, mitigation, adaptation, impact reduction and early warning.

### Sustainable scientific research

The Faculty of Science formally adopted the UNSW Science Sustainable Research and Laboratories Guidelines in April 2021.

## EDUCATION & STUDENT EXPERIENCE

### Renewable engineering careers

UNSW's Bachelor of Engineering (Renewable Energy) degree explores the best ways to make use of renewable energy technologies, including solar thermal systems, photovoltaics, wind and biomass.

### Scientia Professor Rose Amal

Thanks to a \$2.38 million grant from the Australian Business Council, Professor Rose Amal is working to convert CO<sub>2</sub> waste into fuel and feedstock. The ultimate aim is to reduce CO<sub>2</sub>'s harmful atmospheric effects. She was awarded the 2021 Chemeca Medal. It's just one of many UNSW research projects in fine particle technology, photocatalysis and functional nanomaterials.

## EXTERNAL LEADERSHIP

### SWAQ nomination for Eureka Prize

The Schools Weather and Air Quality (SWAQ) team from the UNSW Climate Change Research Centre developed the first school-based comprehensive atmospheric monitoring network in Australia and have been nominated for the Department of Industry, Science, Energy and Resources Eureka Prize for Innovation in Citizen Science.

### Talking about climate change

In January 2020 UNSW hosted a public seminar 'We still need to talk about climate change' featuring Tim Flannery, Adriana Vergés, Rebecca Huntley and Emma Johnston.

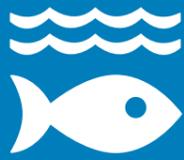
## OPERATIONS & GOVERNANCE

### 100% renewable electricity

2020 was the first full year that UNSW campus achieved net zero emissions from campus energy use, a commitment that was maintained in 2021. The Sunraysia Solar Farm supplies UNSW's energy through an innovative solar Power Purchase Agreement (PPA) and UNSW purchases additional carbon units to offset emissions from natural gas and other fuels.

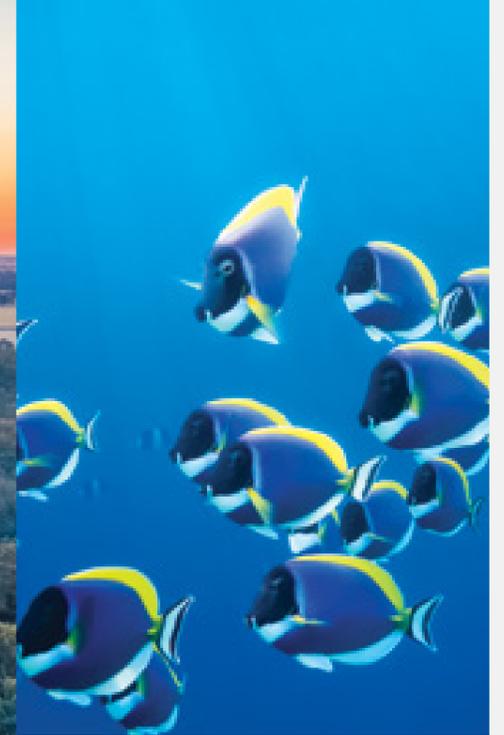
### Sustainable procurement

UNSW has launched a Sustainable Procurement Vision 2018–2025, aimed at delivering outstanding environmental, social and economic benefits to UNSW students, staff and community through understanding and strengthening UNSW supply chains.



# Life Below Water

Under SDG 14, UNSW aims to conserve and sustainably use the oceans, seas and marine resources for sustainable development.



UNSW offers a Master of Engineering Science in Water, Wastewater and Waste Engineering.

**AWARD**

UNSW is ranked 8th in the world in Water Resources Engineering by the Shanghai Rankings.

## RESEARCH & ENTERPRISE

### The Water Research Laboratory (WRL)

Based on Sydney's Northern Beaches and part of the School of Civil and Environmental Engineering at UNSW, WRL is a world-leading fundamental and applied research organisation tackling the most challenging water engineering problems faced by the world today.

### UNSW Centre for Marine Science and Innovation (CMSI)

A multidisciplinary mix of ecological and biological sciences, physical and biological oceanography, environmental impact assessment, as well as coastal geomorphology and engineering, the CMSI focuses on researching fundamental knowledge on the functions, processes, interactions and changes in the marine environment and developing innovative solutions for management, conservation and economic developments.

## EDUCATION & STUDENT EXPERIENCE

### Manly Dam project

The Manly Dam project saw eight contemporary artists teamed with engineers from the Water Research Laboratory (WRL) to create new work and a public exhibition inspired by place, history, water management and engineering.

### The Murray–Darling Basin

The UNSW Centre for Ecosystem Science (CES) is working with Indigenous communities, the Traditional Custodians of Gayini, on water management and wetland management and conservation in the Murray–Darling Basin.

## EXTERNAL LEADERSHIP

### Commercial projects team

The UNSW WRL has been providing advice to industry and local government on water matters through a dedicated commercial projects team for over 50 years.

### Sydney Institute for Marine Science (SIMS)

SIMS is a collaborative venture between four Sydney universities, including UNSW, and numerous state and federal government departments. SIMS provides a wealth of infrastructure for the Centre for Marine Bio-Innovation's (CMB) marine activities, enabling researchers to use molecular tools in more realistic contexts in the marine environment.

### Global Ocean Accounts Partnership

UNSW has partnered with the UK government to transform ocean accounting. Initial funding for the Global

Ocean Accounts Partnership (GOAP) is from the UK's £500 million Blue Planet Fund, and will enable more countries to measure and manage their ocean wealth to deliver a more sustainable future.

## OPERATIONS & GOVERNANCE

### UNSW Supplier Charter

The UNSW Supplier Charter commits to ensuring that products harvested from terrestrial and aquatic ecosystems are ethically, sustainably and/or locally sourced.

### Managing stormwater

UNSW's Stormwater Strategy Master Plan employs various management practices and guidelines to ensure that the water discharge quality off the Kensington campus is high and any pollutants are captured before water is released to the environment.

**264**  
Courses

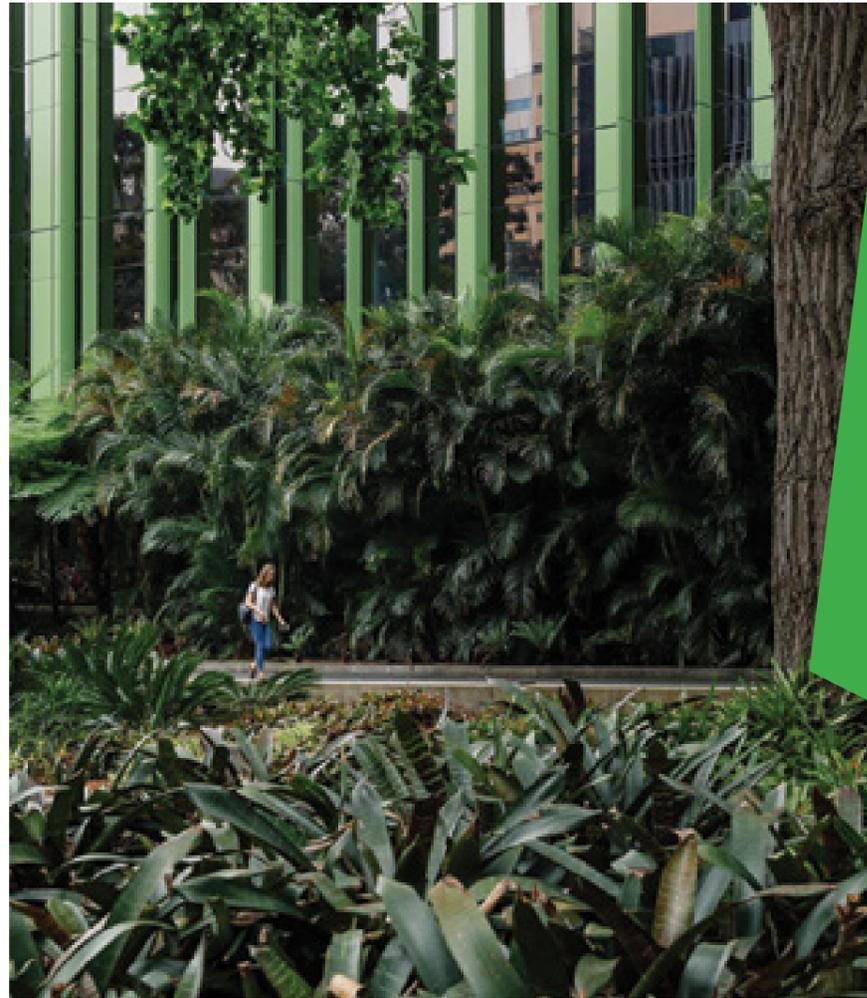
**\$2,911,760**  
Research funding

**677**  
Publications (2020)



# Life on Land

Every year 13 million hectares of forest is lost. Australia is ranked in the top 10 of the world's major deforestation fronts and the only nation in the developed world to make the World Wide Fund for Nature's global list of deforestation hotspots.



## RESEARCH & ENTERPRISE

### UNSW Centre for Ecosystem Science

UNSW Centre for Ecosystem Science produces high-level research and offers a diverse range of scientific expertise in terrestrial ecology, wetlands, marine ecosystems, geographic information systems, remote sensing and the use of conservation tools. The Centre is committed to world-leading science relevant to key issues in conservation and management and provides support to governments.

### UNSW Evolution & Ecology Research Centre

Established in 2007, the Evolution & Ecology Research Centre draws together the diverse strengths of over 50 academic staff and independent research fellows, and over 80 postgraduate students from the School of Biological, Earth and Environmental Sciences, the School of Biotechnology and Biomolecular Sciences and the School of Mathematics and Statistics at UNSW Sydney.



133

Courses

\$5,072,510

Research funding

854

Publications (2020)

## EDUCATION & STUDENT EXPERIENCE

### Urban Growers

UNSW Urban Growers is a staff and student group focused on creating and maintaining new green food-growing spaces across the UNSW campuses for hands-on practical classes in food security, law, engineering, design and medicine, while promoting opportunities for food-related research in these areas.

### Leading Biological, Earth and Environmental Sciences (BEES)

Each year 3500 students study BEES courses and more than 160 postgraduate students receive research training. Environmental Sciences is ranked 19th in the QS World University Rankings.

## EXTERNAL LEADERSHIP

### Regeneration after the bushfires

UNSW initiated the Environment Recovery Project: Australian Bushfires after more than 46,000,000 acres were burnt across South Australia, New South Wales, Victoria and Queensland in 2019/2020. This project recognises that understanding how the environment recovers from this unprecedented fire season is an important scientific goal, and seeks to also engage citizen scientists in doing so.

### UNSW represented on NSW Government Biodiversity Conservation Advisory Panel

Three out of six panel members on the NSW Government Biodiversity Conservation Advisory Panel are representatives of UNSW, including senior Professors Moles, Kingsford and Metternicht, who chairs the Panel.

## OPERATIONS & GOVERNANCE

### Alumni Park is brought to life with native planting

Alumni Park was completed on the Kensington campus in 2021, providing new recreation facilities for students and staff that embrace the history of the land and its people. Approximately 2250 native plants were carefully chosen to complement the site, including the critically endangered Eastern Suburbs Banksia Scrub (ESBS). The hardwood timber 'Darwin Stringy Bark' was sustainably sourced and harvested. Consultation with the La Perouse Indigenous Community, the traditional owners of the land on which Alumni Park is situated, was a major aspect of the Alumni Park project.

### The only arid zone research station in Australia

UNSW's Fowlers Gap Research Station is the only arid zone research station in Australia and one of very few in the world. The location, infrastructure and diverse landscape and biodiversity provide scientists with many opportunities for research, education and outreach across several faculties, including projects for biodiversity conservation.



# Peace, Justice and Strong Institutions

Our courses, research and governance work towards promoting peaceful and inclusive societies for sustainable development, providing access to justice for all and building effective, accountable and inclusive institutions at all levels.



553  
Courses

\$8,533,420  
Research funding

1212  
Publications (2020)

## RESEARCH & ENTERPRISE

### The Comparative Youth Penalty Project

This major multi-year and multi-jurisdictional research project from members of the Centre for Crime, Law and Justice has made an important contribution to Australian and international youth justice research, by examining more than 40 years of youth justice law, policy and practice in Australia and the United Kingdom.

### Practical Justice Initiative

The Practical Justice Initiative is focused on tackling some of the most difficult social issues that face our society and the globe today.

## EDUCATION & STUDENT EXPERIENCE

### Promoting social justice

UNSW Law & Justice is committed to social justice and human rights, and to making a difference in this world. It established Kingsford Legal Centre, the Australian Human Rights Institute and the Kaldor Centre for International Refugee Law, among others. It is ranked 14th globally for law in the 2022 QS World University Rankings and 29th in the Employer Reputation category by subject. UNSW received an ERA rating of 5 for law, the highest possible score.

### Social justice is at the heart of social work

UNSW School of Social Sciences offers the only accredited social work program in Australia that integrates honours into an undergraduate degree, through a dynamic, evidence-informed and collaborative program designed to make a positive impact at all levels of society.

## EXTERNAL LEADERSHIP

### Kingsford Legal Centre (KLC)

KLC is a long-running community legal centre providing free legal advice, casework and legal education to the local community. Part of the UNSW Faculty of Law & Justice it provides a number of legal education programs to its students. Its lawyers, volunteers and students help over 1500 local community members each year and are committed to social justice, and access to and reform of the legal system.

### On Guard during COVID-19

The UNSW Australian Human Rights Institute (AHRI) is curating a new weekly newsletter, On Guard, that monitors the human rights dimensions of COVID-19 and takes its inspiration from the idea that human rights are both a shield and a sword to protect the dignity of all people, which requires more vigilance than ever in a time of crisis. Content is drawn from an online portal created by AHRI to contribute to the protection of human rights.

## OPERATIONS & GOVERNANCE

### The Drug Policy Modelling Program (DPMP)

The DPMP aims to improve alcohol and drug policy with evidence-based research and a transdisciplinary approach. The Australian Government Department of Health engaged the DPMP at UNSW to develop a National Treatment Framework (NTF).

### UNSW Council and Student Representative Council

The University's peak governing body, the Council, includes elected representation from undergraduate and postgraduate students, professional and academic staff. The Student Representative Council runs annual elections and has, in addition to its senior leadership, representatives for all major student cohorts on campus.



# Partnerships for the Goals

Creating global partnerships for sustainable development.



1910

Courses

\$1,839,110

Research funding

20,918

Publications (2020)

## RESEARCH & ENTERPRISE

### The Institute for Global Development (IGD)

The IGD has established numerous education and research partnerships since 2016, creating new student and institutional research opportunities working with partners and communities in developing countries. The IGD co-creates knowledge and translates research findings into changes that matter: generating sustainable and equitable futures for people around the world, and working towards achieving the SDGs.



UNSW  
Institute for  
Global Development

### UNSW Data Science Hub (uDASH)

uDASH, a major strategic initiative of UNSW Science, has access to Australia's fastest array of supercomputers and state of the art data visualisation facilities. As a collaboration between multiple UNSW Schools, industry and government, uDASH cultivates and promotes foundational and applied research in data science with a focus on environmental, physical and health sciences.

## EDUCATION & STUDENT EXPERIENCE

### Sustainable partnerships

UNSW is a signatory and member of Talloires Network, Australasian Campuses Towards Sustainability (ACTS), Sustainable Development Solutions Network (SDSN), and The Association for the Advancement of Sustainability in Higher Education (ASHEE).

### PLuS Alliance combines strengths

The PLuS Alliance is a partnership between Arizona State University, King's College London and UNSW, which seeks to solve global challenges and increase access to world-class higher education in high-need areas and develop sustainable solutions to society's global challenges.

## EXTERNAL LEADERSHIP

### Transforming Women's Leadership Pathways

In 2021 the PLuS Alliance published the report and action plans developed at the Transforming Women's Leadership Pathways initiative (TWLP) in 2020 to address gender equity in leadership. It was launched by former Prime Minister Julia Gillard and supported by over 100 experts from around the world.

### Network advocates social responsibility in global universities

UNSW is a foundation member of the University Social Responsibility Network (USRN), which advocates for wider social responsibility in universities across the globe. The network has 19 member institutions dedicated to working together to address global economic, social, cultural and environmental challenges.

### International Universities Climate Alliance (IUCA)

In 2020 UNSW spearheaded the creation of the IUCA, a group that now has close to 600 members and with the goal of ensuring governments, the public, media and industry have better access to research-based facts on climate change science, impacts, adaptation and mitigation from the world's leading climate research universities.

## OPERATIONS & GOVERNANCE

### Sustainability Matters

UNSW's Sustainability Matters website brings together UNSW's SDG activities. Separate pages for each SDG profile UNSW's progress and achievements in relation to operations, outreach and leadership activities (including educational videos, public talks and events, and learning resources), expertise, degree and study opportunities, and related publications and reports. Research tagged with the relevant SDG is uploaded to the website, providing an increasingly comprehensive and growing repository of SDG activities across the University.



**UNSW**  
SYDNEY

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