

ADELAIDE BUSINESS SCHOOL

Sharing Information on Progress Report 2016 - 2019



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The Principles for Responsible Management Education
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Renewal of Commitment Letter to the PRME Principles

In 2016, the Adelaide Business School (ABS) became an Advanced Signatory of the *Principles for Responsible Management Education* (PRME). We are proud to be part of this United Nations-supported initiative that provides a platform to raise the profile of sustainability in Business Schools around the world, and it provides a framework for equipping today's business students with the understanding and ability to deliver change tomorrow.

This Sharing Information on Progress (SIP) Report highlights some of the key academic, research and engagement activities – especially relating to the PRME principles - implemented by ABS, and supported by the University of Adelaide (UoA). ABS faculty and professional staff members have collaboratively prepared this SIP Report, and I would like to acknowledge all of the key data provided by various University sources and reports. In particular, this Report includes two critically important attachments: *Attachment 1 - University Sustainability Plan 2017* and *Attachment 2 - Australian eChallenge Annual Report 2018*. These outline our commitment and impact in areas of responsible management education.

As an institution of higher education involved in the development of current and future managers, we are committed to progressing the implementation of the PRME principles. Over the next five years, as we work to reposition the ABS as “An Entrepreneurial Business School of Australia”, our focus will be on:

- Further embedding ethics, sustainability and responsibility (ESR) strategy in our research, learning and teaching, and engagement activities
- Increasing our student’s understanding and knowledge of their individual roles as impactful and responsible global citizens, and
- Establishing, extending and maintaining corporate engagement connections and relationships with business, industry and community partners.

I wish to thank all faculty and staff for helping to capture the full story of the ABS and its continuous commitment to upholding the United Nation PRME principles.



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PRINCIPLES 1 and 2: Purpose and Values

Principle 1 – Purpose: Statement of the ABS' vision, including its interpretation of responsible management education.

Principle 2 – Values: Reference to institutional values and principles, ethical guidelines, mission statements, codes of conduct, oaths and pledges.

The University of Adelaide: Profile

Founded in 1874, the UoA is Australia's third oldest university and a member of the prestigious Group of Eight (Go8) universities, a coalition of Australia's prestigious research-intensive universities. It is a public institution delivering high quality learning, teaching and research experiences. By every measure, the UoA stands tall among the world's leading institutions for learning and innovation:

- It is ranked consistently high (in the top 1% of worldwide universities) by the most respected international assessment bodies: QS World University Rankings, Times Higher Education and Shanghai Jiao Tong's Academic Rankings of World Universities (ARWU) and is recognised as the leading university in South Australia
- The vast majority of the university's research is rated 'above or well above world standard' by the Australian Research Council's (ARC) Excellence in Research Australia program
- It is associated with prominent alumni: five Nobel Laureates; over 100 Rhodes Scholars, including Australia's first Indigenous recipient; and Australia's first female prime minister and Supreme Court judge
- As a forward-thinking and entrepreneurial university, it attracts distinguished faculty who are leaders in their fields, and a diverse student body of over 27,000 students from more than 90 countries
- The university constitutes a vibrant and diverse community with over 3,500 members of staff across its three campuses
- The university has five academic faculties and four administrative divisions. The focus is on discovering new knowledge, pursuing innovation and preparing leaders of tomorrow who are independent, creative thinkers with an international perspective
- The Waite campus, located seven kilometres from the Adelaide CBD, is renowned for the Waite Research Institute, the southern hemisphere's pre-eminent plant and agricultural science research site, which also specialises in viticulture, oenology, food science and nutrition
- The North Terrace campus is located in the heart of Adelaide and is the University's main campus. The historic sandstone buildings form a key part of the city's cultural promenade, and are surrounded by the Art Gallery, Museum and State Library. These buildings are interspersed with state-of-the-art teaching, learning and research facilities, manicured landscapes and sports grounds.



The UoA stands tall among the world's leading institutions for innovation.

As an international institution, the UoA is research driven; the excitement, vitality and passion for the search for new knowledge is one in which all students participate. It is also an enlightened and tolerant community where students can find support, regardless of background or circumstance; and a place where the Kaurna people, the original custodians of the land on which the University's campuses now rest, are acknowledged and their culture respected. The UoA draws strength from its founding values – of honesty, respect, fairness, discovery and excellence – as it fulfils its future research and teaching aspirations.

Finally, as a dynamic participant in society, the UoA leads its community in leveraging change for social and economic benefit, and connects with diverse community groups to deliver education and research of the highest value and impact.

The University of Adelaide: Mission and Focus

The university's focus is informed by the manifold changes confronting today's society, including the:

- Need for economic transition—to new industries and jobs
- Imperative of social transformation—demanding more accessible, lifelong learning
- Impact of globalisation—making global opportunities available locally
- Pervasive nature of technological disruption—redefining socio-economic constructs, and
- Pursuit of sustainability—socially, economically and environmentally.

In 2013, the University adopted a new Strategic Plan, *Beacon of Enlightenment* where, as a community, we improved our research output and performance, and made greater impact in areas of innovation and engagement. In 2019, the University launched a new strategic plan, *Future Making* that

challenges us to realise our potential and claim our place as South Australia's global 21st century university. *Future Making* contains Five Pillars to Excellence, which define the UoA's strategic direction, shaping its trajectory through to its 150th year and beyond:

1. **Connected to the global world of ideas:** In a globalised economy, access to the world of ideas is critical for local socio-economic benefit. As a global institution, our University has unique potential within South Australia to leverage culturally diverse staff and students—and an outstanding reputation reflected in all three leading world rankings—to connect our State to the world.
2. **A magnet for talent:** Our destiny will be shaped by those who choose to work or study with us, so we invest significant resources to make our University a global destination of choice. In our nurturing community, we teach and discover side-by-side, infused by a culture that connects, inspires and energises. Excellence demands nothing less.
3. **Research that shapes the future:** Research excellence has defined our history. And, in a world rapidly transitioning to an information-based economy, it will define our future. We aim to build an ever-stronger link between our research and local economic needs, leveraging creativity and knowledge to create abundant economic opportunities. And, we continually enhance links between research and education to shape a new generation of entrepreneurs who translate new knowledge into societal benefit.
4. **A 21st century education for a growing community of learners:** In the interests of improving lives and delivering better societal outcomes, we constantly seek ways to increase our community's access to the ever-growing store of knowledge. We are making an Adelaide education more relevant to a more diverse range of students; and aligning our programs with the creativity and power of research. The result is an education tailored to the enquiring mind, and graduates highly sought for their intellectual flexibility and rigour.
5. **The beating heart of Adelaide:** The majority of our students and staff study and work on Kaurana land in the centre of Adelaide, a beautiful and affordable City regularly ranked among the world's top 10 for liveability. Our location uniquely enables us to engage with, and shape, the life of the city. More than any other institution, we build and nurture connections between our next generation of leaders, industry collaborators, world-class teachers and researchers, sporting bodies, and major cultural and entertainment events.



The UoA is based in South Australia, globally renowned for its premium wine regions, such as the Barossa Valley and Coonawarra.

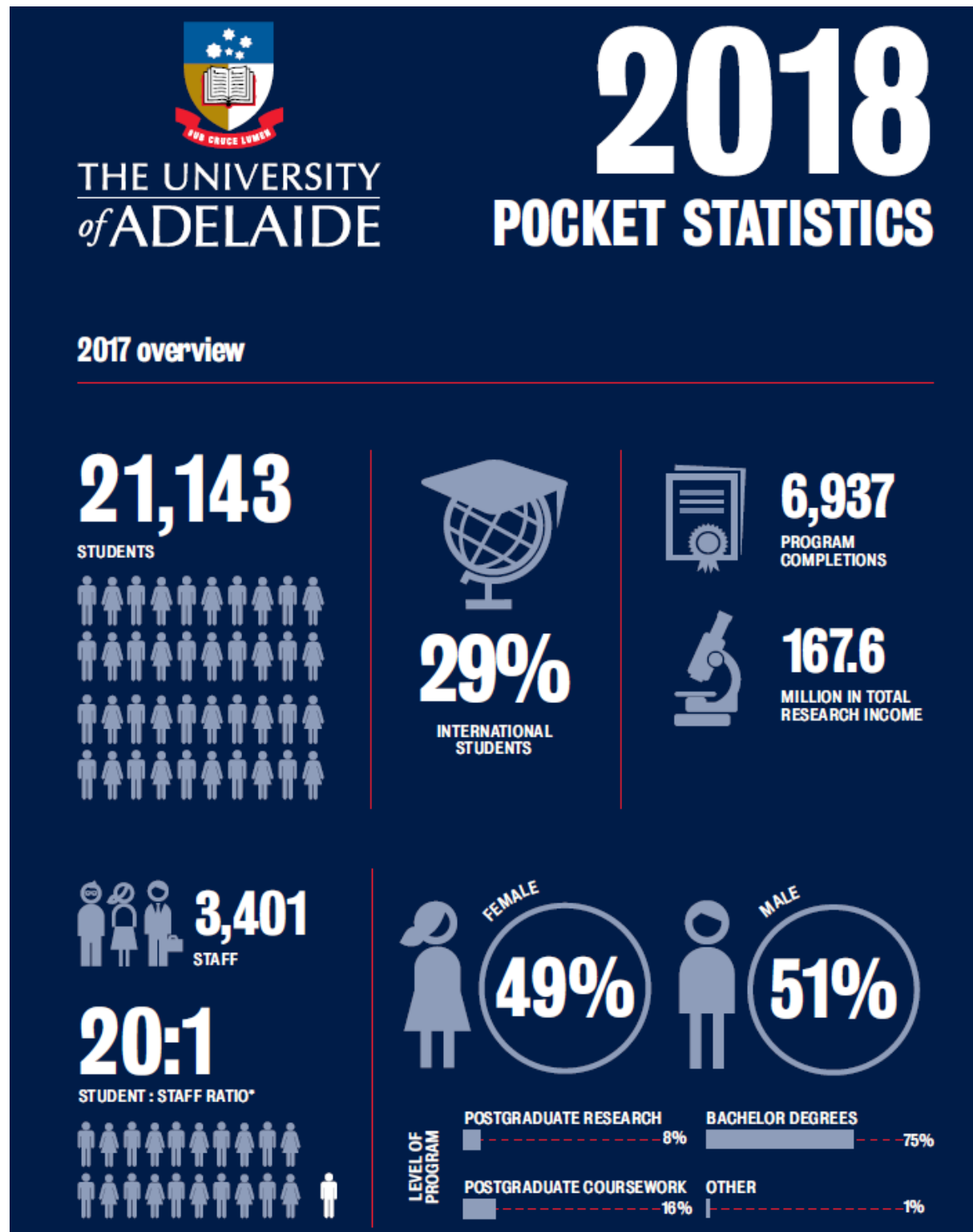
Under this new strategic direction, we will move from being a commentator on society to an active participant. We will grow and diversify our student cohort, with greater access and equity, and with more diversity in academic programs and modes of delivery. The University will also pursue aggressive growth in research income and expenditure, aligned with industry and community need. And, we will seek to be more globally and locally connected, enriching the campus experience with a social and artistic calendar of events, and inviting thousands of new visitors to enjoy our beautiful spaces.

In fact, we embrace the role and purpose of *Future Making* because it will ensure a bright future. It uniquely positions us to design and drive a prosperous, entrepreneurial future for South Australia built on knowledge, innovation and collaboration. And, it aligns the University's global connectivity, research scholarship and human potential with the social, intellectual and economic needs of young people, South Australia and the nation.

The University of Adelaide: Institutional Values

Our institutional values are:

- **Honesty:** The University is honest and open in its dealings and holds itself and others accountable to the highest standards of integrity
- **Respect:** We treat individuals and groups with respect and dignity. Justice and individual rights are respected without prejudice, and we're strongly committed to equal opportunity
- **Fairness:** The UoA is fair, objective and unbiased in its approach to teaching, research, business and administration. Freedom of expression is uncompromisingly protected, and different views are heard with civility
- **Discovery:** We are dedicated to the intellectual quest; encouraging and supporting free-thinking and free-investigation in the pursuit of knowledge, and
- **Excellence:** The University adopts, implements and celebrates best practice while pursuing excellence. Staff are trained to be leaders in their field to enable us to remain an institution of international distinction in South Australia.



The ABS is a public institution positioned within the University's Faculty of the Professions (FOP) that, along with four other academic faculties and four Divisions, form the UoA. The University was the first in Australia to offer business courses (in 1902) and a Master of Business Administration (MBA) degree as a Master of Business Management in 1962. Business courses were offered within the School of Economics until 1984, when a School of Commerce was created. ABS was formed in 2008 following the merger of the Adelaide Graduate School of Business, where the MBA was located, along with the School of Commerce.

We have a proud history of graduating leaders of industry and government, including Gillon McLachlan, CEO of the Australian Football League (AFL) (B.Com, 1995); Dr Tim Cooper AM, Managing Director of Coopers Brewery (MBA, 1998); His Excellency the Honourable Hieu Van Le AC, Governor of South Australia (MBA, 2001); Peter Malinauskas, Leader of the Opposition, SA Government (B Com (Mkt), 2003); Senator Simon Birmingham, Federal Minister for Trade, Tourism and Investment, and Senator for South Australia (MBA, 2008); and Stephen Yarwood, Futurist and former Lord Mayor of Adelaide (MBA, 2012). Some of our international MBA graduates include very successful alumni such as Mr Kong Wai Ho, Director of Public Transport Security for Land Transport Authority in Singapore; Mr Hong Tat Chee, Minister of State in Ministry of Trade Singapore; Dr Bugs Yau Teck Tan, a successful entrepreneur; and Mr Kok Seng Mok, Program Manager in Defence Science Technology Agency in Singapore.

The ABS was re-accredited by the *Association to Advance Collegiate Schools of Business* (AACSB) in 2016 for another five years. During 2013, the ABS was organised into three units (The School of Accounting and Finance, The School of Marketing and Management, and the 'Business School Office') - a model that was dis-established in 2017 when all of the related competencies were integrated into the ABS, and leadership was organised around functions rather than disciplinary areas.

There is a critical symbiotic relationship between the ABS and the FOP in coordinating resources to deliver our education, research and industry propositions to the market. The FOP also combines the Schools of Law, Economics, and Architecture and Built Environment (which moves to the Faculty of Engineering, Computing and Mathematical Sciences in July 2019) together with a number of Centres and Institutes including Global Food and Resources, International Trade, Entrepreneurship, Commercialisation and Innovation Centre, International Centre for Financial Services, and Future Employment Skills Centre. This enables the ABS to aggregate these competencies when delivering teaching and learning and research outcomes to students and industry. For example, components of Law (e.g. Contract Law) feature in various Bachelor programs, and Global Food and Resources integrates elements of management courses at the MBA level in the delivery of its Master of Agribusiness. The richness and flexibility of this adjacency is a core strength of the ABS' current and future positioning.

Adelaide Business School: Vision, Mission and Strategy

ABS' mission and vision have evolved over time and are fully aligned with the UoA's. Its current elements follow from the University's strategic plan in 2012, when its then Vice-Chancellor and President launched the *Beacon of Enlightenment*. This outlined the strategies and vision for the University at that time for the period 2013 to 2023. Via a planning process, the ABS developed a strategy for 2013-2018, in cooperation with Deloitte, by assessing its programs, research performance and business community relationships. This was based on a customer centric view of needs relative to strategic themes across education, research and industry offerings.

There was specific focus on the following themes:

- **Learning and Skills** – excellence in core business skills delivered through contemporary methods
- **Work and World Experience** – career readiness through real world experiences here and overseas during study
- **Graduate Experience** – Extensive and targeted opportunities for students beyond the classroom
- **Research Impact** – Focus on outputs and thought leadership
- **Centres for Excellence** – in research for business.

The ABS' vision was to provide capacity for its students to impact the workplace through business and management education and research. This was to be achieved by tailoring study across the University's breadth and reach of content, international and industry sources, building on and aligning with the University's research strengths, and offering a personalised student experience.

The ABS' mission in 2016-2018 was, "To deliver high quality business education, produce research excellence, enhance the student experience, and engage and positively impact the broader community." Our new mission statement for the next five year plan will be based on the AACSB recommendations that we reference areas of key strengths. Once again, the ABS planning process will align with the University's, which is now in implementation phase under a new Vice Chancellor.

Achieving our Mission

BUSINESS SCHOOL

High Quality Education		Research Excellence	
Our MBA program is rated 5* by GMAA and is the best in South Australia (BOSS rankings)	We offer a unique group discovery experience	58% of articles in A* or A-ranked journals in 2015	Our research is at or above world standard in Finance and Marketing
Our programs are accredited by AACSB International, CPA and CAANZ		Research funding received from GWRDC, DFEEST, DSTO and KPMG in 2015	
Impacting the Community		Student Experience	
Our new ThinkLab will develop local business	Our eChallenge competition connects businesses to our students and faculty	International exchange programs across the globe	Hands-on intern placements with major banks, not-for-profits and the Big 4
Key relationships with state government, the Big 4, and banks		A dedicated Student Hub offering specialised support services	

In many ways, Adelaide Business School is a major asset for the University of Adelaide. For instance, our research greatness is demonstrated through the following: Finance and Marketing received

Australian Research Council (ARC) Excellence in Research for Australia (ERA) ranking of 4 (above world standard) and Accounting received an ERA Ranking of 3 (at world standard). Our research engagement and impact strategies have also been recognised, receiving ARC Engagement and Impact Assessments of Medium for Engagement; High for Impact; and Medium for our Approach to Impact.

We are incredibly proud of these results. Our next aim is to invest in, rejuvenate and rebuild the ABS to better align it with the University's positioning as a Great University! Great Universities have Great Business Schools. Thus, our goal is for ABS to become a World Leading Business School in the next five years.

Throughout that period, the foundation of our mission and vision will be entrepreneurship. Our vision is for ABS to become known as *The Entrepreneurial Business School of Australia*, with a key focus on corporation building. We will do this by leveraging the University's rich foundations built around entrepreneurship, which will give it market credibility. While others claim to be entrepreneurial, the UoA has a foundational depth not achieved by other universities ... In 2019, the UoA is ranked the No. 1 Australian University (out of 40 Australian universities) for entrepreneurship education and engagement (Maritz, 2019). And, we are the only university in Australia to be certified as an Entrepreneurial University. We have the longest operating Australian business incubator- ThincLab (first established 26 years ago) - and the longest running and most successful entrepreneurship pre-accelerator program – the Australian eChallenge (launched 19 years ago). Our Entrepreneurship, Commercialisation and Innovation Centre (ECIC) – arguably the largest in Australia - offers specialised programs in entrepreneurship, innovation, project management and systems. ABS also has long-standing expertise in the component fields, which are combined and integrated in creating and developing enterprise. Thus, ABS has a distinct entrepreneurial pedigree.



ThincLab - the longest operating Australian business incubator established 26 years ago at the UoA.

As The Entrepreneurial Business School of Australia, ABS will be known for preparing its students to become corporation builders – either from idea to start-up to scale-up, or preparedness for leading and managing innovative social enterprises or large corporations. To achieve this vision, ABS will implement a range of initiatives across three areas:

- Innovative high impact quality research that makes a real difference
- Career oriented, transformative student experience that sets the benchmark for others, and
- Meaningful engagement activities that create value and connect the ABS to its communities.

Once the key components of our strategic plan are adopted, ABS will review its structure to ensure it facilitates a positive culture and team cohesion. Discipline areas, faculty and professional staff, along with external stakeholders, will review and comment on the Plan to inform any revisions. The Business School's Executive Committee will oversee the Plan's implementation by developing, implementing and monitoring its Action Plans.

Responsible Management Education

During their studies at the Adelaide Business School, students are continuously provided with opportunities to explore contemporary social and ethical challenges facing organisations in our increasingly inter-connected world, as well as develop the mindsets of responsible leaders. Such opportunities are infused in various discipline specific courses, while some degree programs go one step further offering standalone capstone courses in corporate social responsibility and systems thinking. As an outcome, our graduates develop skills in articulating triple bottom-line goals, embedding sustainability requirements in organisational strategies, ethical leadership, and acting responsibly in the face of corruption, the challenges of poverty, climate change, and dangerous conflict situations.

PRINCIPLE 3: Method

Principle 3 – Method: Description of strategy and systems in place to develop PRME-related course content and assess its collective impact on students and alumni.

University of Adelaide Graduate Attributes

The UoA is a research-intensive university that seeks to develop graduates of international distinction by providing high quality education. It defines the philosophy underpinning its teaching programs through the use of Graduate Attributes (GA). These describe the qualities, knowledge and capabilities that students are encouraged to take responsibility for and they develop throughout their studies. The GAs are not a list of skills to be mastered; they are, for both students and the wider community, the defining characteristics of a student's university degree program(s) that can be transferred beyond the disciplinary context in which they were developed.

While GAs are fostered in the context of the curriculum, they are developed within the total university experience. They encourage students to reflect on the broader purpose of their education, and help to develop ethically and socially responsible graduates.

Our GAs are as follows:

Deep discipline knowledge

- Informed and infused by cutting-edge research, scaffolded throughout their studies
- Acquired from personal interaction with research active educators from year 1
- Accredited or validated against national or international standards (for relevant programs)

Critical thinking and problem solving

- Steeped in research methods and rigour
- Based on empirical evidence and the scientific approach to knowledge development
- Demonstrated through appropriate and relevant assessment

Teamwork and communication skills

- Developed from, with, and via the Small Group Discovery Experience (SGDE)
- Honed through assessment and practice throughout the study program
- Encouraged and valued in all aspects of learning

Career and leadership readiness

- Technology savvy
- Professional and, where relevant, fully accredited
- Forward thinking and well informed
- Tested and validated by work-based experiences

Intercultural and ethical competency

- Adept at operating in other cultures
- Comfortable with different nationalities and social contexts
- Able to determine and contribute to desirable social outcomes
- Demonstrated by study abroad or with an understanding of Indigenous knowledge

Self-awareness and emotional intelligence

- A capacity for self-reflection and a willingness to engage in self-appraisal
- Open to objective and constructive feedback from supervisors and peers
- Able to negotiate difficult social situations, defuse conflict and engage positively in purposeful debate

Curricula Management and Development

As a higher education institution, quality learning and teaching is our main priority. This enables us to offer students an unsurpassed student experience and ensure every graduate is well educated and career-ready. We have therefore carefully built capabilities around quality learning and teaching, shifting from “a culture of compliance” to “a culture of educational quality.” This is reflected in our 2019 strategic plan which states that we will provide a “transformative student experience that sets the benchmark for others”. We will achieve this by offering a world-class student learning experience. This will be achieved by: (1) Delivering innovative programs and courses that promote self-awareness, cultivate practical wisdom and, are not only relevant now, but facilitate future employment and career development opportunities for our students; and (2) Developing entrepreneurial mindsets and skills across all students, enabling them to build enterprises and corporations of all types and sizes. Our students’ learning experience will not only be underpinned by a mastery of professional understanding and “know how”, but also by the enduring principles and practical skills that will prepare them for future career opportunities, many of which have not yet been conceived. This is in line with ABS’s learning and teaching strategy, and existing quality assurance processes that focus on educational excellence. In fact, educational quality and student benefits drive our curriculum management, and learning and teaching practices, and our strategic focus reflects this. The University’s Learning and Teaching Quality Assurance Framework and its Learning and Teaching strategic plan also informs our focus.

Curriculum Renewal and Quality Learning and Teaching

A key reason for our shift from compliance to quality was our Curriculum Renewal strategy, which began in 2013. This focused on developing a *Whole of Program* approach, integrating quality learning and teaching practices at the assessment, course and program levels, as a daily, mainstream practice. The Whole of Program approach places the degree program rather than the course/subject as the focus for curriculum design and development. It is used for developing new programs and revising existing ones. The benefit of this approach is that the day-to-day practice of learning and teaching is complemented and supported by our existing processes and policies, rather than being seen as additional work or being disconnected from them. This initiative has strengthened ABS’ well-established process for developing, reviewing and revising programs and courses consistent with internal and external quality assurance requirements. Our students benefit because the Whole of Program approach takes existing quality assurance processes deeper and further, focusing more on a pedagogical, rather than an administrative, perspective.

This process aligns with the University’s quality assurance system, which has a strong focus on connecting courses within the program including: a five-year program review; a three-year course review; and annual in-depth course reviews undertaken on a three year cycle, with minimum thresholds set for success, retention and student satisfaction.

Defining Clear Learning Outcomes

Clearly articulated and focused learning outcomes, at the program and course level, are essential to the Whole of Program approach. Learning outcomes must clearly and concisely capture what students

will know and be able to do following their learning experiences. We gather evidence of learning outcomes through assessment tasks and processes. The benefit is that with clearly defined learning outcomes, students and others can understand the intentions and expectations of a program and the courses within it. Students can also easily see what they will be assessed on and where to prioritise their efforts. Developing appropriate learning outcomes allows us to identify and track the integration of learning across the life of a program; for example, by seeing how the development of a body of knowledge is scaffolded across a program, or how critical analysis skills are refined through practice and feedback in a range of contexts. It also enables accumulated learning to be applied in capstone courses in a discipline-specific, research-focused context, providing an ideal way to demonstrate the achievement of program learning outcomes. For example, the MBA capstone project asks students to apply their accumulated learning to address a social enterprise-related problem, and the Master of Professional Accounting students apply their accumulated accounting learning when undertaking a due diligence of a group of companies.

Governance of Learning and Teaching Matters

Effective governance – including leadership, clarity of responsibilities, process and structures – is essential to curriculum management and quality learning and teaching practices, to achieve quality educational outcomes, increased student engagement and greater impact on graduates' professions. Some of the key governance practices implemented by the UoA and the ABS appear below.

Learning and Teaching Committee

The ABS Learning and Teaching Committee aligns decisions about program and course revision and development with our mission and vision, and ensures all relevant voices are heard. With clearly defined responsibilities and new Terms of Reference, the Committee complements the University's curriculum approval and review policies and practices. Open communication and collaboration is critical to the Committee's success to achieve the Whole of Program's purpose.

The ABS Grade Review Committee reviews assessments each semester/trimester. Issues arising result in changes to the assessment, which are reflected in the Course Outline. Assessment issues are also identified through Course Review cycles, with remedies noted by ABS/Professions' Learning and Teaching Committee. The University also provides regular reports on issues with problematic success rates, which ABS reviews and responds to by assessing and refining the curriculum, where required, to improve success.

Strengthening Program Leadership

The Program Director of each undergraduate and postgraduate ABS program leads the creation and review of programs and their courses as part of the curriculum renewal and quality learning and teaching processes. Program Directors collaborate with the program team, report on program and student performance, and implement strategies to improve the student experience.

Supporting Program Directors and Committees

Specially developed forms, tools and processes support the work of Program Directors and Learning and Teaching Committees to help them meet University policy requirements and to 'normalise' and integrate our learning and teaching-focused practices. For instance, over the last 12 months common tools – such as forms, templates, rubrics, reports and program curriculum maps – have consistently streamlined information collection, analysis and reporting.

Accessing Specialist Support

To fully integrate a quality education-focused, Whole of Program approach across the ABS, a Quality Assurance Manager and curriculum design and development specialist work with academic and professional staff. This team provides support and helps to build capability that contributes to the adoption of our innovative approach. This includes:

- Facilitating program review and revision, and curriculum mapping
- Facilitating course review and revision, involving documenting course structure, content and intentions through course outlines, which include learning outcomes, summary of assessment and learning activities, and a content summary
- Collaboratively reviewing and revising the program and course review, development and approval processes
- Providing individual coaching and advice to academics, as needed, in reviewing, planning and developing programs and courses
- Providing 'at elbow' coaching and advice on curriculum design and pedagogy, where appropriate, and
- Developing documentation to support the above activities.

Curriculum Integration in the Field of Corporate Responsibility and Sustainability

The ABS' major review of its curriculum and learning and teaching practices for all programs at undergraduate and postgraduate levels in 2013 shifted our process to focus on holding the ABS accountable for delivering on promises to students and other stakeholders, and supporting continuous improvement. We examined every program to align course and program learning outcomes, assessment and learning and teaching approaches with the Australian Qualifications Framework. Our major focus was on Graduate Attributes (GA), Program Learning Outcomes (PLOs), Course Learning Outcomes (CLOs), Assessment, and their alignment. This ensured an explicit, direct and aligned relationship between PLOs, assessment and teaching and learning activities. During this process, we revised PLOs for our PhD program, developing the assessment process by looking at program objectives, current measures, review of results, and recommendations for continuous improvement.

Further, as part of our strategic plan to deliver a World Leading career-oriented student learning experience, we are reviewing all of our programs over the next few months. Our aim is for every program to contain a core entrepreneurship course as a minimum and, if possible, a recommended elective course(s) on design thinking and/or creativity and innovation and/or systems thinking. Our primary focus is for students to be able to secure quality employment outcomes that provide the foundations for building eminent (but agile) future career paths. Employers also value entrepreneurial employees who are capable of identifying and evaluating entrepreneurial opportunities and who understand what is required to develop these opportunities.

Business ethics, corporate social responsibility and environmental sustainability are designed into specific courses, which are embedded in various suites of programs. A selection of our courses (and programs) and how these topics are embedded in them follows.

Corporate Responsibility for Global Business

This undergraduate course covers corporate social responsibility (CSR) and performance (CSP), the shareholder-stakeholder debate, corporate governance in global business, ethical foundations of CSR, strategic CSR, implementation of CSR as part of corporate strategy, challenges at the base of the pyramid (BoP), social entrepreneurship and social business around the world. An integral component includes a small group discovery experience (SGDE) project. The primary goals of the project are to

train students in applying their knowledge, analytical and critical thinking skills to a practical problem in the field of CSR/corporate responsibility for global business; to develop an applied research project in the form of a CSR strategy, social entrepreneurship or social business implementation plan; and to train students in developing skills in effective and efficient team management.

Marketing to the World

Marketing to the World provides insights into the pressures created by the international economic, political, legal and cultural environmental influences on marketing planning. It equips students with analytical skills required to develop international marketing plans and the marketing mix elements in the international environment. International marketing is one of five subjects in the marketing discipline. It extends the knowledge developed in marketing management to the international, rather than domestic, market. The major theories include pathways of internationalisation, political and economic risk analysis, international planning, cultural distance, branding for international markets, international market entry, distribution strategies and adaptation versus standardisation. Conceptual material is implemented via class exercises, case studies and a major project. Students produce a report considering the marketing of a business to consumers or business customers in different cultural contexts with consideration of ethical conduct.

Corporate Investment and Strategy

In this course, techniques and issues in corporate finance focus on corporate investment decisions. It includes internal and external corporate growth strategies such as advanced capital budgeting techniques, risk management strategies, valuation of capital projects as real options, merger and acquisition strategies, corporate diversification and divestitures. Students also learn how to identify and apply ethical principles relevant to the finance profession.

Managing Across Cultures

The objective of this course is to provide students with a basic understanding of the fundamental principles and practices of international management. The course focuses on the foundations of international management, the role of culture, cross-cultural communication and negotiations, MNC strategies and structures, and international human resource management. With a focus on theory, there are also opportunities for the practical implementation of the main concepts covered. Students gain an understanding and appreciation of the need for ethics and social responsibility in international management, and the growing pressures on firms to act in an ethically and socially responsible manner in their global business operations.

International Business Operations

In this course, students are prepared for working in an organisation that operates internationally, and so are exposed to different aspects underpinning a firm's internationalisation decisions. The broad content themes include international strategy and organisation; the entrepreneurial nature of international expansion; different modes of foreign market entry; internationalisation of a service firm; international marketing, human resource management, and sourcing. Students also explore ethics and CSR in the international context. The course develops skills in analysing cross-border business scenarios, identifying opportunities and risks in various internationalisation decisions, appreciating the complexity of international business operations, and includes ethics and social responsibility as significant factors that shape a firm's behaviour in a home or host country(ies).

International Business Environment

Exploring the international business environment in which organisations operate, students examine the structure and features of international markets, how organisations engage with them, and how

they respond to its complexities. Students are introduced to useful theoretical and analytical frameworks crucial to understanding the opportunities and risks derived from a country's political, economic, social, technological and institutional environment. The course also reviews aspects of global institutions, such as the World Trade Organisation (WTO) and the International Monetary Fund (IMF), which set global rules that profoundly affect business strategy and human welfare. Through this course, students are introduced to fundamental skills and competencies for further development towards an international business profession.

Managing Organisations and People

This course introduces students to the roles and functions of managers, including an introduction to organisations and the need for, and nature of, management. It examines the evolution of management theory, organisational environments, and corporate social responsibility and ethics. The course also covers a detailed investigation of the four functions of management: planning and decision making, organising, leading and motivating, and controlling.

Systems Thinking for a Complex World

Using a systems-thinking perspective, this course explores the challenges and opportunities of managing in complex organisational and social environments. Building on skills and knowledge gained throughout the program, it provides a framework in which to explore the essential 'messiness' of living systems and the complexity and unpredictability of outcomes. Assessment will focus on the use of environmental and organisational information to diagnose problems, propose alternative solutions and then consider possible outcomes to complex business problems.

Organisational Behaviour

Students gain a foundational understanding of the history and development of Organisational Behaviour (OB) theories and concepts in this course. There is particular focus on how the attributes and behaviours of individuals and groups influence the culture, design, ethics, learning and structure of an organisation. In a team environment, it facilitates experiential learning of contemporary approaches to conflict resolution, communication, decision-making, leadership, motivation, negotiation, power, and politics.

Corporate Social Responsibility and Ethics

This Master's Course reflects the major contemporary trends in corporate citizenship, social and environmental responsibility and accountability. It considers the enlarged spectrum of corporate stakeholders; corporate social responsibilities, citizenship, and reputation; business-government relationships and political environmental management; sustainable development; environmental management and accountability; social investing and corporate philanthropy; community and employee relationships; and public affairs and media management. There is a clear focus on understanding and implementing enhanced organisational performance including social, environmental and ethical performance indicators in addition to traditional financial performance indicators.

Entrepreneurship Foundations and Mindset

In this course, students learn new skills to cultivate a different mindset and transform their approach to problem solving. It prepares them for creating their own entrepreneurial career path, being a valued corporate team member (intrapreneur), or using their enterprising skills for working within government or the not-for-profit sectors. Students understand the theoretical concepts behind the nature and importance of entrepreneurship, use a number of tools/frameworks/models to identify

and assess opportunities, learn about how to be creative in resourcing and the marketing of start-up ventures, and learn how critical customers, risk, and ethics are in developing new ventures.

Entrepreneurial Leadership

Leadership skills are critical in the value creation process to successfully bring a new venture to life. In this course, students examine the relationship between entrepreneurship, value creation and the entrepreneurial leader's role in driving innovation and growth. Key skills learned will enable students to develop capabilities to adapt leadership approaches/practices in a variety of business and organisational contexts. Issues explored and discussed include judging when to use hard versus soft leadership techniques; building a culture of effective, ethical and empowered leaders across new ventures, spin offs or existing businesses; developing a shared purpose, company values and vision to inform recruiting; developing and rewarding leadership; and identifying potential negative issues occurring in different roles within an entrepreneurial team.

Master of International Management

The Master of International Business is a comprehensive degree that develops conceptual and practical skills to enable effective operational and strategic responses to complex, dynamic global forces at organisational and interpersonal levels. The program explores the complexity of the global business environment and pertinent cultural, ethical, geographical, environmental and social challenges. It develops managerial and strategic responses to them, enabling graduates to operate in such an environment.

Executive Education

Executive Education (EE) plays a direct and supportive role in achieving ABS's mission by developing and supporting ethical, responsible, creative and reflective leaders. Such leaders will see the relationships within systems to solve immediate and practical problems, while planning for viable futures. EE tailors programs for clients and enables organisations and business leaders to design specific programs to lead strategic planning, manage change through innovation, and encourage discussion and explore ideas within their leadership or management teams.

It is important to note that *Future Making*, our new strategic plan, also focuses on delivering innovating Executive Education to facilitate high impact business leadership. As part of that plan, we are working to combine innovative research, case studies, guest speakers, and experiential learning techniques to inspire and equip participants with the skills and tools to meet future challenges. To increase adoption of EE courses, their learning objectives will be mapped to related award course learning objectives. Optional course assessment and challenge exams will be incorporated into the EE course delivery system so that participants can elect to achieve award credits for their study efforts if so desired. This will better integrate EE into the ABS and create greater value for EE students.



Executive Education (EE) plays a direct and supportive role in achieving ABS's mission by developing and supporting ethical, responsible, creative and reflective leaders.

PRINCIPLE 4: Research

Principle 4 – Research: We will engage in conceptual and empirical research that advances our understanding about the role, dynamics, and impact of corporations in the creation of sustainable social, environmental and economic value.

A Research-Intensive University

The UoA is a research-intensive university, and this is a clear point of difference in our offering. We are currently ranked among the world's top universities for academic output. With more than 4,000 research staff and students working together, supported by modern infrastructure and an innovative culture, the University is exceptionally well equipped to meet global research challenges and deliver positive impacts in the communities it serves. Our researchers have made vital contributions to game-changing inventions throughout history including x-ray crystallography, insulin, penicillin and the Olympic torch and cauldron.

As a member of the Group of Eight research intensive universities, we are a destination of choice for highly talented researchers, students, government and industry partners. The following is a snapshot of what makes us outstanding.

UoA: World rankings

- 135 for Times Higher Education (2019 rankings)
- 114 for QS (2019 rankings)
- 139 for Academic Ranking of World Universities - ARWU (2018 rankings)

UoA: Quick facts

- Consistently ranked in the top 1% of the world's universities
- Six specialist research institutes
- Approximately 40 research centres
- 110 Rhodes Scholars (to date)
- 1625 academic research experts
- 2340 research students
- Top 4 in Australia for contract and consultancy research (Survey for 2013 - 2015)
- No. 1 volume university-industry research agreements in Australia (National Commercialisation Survey 2015)
- Highest level of Rural Research & Development Corporation funding in Australia (2015)
- Supported 700+ start-ups since 2001
- 66 research fields rated at or above world standard (Excellence in Research Australia 2015)
- 35 research fields achieved maximum rating 5 out of 5 (Excellence in Research Australia 2015)

Highlights

- 100% of the university's research sub-fields are assessed as being "at or above world standard".
- Across all sub-disciplines of research assessed, the latest ERA has found that the UoA has:
 - 41 research fields rated 5 – well above world standard – the maximum rating
 - 16 research fields rated 4 – above world standard, and
 - 10 research fields rated 3 – at world standard.

Our research outputs have also significantly improved in both volume and quality, shown below:

Category	2018	2015	2012	2010
5 – well above world standard	41	35	18	16
4 – above world standard	16	20	21	17
3 – world standard	10	11	21	27

Similarly, and consistent with its mission of “producing research excellence”, ABS has significantly intensified and improved its research activities and output in the last five years. The cross disciplinary nature of ABS enables collaboration, enhanced research impact and engagement with businesses and community across accounting and finance, marketing and management, family and wine business, Executive Education and various centres.

We are proud of our University’s existing research outputs, and quality research rankings. And, we are inspired to enhance our current position and achieve our future research objectives of developing a world-leading research environment focused on creating sustainable social, environmental and economic value.

Research Impact Stories

ABS has published, and continues to research, in the field of corporate, social responsibility and sustainability especially as it impacts the value of firms and how it is incorporated into accounting practices. Research outcomes are regularly shared with publications from professional associations such as CPA (Certified Practising Accountant) Australia and CAANZ (Chartered Accountants Australia & New Zealand).

Two significant highlights follow:

Our marketing researchers received an ARC (Australian Research Council) linkage grant to examine ‘The ability of sports sponsorship and corporate volunteering to enhance the sponsor’s corporate social responsibility image’. This research was conducted with industry partners *Meals on Wheels SA* and the *Norwood Football Club*.

An MBA Project student worked with Oxfam marketing to determine if there was a demand for ethical clothing. Oxfam was so impressed with the student’s research that it is investigating the possibility of creating an online ethical fashion line.

ABS is also renowned for engaging with prominent communities, within South Australia and with international partners:

- Regularly initiating research dialogue with the “Big 4” accounting firms, providing consultation and advice (two accounting faculty are on the CPA Australia and CAANZ regional boards)
- Receiving ongoing contract research sponsorship from much of South Australia’s local financial sector (BankSA, Adelaide Bank, Statewide Super, and Lifeplan)
- Maintaining significant contract research partnerships with:
 - AMP on self-managed superannuation
 - HomeStart on developing the Lifeplan Index of Financial Adviser Satisfaction, and evaluating low income shared mortgages, and
 - Australian Institute for Social Research (AISR) assessing the impacts of water allocations on investment and industry outcomes in the Murray Darling Basin, and the impact of credit ratings on the cost of public sector borrowing.

Excellence in Research for Australia (ERA) Ranking

ERA is a research quality and evaluation system developed by the ARC in conjunction with the Department of Industry, Innovation and Science. The University is a world leader in fields underpinning innovation across industries critical to our state and community's futures, and in areas translating to benefits for society.

The high quality of our research across a vast array of fields was recognised in the 2018 ERA evaluation, released in March 2019. This comprehensively assesses the University's research outputs for 2014-2018. It demonstrated that we are a clear world leader in research. More than 22,500 individual research outputs by academic staff and affiliates of the University were assessed, including published papers, authored and edited books, book chapters, conference papers and creative works. The University now has 67 research sub-fields that are assessed as "world-class" or above, including research in engineering, mathematics, science, medical and health sciences, agricultural sciences, artificial intelligence and the arts.

Over the last five years, the ABS has also significantly improved its output of high quality publications. This is a result of the joint research approach taken by the University, ABS and the Entrepreneurship, Commercialisation and Innovation Centre (ECIC). Under the Field of Research (FoR) code - 15 (Commerce, Management, Tourism and Services) - we have focused on creating social and economic dividends for the community through wide-ranging research engagement.

Our FoR 15 research is concentrated within the ABS and the ECIC and, in 2018, the UoA received over \$2.1M in cash support from FoR end users. This demonstrates the significant value placed on the research we collaboratively undertake with these organisations.

During 2013-2018, we successfully developed, undertook and disseminated significant industry-beneficial research by integrating end-users at the early stages of the process and engaging with a wide range of stakeholders, in addition to a few central partnerships; for example, SuperConcepts (AMP) and the Financial Services Council. Our primary research efforts during this time was in FoR Accounting (1501), Finance (1502) Marketing (1505), and Management (1503).

ABS Specific Research Highlights

Below are key research examples highlighted in our recent ERA submission:

1501 Accounting

ABS' current ERA ranking for Accounting is 3 – at world standard. Our Accounting research focused on areas relevant to accounting bodies and the profession such as company auditors, financial reporting practices, and professional qualifications. Our staff:

- Performed prominent industry roles, including: State President for South Australia, Chartered Public Accountants Australia (CPA); Panel member, CPA Australia Professional Qualifications Advisory Panel; Board Member, Accounting & Finance Association of Australia and New Zealand (AFAANZ), and the Australian Accounting Standards Board
- Presented papers and reports informing policy recommendations, and
- Organised annual forums bringing together academics and practitioners with an interest in accounting standard setting.

1502 Finance

Our ERA ranking for Finance is currently 4 – above world standard. The UoA's International Centre for Financial Services (ICFS) initiated extensive engagement between the University and the finance

industry. This included commissioning work and conducting projects in collaboration with SuperConcepts (AMP), HomeStart Finance SA and the SMSF Professionals' Association of Australia Ltd (SPAA). In addition to engagement mechanisms such as ARC Linkage grants and commissioned reports, University staff also conducted ongoing work with Australian Unity/Lifeplan, longitudinally measuring and reporting on members' financial planning satisfaction.

1503 Management

Our research engagement for Management focused on family business, entrepreneurship and project management. This was primarily through initiatives with KPMG, Family Business Association (FBA), Family Firm Institute, KMT Partners and the Society for Trust Practitioners (STEP). Our most significant examples are:

- Conducting the 2015 KPMG/FBA National Family Business Survey in close collaboration with Federer Performance Management Group (FPMG) and FBA (both data collection and results dissemination closely engaged family businesses across Australia)
- Performing wide-ranging research and research training with SA Water, Asset Management Council and the Project Management Council for entrepreneurship and project management
- Closely collaborating with the South Australian Government to develop the freely available Australian Cluster Observatory – a web-based portal providing business executives, and regional and industry development agencies, with a way to examine levels of industry concentration within regions
- Conducting research on the state's entrepreneurial ecosystem and distributing it to government and industry research end users
- Advising the Department of State Development, through membership of the South Australian Science Council, and
- Maintaining an ongoing presence in government steering committees and providing government-focused reports, presentations and public lectures.

Note: We are not currently assessed for ERA ranking in Management due to low research output volumes in this area.

1505 Marketing

ABS has a current ERA ranking for Marketing of 4 – above world standard. Our Marketing end-user engagement team focused on wine, finance and non-profit organisations as follows:

- **Wine:** Researching the impact of country of origin, exports, supply networks and social media. Closely collaborating with industry through research, end-user focused reports, and tailored workshops and presentations, building on a strong history with the sector.
- **Finance:** Conducting collaborative research with the Financial Services Council and People's Choice providing industry learnings related to customer perceived value and service success.
- **Non-profit sector:** Conducting collaborative and funded research, industry reports and invited presentations. This had a significant, positive impact - for both Meals on Wheels (SA) and the St Vincent de Paul Society (SA) - on their volunteering recruitment and management. We were also involved in national and state volunteer experience studies, and were members on the Business Advisory Board of the St Vincent de Paul Society.

Our Research Centres

ABS research centres are a valuable source of expertise, support and research engagement identifying key challenges facing industries and contributing to economic, social and cultural development. Our key centres are outlined in brief below.

Entrepreneurship, Commercialisation and Innovation Centre (ECIC)

Established in 2001, and one of the first of its kind, the ECIC has a long tradition in entrepreneurship and innovation excellence. It is the largest and most successful entrepreneurship centre in Australia that is designed to create proactive and innovative leaders who can make a positive difference within their organisations, companies or communities. Its unique, holistic learning model provides students with the skills, experience and guidance to pursue their aspirations while establishing their own businesses, if they desire. The ECIC cultivates knowledge and creativity by focusing on four key research areas: innovation, entrepreneurship, project management and complex systems capabilities. Its complementary and integrated courses are taught via coursework programs, research programs, and community engagement initiatives. It also offers world-class student and community centric engagement initiatives, including the Australian eChallenge pre-accelerator program, ThIncLab new venture incubator programs, and Massive Open Online Courses (MOOCs) in the areas of entrepreneurship and opportunity identification, project management, and risk management.

Family Business Education and Research Group (FBERG)

Established in 2011, FBERG is Australia's leading university-based group furthering family enterprise research, education, and engagement worldwide. Its mission is to advance the growth and performance of the family business field through education programs (developed in partnership with industry) and via relevant thought-leading research. Through FBERG's initiatives, in 2015 ABS was recognised as one of the *top 25 global business schools for family business* education and research. The inaugural ranking was released by Family Capital, a publishing company based in the United Kingdom.



ABS is recognised as one of the top 25 global business schools for Family Business and Research.

Yunus Social Business Centre (YSBC)

The Yunus Social Business Centre is a joint initiative of the University involving the internationally based Yunus Centre Network that promotes and sustainable enterprise as a deliberate vehicle for social good. The YSBC harnesses resources (university knowledge, network, teaching and research) to connect, empower, explore and deliver expertise and initiative that nurtures social business and supports those engaged in it. The YSBC recognises that social enterprises operate in a complex environment where certainty of outcomes is rare and not all businesses produce the change they hope to achieve. By sharing specialised knowledge and learnings with the social business community, the YSBC aims to further the work of the global social business network.

Human Aspects of Cyber Security (HACS)

The HACS is a collaborative team from the University and the Defence Science and Technology Group (DSTG) that provides support for organisations and management on information and cyber security. In particular, it researches the human aspects of cyber security including people's knowledge, attitude and behaviour associated with information security. HACS conducts tests, experiments, surveys, interviews and focus groups with a range of partners including Australian Government agencies, private industry and the public. Since 2008, it has conducted a range of projects including those associated with phishing, human vulnerabilities to social engineering, employee compliance with information security policies, and related cyber security fields. During the process, it has received a number of research grants with the most recent being the Premier's Research and Industry Fund (PRIF) grant from the South Australian Government to develop an Information Security Auditing Tool (the HACS-Q).

International Centre for Financial Services (ICFS)

The ICFS develops excellence in and an improved understanding of the financial services industry by providing research, study opportunities and industry engagement. This has been achieved through a number of initiatives. These include undertaking contract research for industry, developing and supporting academic and academic/practitioner teams to undertake research on key industry issues, obtaining research support from various agencies and industry bodies, encouraging and supporting students to undertake doctoral studies in financial services, delivering award and non-award courses to meet industry requirements, and establishing the ICFS Advisory Board.

Future Research Strategies

ABS' objective is to provide innovative, high impact quality research that makes a real difference to individuals, firms, the community and our nation. Our focus will be on research related to building sustainable corporations, social enterprises and communities by solving problems associated with social and economic prosperity and poverty, and/or business or social enterprise performance.

Our ultimate aim is to position ABS researchers as innovative thought leaders who make a significant community impact. ABS will be renowned for contributing research to new theory development and for building and extending existing theory in traditional disciplines, which redefines best practice and/or informs advanced policy development.

To do this, we will focus on:

- Building key research strengths where we have existing expertise
- Identifying new and evolving important research areas, particularly where they overlap with our current research strengths
- Integrating an understanding of the importance of research to strategic decision making, and how to undertake rigorous research into our student coursework learning experience (through

a research methods course), providing students with a distinct career prospect advantage and enabling them to properly interpret research data in their roles

- Raising our research profile by promoting the value and relevance of our research achievements within the ABS and beyond the university (including the profiles of the researchers involved), and
- Generating increased funding for research projects by exploring new sources of funding and enhancing our grant writing capabilities.

PRINCIPLE 5: Partnership

Principle 5 – Partnership: Description of strategy for stakeholder engagement and partnerships (including but not limited to community, government and business).

Partnerships that bring together government and businesses, communities, research partners and international boundaries help to magnify the work of our University. Our broad range of relationships allow us to participate in opportunities impacting communities closest to us and abroad. The UoA seeks to create new partnerships and develop current ones. And, we recognise the impact that partnerships have on our development as a leading research institution and, in turn, the impact our support can have on communities and organisations.

Industry and Government Partnerships

The university works with government and industry on a range of initiatives that deliver positive outcomes for our students, the business community and communities locally, nationally and globally. We understand the importance of strong partnerships in today's global market. We engage with the Federal Government on our core research and teaching activities, the South Australian Government across a wide range of issues, and local government in the communities that we serve.

Our students benefit from our partnerships and alignments through:

- Opportunities to undertake industry placements and internships
- Financial support via scholarships
- Mentoring, and
- Opportunities to work collaboratively on Honours projects.

Consultation with the government and industry sectors also shapes the University's program development, ensuring degrees are relevant and that graduates possess the knowledge and personal attributes required by their future employers. In the current highly competitive funding environment, our researchers continue to attract strong support from government and industry across a broad range of fields to address global research challenges.

We also collaborate with key businesses and sectors on a range of projects that positively impact our local and wider communities. Working with businesses of all sizes and in all sectors can add great value to research and create new opportunities. Funding opportunities focused on building and strengthening collaborations among researchers, industry, government, and not-for-profit groups include:

- Australian Government (business.gov.au) - Grants and Assistance Tool
- Australian Renewables Energy Agency (ARENA)
- Australian Research Council (ARC)
- National Health and Medical Research Council Partnership (NHMRC) Projects
- Cooperative Research Centres
- South Australia (SA) State Government Research, Commercialisation and Start-up Fund (RCSF)
- Global Innovation Linkages Program
- Contract Research and Consulting.

Community partnerships

The UoA is committed to building and maintaining mutually beneficial partnerships for the social and economic wellbeing of our communities. We work with, and for, society through a wide range of

activities and we are a proud and active supporter of our local, national and international communities. Our aim is to work with others to:

- Contribute to the economic development and sustainability of South Australia
- Raise aspirations about higher education pathways
- Deliver better informed policy-making, products and services, and
- Improve public engagement and cultural enrichment by sharing the latest research and knowledge.

Some of our current community partnerships are:

- **Mother's Day Classic:** On Mother's Day, the UoA Community Volunteering Team participates in the Mother's Day Classic to help raise money for the National Breast Cancer Foundation
- **The True North Project:** This is a development opportunity for emerging writers aged 12–20, coordinated by the UoA with the City of Salisbury, which encourages them to attend workshops, work with professional authors, and write for the City of Salisbury's newspaper and website.
- **Hutt Street Centre:** Every year, University staff show their support for people facing homelessness by joining the "Walk a mile in my boots" campaign and experiencing what it is like on a cold, winter's morning to walk one mile to find something to eat, a hot cup of tea or coffee. With nearly 6,000 people experiencing homelessness in South Australia every year, we are helping people facing poverty and disadvantage to realise they are not alone.
- **Smith Family Partnership:** Together with *The Smith Family*, we promote education pathways for disadvantaged communities in the northern suburbs through a formalised partnership agreement, including iTrack Online Mentoring, Learning Clubs, Next Steps and Tertiary Mentoring.
- **OzHarvest:** We have hosted two events with OzHarvest, on the University's Goodman Lawns, to raise awareness and fight food waste through the Think.Eat.Save campaign, "Feeding the 5000" and the Great Food Rescue Race.
- **Australian Refugee Association:** We support a number of events that provide developmental and educational opportunities to young people from refugee backgrounds. These include the 'Restoring Hope' schools event in Refugee Week and helping to develop young adults who can contribute to our State's social and cultural wealth.

We continually develop and strengthen our partnerships with the South Australian community. Our partnership stakeholders include:



Priority Partners

Our priority partnerships foster strategic relationships with universities across the world. We develop broad and deep relationships with a 'Priority Partner' to facilitate stronger and more productive research collaboration, as stated in the *Beacon of Enlightenment*. These strategic partnerships generate opportunities for external funding, resources and further collaboration beyond our respective institutions. We also engage with priority partners for student and staff mobility, student articulation, dual degrees, joint partnerships and conferences, and areas of community engagement. Depending on the relationship, the University engages in all or just one of these activities. Each Priority Partnership is led by a member of our Executive. Key Priority Partners include:

- Bogor Agricultural University, Indonesia
- Harbin Institute of Technology, China

- Nagoya University, Japan
- North Carolina State University, USA
- Shanghai Jiao Tong University, China
- University of Alberta, Canada
- University of Nottingham, UK
- University of Strasbourg, France
- University of Freiburg, Germany

External Engagement and Internships

ABS' external engagement strategy builds effective relationships with government organisations, advisory boards, alumni, industry and business, prospective students, agents and parents, media, international partnerships and accreditation agencies. Staff develop engagement strategies to create systematic methods for ready engagement with industry and business to achieve:

- Greater student access to industry expertise in courses, networking events, facilitated career workshops, workplace visits and guest speakers
- Increased number of high quality, local and international internships
- Strong strategic partnerships with industry to encourage collaboration with ABS academics and students for activities such as internships, "real – life" business projects, applied research, corporate social responsibility programs and professional network creation
- Enhanced relationships with key industry influencers
- A heightened ABS profile across industry sectors.

The Faculty of the Professions (FOP) runs our internship program and, in the last five years, it has become more market-driven. During 2016-2018, there was a 121% growth in internship opportunities for our students, which we expect to continue in 2019 and beyond. Our internships are open to all students enrolled in a Professions degree program. As the only Faculty in the University with an internship program, FOP collaborates with other parts of the University and businesses to arrange work experience opportunities.

Internships demonstrate to future employers that students can apply their technical skills effectively in the workplace, interact positively with a range of different colleagues and clients, and contribute positively to the day-to-day operations of organisations under the guidance of workplace and academic supervisors. ABS students can apply for, and start, an internship from the day they enroll in an ABS program. The program is open all year, aligning with employer, rather than University, timescales. Our consultancy approach with employers has increased the number of internships offered to ABS and the Faculty for both domestic and international students, involving undergraduate and postgraduate (including the MBA) students.

Our internship program has been running for seven years. In 2017, a Manager of Internships was appointed to increase student opportunities and innovate the area. In 2018, a virtual internship was introduced to the suite of student courses available, which has allowed us to scale up our internship program. This means that students can now gain international experience from the comfort of their lounge room.

We continue to work with a cross section of local industry, maintaining our consultative and flexible approach, and building relationships with financial services, government, manufacturing and construction, private, not-for-profit and agribusiness sectors. For instance, our recent partnership

with the Port Adelaide Football Club has enabled us to build relationships with industry in China. In 2018, our China Power Connect program opened doors for Chinese students to undertake an internship in their home country, helping to build their networks should they decide to return home to work after completing their studies. We also hope to open the program to domestic students.

Work-integrated learning (WIL)

In 2018, Adelaide Business School performed a work-integrated learning audit where Course Coordinators were asked if they had WIL embedded in their courses. As a result of this review, using the University's framework for WIL, some of our programs now feature core employability courses in Level 1 and Level 2 (Professional Practices and Client Relationships and the Role of Technology) and a core WIL course in the 3rd Year of their studies through the Internship/Industry Project or eChallenge courses. Essentially, all students have the opportunity to develop employability skills over the course of their degrees and attain a work placement in their 3rd year.

There has been significant growth in the number of students now taking an Internship for course credit with a large proportion of Internship students from Adelaide Business School. We offer domestic internships, international internships and virtual internships at both undergraduate and postgraduate levels. The Faculty of Professions has a 2019 KPI of 400 students enrolled for course credit and a large percentage of enrolments are from the Business School. The delivery of Internships has been strengthened by the production of a suite of video resources to support students while on internship; a risk management framework was also developed.

Career Development

We have been producing high quality business graduates and prominent members of society through a strong tradition and culture of leadership. Our graduates develop high-level analytical skills, a solution-oriented approach to current and future problems, communication skills adaptable to multiple environments, and global and social awareness. Our graduates are also career ready. With internships, study abroad, regular employer activities and specialist industry events offered, ABS students have the advantage of real-world experience and understanding of company culture. We are dedicated to exposing our students to industry and alumni connections, and career-readiness workshops with a focus on building skills required in the business world. Through internships, guest speaking engagements and industry involvement activities, employers are able to shape graduate attributes of future employees.

Graduate Career Readiness

Employers expect graduates from both undergraduate and postgraduate business programs to be knowledgeable in their respective fields, ready to solve problems, demonstrate emotional intelligence and intercultural competence, and be ready to work effectively in teams. The ABS offers a course that is designed to assist students to develop these professional skills. It integrates co-curricular opportunities that the University offers which advances students' personal development and employment potential. The course provides students with direct contact and learning experiences delivered by industry professionals on-site. During industry visits associated with the course, students have the opportunity to learn about workplace etiquette, problem solving, time management and the importance of creativity in the workplace. Students also participate in interactive workshops, reflective journals and produce a high quality CVs and LinkedIn profiles. As an outcome of this course, students develop the skills and competencies expected by employers to increase their competitive employment advantage and achieve their career goals.

Employer engagement

Our faculty and professional staff regularly engage with employers through consultations, specialist career engagement activities on and off campus, and internships. We facilitate employer visits on campus to target and recruit students or graduates, as well as provide general career support and advice.

Career Events and Workshops

The Faculty of the Professions, where the Adelaide Business School is located, offers a specialist range of careers events and workshops tailored to specific disciplines. Throughout the year, students can attend a range of sessions to develop key transferable professional employability skills, opportunities to network with a range of employers, and develop job-ready skills and tools to assist when it's time to get applying for internships and graduate positions. Examples include:

- Site visits and board room simulations into organisations from different sectors
- Industry and alumni networking events
- Panel sessions from industry experts sharing tips to young graduates
- Company culture and recruitment presentations.
- Emotional intelligence workshop sessions
- Resume, workshop, linked in, networking, interview and assessment centre, video screen and psychometric test preparation workshops and individual consultations.

Global Team

Our Global Team provides students with advice on international study opportunities including student exchanges, study abroad and short study tours with international organisations and universities such as the University of Strasbourg. The team's activities focus on priorities is highlighted in the University's strategic plan, and responds to the University's engagement commitments. Further, ABS has increased its international presence via numerous exchange partnerships with world-leading business schools. ANZ is now one of ABS' key corporate partners. It is one of the top four Australian banks and operates in 33 markets globally, in Australia, New Zealand, Asia Pacific, Europe, America and the Middle East. We have strengthened this partnership with a number of international internships being offered to our students through ANZ. ABS has also increased its international presence by becoming a member of the Higher Education and Research in Management of European universities (HERMES) network and a full member of the European Foundation for Management Development (EFMD).



Adelaide Business School Study Tour in Sydney, Australia

PRINCIPLE 6: Dialogue

Principle 6 – Dialogue: Stakeholder Engagement

We facilitate and support dialogue and debate among educators, students, business, government, consumers, media, civil society organisations and other interested groups and stakeholders on critical issues related to global social responsibility and sustainability.

Serving Underrepresented Groups

Driven by *Future Making*, which provides an internal strategic context for our initiatives, and as a higher education provider committed to providing quality education for a diverse student body, ABS' policies give under-represented students equitable opportunity to enroll in programs via different pathways, attracting students from Australia and internationally. This includes students from low-socio-economic backgrounds and indigenous students. The following initiatives demonstrate the University's and ABS' strong commitment to addressing, engaging and responding to current and emerging social responsibility and sustainability issues.

Gender Equity and Diversity

The UoA believes strongly in equal opportunity for women, and has a long history of championing women's rights in higher education. In 1881, it was the first Australian university to admit women to academic courses. Over its history, the University has been responsible for many important milestones in Australia's social reform, including the University's first female graduate – Edith Emily Dornwell (BSc., 1885), Australia's first female surgeon, Laura Fowler (MB, 1891), and the first Australian woman to receive a doctorate in music, Ruby Davy (B.Mus., 1907; D.Mus., 1918). UoA was also the first to elect a woman to a University Council, Helen Mayo (MBBS, 1902).

More recently, the University has made gender equity a key focus area, incorporating gender targets stated in the *Beacon of Enlightenment*, which set out the University's vision over the next decade. UoA is committed to improving the gender equity of its senior leadership, via a number of initiatives, activities and groups:

- **The University of Adelaide Equal Opportunity Policy** - UoA is an Equal Opportunity Employer
- **SAGE Athena SWAN** - Participating in the Science in Australia Gender Equity (SAGE) Athena SWAN pilot
- **The Dornwell Framework** - the University's gender equity strategy for staff
- **Adelaide Women Leadership Development Program** - recognising that women are under-represented in senior roles in higher education, and providing targeted development activities for women identified as having the aspirations and ability to progress into senior leadership and decision making positions in the University. The program runs every second year for academic and professional staff
- **Adelaide Women Support Network** – for women who have successfully completed the Adelaide Women Leadership Development Program
- **Fay Gale Centre for Research on Gender** - to develop, promote and expand the existing substantive concentration of research excellence in the field of gender within the UoA, and to build on its commitment to promote social justice, equality and diversity in its community and workplace
- **Women's Professional Development Network (WPDN)** - a unique and dynamic 'grassroots' network supporting the professional and personal development of women employed by UoA through activities that promote leadership, personal job satisfaction, positive work attitude and career advancement

- **Academic Women's Forum (AWF)** - a group of academic women who meet twice a year to share information and ideas, and make contacts across the university
- **Gender, Equity and Diversity (GED) Committee** - a sub-committee of the Vice-Chancellor's Committee (formed in October 1999 and has met regularly since March 2000) taking a proactive and strategic role in progressing the University's equity and diversity agenda
- **Workplace Gender Equality Agency (WGEA) reporting** - WGEA is an Australian Government statutory agency that promotes and improves gender equality in Australian workplaces. It also administers the *Workplace Gender Equality Act*, and
- **Lodging our Annual Report with the WGEA** - and subsequently being advised we are compliant with the Act.

Universities Equity Scheme provides access to tertiary education for students who are under-represented at university by providing bonuses for students in specified schools, and bonuses for individuals in other schools. Eligible students receive five bonus points in the calculation of their selection ranks.



UoA provides access to tertiary education for students who are under-represented by providing bonuses for students in specified schools, and bonuses for individuals in other schools.

The Aboriginal and Torres Strait Islander Employment Strategy aims to increase participation by offering employment opportunities and cadetships, and helps to retain and advance the University's Aboriginal and Torres Strait Islander staff through scholarships and professional development opportunities and activities.

In fact, the UoA has prioritised Aboriginal and Torres Strait Islander Education. The UoA is the smallest of the Go8 Universities with a modest Indigenous student enrolment and staff workforce. We

recognise that a more systematic approach is needed to 'Close the Gap' and improve Indigenous education outcomes. As such, we aim to be bold, outstanding and transformative. We have already acted upon a number key recommendations and initiatives:

- Implementing the Aboriginal and Torres Strait Islander Employment Strategy
- Redesignating a senior Aboriginal leadership role to Dean of Indigenous Education to provide strategic leadership
- Indigenising courses
- Recognising Indigenous knowledge in teaching and research
- Engaging with Indigenous communities to address major challenges in climate change, digital inclusion and health, and
- Encouraging Indigenous staff employment.

This strategy incorporates previous approaches and actions into one coherent direction and purpose, focusing on the following areas:

- Student Services
- Indigenous Employment and University Governance
- Teaching and Learning
- Research
- Human Resources
- Community Engagement, and
- International Outreach.

Tarrkarri Tirrka (Future Learning) is the UoA's Integrated Aboriginal and Torres Strait Islander Education Strategy promoting a University-wide approach to developing, implementing and evaluating recruitment, retention and curricula strategies to help increase the number of Indigenous students, faculty and staff. It focuses on student services, Indigenous employment and University governance, teaching and learning, research, human resources, community engagement and international outreach.

The Diversity and Inclusion Committee provides an interactive forum, at a Faculty level, for discussing, developing, implementing and disseminating best practice on diversity and inclusion issues for staff and students. The Associate Dean, Diversity and Inclusion, chairs this committee, and works to improve the Faculty's staff and student diversity. Diversity is broadly defined, and our immediate interest is, in terms of preparing women and members of Aboriginal and Torres Strait Islander communities in various areas and roles. The Associate Dean also oversees the inclusion of diverse groups into Faculties and the development of community cultural competency initiatives.

University Sustainability Plan

The UoA's sustainability journey began in 2006, establishing a University Sustainability Board, then the 'Ecoversity' program in 2008. The program's focus was to engage staff and students in a range of initiatives and to develop a campus culture of applied sustainable practices. Student engagement has been the biggest success of the program with events and activities well subscribed. The program has also established strong relationships within the higher education sector, State and local government agencies and regulators. A number of sustainability projects have been implemented to decrease energy consumption, increase recycling rates and improve water efficiency.

In 2013, *The Beacon of Enlightenment* took steps to embrace the State's innovation agenda and set out ambitious goals to increase collaborative research into sustainability issues. Subsequent

Operational Plans encouraged sustainable practices and the development of new reduction targets, prompting the University community to respond with enthusiasm. Right across the institution, commitment to a sustainable future is recognised and supported. Our journey will involve actively reducing emissions over time and engaging staff and students in collective action and common purpose to demonstrate best practice sustainability on campus.

Some of our other key achievements include:

- Launching the UoA's Campus Sustainability Plan, a \$14.4m plan that will begin our transition to low-carbon operations
- Engaging with tens of thousands of staff and students at more than 100 Ecoversity events
- Hosting more than 70 Ecoversity interns
- Being recognised through the ACTS Green Gown Awards:
 - Adelaide Sustainability Association - Student Engagement - Winner 2017
 - Schulz BMS Upgrade - Facilities & Services - Highly Commended 2017
 - Carbon Neutral Adelaide Partnership - Community - Highly Commended 2017
 - Dr Charlie Hargroves - Staff Achievement - Shortlisted 2017
 - Ecoversity Award program - Creating Impact - Shortlisted 2017
 - Ben Pike - Staff Achievement - Shortlisted 2016
 - Dan Conley - Student Achievement - Shortlisted 2016
 - Fair Trade Collective - Student Engagement - Shortlisted 2015
 - Jason Tran - Student Achievement - Shortlisted 2015
 - Bin Monsters Come Alive - Student Campaigns & Initiatives - Highly Commended 2013
- Providing \$40k of Ecoversity Award funding to 27 undergraduates to attend sustainability-related conferences and events in Australia and abroad
- Supporting more than 25 on-campus projects with \$600K of Green Project Funding
- Co-hosting OzHarvest community events, feeding more than 10,000 people with meals made of rescued ingredients
- Opening the Hub Central Edible Garden and Waite Community Garden
- Rolling out the *Kick ya Bin* recycling program to more than 2,500 staff, helping to increase recycling rates by more than 300%
- Installing 30kW solar systems on the Roseworthy Equine Centre and Vet School
- Recycling more than 100 tonnes of e-waste
- Achieving 45 Green Steps @ UoA graduates
- Re-housing more than 800 items through the Furniture Re-Use Program, saving University staff more than \$200k in new furniture costs and preventing 12 tonnes of landfill
- Sponsoring 22 students to attend the Fairly Educated Conference
- Installing water refill stations and more than 1,000 recycling bins on all campuses.

The University's plan (see below *Attachment 1- University Sustainability Plan 2017*) details a coordinated suite of University-wide projects that will help foster a cultural change towards long term, environmentally responsible decision-making, where sustainability is embedded into campus life. We have also included *Attachment 2 - Australian eChallenge Annual Report 2018* that responds to the idea that future employment options lie in entrepreneurial activity and innovation, rather than in traditional career paths. The Report outlines that building entrepreneurial capacity in individuals, organisations and governments can only lead to exciting developments in society, especially when they address our most urgent needs around, for example, climate change, social inequity, or scarce resources.



THE UNIVERSITY
of ADELAIDE

Campus Sustainability Plan

Foreword

Managing and responding to climate change is one of the most important challenges of our time.

As individuals, communities or organisations, we all have a responsibility to take sustainable action to ensure our world's resources, environment and climate can adequately support the needs of future generations. Effective action will be based on evidence and will need to adapt over time as new knowledge and technologies emerge.

As a world-leading research intensive higher education institution, the University of Adelaide understands the positive impact of new knowledge and innovation in all its forms. Further, as a publicly funded organisation conducting research in sustainability and environmental science, the community justifiably expects the University to lead by example. Our staff, students and graduates all have a role to play in the transformation of our campuses.

The Campus Sustainability Plan outlines the University of Adelaide's commitment over the next four years to transforming built environments and mobilising our community to reduce emissions and improve operational practices. The Plan revolves around three central themes: collaborate, inspire and transform to drive our low-carbon transition, recognising it will take effort on all three fronts over time to achieve our ambitions.

The Plan is a vision for sustainability on campus with strategies that link investment in facilities with staff and student engagement. The delivery of these strategies also support economic efficiencies and enhance the campus experience. The Plan contains the University's first coordinated suite of emission reduction projects that will begin the transition of our institution towards low carbon operations. As the founding partner of the State Government's Carbon Neutral Adelaide strategy, these projects demonstrate the University's commitment to South Australia's goal of achieving net zero emissions by 2050.

With foresight, commitment and collaboration, the University will make a contribution to the long term sustainability of our State. On behalf of the University of Adelaide, I'm honoured to present the Campus Sustainability Plan.



Bruce Lines
Chief Operating Officer

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Our journey

The University of Adelaide's sustainability journey began in 2006 with the establishment of a University Sustainability Board, followed by the creation of the 'Ecoversity' program in 2008.

The Ecoversity program's focus was to engage staff and students in a range of initiatives with an emphasis on developing a campus culture of applied sustainable practices. Student engagement has been the biggest success of the program with events and activities well subscribed. The program has also established strong relationships within the higher education sector, State and Local Government agencies and regulators. A number of sustainability projects have been implemented to decrease energy consumption, increase recycling rates and improve water efficiency.

The student body have been keenly involved in Ecoversity initiatives over the years, including recycling campaigns, installation of water refill and bike maintenance stations, cycling and Re-Use events, and publication of sustainable living guides. Staff in each Faculty have championed sustainability in a variety of ways with support from the Ecoversity program, including through participation in switch-off campaigns, night audits, water efficiency in laboratories, the Kick ya Bin recycling program, electronic and battery recycling.

The Green Project Fund has been a successful initiative for staff and students to deliver their own sustainability projects on campus. Green Projects have included composting technology at the Roseworthy Campus, development of a mobile App to engage students in recycling education, lighting upgrades, installation of edible gardens at North Terrace and Waite, sustainability campaigns for Technology Services and the Library, a textbook reuse program and the development of a sustainable event guide for students. The University has embraced the OzHarvest food rescue charity by hosting annual community events on the Goodman Lawns to promote the importance of reducing food waste. The University is also proud of its Fair Trade accreditation received in 2012.

Key achievements include:

- > 18% reduction in emissions per person on campus (2010-2014)
- > 31% reduction in potable water consumption at the North Terrace campus since 2012
- > 10% reduction in waste to landfill at the Roseworthy campus since 2012
- > 176% increase in recycling across all University campuses since 2011
- > 82% of students use low-carbon transport methods to travel to campus

The University's Strategic Plan 2013-2023, the Beacon of Enlightenment, took steps to embrace the State's innovation agenda and set out ambitious goals to increase collaborative research into sustainability issues. Subsequent Operational Plans encouraged sustainable practices and the development of new reduction targets, prompting the university community to respond with enthusiasm.

Right across the institution, commitment to a sustainable future is recognised and supported. Our journey will involve actively reducing emissions over time and engaging staff and students in collective action and common purpose to demonstrate best practice sustainability on campus.



Students at the North Terrace Campus using water refill stations.

Our journey

2006

- University Sustainability Board established

2008

- Environmental Project Officer position created
- Environmental Compliance Review

2009

- Sustainability Assessments
- Ecoversity program created
- National Ride to Work Day Award
- E-recycling Program established
- North Terrace Waste and Recycling Review

2010

- Public place recycling stations installed
- Carbon management and reporting tool implemented
- Waite and Roseworthy Waste and Recycling Review
- University Waste and Recycling Management Plan developed
- Ecorider Program
- Student Internship Program established
- Inkarni Wardli built – 6 Star Green Star
- Badger laboratory water efficiency upgrade

2011

- TravelSmart staff survey
- ACTS Green Gown Awards for student campaigns and initiatives
- EPA Sustainability License awarded
- Founding Partner of OzHarvest SA
- Energy Management Plan developed

2012

- Green Project Fund established
- Kick ya Bin (office recycling) pilot
- Inaugural Re-use event
- Fair Trade Accreditation
- Campus Walking and Cycling Guides developed
- Waite Integrated Water Management Plan developed
- Hosted the ACTS Conference
- Sustainable transport campaign
- 30kW Solar PV installed at Equine Centre

2013

- Sustainability review of The Village
- Kick ya Bin at North Terrace
- City Switch Program
- Adelaide Car Pool Program
- Highly commended ACTS Green Gown Award for student recycling initiative
- Inaugural Fair Trade Fortnight events
- Water Re-fill Stations installed at all campuses
- 'Feeding 5000' community event with OzHarvest SA

2014

- 30kW Solar PV installed at Vet School
- Hub Central Edible Garden opened
- Inaugural Green Steps @ Adelaide Training Program
- Furniture Re-use Pilot Program
- E-recycling community event with Apple
- Ecoleader Program at North Terrace
- Energy Efficiency on Campus campaign
- Inaugural 'Think.Eat.Save' community event with OzHarvest SA
- Strategy for a bike friendly campus
- Badger laboratory energy efficiency upgrade

2015

- 30kW Solar PV installed at Equine Centre
- Waite Community Garden opened
- Kick ya Bin at Waite
- Ecoleader Program at Waite
- Bike maintenance stations installed at North Terrace
- Hosted the Fairly Educated Conference

2016

- Founding Partner of Carbon Neutral Adelaide
- Campus Sustainability Plan developed
- Ecoversity Award scholarship established
- Public place organic recycling bins installed at North Terrace
- Battery and mobile phone recycling stations installed at all campuses
- Cycling Skills Program established
- Green Lab Review
- Davies building energy efficiency upgrade in collaboration with School of Agriculture, Food & Wine
- Green at Heart - World Environment Day Campaign
- SuperSort waste education gamification pilot

Our vision

As a global leader in higher education, the University of Adelaide recognises that climate change is one of the greatest tests of our time.

Our thriving campus communities, full of the brightest minds, are working in many ways to solve the multifaceted challenges that climate change brings to our world and way of life. The University's Campus Sustainability Plan demonstrates how economic, social and environmental goals can be achieved together. The Plan provides a vision for sustainable action on campus with strategies that link investment in campus facilities with staff and student engagement, to re-imagine resources, generate economic opportunities and enhance the university experience.

The Plan contains the University's first coordinated suite of emission reduction projects that will begin the transition of our institution towards low carbon operations.

The Intergovernmental Panel on Climate Change predicts a hotter and drier climate with more extreme weather events. These changing weather patterns will place greater demand on our hydraulic, electrical and mechanical infrastructure and will see campus buildings working harder, for longer. The next five years is a critical period for adaption to an increasingly unstable climate. As long-term owner-occupiers of three campuses, the University is in a good position to realise the full benefits of investment in new technologies and efficiencies over the life of each built asset. Campus infrastructure can also play an important role in the translation of research and teaching, further enhancing the value of investment.

Targets and strategies outlined in the Plan were derived in consultation with staff and students and are supported by recommendations originating from physical audits of buildings and grounds. Total investment in the plan is estimated at \$14.4M, including \$12.8M for low carbon technologies such as renewable energy.

FAST FACTS

The University of Adelaide was established in 1874 and is a member of the prestigious Group of Eight – a coalition of Australia's foremost research intensive universities.

The University constitutes a vibrant and diverse community with over 25,000 students and over 3,500 members of staff across three campuses.

The Waite campus is located seven kilometers from the Adelaide CBD and is home to the internationally renowned Waite Research Institute. The campus is the pre-eminent plant and agricultural science research site in the southern hemisphere, also specialising in viticulture, oenology, food science and nutrition.

The North Terrace campus is located in the heart of Adelaide and is the University's main campus. The historic sandstone buildings form a key part of the city's cultural promenade, and are surrounded by the Art Gallery, Museum and State Library. These buildings are interspersed with state-of-the-art teaching, learning and research facilities, manicured landscapes and sports grounds.

Roseworthy campus is located 50 kilometers north of the city. The campus boasts South Australia's only veterinary school and is renowned for excellence in dryland agriculture and animal production.

The University has five academic faculties and four administrative divisions which focus on discovering new knowledge, pursuing innovation and preparing leaders of tomorrow who are independent, creative thinkers with an international perspective.

TARGETS

- 15% reduction in energy intensity (GJ/GFA m2) by 2020 (2014 baseline)
- 2MW of renewable energy installed by 2020
- 50% landfill diversion rate by 2020
- 40% reduction in potable water intensity (kL/GFA m2) by 2020 (2014 baseline)
- 20% annual increase in participation in Ecoversity engagement activities (2015 baseline)
- 20% annual increase in participation in Ecoversity training and skill-based programs (2015 baseline)
- 10% annual increase in the procurement of 'sustainable and ethically sourced' office supplies (2015 baseline)



SUSTAINABILITY
PROJECTS SPAN
1,640
HECTARES
OF CAMPUS
BUILDINGS AND GROUNDS

Our strategy

The Campus Sustainability Plan revolves around three central themes of campus transformation, collaboration and inspiration to drive our low-carbon transition. It will take effort on all three fronts over time to achieve this vision.

Campus transformation: With a diverse range of building stock the University faces a number of infrastructure challenges as research activity grows and teaching practices innovate to better support student needs and technological expectations. These challenges also contribute to growing emissions as operating hours extend, demand for plug-in devices increase and as buildings are intensified to accommodate greater numbers of staff and students. Investment in low-carbon technologies such as on-campus energy generation and demand management, improved water efficiency and recycling facilities will provide long-term economic benefits, particularly as utility and service rates continue to increase. Through the Campus Sustainability Plan, our infrastructure will begin a low carbon transformation.

Collaboration: By collaborating with and harnessing the influence of leaders within faculties, schools and departments, the University can implement operational efficiencies and improved practices that demonstrate the University's sustainability values. Leaders will be supported with funding for pilot projects, information and resources including campus level reporting to track sustainability performance and celebrate successes. Collaborating with local leaders and partners that share our values is key to the success of the Plan, and individual effort will be recognised and rewarded.

Inspiration: Dissemination of shared sustainability goals, resources, information and campaigns will help mobilise collective action of our campus community to make small changes, every day. The student body will be motivated with sustainability skills and training, and funding opportunities for early career development. The Ecoversity program will inspire a new emphasis on the value of resources, wasting less, utilising new technologies and adopting sustainable practices.

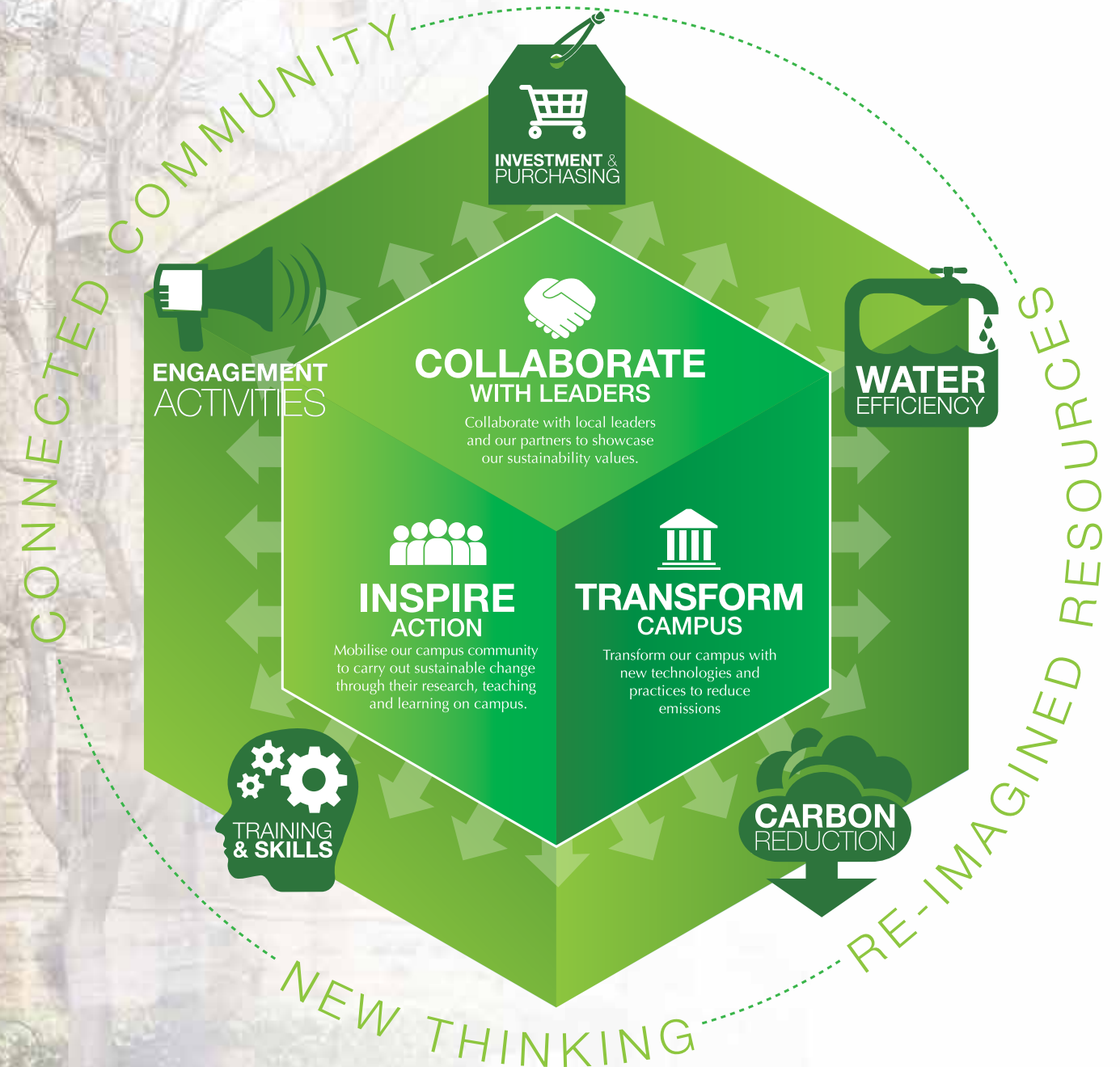
Our strategy has been designed to support the translation of new thinking from our brightest minds, to campus buildings and grounds. By placing greater value on our natural resources, and engaging staff and students in transparent target tracking and real-world learning opportunities, our community will become better connected under a shared vision of campus sustainability.

This strategy will be achieved through the delivery of thirty one sustainability initiatives, grouped into five streams of work:

- > carbon reduction
- > water efficiency
- > engagement activities
- > training and skills
- > investment and purchasing.

Implementation of each sustainability initiative will encompass the three central themes of collaboration, inspiration and transformation above, to ensure a coordinated approach of the greatest value.

OUR PLAN WILL SAVE
5,168t
CO₂e PER YEAR



TARGET	15% reduction in energy intensity (GJ/GFA m2) by 2020 (2014 baseline) 2MW of renewable energy installed by 2020 50% landfill diversion rate by 2020	40% reduction in potable water intensity (kL/ GFA m2) by 2020 (2014 baseline)	20% annual increase in participation in Ecoversity engagement activities (2015 baseline)	20% annual increase in participation in Ecoversity training and skill-based programs (2015 baseline)	10% annual increase in procurement of sustainable and ethically sourced office supplies on campus (2015 baseline)
STRATEGIES	Sustainable design and construction standards	Water efficiency retrofits	Resource monitoring	Ecoversity Award - student professional development	Sustainable investment
	Building performance rating system	Campus water management plans	Ecoversity building user guides	Ecoleader program	Sustainable procurement practices
	Renewable energy	Rainwater capture and reuse	Ecoversity excellence - staff and student recognition	Sustainability skills and training	Sustainable events
	Energy efficiency retrofits		Waste education	Ecoversity induction	Fair trade
	Kick ya Bin program		Ecoversity student living campaigns	Cycling skills and education	
	Public place recycling		Campus sustainability reporting	Ecoversity student position	
	Specialised recycling solutions		Ecoversity events	Internships for sustainability careers	
	Flight emission reduction		Green Project Fund		
			Environmental compliance and reporting		

Carbon reduction

ACTION

9,208
SOLAR PANELS
ON CAMPUS

Vet School Solar PV system - Roseworthy Campus

TARGETS

- 15% reduction in energy intensity (GJ/GFA m2) by 2020 (2014 baseline)
- 2MW of renewable energy installed by 2020
- 50% landfill diversion rate by 2020

Investing in low carbon technologies for campus buildings will help Schools and Faculties reduce operational expenses long-term.

Like many large institutions, the University's carbon inventory encompasses a range of emission sources. Currently the University captures information on scope 1 and 2 emissions for reporting purposes, with some scope 3 emission sources (flights and waste) accounted for. Purchased electricity and flight emissions make up a significant portion of the University's emission inventory.

The University reduced emissions by 18% per person between 2010 and 2014, occurring due to a reduction in energy emissions¹. This is a great achievement considering that during this time student numbers increased by 13% and research income grew by 20%. Part of this reduction can also be attributed to increased recycling rates at all campuses due to the introduction of the 'Kick ya Bin' program.

Since 2014, the University's carbon emissions have increased due to growth in air travel and new energy requirements related to greater operating hours, a rise in energy intensity to accommodate growing numbers of staff and students, and new teaching and research facilities such as the Adelaide Health and Medical Sciences building.

Eight carbon reduction strategies will aim to reduce the University's emission portfolio by approximately 5,168 tonnes of CO₂e annually. Many of these strategies will be implemented at the North Terrace Campus, contributing to the Carbon Neutral Adelaide initiative. Strategies include electricity demand management, on-campus energy generation, improved waste management, and investigation of initiatives to reduce and offset flights.

ACHIEVEMENT

18%
DECREASE IN
CO₂e PER
PERSON
ON CAMPUS

CARBON EMISSIONS CO₂e PROFILE (2015)

57.48%

PURCHASED ELECTRICITY

33.56%

FLIGHTS

2.69%

SYNTHETIC GASES

2.57%

NATURAL GAS

2.38%

WASTE

1.05%

TRANSPORT FUEL

0.28%

OTHER STATIONARY ENERGY

¹(FTE and EFTSL)

Sustainable design and construction of built environments

Ensure all new buildings and refurbishments consider environmental and financial lifecycles. All new projects will follow a set of building design and construction guidelines that specify sustainability considerations including best practice energy, waste and water efficiency.

Building performance rating system

Progressively assess, rate and promote building performance to identify opportunities, measure satisfaction and develop a competitive spirit to help drive sustainable behaviour.

Renewable energy

Install 2MW of solar PV technology across all campuses, including a ground mounted solar farm at the Roseworthy campus to reduce electricity consumption during peak demand and lower carbon emissions.

Energy efficiency retrofits

Refurbish campus buildings with more efficient mechanical and electrical systems (including air-conditioning, lights and sensors) considering asset lifecycle and potential savings from early replacement.

Kick ya Bin program

Expand the University's recycling program, 'Kick ya Bin' to all campuses to further improve recycling rates. Implement this program in conjunction with waste education for all building users.

Public place recycling

Improve recycling systems and practices at all food retail outlets and in public places on campus.

Specialised recycling solutions

Introduce recycling programs for specialised waste streams and activities on campus such as wine making, laboratories and accommodation sites. Evaluate the furniture recycling pilot program and investigate ongoing solutions.

Flight emission reduction

Investigate opportunities and technologies to support staff in avoiding flight travel, and consider carbon offset options for remaining flight emissions.

ACHIEVEMENT

ACTION



Students recycling food waste in Hub Central, North Terrace Campus.

Water efficiency



Ecoleader from the School of Agriculture, Food and Wine, Waite Campus

TARGET

40% reduction in potable water intensity (kL/GFA m2) by 2020 (2014 baseline)

As the driest state, in the driest inhabited continent in the world, water is a precious resource in Adelaide.

For many years the University has been working on reducing reliance on potable water by improving irrigation practices, utilising non-potable water sources and upgrading campus buildings with more efficient tapware. Since 2010, the North Terrace campus has reduced potable water consumption by 31% through the installation of new pipework to plumb recycled (GAP) water to irrigate gardens, lawns and sports ovals. An upgrade to plumbing systems in the Badger Laboratory in collaboration with the School of Physical Sciences in 2012 also helped contribute to the decrease.

At the Waite campus, the School of Agriculture, Food and Wine have championed water efficiency related to the irrigation of vineyards by successfully applying for Green Project Funding to install soil moisture sensing technology. This system is used by students to monitor and respond to the irrigation needs of the vines in real time in relation to weather events.

To further reduce potable water consumption, three key strategies will be employed to improve water management. Due to the nature of research and teaching activity on the Waite and Roseworthy grounds, these campuses will be the focus of projects to capture and reuse rain water for irrigation. The North Terrace campus will be the focus of retro-fits in bathrooms to improve efficiency. Installation of water sub-metering at each campus will help identify leaks in a timelier manner and will help measure the effectiveness of water efficiency strategies.

Campus water management plans

Develop campus specific water management plans to detail consumption patterns and outline efficiency activities, campaigns, initiatives and projects to ensure water efficiency efforts are maintained long-term. Campus water management plans will include a sub-metering strategy for each campus to allow for closer metering and monitoring.

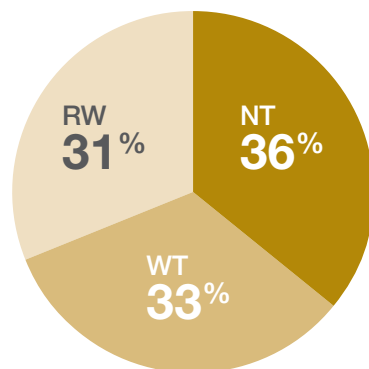
Rainwater capture and reuse

Expand existing rainwater capture and reuse systems at Waite and Roseworthy campuses to reduce consumption of potable water, particularly for irrigation requirements.

Water efficiency retrofits

Refurbish buildings with more efficient plumbing technology to reduce potable water consumption in busy areas such as bathrooms and kitchens.

CAMPUS POTABLE WATER CONSUMPTION SPLIT (2015)



ACHIEVEMENT

31%
DECREASE IN
MAINS WATER
USE AT NORTH TERRACE



Vineyards at the Waite Campus.

Engagement activities



Students event on the Barr Smith Lawns, North Terrace Campus.

TARGET

20% annual increase in participation in Ecoversity engagement activities (from a 2015 baseline)

The Ecoversity program has had great success in engaging our campus community in sustainability campaigns and initiatives.

Each year, students learn about Ecoversity through events and campaigns centered on the busy North Terrace campus. Open Day, Re-Use events, Careers Day, Ride to Uni Day and many more events provide an opportunity for students to learn and participate in sustainability initiatives. Half a million dollars of Green Project funding has been provided to staff and students for local sustainability pilots including organic recycling technology, edible gardens, lighting upgrades and office energy efficiency projects. The University has also won a national award and been highly commended for a fun and successful approach to student waste education.

By collaborating with leaders in schools and facilities, the University's sustainability values and goals can be shared and realised. New technology can achieve efficiencies however our collective action will bring the greatest value, and is key to the success of the Plan. Ecoversity events and resources will help inspire and mobilise our community to prompt sustainable change to everyday life on campus. Progress on targets will be reported regularly and information made available to celebrate achievements and target more effort if required.

The Campus Sustainability Plan aims to connect our community in new ways to rethink how we use resources, test innovative ideas and collaborate on projects to share benefits. As the founding partner of the Carbon Neutral Adelaide strategy, the University will connect and collaborate with partners that share similar values to support the ongoing prosperity of our City.

Resource monitoring	Distribute information about the University's carbon footprint and progress on sustainability targets to help staff and students understand consumption patterns and raise awareness about the importance of individual actions.
Ecoversity building user guides	Develop and promote Building User Guides for occupants to optimise building efficiency and comfort by providing information about control systems e.g. after-hours control settings, recycling systems and other related topics.
Ecoversity excellence – recognition	An annual award to recognise the outstanding effort, enthusiasm and positive action of individual staff and students towards the University's sustainability targets.
Waste education	Develop and deliver waste education programs for students to ensure correct recycling practices to avoid waste generation and maximise recycling rates. Provide tailored information to staff, incorporating information about e-recycling and battery recycling. Expand the popular Re-Use events to students at Roseworthy and Waite.
Ecoversity student living campaigns	Develop an education program for students focusing on sustainable living practices with specific campaigns related to energy use, water consumption, cycling to campus and recycling practices.
Campus sustainability reporting	Develop and promote campus-specific sustainability reports detailing the progress of sustainability targets, success stories and planning underway for new projects.
Ecoversity community events	Develop a series of coordinated events, campaigns and promotional activities across all campuses to disseminate sustainability messages incorporating 'how-to' workshops, newsletters and social media.
Green project fund	Continue to deliver the successful Green Project Fund to support locally led sustainability pilots. These projects are sized to test new technologies, support collaboration and demonstrate best practice sustainability on campus linked to teaching and research outcomes.
Environmental compliance and reporting	Implement systems, processes, policies and practices required to maintain the University's mandatory and voluntary environmental reporting requirements.

ACHIEVEMENTS



\$500k
INVESTED IN CAMPUS
SUSTAINABILITY
PROJECTS



100+
ECOVERSITY
EVENTS



Student Intern at an Edible Garden workshop, North Terrace Campus.

Training and skills



TARGET

- 20% annual increase in participation in Ecovercity training and skill-based programs (2015 baseline)

Creating a sustainable community requires individuals to have the knowledge, skills, values, capacity and motivation to respond to the complex sustainability issues they encounter in their personal and working lives.

The Campus Sustainability Plan will help cultivate young sustainability professionals by providing resources and opportunities for undergraduates to develop environmental awareness, critical thinking and problem solving in relation to sustainability. Effective communication skills, and emotional intelligence will be fostered through hands-on experience and internships.

Since 2010, 62 students from all faculties have been involved in sustainability internships through the Ecovercity program. Projects have included building energy benchmarking, energy and water efficiency, auditing, social media, waste education, event management and environmental policy and management.

The Ecovercity Award will provide funding for undergraduates to be inspired, deepen knowledge and build professional networks at sustainability related conferences. An extra-curricular sustainability training program focused on transferable skills and professional development will be delivered through the Ecovercity program, along with real-world project experience within the Infrastructure branch.

Linking our teaching and research to operations is the epitome of campus sustainability, spreading the value of investment right across the institution. Seven strategies will provide resources and funding for multidisciplinary career development for young sustainability professionals, and ensure our community is supported in practicing campus sustainability.

ACHIEVEMENT

62
ECOVERCITY
INTERNS

Ecoversity Award

Provide grant funding for undergraduate students from all faculties to attend extracurricular sustainability related conferences, workshops and events to support their undergraduate degrees establish networks and develop early professional development skills.

Ecoleader program

Deliver the Ecoleader Program for staff to provide resources and support for local sustainability representatives who want to lead sustainability initiatives.

Sustainability skills and training

Deliver a practical and interactive sustainability training program for undergraduate students that incorporates new knowledge, transferrable communication skills and professional development opportunities.

Ecoversity induction

Work with Human Resources to develop a component to the University's staff and contractor induction framework to convey sustainability expectations, targets and standards.
Participate in Orientation Week events to inform new students about campus sustainability, such as waste and recycling, Ecoversity programs, and end of trip facilities.

Cycling skills and education

Support staff and students choosing to cycle to campus through regular bike maintenance and cycle safety workshops.


Ecoversity student position

Create a part-time student position within the Infrastructure Branch to help deliver the University's sustainability strategies.

Internships for sustainability careers

Continue to provide opportunities for students from all faculties to undertake work experience and internships with the Infrastructure Branch to support delivery of the Campus Sustainability Plan.

ACHIEVEMENT


82%
OF STUDENTS
USE SUSTAINABLE
TRANSPORT
TO TRAVEL TO CAMPUS



Bike sheds at the North Terrace Campus.



Investment and purchasing

TARGET

10% annual increase in the procurement of 'sustainable and ethically sourced' office supplies on campus (2015 baseline)

As a University that prides itself on climate adaptation research and teaching, embedding sustainable investment and procurement considerations through our supply chain offers an opportunity to advance sustainability through the broader economy and align our academic pursuits.

The University will undertake a review of its current investment portfolio and develop a long term strategy that considers,

- > global trends in the low carbon economy,
- > ethical investments that support positive social change, and,
- > alignment with strategic focuses in our academic and research pursuits.

The strategy will also consider the University's ongoing legal and financial responsibilities into the future.

Individual staff and students can influence a more sustainable economy by making considered purchasing decisions, and a large majority of schools, faculties and departments already choose to purchase 100% recycled copy paper and stationery items made from recycled content. Strategies will focus on providing support through targeted information and resources for those responsible for planning campus events and purchasing office supplies.

The University was the first higher education institution in the state to achieve Fair Trade accreditation in 2012, and is proud to support the advancement of ethical purchasing by providing Fair Trade tea and coffee options on campus. The Ecoversity Program will continue its long association with the Fair Trade Collective (student club) who promote the broader benefits of Fair Trade, and support advancement of the movement on campus.

Ingkarni Wardli building, 6 star Green Star (design), North Terrace Campus.

Fair Trade Collective

Sustainable investment

Develop an investment strategy consistent with the University's commitment to environmental and social sustainability considering ongoing legal and financial responsibilities.

Sustainable procurement practices

Support sustainable procurement practices through the development of resources for staff, detailing preferred product choices and evidence of supplier sustainability credentials.

Fair Trade

Maintain the University's Fair Trade accreditation and support staff and students in ethical purchasing options on campus.

Sustainable events

Provide support to staff and students in event planning and management roles to improve the sustainability of campus events related to set-up, event merchandise, catering, waste and recycling, collateral and transport planning.

ACHIEVEMENT



Fair Trade Collective at O'Week event on the Maths Lawns, North Terrace Campus.

Governance, implementation and reporting

The University's Estate and Infrastructure Committee will oversee governance of the Campus Sustainability Plan.

The Estate and Infrastructure Committee provides advice to the University's Council on the development of all real estate and infrastructure strategy which underpins and facilitates objectives in teaching and research, taking account of overarching State and Federal government strategies.

The University's Infrastructure Branch will lead the delivery of the strategies in collaboration with local leaders situated in schools, faculties and departments. The Infrastructure Branch will also report to the Committee and the University community on the progression of strategies and targets. Under the University's Legal Compliance Framework, the Infrastructure Branch maintains the University's environmental legislative reporting requirements to a number of State and Federal regulators including the Clean Energy Regulator and the Environmental Protection Authority.

Glossary

ACTS - Australasian Campuses Towards Sustainability A non-profit member based organisation representing higher and further education institutions within Australia and New Zealand. www.acts.asn.au

Carbon Dioxide Equivalent CO₂-e
An internationally accepted measurement that encapsulates all greenhouse gases based on their global warming potential.

Carbon emissions The release of greenhouse gases and/or their precursors into the atmosphere over a specified area and period of time. The term greenhouse gas emissions is utilised interchangeably with the term carbon emissions.

Carbon Neutral Adelaide State Government initiative to make Adelaide the world's first carbon neutral city by 2025.

EFTSL Equivalent full-time student load.

FTE Full-time equivalent (relates to staff).

GAP water Glenelg to Adelaide Pipeline.

Greenhouse gas (GHG) emissions
The release of greenhouse gases, such as carbon dioxide, methane and nitrous oxide, into the atmosphere. The term carbon emissions is utilised interchangeably with the term greenhouse gas emissions.

Potable water Water supplied from the tap that is safe to drink or to use for food preparation without the risk of health problems.

Renewable energy Energy that comes from resources which are naturally replenished on a human timescale such as sunlight, wind, rain, tides, waves and geothermal heat.

Scope 1 Direct greenhouse gas emissions e.g. corporate fleet or on-site energy generation.

Scope 2 Indirect greenhouse gas emissions from the consumption of purchased electricity.

Scope 3 Other indirect greenhouse gas emissions that occur as a result of the University's activities, such as waste disposal, air travel, outsourced services and transmission losses.

Sustainable and ethically source office supplies All products classified as 'sustainable' by the university's office supplier – includes products with recycled content, recyclable products and products certified under Fair Trade, Rainforest Alliance and UTZ.

For further enquiries

Infrastructure
The University of Adelaide
SA 5005 Australia

Telephone: +61 8 8313 5871

Email: ecoversity@adelaide.edu.au



adelaide.edu.au/ecoversity



facebook.com/EcoversityUoA



instagram.com/ecoversityuoa

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THE UNIVERSITY
of ADELAIDE



The University of Adelaide presents

AUSTRALIAN **e**CHALLENGE ANNUAL REPORT 2018

adelaide.edu.au

MESSAGE FROM THE PRO VICE-CHANCELLOR (ENTREPRENEURSHIP)

At the end of 2018, we had even more reason than usual to celebrate – the eChallenge turned 18!

From the program's inception, we knew we had something special to offer not just students and budding entrepreneurs, but the community at large, and society as a whole. This is a program that generates creativity and ideas, encourages risk-taking and originality, and develops individuals' resilience and capacity to grow and build, both personally and professionally.

Whatever industry or field, the eChallenge responds to the idea that future employment options lie in entrepreneurial activity and innovation, rather than in traditional career paths. And building entrepreneurial capacity in individuals, organisations and governments can only lead to exciting developments in society, especially when they address our most urgent needs around, for example, climate change, social inequity, or scarce resources.

In 2018, we had a record number of teams participating across our regular program, as well as our Tech eChallenge and eChallenge France programs. In conjunction with Australian Wool Innovation, we were also delighted to once again offer the eChallenge Wool Innovation, and Tech eChallenge Wool Innovation programs – both of which produced an outstanding range of innovations with the potential to become commercial successes. Many of our innovations this year stemmed from research-based activity and specialised expertise. It was also exciting to see alumni attracting further funding and traction for their innovations beyond the eChallenge, once again proving that the program has a long-lasting impact on all those who choose to participate.

Regards
Prof Noel Lindsay
Pro Vice-Chancellor (Entrepreneurship) and
Dean, Adelaide Business School



MESSAGE FROM THE DIRECTOR

Building on the continued and growing success of the eChallenge and Tech eChallenge over the last 18 years, 2019 will bring yet another step change.

In addition to even more specialised categories, plans are under way to expand further, reaching a wider variety of participants and expanding geographically by offering the eChallenge in more locations. While advancing access beyond the communities we are currently serving, such growth will also offer all of our participants ever greater opportunities to go global, and to collaborate and learn without State or National borders.

Importantly, we look forward to continuing and growing our highly valued business and community partnerships locally and internationally. It is through collaboration that we can have the greatest impact and make a real difference to growing entrepreneurial mindsets and skills across the community.

Regards
Prof Carolin Plewa
Director, Entrepreneurship, Commercialisation and
Innovation Centre



THE ENTREPRENEURSHIP, COMMERCIALISATION AND INNOVATION CENTRE

The Entrepreneurship, Commercialisation and Innovation Centre (ECIC) is the powerhouse of the University's entrepreneurial degrees and courses.

All programs lay a strong foundation for thinkers and creators by equipping them with the skills, knowledge and capabilities required to pursue ideas and opportunities.

Students have access to world-leading local and international expertise, gain hands-on experience and the opportunity to create and develop real world projects, and develop the entrepreneurial capacity applicable to any industry or career.

Our flagship program, the Australian eChallenge, is an experiential educational program that teaches participants to create, develop, assess and action their ideas, and provides all the tools, interaction opportunities and mentorship needed to cultivate entrepreneurial capacity. The focus of this program is on business innovation, building robust entrepreneurial teams, and rapidly prototyping and testing in the market.



The Australian eChallenge Awards Dinner recognises the achievements of all students across all programs and categories, including:

- Australian eChallenge: Tertiary
- Australian eChallenge: Schools
- Australian eChallenge Wool Innovation
- Australian eChallenge: Climate Response
- Australian eChallenge: Medical Innovations
- Australian Tech eChallenge
- Australian Tech eChallenge Wool Innovation
- Australian eChallenge: France



KEY CATEGORY SPONSOR

AUSTRALIAN WOOL

INNOVATION

AWI is a not-for-profit company that invests in R&D and marketing to increase the long-term profitability of Australian woolgrowers.

Based in Sydney, we have offices in key markets around the world to help us increase the global demand and market access for Australian wool. AWI is responsible for delivering research, development and marketing for the Australian wool industry.

The company is owned by more than 24,000 Australian wool levy payers who have registered as AWI shareholders. AWI was established in 2001 by the Australian Federal Government and wool industry as the Australian wool industry's rural Research and Development Corporation (RDC). AWI is one of 15 rural RDCs for specific rural industries.

AWI's mission

is to make strategically targeted investments to:

1. enhance the profitability, international competitiveness and sustainability of the Australian wool industry; and
2. increase demand and market access for Australian wool.

AWI's vision

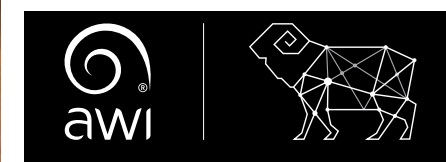
is for it to be a highly valued contributor to a vibrant, profitable and sustainable Australian wool industry.

"Australian Wool Innovation is committed to fostering and supporting innovation in the wool industry. The eChallenge is an ideal program to do this by successfully attracting technology innovators to the wool industry. We are delighted to support this program and its participants."

Australian Wool Innovation CEO
Stuart McCullough

AWI's goal

is to increase the profitability, and support the sustainability of Australian wool industry through strategically targeted investments in research, development and marketing designed to optimise return on investment. In working towards this goal AWI always strives to deliver an appropriate return on woolgrowers.



Sponsors

Key Category



Gold sponsors



Silver sponsors



Bronze Sponsors



Prize Sponsors



Engagement Sponsor



TOTAL PRIZE POOL

\$209,914

TERTIARY PRIZE POOL

First Prize	\$20,990
\$10,000	Cash
\$1,500	Pitch Perfection half-day workshop from Persuasive Presentations.
\$1,000	Consulting from Madderns Patent and Trade Mark Attorneys.
\$3,000	ThinLab package (Includes a Hot Desk one day per week for 12 months, Accelerator workshops, \$150 prototyping credit with our 3D printing studio, and \$650 credit towards a marketing plan.)
\$5490	Three month professional coaching with Top Gun Business Academy

Second Prize	\$10,174
\$5,000	Cash
\$1,000	Consulting from Madderns Patent and Trade Mark Attorneys.
\$380	Two-hour presentation skills coaching from Persuasive Presentations.
\$3,000	ThinLab package (Includes a Hot Desk one day per week for 12 months, Accelerator workshops, \$150 prototyping credit with our 3D printing studio, and \$650 credit towards a marketing plan.)
\$794	Two month online coaching with Top Gun Business Academy

Third Prize	\$5,000
\$2,000	Cash
\$3,000	ThinLab package (Includes a Hot Desk one day per week for 12 months, Accelerator workshops, \$150 prototyping credit with our 3D printing studio, and \$650 credit towards a marketing plan.)

A Day@Microsoft	\$10,000
Includes an overview of Microsoft and the major trends in the IT sector; an overview of the Microsoft Academy for College Hires, information on Imagine Cup and Protégé competition, information about the Microsoft Innovation Centre South Australia, and an opportunity to present your business idea to the Microsoft for feedback and suggestions.	

People's Choice Prize	\$1,000 cash
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Spruik Digital Prize	\$5,000
Digital marketing consulting including digital strategy, Google Advertising and social media.	

Enabled Solutions Prize	\$10,000
Digital product consulting to lift the winner's concept to the next level.	

Vroom Award	\$5,000
Consulting services from Vroom and Associates.	

AUSTRALIAN ECHALLENGE CATEGORY PRIZE POOL

Wool Innovation 1st Prize	\$10,000 cash
Wool Innovation 2nd Prize	\$3,000 cash
Wool Innovation 3rd Prize	\$2,000 cash
Climate Response Prize	\$10,000 cash
Medical Innovations Prize	\$10,000 cash

AUSTRALIAN ECHALLENGE IN SCHOOLS PRIZE POOL

Schools 1st Prize	\$5,000 cash
Schools 2nd Prize	\$2,500 cash
Schools 3rd Prize	\$1,500 cash
Schools Regional prize	\$500 cash
ECIC Encouragement Award	\$500 cash
Leaver & Son Encouragement Award	\$250 cash
A Day@Microsoft	\$10,000

Includes an overview of Microsoft and the major trends in the IT sector; an overview of the Microsoft Academy for College Hires, information on Imagine Cup and Protégé competition, information about the Microsoft Innovation Centre South Australia, and an opportunity to present your business idea to the Microsoft for feedback and suggestions.

AUSTRALIAN ECHALLENGE FRANCE PRIZE POOL

French eChallenge 1st Prize	\$46,000
\$10,000	Cash
\$36,000	One year desk space for up to three people in the ECIC inner city incubator, ThinLab, in South Australia and consulting and mentoring from South Australian business professionals.

French eChallenge 2nd Prize	\$5,000 cash
French eChallenge 3rd Prize	\$2,000 cash
French eChallenge Best App	\$5,000 cash

ThinLab Chalons Prize 1	\$5,000
Includes two workstations in ThinLab Chalons-en-Champagne for six months plus mentoring	

ThinLab Chalons Prize 2	\$5,000
Includes two workstations in ThinLab Chalons-en-Champagne for six months plus mentoring	

TECH ECHALLENGE AND TECH ECHALLENGE WOOL INNOVATION PRIZE POOL

Tech eChallenge 1st Prize	\$10,000 cash
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Tech eChallenge Wool Innovation 1st Prize	\$10,000 cash
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Tech eChallenge Wool Innovation 2nd Prize	\$3,000 cash
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Tech eChallenge Wool Innovation 3rd Prize	\$2,000 cash
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AUSTRALIAN eCHALLENGE TERTIARY TEAMS



The Tertiary category is the broadest category in the eChallenge. Students from any tertiary institute across the state, from any study level, are eligible to enter this category.

The aim is to develop an innovation for any industry in any form. Consequently, the innovations in this category are wide-ranging: from virtual reality applications to nutritional supplements, and social inclusion platforms to high performance tracking devices.

Australian Fractional Exchange

Alex Sibree, Jack Moran, Matt Seymour and Lucas Sargent



The Australian Fractional Exchange (AFX) is a digital exchange that enables people to trade tokens that represent real property. It unlocks the power of the real estate market and the benefits of home ownership for Australians who are currently missing out.

On the AFX:

- Older Australians gain access to their hard-earned nest eggs while still having the absolute right to live in their property.
- First Home Buyers get into the market and pay down the capital in their home at their convenience.
- Investors gain access to a diverse portfolio of managed, hassle-free income streams with an interest in the capital appreciation of the underlying property.
- All Australians benefit from improved liquidity of their real estate assets.

When a property is added to our highly secure, blockchain-backed platform, its owner is issued with 10,000 tokens. Each token represents a right to receive income from the property as a percentage of its value,

as well as a right to receive a portion of it should it be sold. The tokens are backed by a mortgage over the underlying property. Find out more and look into listing your property at www.afx.exchange

Agronomy Mate

Tony Hoare



An App for mobile devices that allows winegrape growers to generate their own fertiliser recommendations and order from their phone or tablet. It will allow nutritional analysis to be processed by the App and calculate rates of nutritional amendments. A range of fertiliser options will then be offered with costings for the grower to then order fertiliser directly from their handheld device. The App will provide alerts to growers of nutritional deficiencies prior to key vine growth stages to allow the grower to amend with nutritional supplements and avoid yield and quality loss (\$).

Currently, most growers pay a local farm product retailer to take samples for the nutritional analysis, interpret the results and then sell them the fertilisers which they have recommended. Not exactly independent advice!

alphablock

Shlomo Sverdlov, Rixu Tu and Guoyang Sun



Alphablock is a simple securitisation platform allowing individuals around the world to participate in the global capital markets and provide liquidity to illiquid assets such as real-estate, venture funds and other highly valuable but currently illiquid markets. We are providing a platform that allows entrepreneurs to access liquidity necessary to grow a business and for investors to unlock once hardly accessible markets.

ARMadillo

Amirhosein Amin Kianoush and Fouzhan Amin Kianoush



How many people do you think are a member of a gym but do not use their membership often and end up paying the monthly fee without using the gym enough? We are thinking of making a mobile app that connects clients to gyms. The app provides the user with a fee for one visit at a particular gym/or few different gyms with different fees based on user's demand. This way gym clients pay per visit, and potentially gym owners do not need to pay big franchise fees. They are getting an extra customer base from our app

Band at Hand

Ned Carthy, Ben Smith and Zac Turnbull



Although the Band at Hand team are not rock stars we are avid music lovers and have friends who are singers, members of bands or aspiring DJs. A problem we have identified is that these bands, DJs and pub singers alike are always hungry for more gigs. It is difficult for these aspiring young talents to get regular shows and performances and rather difficult to source these local legends for private functions. It was discovered that there were no current apps which allow you to hire a singer for your pub, a band for you wedding or a DJ for your birthday party. We have an app that can be a medium for everyday people to source and hire the musically gifted for their events/organisations. Through this, the artists can easily source work whether it be a recreational hobby on the weekend or event exposure to help propel their career in the music industry. The proposed app would allow a simple platform on which artists can advertise their musical talents, availabilities and location. This allows for users who wish to hire a local talent for a given occasion a simple way to get the vibes they need at the touch of a button.

Bellr

Mitchell Stapleton-Coory and Matthew Giorgio



Bellr is a CRM for venues. We provide an end-to-end digital marketing solution for brick and mortar venues within the hospitality industry. The Bellr technology encompasses three pillars of functionality: Discovery, Retention and Insights.

Discovery: Venues can use our discovery function to dynamically market their products and services within a cashless marketplace, in order to increase exposure and drive foot traffic at off-peak times.

Retention: Our retention function enables venues to retain quality customers through the provision of white-labelled rewards programs.

Insights: Our insights function provides detailed analytics about consumer behaviour, including traction and revenue metrics, and demographic data. This information is fed back to venue admins, enabling them to make more effective marketing decisions as they progress.

As technology continues to encroach on the vibrancy of our culture, Bellr is here to get you off the couch and back into the world. Give your venue a voice!

BioBox

Angus Gebhardt, George Spyrou, Jonathon Williams, Paul Dally and Samuel Hutton



BioBox is a re-usable food container that can be presented at take-away restaurants to be filled with food, eliminating the plastic waste produced by the disposable take-away containers provided by take-away restaurants currently. Utilising the power of the consumer in a demand-driven market, BioBox encourages restaurants to act in an environmentally friendly manner and saves them money whilst doing so. BioBox is made from eco-friendly, sustainably sourced materials in order to further minimise the effect on our planet.

Cannabinoid Therapeutics PTY LTD

Benjamin Lee McGorm and Alex James Clare



Cannabinoid Therapeutics PTY LTD is an Australian formed medical cannabis company. Formed in 2017 by co-founders Benjamin McGorm and Alex Clare, Cannabinoid Therapeutics will fill a well-publicised and identified gap in the emerging global cannabis marketplace by cultivating and selling extracted cannabis products, including raw cannabis flowers and cannabis oil, to established international Licensed Producers of cannabis products, Australian pharmaceutical companies and directly to Australian consumers. We are detail orientated and passionate about phytology. Our focus is on science-based cultivation and cannabis cultivar breeding, creating new cultivars for specific segments of the market, and whole plant extracts – why change the way nature and human biology work?

With international cannabis cultivation experience, a highly prestigious and qualified team of advisors, a strategic partnership with Canadian ACMPR licenced cannabis extraction company, Token Naturals, Cannabinoid Therapeutics has the experience, knowledge and tools to execute and deliver our business plan, becoming a multi-million dollar company within three years.

Changer

Michael Murdoch, Alex Cross and Belinda Zhuoran



Changer is about enhancing cycling skills, convenience and improved cycling performance. Changer will address the challenges faced by cyclists when selecting the appropriate gear ratio.

Traditionally, cyclists would use instinct and perceived effort to make the right gear selection. In a sport evolving with new technological advancements, electronic gear changing, biometrics and on-board computers with GPS has increased the

information available to the athlete, but this has not simplified the experience.

Changer will use currently available biometric and GPS data with advanced algorithms to make gear changes independent of the user to achieve optimal output for any riding condition. The process will increase pedaling efficiency, leading to greater performance and greater personal achievements without any change in fitness or equipment.

CLAD Co

Chang Yii Bong, Douglas Sia, Lam Nam Hoang and Lau Kean Hon



Feeling lost after you just graduated? Still looking for a job? Also looking for a partner and no luck on tinder? Then JWB is for you to kick off your new journey. It's like a dating app helping employers to find potential employees. Jobs with Benefits provides fresh graduates with more ways to find jobs, all done online. Create your own profile that contains your academic achievements, allowing employers to ‘match’ with you. Once you’ve found a match, you can directly message each other and setup a meeting just like Tinder. A pool of applicant profiles will be presented to the employer which will be matched if the employer swiped right or vice versa.

Stop sending your resume around. Just create a profile and wait for it. Who knows your luck starts from here finding a job and maybe a partner. Try it Out!

Coaches Box

Zac Radbone, Ben Tolliday and Neil Pahuja



Sports technology is an ever-changing space, and as a result competition is high and the consumers’ marginal utility to substitute away from products based on price and features is higher than it has ever been before. Sporting clubs around the world are looking for a competitive edge over their opponents to assert their dominance within leagues. The gap between elite and amateur sport is closing, and companies around the world have been attempting to capitalise on this market opportunity for the better half of a couple of years. Coaches Box is a technical solution that captures the sporting journey of children, sporting clubs and associations. We allow people to record stats on any device, link in with wearables, follow their team and as a result capture their full sporting journey, as opposed to what is captured now, which are bits and pieces. Evidently, the Coaches Box team has identified this and has come up with a clear and viable strategy which we believe will enable us to establish a serious presence within the sports technology market. Coaches Box – where the game begins.

Crash Call

Emily Squires, Kieran Hunt and Adam Kitto



Crash Call will call when you can’t. Road vehicle related injuries are the leading cause of death for people aged between 15-29 years (WHO). Our team, consisting of Adam Kitto, Kieran Hunt and Emily Squires, is developing a device that will instantly contact the emergency services after a crash. The emergency services will be able to speak to the victims, view what happened, know the exact location of the incident and be provided with the precise forces the car experienced in order to better understand the situation before arriving at the panicked scene. Our motive is to create a peace of mind for families and communities in both urban and rural areas.

Densified

Jake Bott, Jarred McEvoy and Rachael Sia



Densified is creating a compact, modular garden to make home-grown vegetables and other plants available to people with limited space and time, while also creating a social environment to share in each other’s gardening successes. Users will be able to connect to the garden from their phone, check up on how growth is progressing in real time using a range of sensors, and share photos and statistics to various social media platforms.

Add-ons will also be available for the garden, for example, if you don’t have water or power available on your balcony, you can add a solar panel and water tank for a system that will operate anywhere with no modifications required. This makes it perfect for people renting apartments. It can also give feedback and advice to inexperienced gardeners and guide them towards successful gardening. The system is perfect for the environmentally aware too, utilising recycled materials as well as helping to reduce the environmental impacts from long-distance transport of food.

Dine

Thomas Nicholls and Lewis McCluskey



Dine is a mobile application that allows users to search for venues, book tables, order food for pickup or directly to their table, earn rewards and pay for their meals. Users sign in with their facebook login and link their credit/debit card to their account. They can browse places to eat out and narrow their search using subjects such as type of cuisine, location, price, etc. They are able to then book a table, once at the restaurant they can order from the table at their own pace. They can request table service and once they are done, simply get up and walk out with the payment being processed automatically.



Users receive rewards points on each purchase that they can then use to pay for future transactions on the app, and can earn more points for referrals.

Environm-EAT

Ameen Bou Diab, Kaitlyn Paige Bayly and Nicolas Gonzalez Bayona



One of the most significant problems facing society worldwide is food waste. Around the world, 1.3 billion tonnes per year of food produced for humans is wasted, that estimate represents one-third of the global food production (Food and Agriculture Organization of the United Nations, 2018). Furthermore, the impact generated by this dilemma is not only economic but also has vast social and environmental connotations (Papargyropoulou et al., 2014). Part of the problem lies in the inefficient production chain that currently governs the market, even though many methods have been developed to manage waste, few of them aims to avoid its generation.

This project endeavours to improve the efficiency of the Food Supply Chain (FSC) by developing a technological platform that allows consumers to remotely access a low-cost market made up of products with a reduced price but premium quality from restaurants, shops and supermarkets whose due date is near.

ePower

Jiawen Zhang, Jiacheng Ju, Tianfei Lyu, Rongman Zhu, Yicheng Peng and Chenghui Liu



Nowadays smart phones and tablets play vital role in people’s daily life. However, due to the technical limitations of the battery, the power runs out quickly. Furthermore, charging the battery is quite a time-consuming chore, and it is difficult to find a charger in a public area. Our team is aiming to provide a solution that allows people to charge their phone anywhere and anytime as they wish. No more battery panic.

ESTE

Ella Persse



We are a cosmetic-tech company looking to revolutionise the way we shop for cosmetics through the use of waste-free systems. We believe in sustainability, the inclusivity of all skin tones and fair treatment of animals in our approach, which many companies often neglect.

EzyHome

Annika Grenfell, Sharleen Jones, Tate-Narija Milner, Adam Sedgley and Sam Whalley



EzyHome bridges the gap between the prospective homeowner and their dream home. This is done by streamlining the process between design and construction, bypassing the time consuming process that most individuals go

through. Our interface allows users to easily determine the cost of their proposed home, as well as identify all relevant development and environmental regulations.

FitMe

Marco Pozzan, Amalie Raae Hoeybye, Klaudia Wrona, Lauren Schildkamp, Pia-Marie Heep and Pernille Merrild



FitMe is a styling app that helps you decide what to wear on a day-to-day basis. Its two main functions are: to save time by matching your outfits and to provide expert fashion assistance. The consumer will input photos of their clothing, as well specify their body measurements. The app will incorporate algorithms based on the above and will prosper through smart learning. As you update your wardrobe, plan different events and ‘like’ the latest trends, FitMe will pick up on your consumption habits and dress or advise you accordingly. The app will act as a personalised, friendly tool that suits you as an individual therefore you have the control over outfits you wish to save, discard or change.

Fresca

Nehal Jain, Parika Verma and Zoha Kazmi



Fresca is an app that helps foodies explore new and exciting places to eat, whilst simultaneously connecting them with others who share the same interests.

How does it work? It’s simple, users of the app first set a time and location (this can

be as specific or broad as they wish) and are then able to ‘swipe’ left or right to cafes, restaurants, bistros and bars within the area. Users judge each eatery based on photos that showcase the food, interior, and overall ambience of the place. Once the location has been decided, users can connect with individuals who are planning to visit the same place within the next few days. This app is ideal for people who travel often and would like to connect with locals, learn about new cultures and cuisines.

Gastro-Analyser

George Addae and Enyo Agbodo

The Gastro-Analyser provides an efficient way of combining imaging and data sensing by an ingestible pill passing throughout the human Gastrointestinal Tract (GUT) and analysing the information by Feedback Control System concepts. It provides a unique insight into optimum tolerance levels of various ingested food/fluid substances, by monitoring and controlling the condition, behaviour and performance of the GUT in average healthy humans, thus enabling individuals to make informed decisions on the health of their GUT. The project will discuss Bowel Cancer.



Get Out!

Charmaine Fulton and Lily Fulton

The Get Out! App - Social Media and Social Search Engine combined.



One thing that social media apps has taught us, is that people love to post food pics, selfies and check-ins at cool places.

The Get Out! app is a global social search engine that not only embraces the favourite past time of social media, but is a unique and clever marketing platform that aligns businesses with their target market without the constant bombardment of annoying ads or compromised data collection. The Get Out! app gives businesses an opportunity to promote their business over multiple pages like a website. We call them app-sites. A home/gallery page, an information page, and a gig/event guide, the Get Out! app is the ultimate advertising platform for bars, zip lining adventures, cellar doors, horse riding, pubs, hot air ballooning, restaurants and any other business that gets people off the couch and out, enjoying life.

Kitchu

Luke Spajic

Welcome to Kitchu. We believe in a lifestyle that works with, not against, the planet. Our mission is to establish a community-based platform that encourages and enables others to join us in this cause. We want to create a service that empowers people to make environmentally conscious everyday decisions. To do so, we are making a peer-to-peer marketplace for homemade vegan takeout. This will allow anybody who is passionate about cooking to sell their food and will increase the availability and convenience of cheap, tasty plant-based food options.

Although structured as a business, this is a non-profit. All profits, after allowing for reinvestment into Kitchu for the purpose of refining and scaling, will be donated to relevant and effective charities or non-profits at the selection of the customer.



K'iungo care

Albert Ruiz Vargas, Ashwin Jeyakar Dhanasekaran, John MacLean, Shiyu Ma and Timothy Rudd



Respite care is an essential part of aged care service provision, enabling older people to stay in their own homes for longer and to transition to residential aged care when it becomes necessary. However major bottlenecks impede flow from hospital to these facilities. According to a report by Carers Australia (2018, ‘Improving access to aged residential respite care’.), key issues include high demand, low awareness, high care needs of the patients and affordability.

K’uingo care aims to create a new platform to connect clients with healthcare providers to reduce the demands on healthcare system and increase access to much needed services for clients. K’iungo care will provide improved accessibility to respite by serving as a liaison providing easier access to the help they need in terms of awareness, availability and care at an affordable and comfortable cost

KNQR

Nick Rutten



A social enterprise, web platform and brand that inspires, encourages and supports people to follow their dreams and never give up. Our tag line is ‘share to inspire’ – that is exactly what we do – we share stories of individuals to inspire others. A developed community of resilient individuals created from a common courageous fabric.

Our mission is to inspire generations through the sharing of personal stories of triumph

and achievement. Our vision is to spread optimism contagiously, instil hope and promote the courage to pursue your passion. Established in and trading since 2015, head to www.knqr.com.au for more information.

linearlocksets

Thuan Nguyen



We offer a modern innovation of door furniture (door handles and locks) which operates intuitively by a push or pull locking mechanism instead of the conventional twisting operation. Our designs and mechanisms allow for less parts (50% less materials) and less work (90% better efficiency) to operate. Our novel product also assists people with a disability or physical impairments to access their own homes and regain a sense of privacy and dignity. There are currently very few novel products in door furniture that offers an ergonomic, valueable and affordable alternative to the conventional door handle..

My Holiday Budget

Sarah Farrant and Rachel Bussenschutt



The family unit is sacred and we believe the family holiday deserves more. Holiday Makers is changing the way families holiday... for the better!

Logistics and project management (shows, activities, tours, food and drinks) should never be synonymous with a holiday. How about removing this from your stay? Now, imagine a holiday that is truly about relaxing and connecting.

Our tech will help you order a snack from the comfort of your sun lounge and have it effortlessly find its way to you...without you even moving. It will also schedule and remind you about resort events and keep you on budget with our spend alerts. Want to go to yoga at 7am each morning or perhaps meet some people for tennis or golf at 9am? Not a problem with our set and forget feature...we’ll remind you. Now, that’s a holiday changed for the better!

One Percent (1%)

Fengyi Ding (Simon), Yating Yu (Jaslyn) and Haolin Liao (Larry)



Currently, mobile-electronic devices, such as mobile phones, iPads and smart watches, are essential to our daily life. However, it is a common issue that there is no place to recharge mobile devices when they run out of power in most public area. Also it might be inconvenient for people to stay and wait for their devices to be charged due to the long charging time. Our team proposes to solve this issue in economic and convenient approaches by establishing the mobile power bank sharing network.

OnSale

Md Zaidul Alam, Naiyer Fatema Khanom and Rohit Kumar



Often when we go for shopping, sometimes market discounts get more preference than the brand in the case of similar products. It is always a great deal to get the right product from the right shop when many other competitors are providing the same product on a sale price. We are proposing a mobile app which will show all the available discounts and on sale products on a map. Shop owners will update their current on sale and discount products and shoppers will be easily able to find out the discounted or on sale products easily by this app. This app will also allow the small business owners to attract new customers by broadcasting their on sale prices. Users will also be able to share current on sale updates on the app so that shoppers nearby can easily find it out. Initial app will be released for iPhone and then potentially expand to other platforms.

Passion Australia

Allyssa Kapitoulou and Anthony Fung



Passion Australia is a website which provides information for South Australians wishing to explore local learning pathways and extracurricular opportunities. Our goal is to enhance the employability and higher educational experiences of young people. The website provides information on career tracks; education/training programs offered by universities, TAFE and other providers; testimonials from successful south Australian professionals, including both people who have attended university and those who have pursued other pathways; extracurricular/volunteering activities; networking events, career fairs and industry expos; work experience and internships; graduate programs/cadetships; and scholarships. Pick a learning pathway that complements your strengths, not one that hides them.

PDTech

Anas Al-Shamleh, Mark Gardner, Sam Koopowitz, Vicki Thomson and Wanqi Jady Wang



PDTech is an app that detects, surveys and securely communicates data about the physical, mental and emotional symptoms of Parkinson’s disease, for real-time symptom mitigation, short-term monitoring of medication efficiency by carers and specialists, and long-term development of machine learning algorithms for recommended changes in medication. Our aim is to empower Parkinson’s disease patients to be an active participant in their own treatment plans.

Pinnacle

Sam Darvish, Mohammad Hassan Khan and Benjamin Tuckey



Pinnacle is a device that measures elements in the body that lead to non-incidental soft tissue injury. Pinnacle interprets the data and provides the user real-time information, indicating the optimum zone for continued effort whilst mitigating the risk of injury.

PlanE

Qinxin (Amy) Yu and Zhenkun (Julian) Zheng



The mission of PlanE is to improve environmental sustainability in airports and reduce the operational costs for airlines and training institutions around the world through implementing state-of-the-art light aircrafts powered fully by electricity (Electric Planes). PlanE provides fleet upgrade consulting, project finance and business planning for our clients including airports, airlines and pilot training schools to minimise their aviation fuel consumption and maximise their energy efficacy and profits margin.

We form partnerships and work with various electric aircraft manufacturers to negotiate optimum deals for our clients, hence their payback periods can be shortened. To smoothen the transition from using traditional airplanes to utilising electric planes, PlanE offers operational advisory service package at a competitive price. PlanE prepares the aviation industry for a greener, smarter and more sustainable future.

PowerMove

Victor Gebarski and Qianyi Lu



PowerMove.co is a fitness related business which produces both supplements and education to really help people reach their health goals. Founded by two elite sports people, we want to change the way people better themselves. With innovative products, marketing and vision we are looking to take a massive bite out of the fitness industry.

QTONIC

Aidan Rigoni, James Kartika and Jesse Cordoma



Through the use of the latest developments in product packaging and user engagement platforms, QTONIC aims to make creating and mixing your own cocktail at home simple, easy and fun via the use of individual pods. QTONIC mixes cocktails for the customer. It allows consumers to experiment with different types of drinks and obtain cocktail inspiration from user generated ideas in a simple and straightforward ecosystem. Whether you are a first timer at



cocktail making or an expert mixologist, you can make bar quality cocktails on demand with QTONIC.

Reapply Hub

Foad Farivar

Reapply Hub is a web platform for researchers to share and/or sell developed method implementations to their peers and companies. Re-developing similar methods is a huge waste of time and a valuable resource in most research studies. Reapply Hub will help researchers to have access to implementation of the methods in published works, and it will allow users to test, validate and rate them.



Recibo

Jeremy Bayly

Recibo has discovered an innovative way to provide customers with a digital receipt at the point of sale. During the sales transaction, a digital receipt is instantly transferred to the Recibo app on the customer’s phone. Recibo users will no longer worry about lost or fading receipts with all receipts easily accessible via the user’s Recibo account. Receipts will be easily organised using a number of ‘tags’, allowing Recibo users to quickly find a particular receipt. This is perfect for when a receipt is required for returns. It will also make tax time a breeze with all receipts stored, organised and readily available on the user’s device. Recibo’s paperless receipts also benefit the environment and provide cost savings for businesses whilst easily integrating into current point of sales systems.



ReserveMe

Tang Yi and Ver-Non Lee

ReserveMe is an internet service and mobile application that provides students living in student accommodations to have an easier method of reserving accommodation facilities. The services are divided into three main parts. Firstly the laundry room service, which provides real time information on the status of laundry machines and allows students to reserve a machine for usage, so students save time by knowing the machines will be available for use when they need it. The second part of ReserveMe will be room reservation services, so students would be able to easily reserve gaming rooms, function rooms and study rooms. This will be an automated process and can be done without building management staff involvement. The final part of ReserveMe will be an event notification board for accommodation events, where students can sign up to attend current events. Update of policies by building management can also be shown in the app.



Revive Coffee

Adrian D’Amico and Neil Dien

Our start-up, Revive Coffee, believes that all waste is a huge issue that should be reduced when it is possible. When looking into business ideas we found that a survey in Sydney found upon average 93% of their used coffee grounds would end up as landfill. This was our reasoning to create a business that would recycle and reuse ground up coffee beans that have been brewed. This is where we would introduce a collection service to gather used up coffee grounds with signed up businesses to help reduce the amount of used coffee beans being discarded. This would then allow us as a business to reuse, recycle and reduce the amount of waste while also allowing customers to purchase the waste in large quantities for products to be created. We will also be looking into creating specific products to be created with the recycled material or partner with our companies to do so.



Sprightly

Keven Stockmann, Kyle Combeer and Nic Mavrogiannis

Australia’s population is climbing whilst available farming land diminishes. This presents a challenge; how can we sustain population growth with less usable farming land? Sprightly aims to ease the burden placed on traditional farming by creating environmentally conscious urban farms, yielding higher returns with a much smaller footprint. Utilising available vacant real estate within city areas, Sprightly intends to provide fresh fruits, vegetables, herbs and plants direct to consumers, supermarkets, restaurants and other merchants.



Using advanced technology such as aeroponics, machine learning and automation, Sprightly can reduce water usage to as low as 1% of traditional methods with faster plant growth cycles that aren’t at the mercy of seasons, pests or fungi. Strategically located warehouses significantly reduce transportation times, meaning fresher produce for the end client. Machine learning enables the prediction of production capacity and yields, whilst automation reduces labour intensive requirements.

Tempus

Hoa Ngo

Tempus, Latin for time, is at its core a time management web application coupled with a strong element of social networking. Through a user friendly and intuitive interface, users could keep track of how their time is spent. Tempus enables users to set timers for different tasks and leverages modern web technologies to deliver beautiful data



visualisations of the frequencies, duration, satisfaction, etc, of the said timed tasks to help users improve their time management. Tempus allows users to share part or all of their profiles. If shared, a notification is delivered to all interested parties when a user begins a new task, thus encouraging others to engage in the same task, say exercising, and therefore promote productive behaviours. Ultimately, Tempus aims to give its users the much needed but often non-existent receipt to their time expenditure, so that they could account for their time and spend it more wisely

Up2U

Runzhi Hao, Wenhao Ma and Xin He

Nowadays, people tend to buy brand clothes that are premade in the same style. However, the need to be unique for each person is increasing, so the product of cosmetic clothing will solve this problem. Our team will provide the choice of unique clothes or outfits which are designed by our customers, including jerseys, cosplay outfits and so on.



Village

Tiffany De Sousa Machado

Village is an app connecting experienced mothers with new mothers with the aim of buffering the effects of postnatal distress. Through geographical mapping, it provides a real time picture of who is close and available for face-to-face connections which may grow over time. The app provides the basis for corporate mentoring programs, seminars and educational classes relating to the postnatal period in terms of support and returning to work. Tiffany’s personal experience with the loneliness and isolation of postnatal depression and a deep desire to enhance the lives of families has been the driving force behind the main product design. Tiffany’s experience in corporate sales and marketing combined with excellence in her academic studies in psychology and postpartum health has allowed her to design and build a product offering which speaks to the experience felt by many women.



Virtual Estates

Paurush Sohal and Mark Preece

There are some things in life that we want to experience but at times they are near impossible. There are instances when we want to be physically present at a place but in this day and age, other commitments overshadow the importance of being at the right place at the right time. Imagine a world where distance or time isn’t an issue – a world where everything is at your fingertips – a world where you can see, hear and touch an environment and have



all the power resting in your palms – imagine virtual reality. Virtual reality goes beyond today’s technology which helped it to come a long way. Here at Virtualis re we believe that you shouldn’t have to give up time from your daily schedule to inspect a new house. We believe that you should be able to see the house – whenever you want and wherever you want – virtually. Find out more about the company and our vision by contacting us or visiting our website.

Visualise Tour

Minh Nguyen, Ben Barrett and Katie (Ying) Gao

Visualise Tour is a global subscription platform that allows users to gain an immersive tour of city attractions around the world. The subscriber has the option to listen to music of the city they’re in or historical descriptions about the destination. This includes special weekly releases of new cities for subscribers along with an interactive platform to communicate with other users. VR headsets are sold alongside the subscription fee.



VitaChar

Lewis Dunnigan and Ben Morton

VitaChar will provide an alternative use for both household and commercial green waste. Traditionally these wastes, which include cardboard, grass clippings, and food scraps, end up being disposed of in a manner that adds little value, such as the green waste/ recycling bin or landfill. The VitaChar process, however, will convert these organic wastes into an organic fertiliser (biochar) in as little as one hour with a simple, safe, and efficient device. The nutrient rich biochar can then be returned to the garden (households), or on-sold by commercial organic waste collectors to other end users (e.g., farmers, compost manufacturers, etc.).



The process negates the generation of methane from landfill, minimises the loss of key nutrients by returning them to the soil, reduces the costs and emissions associated with transporting the wastes, and reduces/ reverses gate fees for organic composting. VitaChar is carbon negative, as it results in a reduction in atmospheric CO2.

V-Sync

Ruijie Zhang, Guanyu Chen, Wuniu Liu and Kai-Han Hu

The main concept of our entrepreneur project contains two aspects. The first goal is to develop a Virtual Reality based software associated with the architectural industry. Architects mostly develop their designs by creating models in commercial model making software such as Rhino and 3dmax, then present the rendered model to their customer. Hence our group is ideally planning to develop a software that allows users to import a variety of model formats from model making software and transform them to 3D format for customer viewing in VR. Customers could view the designs in first person perspective like in real life, in a real building.



The second goal is to provide a virtual reality showcase system for real estate agencies or design firm to digitise their ongoing/ existing projects and present to customers by using a VR headset. Our system includes VR equipment installation and maintenance, project scanning and modeling in VR format and user guidance.



WINNERS AUSTRALIAN eCHALLENGE TERTIARY

All prizes were presented by our guest of honour, His Excellency, the Governor of South Australia, Hieu Van Le AC

FIRST PRIZE
VITACHAR



EQUAL THIRD PRIZE
CANNABINOID THERAPEUTICS



SECOND PRIZE
BELLR



EQUAL THIRD PRIZE
LINEARLOCKSETS



A DAY@MICROSOFT
(TERTIARY)

PDTECH



SPRUIK DIGITAL PRIZE
BAND AT HAND



ENABLED SOLUTIONS PRIZE
LINEARLOCKSETS



VROOM AWARD PRIZE
FRESCA



PEOPLE'S CHOICE PRIZE
VITACHAR

AUSTRALIAN eCHALLENGE CLIMATE RESPONSE FINALISTS

The Australian Climate Change Science Programme report suggests that the response to current climate changes needs to be about adaptation and mitigation.

Innovators need to be at the forefront of developing these new strategies. The Australian eChallenge Climate Response program has been designed specifically to increase innovation in this important area. Arguably one of the countries most effected by climate change, Australia has the opportunity to lead change and development. Our response to sustainability, creative uses of renewable energy, and water management has the potential to impact the rest of the world.

BioBox

Angus Gebhardt, George Spyrou, Jonathon Williams, Paul Dally, and Samuel Hutton,



BioBox is a re-usable food container that can be presented at take-away restaurants

to be filled with food, eliminating the plastic waste produced by the disposable take-away containers provided by take-away restaurants currently. Utilising the power of the consumer in a demand-driven market, BioBox encourages restaurants to act in an environmentally friendly manner and saves them money whilst doing so. BioBox is made from eco-friendly, sustainably sourced materials in order to further minimise the effect on our planet.

Densified

Jake Bott, Jarred McEvoy and Rachael Sia



Densified is creating a compact, modular garden to make home-grown vegetables and other plants available to people with limited space and time, while also creating a social environment

to share in each other's gardening successes. Users will be able to connect to the garden from their phone, check up on how growth is progressing in real time using a range of sensors, and share photos and statistics to various social media platforms.

Add-ons will also be available for the garden, for example, if you don't have water or power available on your balcony, you can add a solar panel and water tank for a system that will operate anywhere with no modifications required. This makes it perfect for people renting apartments. It can also give feedback and advice to inexperienced gardeners and guide them towards successful gardening. The system is perfect for the environmentally aware too, utilising recycled materials as well as helping to reduce the environmental impacts from long-distance transport of food.

Sprightly

Keven Stockmann, Kyle Combeer, and Nic Mavrogiannis



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AUSTRALIAN eCHALLENGE MEDICAL INNOVATIONS FINALISTS

In areas such as biotechnology, pharmaceuticals, information technology, and the development of medical devices and equipment, significant innovations have improved the health of people around the world.

From seemingly small innovations, like adhesive bandages, to larger, more complex technologies like MRI machines, artificial organs, and robotic prosthetic limbs, continuous innovation is vital.

Australian eChallenge Medical Innovations supports medical innovators looking to launch new products or services within a supported and structured environment.

Cannabinoid Therapeutics PTY LTD

Benjamin Lee McGorm and Alex James Clare



Cannabinoid Therapeutics PTY LTD is an Australian formed medical cannabis company. Formed in 2017 by co-founders Benjamin McGorm and Alex Clare, Cannabinoid Therapeutics will fill a well-publicised and identified gap in the emerging global cannabis marketplace by cultivating and selling extracted cannabis products, including raw cannabis flowers

and cannabis oil, to established international Licensed Producers of cannabis products, Australian pharmaceutical companies and directly to Australian consumers. We are detail orientated and passionate about phytology. Our focus is on science-based cultivation and cannabis cultivar breeding, creating new cultivars for specific segments of the market, and whole plant extracts – why change the way nature and human biology work?

With international cannabis cultivation experience, a highly prestigious and qualified team of advisors, a strategic partnership with Canadian ACMPR licenced cannabis extraction company, Token Naturals, Cannabinoid Therapeutics has the experience, knowledge and tools to execute and deliver our business plan, becoming a multi-million dollar company within three years.



Everprotect

Trishna Menon, Grace Parletta, Suzie Shimamoto, Aatman Sabharwal, and Ayush Lohana



Our idea was to create a product that was antibacterial, but also addressed the issue that most sanitisers and soaps do not, which is the damage caused to the skin, especially when used frequently. This often creates the problem of dry hands or dermatitis. Additionally, hand sanitisers and soaps will get rid of the bacteria upon use, but as soon as the hands are used again and encounter more bacteria, they are no longer effective. From this, we had the idea of creating an antibacterial barrier cream. This was something that could be used daily, effectively kills bacteria, but is also moisturising and not harmful to the skin. Furthermore, we wanted a long-lasting product that could be applied at the beginning of the day, and would still be effectively protecting the hands from bacteria with minimal reapplication by the end of the day. This would make it a really cost-efficient product.

PDTech

Anas Al-Shamleh, Mark Gardner, Sam Koopowitz, Vicki Thomson, and Wanqi Jady Wang



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Sam Darvish, Mohammad Hassan Khan, and Benjamin Tuckey



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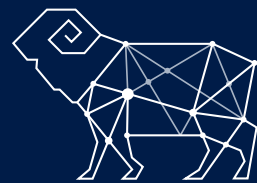
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Tiffany De Sousa Machado



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AUSTRALIAN **e**CHALLENGE WOOL INNOVATION



Innovation plays a crucial role in delivering productivity gains and improved profitability and also in protecting and enhancing the international reputation of Australian woolgrowers as custodians of the world's largest population of Merino sheep.

Innovations that improve wool sheep health, welfare and productivity represent the greatest overall opportunity for on-farm R&D for the benefit of the Australian wool industry.

In response to this need we, in conjunction with Australian Wool Innovation, have developed the Australian eChallenge Wool Innovation program in order to support new innovations in the Australian wool industry. The Australian eChallenge Wool Innovation provides an opportunity via an applied innovation forum, to ensure Australian woolgrowers are availed of practical, low cost digital tools and hardware which automate routine operations and support increased productivity, welfare improvements, and genetic progress.



Chivalrous

Abhianva Kashyap

Chivalrous aims to increase wool quality by changing sheep diet measures in order to produce high quality fabric that helps to produce high profitable output. Chivalrous focuses on providing a nutritious diet and food habitat to the sheep under a prescribed atmosphere. This makes a new change in wool fabrication that helps in hitting the market with high demand.

Cozy Wool

Sandeep Kushwaha, Muhammad Wahaj and Phani

A solar powered smart jacket for young lambs to protect them from harsh weather conditions and to keep the body warm, it is integrated with a real time temperature sensor to monitor the body temperature. The system is connected to a mobile app with the added feature of motion sensors and heart rate calculator. The recorded data will help in analysing the health of the lamb.



It is easy to fit, cost effective, durable and safe, yet lightweight and reusable. It has power storage capability, which stores the energy during the day and is utilised at night to function properly. It is a self-charging and eco-friendly product, which would add more value to the wool industry.

Easy Drench

Katrina Durham, Janine Chang Fung Martel and Dylan Bellchambers



Producers have a growing list of jobs to be completed on a regular basis that cost time and money. The concept of Easy Drench is to assist to reduce time cost to control internal parasites and make the job simple. Annually internal parasites cost nearly \$436 million per year to control and in loss of production. Easy Drench aims to introduce precision at the animal level enabling the producer to drench each animal depending on their needs. Only the sheep that need drenching will be administered a dose, all while they are grazing in the paddock. Easy Drench aims to reduce time, cost and potential resistance to current drenches.

Fibre frolics

Chaithanya Kumar Kancharla, Chandhani Vacchani Mansukal, Nithin Prasanna Sridhar and Sridhar Kannan Ragavan



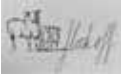
Fiber Frolic provides an easy method for sheep owners to perform a shearing process with less human effort by incorporating an automatic mounting machine into the shearing process for holding and mounting the sheep. Many innovative technologies have been developed in the wool industry for the past couple of years, but still there is a possibility of developing traditional shearing process. Today wool farmers face major attention from animal welfare communities who are concerned about less painful shearing. In the traditional shearing process injuries to animals occur during holding and mounting. In order to overcome these issues our project is more reliable and time saving. This device consists of two conventional metal plates for mounting which are functioned using actuators and cylinders. A well-organised plan, from the sheep coming into yard to the end of the shearing process, can be managed using Fiber frolic.

This new product will help farmers to reduce the cost and number of injuries to sheep with

better shearing process and good quality of wool. Thus, Fiber Frolic meticulously fits the current wool industry solution leading towards a better future.

Flock-Off

Katie Barber and Peter Barber



Flock-off is a surveillance system designed to monitor the presence of predators amongst flocks of lambing ewes. Mounted sensors on fence lines map the fields and surrounding areas, detecting and identifying animals both around the flock and approaching the flock. Using algorithms, Flock-off determines when a farmer should be notified of predatory activity. The 3G and 4G network transmits information recorded using thermal imaging to the farmers hand held device to allow quick response predator management.

=Up to 15 small long-life, solar-powered sensors are secured easily to the paddock perimeter and an app installed on a farmer’s hand held device complete the set-up. An intuitive operating system allows for a hassle free installation and simple, non-intrusive notification. Informed by engineers and designed by Australian farmers for Australian farmers, the Flock-off predator surveillance system will aid sheep famers in protecting their flocks, ultimately assisting the protection of sheep and aiding in rebuilding sheep numbers across Australia.

Grassroots Coding

Daniel Ng and Trent Bowden



Programming is the new literacy. Grassroots Coding is the new way for beginners to learn essential programming skills while gaining an awareness of relevant and contemporary issues facing the Australian wool industry. With a fun gamified experience, available on any device and to any student, our platform has Australia and your children in mind for a bright future. Developed by Daniel Ng and Trent Bowden, Grassroots will equip the next generation with a depth of knowledge to innovate the wool industry as they learn how to code, and have fun doing it.



FIRST PRIZE
EASY DRENCH

SECOND PRIZE
LIVE WEIGHT

LIVEweight

Jackson Adams and Ethan Macauley



Frequent, individual livestock weights are more often than not unobtainable due to scales being heavy, awkward and expensive. Therefore, a lot of the existing livestock management processes are inaccurate as they are often estimates of actuals. Ultimately, this results in inaccurate and poor management decisions, which can have significant implications right throughout the supply chain. LIVEweight makes efficient and effective data collection a breeze through its easy implementation in most normal management processes (drenching, tagging, shearing, etc.). This alleviates poor management decisions made based on assumptions and estimates and thus can only improve farm productivity.

LIVEweight is a hardware and software initiative, which incorporates a portable and user-friendly weight scale and a precise software program. The LIVEweight hardware system saves farmers’ time and money with its portable and flexible design. The LIVEweight software makes it easier for farmers to manage their flock’s health and weight, allows for greater analysis to improve breeding procedures and gives greater industry insight to producers and consumers. The LIVEweight products can be used to fit the needs of different individual stakeholders and can be intergraded with existing operations and technology systems.

The LIVEweight systems are the brainchild of Jackson Adams. The LIVEweight team is made up of Jackson Adams and Ethan Macauley. For a small initial investment this is a huge step towards steering your business to a sustainably profitable enterprise. Please do not hesitate to get in touch with us.

Lambulance

Andrew Bailey, Tony Butler and James Tyson

Sheep and lamb survival are essential for the growth and sustainability of the sheep and wool industry. Increasing public concern regarding the treatment of animals is jeopardising the social licence of some farming practices. One failing is the survival of young lambs during colder seasons. Utilising drones fitted with infra-red sensors, unobtrusive inspections of ewes and lambs can assist producers in identifying at-risk animals. These animals can be relocated to the safety of a triage unit. Assessments of the ewe or lamb can be broadly divided into healthy, intervene to save, or do not intervene. This focused and timely effort to improve animal survival targets those in need. Delayed or unnecessary human intervention would virtually be eliminated. Drone technology during lambing has immediate benefits for animal welfare, breeding, future production and labour savings for large and small sheep producers, especially where lambing occurs in isolated, rugged or poorly accessible areas.

OBENWOOL

Vanthol Pich and Sam Karem



Green Wool, Green Future. OBENWOOL is a platform that makes it more convenient for those who want to sell, reuse, or recycle wool products. OBENWOOL is a marketplace for those who wants to sell and buy wool products. This platform also connects people who want to donate their wool products to those that are in need of wool products, allowing for the reuse of wool. Finally, OBENWOOL connects owners of wool products to companies that seek to recycle wool products.



THIRD PRIZE
GRASSROOTS
CODING

All prizes were presented by
Mr John Roberts, AWI General
Manager for the Eastern Hemisphere



AUSTRALIAN eCHALLENGE IN SCHOOLS

The program provides a launch pad for new ventures created by high school students and exposes them to the world of commercialisation, venture financing and strategic business planning.

Entrepreneurial teams of two to six students compete for prizes and the prestige of being nominated the most outstanding Australian eChallenge in Schools entrepreneurial venture for the year. The program provides a real world experience and provides students with the tools and support to create a viable start up.

These teams attended workshops with the tertiary students and pitched to panels of judges from the business community. Once again this year, the judges agreed that the standard was high and students embraced innovation, demonstrating keen business minds and a commitment to develop a sustainable enterprise.

3D Fit Renmark High School

Tori Lowe, Kiran Kaur, Ella Flaherty and Giulia Sau

Have you ever been through the struggle of ordering clothing online and the sizing is not right because trying on the item is not an option? Or it just doesn't look quite right? Well 3D Fit has you covered! 3D Fit is a device that sits on the top of your laptop screen, which connects to the USB port. This device projects the piece of clothing of your choice. Just select the clothing and step in front of the hologram, then manoeuvre your body until the green light flashes, indicating that you are in the correct position. This device is powered by the 3D Fit app where all popular clothing sites will be suggested to provide you with the latest clothing. This new product will revolutionise the future of online shopping forever. Say goodbye to the hassle of in-store shopping and wasting time and money on clothes that don't meet your expectations!



Attire for Hire St Peter's Girls' School

Kate Reade, Tilly McCormack, Siena Kulinski and Hannah Freeman

Hire is a unique marketplace application that facilitates the ever-growing clothing rental market. It provides a convenient platform for both hire businesses and customers with a rating feature for both parties, similar to the features employed by UBER. It aims to minimise clothes wastage and create ease for consumers by having the one platform to access all hire businesses. Users advertise their products for an ongoing fee including advertising and insurance and will also be surcharged per hire. The rating feature allows the provider to rate the user in regard to the wear, return and care for the garment. The ongoing fee would also ensure users against garment damage. The consumer will use the service free of charge and will similarly rate the provider. A symbiotic relationship that promotes good will, good care and service for consumers and providers whilst reducing resources used in the production and wastage of clothes.



Clout Scotch College

Philippa Smith, Ellie Wilkinson, Grace King and Elliot Mackenzie

Clout is a platform in which social media influencers and businesses can integrate to achieve successful partnerships. Through individual insights and partnership programs, marketing teams can scout



social media influencers to become the new face of their business. The program offers a cheaper alternative to agents for social media personalities and allows for untapped potential influencers to be discovered through Clout's unique algorithm. Through the application of the new concept of social media platform endorsement, influencers can join the program with a simple service fee, adding to the database of individuals for businesses to surf in search of a potential influencer. Clout will be available in both application and website form and offered to any registered company.

CUPPA The Heights

Tristan Asaris, Jeffrey Wibowo, Jack Li and Sunny Lockett

Cuppa is a series of innovative fast food packaging designed to make your experience of ordering fast food more flexible and convenient. Our elegant cup-like design comes in various heights and sizes, allowing meals and snacks to be separated into suitable portions. This gives you the flexibility to build unique combinations to suit your needs – mix and match Cuppas to create the ultimate combo to your liking. The essence of Cuppa's innovative design is in our easy to use tear away tabs. This enables multiple Cuppas to stack into a cylinder of pure deliciousness, consisting of layers of everyone's favorite foods for those family feasts and party occasions. Cuppa aims to come to life with services such as Uber Eats and Deliveroo, which will make combos across different restaurants and fast food chains an exciting possibility, giving you more freedom than ever when it comes to ordering food deliveries. Cuppa is also looking into improving your experience of consuming hot chips, designing an alternative peel-away chip holder, allowing you to peel away the unnecessary packaging as you diminish the chips, so you don't have the get the grease all over your hands.

Grab yourself a Cuppa today!



Doctor Botony St Peter's College

Luke Russell, Menura Gamage and Joshua Reseigh

Our concept is to implement a service to users to analyse plant health through statistics. Doctor Botany aims to provide people with an easier solution for taking care of their plants. By using existing databases of flowers, a user will be able to take a photo of their plant, which can then be analysed. To publicise we will introduce the app through the Appstore and Google Play Store.



EnviroDrone Renmark High School

Ashley Leckie-Hefford, Sohan Singh, Damon Kassebaum, Haidar Qambari and Corey Valente



Organisations, businesses, schools, universities, sporting facilities and governments are spending extensive resources, effort, time and money cleaning up rubbish. Even when they think they have cleaned all the rubbish there are still tonnes of litter left over. Surely there is a better way and at EnviroDrone we've created the perfect solution to clean our environment. We've devised a drone that can clean up any area efficiently and with precision. It comes with a bin that is attached to the drone charging pad. The drone itself will scan the designated area and with its claws it picks up the detected rubbish. The bin system will have three sections: bottles, papers and other wastes. The drone will work within 2km of that area. The EnviroDrone will clean our whole environment, making our world the cleanest and healthiest possible.

Eventi Seymour College

Scarlett Hooper, Georgina Iacopetta, Chloe Jaksic, Sammy Likos, Jess March and Olivia Whyte



Think about the last time you planned a special event. Was it time-consuming, stressful? Did you blow your budget? Our app, Eventi, will simplify the process of event planning.

Selecting resources and services, including catering, decorations, venues, equipment hire, and photographers, will be available from one platform.

By streamlining access to services, planning with Eventi will be fun! You will have full control over the event prep without needing to pay party planners. But, if you want to hire their service our app will help you do this too! Eventi will benefit businesses reach customers in a more cost-effective manner. Prices, customer reviews, availability and party themes and ideas are features of our app.

Our easy to navigate, user-friendly app where 'everything is at your fingertips' will transform the oft-dreaded process of event planning into a pleasant experience.

Eventi will ensure the journey is as enjoyable as the event!

Everprotect
Saint Ignatius College

Trishna Menon, Grace Parletta,
Suzie Shimamoto, Aatman Sabharwal
and Ayush Lohana



Our idea was to create a product that was antibacterial, but also addressed the issue that most sanitisers and soaps do not, which is the damage caused to the skin, especially when used frequently. This often creates the problem of dry hands or dermatitis. Additionally, hand sanitisers and soaps will get rid of the bacteria upon use, but as soon as the hands are used again and encounter more bacteria, they are no longer effective. From this, we had the idea of creating an antibacterial barrier cream. This was something that could be used daily, effectively kills bacteria, but is also moisturising and not harmful to the skin. Furthermore, we wanted a long-lasting product that could be applied at the beginning of the day, and would still be effectively protecting the hands from bacteria with minimal reapplication by the end of the day. This would make it a really cost-efficient product.

Fashion Guru
Renmark High School

Fazila Rajae and Umulbanin Urozgani



Have you ever had too many clothes in your wardrobe? Have you ever spent hours trying to decide what to wear? Have you ever found an item of clothing that you forgot you owned? Well the solution is here and it is a must have ap. The Fashion Guru is for those who stress over or can't decide on what to wear. Imagine always looking great, being up-to-date with the latest styles and not having to decide what to wear. The Fashion Guru will save you time, reduce

stress and increase confidence. This cutting edge app will connect with weather forecasts and adjust your attire appropriately whether it is sunny or cloudy. The Fashion Guru will log all your clothes and accessories and all you need to do is select an occasion and the Guru will style you. The features of this app are endless... if you haven't worn an item of clothing for a while the app will let you know and even give you the option to sell or donate it. Download the Fashion Guru today and be stylishly fashionable forever after.

Find My Pet
St Peter's College

Euan Gallagher, Nic Enright, Lachlan Kay and Harry Slater

Our business proposal is a unique dog/cat collar that will have unique slick designs. The main selling point of the collar is that it will have a live tracker, heart monitor and a camera, which can all be accessed through a free to download app. The collar will be unique as there is currently nothing popular in this market that will include both a fun interactive app to connect with your pet, whilst also providing you with information on your pet's wellbeing/location.

Karassoulos & KOH
St Peter's College

George Karassoulos and Jun Pin Koh



A wealth management firm for above average (in wealth) high school students (16 to 18 year olds). This would provide the students an option to safely increase their capital with the littlest of effort needed by them. We do the investing for them. This would also provide them with various luxury services such as phone concierge assistance, complimentary upgrades to Uber Black, and access to luxury airport lounges across the world.

The student benefits by having access to luxury services and in the long term has more capital because of great investments. Karassoulos & KOH benefits by taking a commission on the investments.

Kontainer
Glenunga International High School

Henry Young, Doha Khan and Lian Takayidza



Our team concept is solving the problem of people not being motivated/educated on the ways in which they can make sustainable choices in relation to single-use takeaway containers. This is a problem that resonates deeply within all of us, as we all are passionate about the environment and want to reduce not only our own carbon footprint but also the footprint of the wider community. Our solution is an app which lets people scan containers (using QR code/barcode or a similar method), which gives them points that can be used to donate to a selection of charities. The app would also incorporate social media through weekly challenges and leader boards, as well as showing the consumer their impact on the environment when they use these containers through milestones or awards.

Light it Up
Renmark High School

Jasmine Alexandropoulos, TeRa Gray, Jade Leedle and Layla Anderson



Have you ever had a hard time finding your charging port at night or in the dark? Have you had to get up and turn a light on just to plug your device on charge? What if life was easier and more convenient? This is where Light It Up is revolutionising the cord industry. Here at Light It Up we have the solution for you. Our in-built LED light helps guide your cord to your port; this device enables you to swiftly find the port of your device. Our company Light It Up is transforming the way people charge their devices. For more information come visit us at the showcase or come check out our website so we can light up your world.

Lord's Clothing
Renmark High School

Eftyhia Gourzis and Hamish McDonald



Turn Up the Heat

Our product is a thermal heating and cooling device that can be put in any clothing for sports or everyday use. This device solves the fact that people get sick and injured when changing temperatures too quickly, playing sports or when the season changes. Lord's

Clothing will help as it can be manually controlled by the user to have the clothing to the customer's desire. Whether it is too hot or too cold, your body will always be at the optimal temperature. If the player is at a normal temperature at all times the player can play their preferred sport for a longer period of time. Also when travelling this device can suit the customer's needs. Too cold? Then you can just warm up with Lord's Clothing. Turn up the Heat.

Muso
Glenunga International High School

Taylor Bannon, Joshua Pearson and Kyle Hetherington



Muso is an app and website which connects artists with other artists, venues and marketing consultants in the hopes to grow their footprint in the music industry at an affordable price. It could also potentially branch out to writers and visual artists at a later stage. In addition to connecting people together, Muso will also assist new musicians, by explaining a simple and efficient way to market on social media. This will provide them with the opportunity to grow and expand their audience, without the complications of the process being long and confusing like competitors. In addition, advertisements will be placed throughout its feed in order to give businesses a target user base, where they can both advertise and create a revenue stream for Muso.

PartySafe
Scotch College

Samuel Subramaniam, Cooper De Zylva, Zac Horbelt, Georgia Butcher and James Borg



The law has changed in South Australia - it is now illegal for a minor on private premises to be provided with alcohol without parental consent and the penalties include an expiation fee of \$500 and a penalty of up to \$10,000. Parents hosting gatherings on private property now hold much power and responsibility to approve or disapprove the consumption of alcohol by minors on their property.

To solve this issue, we propose the development of the PartySafe iPhone, Android and computer application. The application is simple: the host uploads the event on the PartySafe application and submits the name of the persons invited. We intend to propose a collaboration with the South Australian government, so that a link to the consent form will be sent to the phone numbers of the invited person's guardian. That guardian can then send the consent form back to the host in a relatively quick fashion. The link sent to the parents will contain questions which change depending on the characteristics of the party

Pre-Pear
St Peter's Girls' School

Charlotte Creek, Orla Clayton, Renee Lawrence and Charlotte Sellars

Every year in Australia 4.5 million tons of food is sent to landfill as waste, a problem our team plans to solve whilst also enabling recipes using the ingredients left in your fridge and pantry. Our app uses the latest technology, where users photograph or type in ingredients in their fridge and pantry and are provided with recipes, videos and instruction on cooking nutritious meals with the available ingredients. This is an easy and creative solution to food preparation and provides recipes from reputable companies and chefs. Furthermore, the app will provide you with the nutritional value of the recipes and ingredients that are used in the recipe. Supermarkets will have the purchasable option for customers to order and have home delivered vital missing ingredients. It will provide creative and nutritious options for meals that use existing ingredients and minimise waste.

Solar Star
Renmark High School

Emma Kernich, Megan Reid, Riley Beames, Khang Nguyen and Sasha Greenland

One of the biggest problems when camping is enjoying a perfectly cooked meal. Cooking on fires is very problematic; either there is a lack of fire wood or fire restrictions. Barbecues are too cumbersome and require volatile fuels. And most other cooking devices are too hazardous and dangerous. This leads to people having to carry around loads of cooking equipment or even avoiding camping all together. We at Solar Star aim to help people that go camping, want convenience and want the best equipment. Don't be stuck in the dark ages and come over to the future of cooking. Cook wherever you go by using an eco-friendly, solar powered pan. Solar pan is the quickest, cheapest and most environmentally friendly cooking device in the market.

SunScope
St Peters Girls School

Belle Black, Sophie Johnson, Lucy Young and Lucy White



General Practitioners consult over one million skin cancer patients annually and one life is claimed by melanoma every hour. Due to the severity and commonality of sunburn and various skin cancers in Australia, those whose lives have not been affected in this way, are few and far between. To combat this issue, we have created a solution called SunScope. Our product, SunScope, involves a lens that

attaches to the iPhone or any mobile device, and works in conjunction with an application to prevent skin cancer. The app demonstrates areas where sunscreen has been applied sufficiently and areas that have been missed, displaying a real-time moving image on the app.

Young Money
Immanuel College

Jasmine Bubner and Grace Tovakuta

As year 10 students and boarders, we have found that it is quite difficult for adolescents to find employment. Our mission is to create a website and platform that allows adolescents to find employment and to assist and guide young people to help apply for jobs. With social media having a big influence on the world today, we are also looking to create a platform that is easily accessible to adolescents who are interested in being brand ambassadors for different brands.

Zion
St Peters College

Tom Spiby, Max Buttignol, and Lewis Fox

South Australia has very high power rates and an inefficient power grid. South Australia also has extremely unstable power networks, evident in 2016's widespread power outages. Roughly 1.7 million South Australian residents were left without power that evening.

We plan to use previously made batteries within our product. These batteries will need to hold sufficient power but also be within government regulations. This product can be used in homes and apartments within South Australia. A main point of this product is its availability so ensuring people in apartments will not require approval is an important aspect of the design.

FIRST PRIZE
PARTY SAFE



THIRD PRIZE
EVENTI



ECIC ENCOURAGEMENT AWARD
EVERPROTECT



SECOND PRIZE
SUNSCOPE



LEAVER AND SON
ENCOURAGEMENT AWARD
MUSO



ECIC ENCOURAGEMENT
AWARD REGIONAL
ENVIRODRONE

TECH **e**CHALLENGE SPONSORS

ENABLED

To the beholder Enabled may appear as many things: a software dev shop, a multi-disciplined creative agency, a product development house or even a business consultancy. In actuality we are all of these things and we do believe that the sum of these parts equal more than the whole.

Enabled's mission is to understand human needs and address these by using the latest digital technologies. Over the last sixteen years, Enabled has worked with iconic Australian brands such as Coopers Brewery,

ABC, RAA, and other multinationals such as Schneider Electric and Discovery Channel.

Enabled begins with the real person and using proven techniques we seek to understand their true motivations, and with this we create technology solutions that help them accomplish important jobs. This means that Enabled's outcomes provide more meaningful utility, lasting engagement and a source of competitive advantage to our clients.



MICROSOFT

About Microsoft

Microsoft was founded in 1975 with a dream of "a computer on every desk and in every home" that has ultimately changed the way millions of people around the world communicate, work, learn and play.

Today, Microsoft is one of the world's best-known brands. Our relationship with millions of Australians extends from the home to the school and the office – and our technology is fundamental to people working in business, government and the community.

An estimated 17 million Australians have used our software either at work or home – searching the web with Internet Explorer and Bing, analysing data with Office Excel, sharing through Hotmail, playing on Xbox, communicating with Windows Phone or using one of our many business and server platform products. Today, with the power

of cloud computing, we have a vision to connect people to the things that are most important to them through a seamless experience across the PC, browser and phone.

Our local operation started in 1983 with only 20 people. Since then, Microsoft Australia has grown to more than 1,000 people working in capital cities across Australia and at ninemsn (the PBL and Microsoft joint venture).

About Microsoft in the Australian community

While Microsoft continues to grow globally, so too has our awareness of the opportunity and responsibility we have to positively contribute in the communities where we live and work. To that end, we actively invest in activities that support Australian industry development and the community.

Microsoft Australia takes great pride in being able to help Australian businesses, charities, communities and governments benefit from the global growth in technology and we are proud of our contribution to Australia on both an economic and social level. In the last three years we have made over \$120 million worth of software donations to Australian charities and not-for-profits, ensuring that the benefits of technology can be shared by all.

For more information on how Microsoft Australia has partnered with organisations across Australia to make a difference and invest in local communities visit: onmyway.com.au





TECH **e**CHALLENGE FINALISTS

The Tech eChallenge is for individuals or teams with an idea for an app, software or digital content. You do not require any software development experience to take part in this program, and even if you are a coding genius the concepts presented will help you shape your idea into a product that has the best chance of succeeding.

BUILD

Brad Morgan and Yuanjing Zhao

What is BUILD? It's a tool to connect students with ideas to those capable of bringing ideas into reality.

The goal of BUILD is to provide computer science students with a better way to start or be involved in extracurricular projects with each other and students of other faculties. We aim to bring better entrepreneurial success to students of all faculties by enabling better communication with computer science students, in the hopes of matching the technical skills required by students studying other degrees with those who can provide them.



and generation Z can offer, but this strategy will also increase job prospects for the younger generation.

CrockPot

Josh Allison and Danyon Loud

Stuck at work late, again? Running out of time to hop in the kitchen and feed the kids before bed? Maybe you have a hankering for something homely, warm and hearty? Well, CROCKPOT is the answer! It has been identified that Australians are disposing of well over \$10 million worth in fresh produce, annually. CROCKPOT is a service that aims to connect local communities through the goodness of food and provide a solution to our nation's food wastage problem. Our application provides amateur chefs with a secure platform to submit their tasty, home-cooked preparations and leftovers for purchase from the time-pressed family or slack student who will make better use of the products.



Connekted

Ann Pham

Connekted is an online service where individuals can look for work trials, internships, volunteer work, connections, and even paid work. It also provides businesses and start-ups with cheaper solutions to training, hiring, and marketing. The goal is to create a service where employers can find the right the right talent to work in their business/startup/ company for a cheaper alternative. Businesses and companies will not only see what millennials



Point Me

Rhys Menezes, Daniel Ng and Ragav Sachdeva

Point Me is a navigation app for institutions and complex buildings, much like Google maps for cities and towns.



QTONIC

James Kartika, Aidan Rigoni, and Jesse Cordoma



Through the use of the latest development in product packaging and user engagement platforms, QTONIC aims to make creating and mixing your own cocktail at home simple, easy and fun. It allows consumers to mix and experiment with different types of drinks and get cocktail inspiration from user-generated ideas in a simple, straightforward ecosystem. Whether you are a first timer at cocktail making or an expert mixologist, you can make bar quality cocktails on demand with QTONIC.

Wild Fire

Trent Bowden

Wild Fire is an app that aims to work with users to build their confidence before a hazard occurs, then provide them with real-time information for use when a hazard arises.

TECH **e**CHALLENGE WOOL INNOVATION

The Tech eChallenge Wool Innovation program is based around the development of prototypes of technical innovations for the wool industry. Participants ideate, develop and then pitch their product to panels of potential investors from the local business community.



FIRST PRIZE GRASSROOTS CODING



BioShepherd

Jordan Gruber

BioShepherd provides same-day preventative disease testing in the wool and livestock industries to help farmers minimise billions of dollars of stock loss each year. Our technology combines cutting edge portable genetic sequencing technology with the latest in artificial intelligence to quickly identify disease and provide farmers with detailed information to quickly respond. We are currently in the conceptual stages of development and are seeking early stage investors to develop and test the first proof-of-concept prototype system.



Grassroots Coding

Trent Bowden and Daniel Ng

Programming is the new literacy. Grassroots coding is the new way for beginners to learn essential programming skills while gaining an awareness of relevant and contemporary issues facing the Australian wool industry. With a fun gamified experience, available on any device and to any student, our platform has Australia and your children in mind for a bright future. Developed by Daniel Ng and Trent Bowden, Grassroots will equip the next generation with a depth of knowledge to innovate the wool industry as they learn how to code, and have fun doing it.



Merino Crusaders: Modified Race-line for Sheep Handling

Jake Coremo, Jeevan Jacob, Mathews Joseph and Tanya Vivera (Deakin University)



Sheep farming involves a lot of double handling which is why it effects farm workers' physical stress. Also, each farm activity, such as weighing, vital check, vaccination, etc., is done by ushering the sheep multiple times through the race-lines. We have come up with a single automated race-line concept which can perform these activities using a race-line path, a sump with medication for foot-rot, an ergonomically designed enclosure for health checks, and sheep pens to segregate sheep based on the data gathered. The system is integrated with an application platform which gathers the data and makes it available to the farmer in a visual form via charts, graphs and spreadsheets. This will help the farmer make informed decisions and enable them to be more in control of their flock.

Wool Proof

Suhail Bhardwaj and Alex Baigent



Wool Proof is a blockchain-based application, platform, and ecosystem for the wool industry. It resolves issues associated with information provenance, server uptime, and the facilitation of liquid financing and services markets.

It does this by providing an extremely competitive market for applications that exist within the system, both executing locally and on the network itself.



THIRD PRIZE WOOL PROOF

SECOND PRIZE BIO SHEPHERD

AUSTRALIAN eCHALLENGE FRANCE



The Australian eChallenge, powered by The University of Adelaide, offers French students an opportunity to launch their entrepreneurial ventures globally using the Adelaide start-up springboard.

Bloomin

Ecole Centrale, Lyon

Lucas Thinon



Bloomin is a French startup committed to improving people's health and well-being by enhancing air quality. Bloomin recreate pure and natural atmospheres, with connected devices combining air purification and essential oil diffusion.

Bloomin Box, our first product, focuses on the user experience in personal vehicles. Indeed, drivers often suffer from harmful air pollution and are surrounded by a stressful and aggressive atmosphere. Our solution is to clean the cabin in a few minutes and diffuse personalised natural fragrances. The user can easily change the essential oil capsules and launch in one click their favorite diffusion to relax, concentrate or revitalise.

The values of the founders, Lucas Thinon, Etienne Nardin and Sébastien Lordon, led them to build an ethical and eco-responsible healthcare business. Using intelligent technology and the benefits of natural essences, Bloomin products make a real difference to people's health and happiness.

Get your Bloomin device and join the community!

Cameleon

Université de Technologie, Troyes

Clément Michel, Robin Lallier, Théo Bour, Tom Sanchez



The company which simplifies lives.

Have you ever imagined controlling everything around you from your smartphone? At Cameleon, we make this dream come true. Using NFC technology, we simplify, accelerate and modernise users' interface. We have developed our system for all kinds of services companies, and we adapt to the information system of the company to help them improve the customer experience through a wide range of user interface simplifications. With Cameleon, you can order at restaurants without waiting in the queue, find out about your transport arrival time or get adapted information about a product when there is no shop assistant available.

We want to adapt our idea to a large number of sectors with one idea in mind: Life is simple with Cameleon. If it is your dream too, join the Cameleon community!

Clothes’Up
EFAP, Paris

Josephine Marquardt, Sophie Jaglin, Marion Stefani, Camille Langlois and Margaux Houard

We offer a service of instant shopping using the internet in collaboration with many brands, with a delivery anywhere in Paris within 2 hours.

People do not like to wait for something. They want to have everything as quickly as possible. Indeed, when we buy a garment, we are very excited about it, so we want to show it to friends upon purchase. We are in a world of immediacy, so our concept matches this problem with a solution that is faster than classic delivery.

- We offer a service in collaboration with clothing brand applications and websites.
- The Clothes’up function locates which stores have your product and the sizes in stock, and has it delivered.
- According to the distance, a fee is calculated. We will be able to propose different methods of delivery like car, bike, and so on.
- Clothes’up also offers a return functionality where a driver picks up the product within 2 hours.

Delete over time.
EFAP, Paris

Caroline Dupuy, Anaïs Gaillard and Natacha Astaes

A break-up is never easy. Sometimes, you don’t have friends to share your feelings with, nobody understands your sadness, and your ex’s gifts keep reminding you of happier times which makes you even sadder... you need a treat to feel better!

Our first plan is to sell boxes with different themes in which you will find objects that are going to boost up your confidence and bring back your joy. Theses boxes will be the solution to your problem and the treat you offer yourself to feel better.

Our wish is to, later on, create a community which can give you advice, make you feel better, let you know you’re not alone, and help you to move on.

EcoBioTech
EM Strasbourg Business School, Strasbourg

Zbigniew Mazurak and Regis Dominiak

The Carbon Capture and Transformation team

We intend to revolutionise both energy-intensive industries and food production for humans and animals. The former will soon need to significantly cut their CO2 emissions, because the average European demands ever more vigorous action to stop climate change. European governments are obliging by increasing the carbon tax (in

France, it’s set to rise to 86 €/t in 2022), and the EU plans to cut the amount of emission permits in its cap-and-trade system.

Meanwhile, human and animal food producers must conform to the new, rapidly growing consumer demand for natural, organic food and stop using old, artificial ingredients.

We want to help both groups. How? By capturing heavy industries’ CO2 emissions at their source and pumping them into water tanks (‘bioreactors’) filled with algae, which will convert the CO2 into oxygen and carbon, feed on the latter, and replicate, yielding biomass sellable to food and cosmetics producers.

Idea Box
IPI-ISIACC, Chalons-en-Champagne

Indiana Pug, Fabien Devaux, Pierre Jourdain, Aymeric Muller, Timothée Poyard and Alexandra Jalaguier

Our concept is an anti-noise pillow with a wake-up function. The principle of our idea is a pillow that minimises (in the best case scenario stop entirely) external sounds but which will wake you up at any time you choose. This will permit you, for example, to fall asleep whilst travelling (for example, in a train) without being afraid of waking up too late.

Have you ever been in a situation where it is too noisy to fall asleep but you don’t want to use earplugs? The Idea Box team have certainly had this problem so we have found a solution for you! If this concept wakes any interest in you, please wait for our innovative pillow, coming soon.

Joue-la comme Wolfgang
EFAP, Paris

Pauline Lepage, Margaux Pailier and Clara Tellio

At Joue-la comme Wolfgang, we believe in passion that comes from small things. That’s why our startup has created the first platform dedicated to renting instruments and music equipment between individuals.

Whether you are looking for a studio for your first vocalisations or whether you want to give away your violin for a while, Joue-la comme Wolfgang puts you in touch with other enthusiasts near you and ensures that your transactions are secure.

Share your passion and develop new talents with Joue-la comme Wolfgang!

La cantine verte
EFAP, Lyon

Cassandra Bouvier, Charlotte Roche, Maëva Duvergey and Adrien Richard

La cantine verte is a zero waste restaurant which fights against food waste. It’s a restaurant made of recycled materials. The

lighting system will be provided by LEDs to ensure low energy consumption. The dishes and cutlery will be metal for people eating on the spot, and made of cardboard or recycled paper for take away. We will promote short circuits for sourcing food and beverages from local producers. The menus will be changed daily according to the arrivals and the availability of the products. We will encourage our consumers to take any uneaten food home. The remaining food will be composted in our compost at the back of the restaurant.

Mov’eat
EFAP, Lyon

Esmeralda Carrere, Romain Jarrier and Florian Gbikpi

Mov’eat, a young startup created by Esméralda Carrere, Florian Gbikpi and Romain Jarrier, is a personalised restaurant for people who are worried about what they eat and whether it adequately fits in with their physical activity and goals.

Unlike other restaurants, Mov’eat proposes ultra-customised meals but also considers the client nutrition follow-up, thanks to a mobile app, a multitude of food products and menus created with professionals. The restaurant will also have a smoothie bar where people can get healthy juices. Mov’eat will be partnered with a gym and membership with them will provide customers with discounts on our products.

Innovative, evolutionary, digital and careful of its clients’ needs, Mov’eat will grow through time to propose the best service.

NeurON
Universite de Technologie, Troyes

Laurent-Edouard Vlavonou, Hugues Chocart, Téo Kowalczyk and Antoine Gruchet

Nootropics, referred to as ‘Smart drugs’, are molecules, natural or not, which are able to improve and/or boost cognitive functions. They are used in many medical fields and can have beneficial effects on memory, concentration, mood, alertness, anxiety, creativity, learning and more.

Despite their potential and the huge possible application field, the use of nootropics remains confined to a specific niche. Furthermore, it is very difficult to get these products in Europe, not because of a lack of market, but because the use of smart drugs is a recent phenomenon and legal issues can scare off potential developers.

The goal of this entrepreneurial project is to popularise nootropics by introducing them innovatively in everyday life: Create a new consumption mode, highlight new fields of application and market them intelligently. This project is the first step towards a greater ideal: Transcend actual human capacities.

Open Noise
Ecole Centrale, Lyon

Amelie Cunin and Julie Leynaud

Open Noise is a collaborative platform aiming to connect students from different majors, with different skills, to help them create multidisciplinary teams and launch their projects. Once the team is created, they can choose professional mentors to guide them through the project. Open Noise simultaneously allows students to develop their experience and business to meet enterprising and dynamic future graduates.

PASST
EFAP, Lyon

Kevin Cosgrave, Julia Neollier and Mélanie Pighetti

PASST is a revolutionary way to buy and use ski passes/lift tickets with your smartphone. This technology allows skiers and snowboarders to skip the long queues at ticket offices and head straight to the slopes. This application will be developed for iPhone and Android.

Utilising pre-existing RFID and NFC technology, PASST is compatible with all kinds of different turnstiles. This makes it possible for PASST to be adapted to any type of business that uses a RFID turnstile system, not just ski resorts!

PASST will have an interface that allows you to search ski resorts and buy various lift tickets. Revenue from this startup will come from a small percentage taken from each purchase and the possibility to sell the data collected from users.

Currently there is no system that is similar to PASST and we aim to become the new go-to application for buying lift tickets, saving the customers time and the ski resorts money.

Potaj’aime
Ecole Centrale, Lyon

Michael Ventura and Tanguy Cazalets

Potaj’aime is a connected indoor vegetable garden to grow your own vegetables at work.

With the help of an app, you always know how to take care of your vegetables, dividing tasks is easy and you work together with your co-workers to grow your vegetables.

A lovely touch in your open space, a great way to connect with your co-workers while gardening, and no more disgusting coffee and chocolate bar for your breaks. Instead, come back with your cherry tomatoes and your home-made ginger lemonade!

Doll up your vegetables, plan the harvest for apéritif or a meal with your team. There’s poetry around vegetables, good vibes and smells. It’s a great way to revitalise yourself and your workspace.

Skip the Line
EFAP, Lyon

Nina Rethaller, Ines Karembeu, Armance Potel and Camille Pauly

The core problem is TIME. When you want to enjoy trendy places but don’t want to join a long and useless line, you need to get there very early. Sometimes you are still at work and it doesn’t fit into your schedule. Maybe you could get someone to do it for you, for a small price.

We have designed a geo-localisable app that allows you to order a person to stand in line for you, for example, to recover papers from prefectures, for dedications, shows or restaurants. The goal is to save time and comfort in everyday life.



Skyes
EFAP, Paris

Bastien Nouri, Thomas Vicic and Duquet Maelyss

Everybody has visited a photography exhibition. However, we noticed that exhibitions could bore some people. What seems to be missing in a photography exhibition is originality, the scenography, life, the history of each picture and communication. There is not enough entertainment at a photography exhibition. Usually, it is very silent and people can't talk too loud.

We are going to use different places or museums to create our own exhibition. Within this place, we will reorganise everything to create a real, new experience. As in all photography exhibitions, we will exhibit pictures but in a different way.

Squeeze the Box
EFAP, Lyon

Helene Collin, Julia Dutruilh and Pauline Czyba

A myriad of us country folks, highlanders, foreigners, Basques, Bretons, expats and even some Parisians share an endemic feeling: we do not adore Paris. What's more, we cannot find a good quality of living. We miss our way of life and feel as though the city squeezes all the energy out of us.

This is a problem that concerns many people. Whether for work or study, Paris is an undeniable hub and the next step in one's life and career, and some of us have no choice but to stay in the city, at least for a given period of time.

We want to create a box to give happiness, motivation and energy to all the homesick

folks who have to live in Paris. Every month this box offers a few gifts in order to give good vibes. We will create partnership with other companies who will provide something to put in the box and help give a mental boost to survive in the jungle of Paris. These might include, for example, theatre or movie tickets, antipollution cream, vitamin C cocktail samples, mini light therapy, hangover cure recipes, detox tea, free Uber lifts, or train tickets.

Suzette & Cie
EFAP, Lyon

Ophélie Insardi and Myriam Billet

Breakfast is the essential meal of our day, according to several scientific studies. The problem is that nowadays people haven't enough time or inspiration for a good and healthy breakfast. But they will have one if they have time. For that matter, people increasingly try new solutions like take-away breakfast.

So today, we offer our new solution! People could soon order a healthy breakfast made with high quality and sustainable products very carefully chosen and according to their personal preferences.

Orders will be made via a mobile app and a chatbot which will allow people to have a good breakfast delivered wherever they want in 30 minutes maximum.

We also propose brunch on the weekend and a special formula for events such as birthdays, bachelorette parties, etc.

Our offer is for individuals and companies, possibly through subscription.

Trebuchet
École Centrale, Lyon

Roland Lamidieu

The problem is quite straight forward: it is very difficult for new start-ups and even for more established companies to build a mobile app from scratch (Android or iPhone). In recent years, more and more digital projects require an app, whether as a main product (like Uber), or as an extension for a website, to reach more users (like Facebook). It is usually difficult to build the very first version of an app, because of the constraints: the whole interface needs to fit on such a small screen and all interactions are touch-based (clicks, swipes, etc). Add to that the fact that different phones have different screen sizes and pixel density, which complicates things even more. Mobile development isn't easy.

Trebuchet provides a "packaged" service which is a simplified, all-in-one solution for building a mobile app. I'm targeting start-ups that have raised money and want to launch a new product.

I will focus on the things start-ups really care about:

1. **Money.** The first version of an app is usually seen as a test, to see how the market reacts. Start-ups should not pay tens of thousands of dollars for a first version (it is actually very common).
2. **Time.** Start-ups can't wait a year to launch. The app needs to be ready to launch in a month or two.
3. **Getting real customer's usage data.** The main goal with a first app is to be able to test whether the app brings value to the customer, and to see which features are used, which are not and which are lacking.

Wasterday
EFAP, Paris

Cindy Kosmala, Lea Saada and Zelia Ricat

The problem: People buy supermarket products that they put in the fridge and then forgot to eat before the expiration date. We identified this as a problem because tonnes of food are thrown out every year. Waste food is a problem.

The solution: A mobile application that selects products by expiry date. Scan the barcode with our smartphone, so that all the expiry dates are saved. You don't need to open the fridge every day to check all the supplies. The app will include close expiry date alerts, ingredients lists, calories, allergen warnings, and origin of products. The premium version of the app will also provide meal preparation suggestions according to expiry dates, recipes cards and a shopping list.



FIRST PRIZE
NEURON



SECOND PRIZE BLOOMIN



THINCLAB CHALONS INCUBATOR PRIZES IDEABOX



ECOBITECH



THIRD PRIZE DELETE OVER TIME



BEST APP OR SOFTWARE PASST



JUDGES AND MENTORS

All of our judges and mentors are volunteers representing government and private industry, investors, entrepreneurs and expert academics. They add incredible value and depth to the eChallenge program and we thank them all for their commitment and support.

Mentors



Doug Adamson
Accelerating
Commercialisation,
Commercialisation Adviser

After completing training as an electronic engineer in

Adelaide in 1980, Doug travelled overseas where his first proper business in the UK involved producing radio programmes and interviewing rock stars such as the Rolling Stones, Paul McCartney, Talking Heads, Sting, and Pink Floyd etc.

Doug enjoyed founding, growing, managing and selling several businesses in the UK, Europe and SE Asia in media, distribution, and content, and then relocated back to Australia in 1995. The web beckoned in 1998, and Doug grew a web software company in Sydney from 4 to 25 people in 3 years (Business Review Weekly Fast 100 in 2001).

After some time in Melbourne running a software and services business that had acquired his previous web software operation, Doug returned to Adelaide in 2003 and saw life from the other side, spending the best part of six years as an Investment Manager at a seed/early stage technology investment fund. He co-founded an agricultural consulting business that delivered specialised training to over 120

farmers in SA, Vic, and NSW from 2008 to 2010. He has also co-founded businesses in data analytics, loyalty programs and consulted to dozens of SMEs, acquired a boutique tourism business, and made several angel investments.

Now Doug loves filling his days working with innovative, fast growth companies, as a Commercialisation Adviser to the Commonwealth Government Accelerating Commercialisation program. Besides qualifications in electronic engineering, finance, and venture capital, Doug is also a Graduate Member of the Australian Institute of Company Directors.



Philip Amery
Executive Director,
Amery Partners

Philip is a Private Banking professional based in Sydney, and a results driven

wealth manager with a passion for value investing, asset allocation discipline and long term thinking. Amery Partners' core assets are a deep understanding of capital markets and international finance, absolute discretion and a willingness to make 'client first' a reality, not a slogan. Fortunate to have a talented and hardworking team that share the ethos.



Andrew Bensley
MoodyCrab

Andrew has worked in the industry since 2003 at companies such as DDB Sydney, Clemenger BBDO,

and JAM, and he is now Creative Director and founding partner at MoodyCrab. His work has been recognised both nationally and internationally and he has worked on key brands including McDonalds, Energizer, Volkswagen, and Gatorade. He is a strategic thinker and creative powerhouse that succeeds in producing arresting and compelling marketing strategies and campaigns.



Stephen Boyd
Senior Consultant,
Castlepoint Consulting

Stephen is an experienced leader in business management and marketing

at a national and international environment, and he is totally committed to achievement with an outstanding record in recruiting, training and motivating team members to achieve results based on performance, excellence and individual development. Stephen has extensive experience in leading organisations and individuals to determine

their strategic business and marketing plans and developing the architecture to support them. Stephen also has a proven record in change management and organisational restructuring, an in-depth theoretical and practical knowledge of marketing, brand development and general management and an ability to lead and manage cross-functional project teams and foster strategic alliances.



Rick Carter
eNovasia

Rick has worked with and for entrepreneurs and innovators most of his working life, building

national and multinational businesses and along the way coaching, managing and mentoring world champions and Olympic medallists in track and field. After a lengthy career in technology, sales and marketing, media and communications, Rick is now focussing on helping people looking to develop disruptive innovation in their business. His key interest and focus now is on the future of work and the sharing/collaborative/trust economy. In particular he is helping people understand the outcomes of the latest business and technology trends and utilise them in existing and new businesses. Rick aims to help people develop their creative and critical thinking skills, and problem-solving capacity (e.g., selling skills) along with other cognitive, social and behavioural knowledge to encourage people to work with robots (e.g., Artificial Intelligence) rather than be replaced by them (Automation).

As a Founding Director and RingMaster at See Global Media (Singapore) Rick is developing opportunities for innovative media businesses to leverage IPTV and Digital Signage in China and across Asia, working closely with the world's biggest brands and media/advertising companies. A strong interest in Renewable energy and Autonomous Vehicles has resulted in Rick acting as Asia Pacific Director for UK company Redivivus who are investing Billions in large scale Renewable Energy projects around the world by leveraging existing dormant unencumbered assets. In recent years Rick has worked as a mentor with Flinders University's New Ventures Institute and the University of Adelaide's ThincLab. In recent years Rick began working with Carnegie Mellon University Australia to assist recent Masters Graduates to develop their ideas into real businesses (including drones in agriculture, Predictive Asset Management, 3D manufacture) and assist them to build for the world from Adelaide.



Lorraine Caruso
Methodic Business

Methodic Business is a business and leadership skills coaching and advisory company established

to partner with organisations, business professionals, and university graduates who are looking to strengthen their business and leadership skill capability and effectiveness for the improved performance of themselves, the business, and career growth prospects. Methodic Business has developed and delivers unique skills courses and one-on-one coaching, focusing on the thinking, actions, behaviours, and habits which are the most effective to achieve business objectives.

Built on a platform of practical business skills, Lorraine brings the theory to life with stories and lessons from the business 'front-line', including what works best in teams, leadership, planning, strategy, communications, presentations, and how to thrive in the very fast and high performance world of business.



Sean Grealy

Sean Grealy is the Founder of CARE Konnect, and a student at The University of Adelaide where he is studying a Bachelor of Innovation and

Entrepreneurship. Sean competed in the Australian eChallenge in 2016 and was a runner-up in the AgriFood and Wine category.



Graham Hartland
Business Coach and Mentor,
Top Gun Business Academy
International

Graham has more than 35 years' experience in both

Australian and International Business and has held a number of positions and roles ranging from Business Owner, Executive Manager, Investor, Mentor, Business Coach, Divisional Manager, Operations Manager, Factory Manager, Engineering Manager, Project Manager, Estimator and Electrician in various sectors.

Graham has a proven ability to understand a business and its value proposition in a short time frame then develop the skills of the work force to provide value outcomes and results for the business. He is also able to effectively communicate with Boards, Committees, Governments, Customers, Staff, Suppliers and Team members to ensure the optimum for the business and build lasting relationships. Graham is accountable for Strategic Planning, Business plans, Hiring and Firing, Profit & Loss, Balance Sheet, Capex modelling, Marketing,

Safety and Staff welfare in line with Policies and KPI's, and has a proven ability to work in any country and environment and adapt to the situation/task in hand and meet all the expectations required.



Mark Hollis
Beach Energy

Mark is a highly experienced finance professional with over fifteen years working in Australia and internationally.

During his career he has worked with companies of all shapes and sizes, across all industries, with the view to investing across the entire capital structure from senior debt to mezzanine financing to equity capital. Most recently, he spent four years in the Merrill Lynch BofAML leveraged finance team in New York City, before moving to a boutique venture capital fund where he spent over five years investing in high growth start-up companies in the southwest US and Mexico. He has recently returned to Australia where he is in the investor relations team at Australian oil and gas company, Beach Energy.



Grant Hull
Enabled

As CEO, Grant has guided Enabled to grow and evolve into a successful innovation firm, by blending business,

technology and creativity. Graduating with honours in Business Information Systems and Advances in Human-Computer Interfaces, Grant is formally qualified as a consultant and business analyst.

Additionally, his study in Design Thinking, innovation processes, and the scientific method, coupled with lifelong learning ethics, has helped Grant construct a multidisciplinary team to succeed in a fast moving world. Grant served for many years as President of South Australia's Interactive Media Industry Association and is also a popular presenter and speaker in the digital media sector.

Grant has appeared on ABC's Inside Business, Qantas Radio Business Channel, the Australian Documentary Conference 'DocWeek' and spoken at nationally-focused events like Marketing Week and Family Business Association annual conference, with a highlight of presenting on the future of content at the KANZ (Korea-Australia-New-Zealand) Broadband Summit.

Grant is also appreciated across the tech innovation scene, where he acts as mentor on developing new business models and designing great user experiences within several innovation and start-up programs delivered by government and universities.



Max Masiello Bank SA

In 2003, Max completed a Bachelor of Economics degree at the University of Adelaide, just before joining BankSA Business Banking division for which he has been working in different roles for the past 15 years.

Max is currently a Relationship Director in the Consumer & Transport Industry Team based at Norwood, managing a portfolio of corporate clients in these industries. Over the years, Max has been a keen participant in community groups and mentoring projects, and has been involved the University of Adelaide's eChallenge, both as participant in 2002 with a company called FashionTech (runner-up) and as mentor in the past few years later.

Recently, Max was appointed board member of the BankSA Foundation, which provides significant grants every year to charitable and community groups based in South Australia & Northern Territory.

Max grew up in Italy near Rome before migrating to Australia in 1999, deciding to migrate after meeting his lovely wife Rosa while she was holidaying in Italy in 1995. They have been happily married since and have two children of 13 and 11 years old respectively.



Alistair McFarlane General Manager Asset Development, Beston Pacific Asset Management

Alistair is the General Manager for Asset Development at Beston Pacific Asset Management (BPAM) which is responsible for capital raisings in the Agricultural Business sector, including the 2015 \$127M ASX listed Beston Global Food Company (BGFC).

Alistair has 30 years' experience in Corporate Finance, Asset valuation and economics, business and project management. Alistair has been previously engaged with KPMG Corporate Finance, CBRE, The Beston Wine Industry Trust, The University of Adelaide's Commercialisation Company ARI and the Beston Parks Group. He holds a Bachelor of Agricultural Science degree, a Masters in Applied Finance and Investment, a Masters in Business Administration and is a Certified Practising Valuer

His Australasian roles have included technology commercialisation, new product development, company start-ups, fund raising in new and grow out agricultural based growth companies, particularly in the premium wine and large-scale dairy farming segment; employing new technologies and products to enhance bottom line share holder performance.

BGFC is a vertically integrated 'paddock to plate' business that successfully operates and invests in food, beverage, and agricultural assets, being founded by Dr Roger Sexton in 2014. A strategic values based management approach, development of its food counterfeit technology and offshore in-house sales teams (China, Singapore, Thailand, Vietnam, Malaysia and Brunei) is expanding international company growth. Alistair's role in BGFC is the responsibility for the origination, review, financial – project assessment and recommendations for Business investment opportunities, and New Product Development to meet this expanding international consumer food demand.



Mark Morelli

Mark is a chartered accountant with 35 years' experience across most sectors of the economy, including government, manufacturing, professional and mining services. Over the last five years, Mark has operated his own advisory practice. His roles have included being CFO and company secretary of a newly created electricity generating entity, financial improvement programs, board advisory roles, and program and project management.

Prior to this, Mark spent 12 years in senior commercial roles as an executive general manager and group finance director. In these roles, Mark conducted due diligence and acquired business in Australia and overseas, and was responsible as company secretary for continuous disclosure for an ASX listed entity, and for IT, HR, safety, strategy and risk.

Mark's career also includes 15 years in professional services as a director of PwC and partner with a mid-tier firm. In these roles, he conducted business valuations, acquisition due diligence, prepared strategic plans, managed IT implementation projects, audited businesses and run insolvency engagements. Mark is a facilitator and graduate of the Australian Institute of Company Directors and has been an executive director, non-executive director and company secretary on numerous boards.



Anthony Moore Cavpower | Lifeflow Coaching

With a career spanning over 35 years in construction, Anthony brings a wealth of experience and

understanding to the roles and positions that he has fulfilled. Anthony has a diverse knowledge of commercial, civil, and high-rise construction including site and project management of apartments, schools, bridges, warehouses, refurbishment and green field's projects. He also has skills and experience in programming, training, business systems in OH&S and quality assurance and tendering.

Anthony brings with him a multitude of personal and business skills, including qualifications in coaching, mentoring, presentation, NLP and DISC profiling.

Anthony has fulfilled leadership and management roles in diverse and dynamic construction environments engaging with clients, consultants and construction teams, building strong relationships through collaborative and open communication. The wealth of experiences has equipped him with the resources and resilience to lead, manage, communicate with and understand teams and individuals.

Anthony is currently fulfilling a project management role with Cavpower, and also provides personal and business coaching and mentoring through Lifeflowcoaching. His involvement with community includes being a mentor for the eChallenge and the UniSA business career mentor program, program director for Women in Innovation SA, Royal Society for the Blind leadership mentor, and International Coaching Federation leadership team member.



Jessica Nation Moore Stephens

As a business adviser at Moore Stephens South Australia Jessica assists clients with a range of tax and general business advisory services ranging from operations and planning, through to compliance and reporting. Jessica is passionate about using her business advisory skills to help support and assist future entrepreneurs create successful business outcomes.

Jessica is a member of the Institute of Chartered Accountants Australia & New Zealand and holds a Bachelor of Commerce (Accounting) from the University of Adelaide.



Don Perugini Life Whisperer and Presagen

Dr Don Perugini is an academic, entrepreneur, and an internationally renowned expert in cognitive science and artificial intelligence (AI) and its application to predicting and automating human behavior. Don spent the first ten years of his career as a scientist in the Department of Defense developing new technologies to mimic human intelligence and reasoning, collaborating with defense organisations in the US (DARPA), UK, Canada, and Singapore. Don was the founder of the global technology company ISD Analytics, where he led the commercialisation and development of its award-winning predictive analytics product Simulait, which was acquired by Ernst and Young (EY) in 2005 and integrated into EY's Synapse global suite of analytics products.

Don has authored various research papers and is the recipient of many innovation awards and grants. Don is now working with and mentoring various innovative technology start-ups, and is co-founder of Presagen and Life Whisperer. Presagen delivers software products and services to automate complex human behaviour, and Life Whisperer aims to apply image analysis techniques to better select viable embryos for implantation in IVF.

Matthew Quast

Principal, Bespoke Consultants and Advisory

Matthew has 25 years' experience across the logistics, mining, government and start-up sectors, and has worked on a vast range of projects throughout his career. Some highlights include initiatives saving the South Australian community \$100m per year, continuous improvement measure for a multinational that increased productivity by 29.6%, and a sales and marketing analysis that identified opportunities to increase revenue by \$20m per year. Matthew's experience has informed him that collaboration is critical to success, and that a fresh set of eyes can identify amazing opportunities for long-term and sustainable growth. His areas of expertise relate to strategy, growth, marketing and sales, people and organisations, change management and sustainability.

Michael Simpson

Moore Stephens

Michael is a Business Adviser with Moore Stephens South Australia. He works in financial accounting and facilitating direction for businesses

across a variety of industries. As a provisional member of the Institute of Chartered Accountants Australia & New Zealand, Michael strives to provide the highest quality of service and endeavors to deliver the best possible result for his clients. Assisting in the day-to-day operations, Michael focuses on developing business strategies aimed at improving the financial outlook for companies and individuals. With a strong interest in family business, leadership, and innovation, Michael's enthusiasm for the financial accounting sector is constantly growing. This has developed into a passion for Entrepreneurship and start-ups, with a particular focus on educating in relation to the financial expectations and budgeting the viability of the business. Michael holds a Bachelor of Commerce (Accounting) and a Bachelor of Business (Finance) from the University of South Australia.



Rye Smith Spruik Digital Pty Ltd

Securing his first client at 12 years old, Rye has been involved in tech businesses ever since and is currently

the Managing Director of Spruik Digital. Having won the eChallenge competition in 2015 with his concept, 'Shift', Rye has used his experience and knowledge of the competition and the business world to assist and educate future entrepreneurs of Adelaide. With a holistic approach to business and a strong background in sales, technology, marketing and project management, teams were able to bounce off ideas and further validate and iterate their business and product concepts.



Craig Swann

Craig's an Internet Entrepreneur that built his award winning agency CRASH!MEDIA through hands-on shaping of the

Internet experience itself via interactive innovations since the mid 90s. He's helped Fortune 500 companies develop and deploy national and international marketing campaigns while building digital products, interactive experiences and digital platforms that have engaged tens of millions. He built the web's first drag and drop interface, the Internet's first music making experience, Looplabs, and a host of other innovations. He's an author, thought leader, international speaker and co-launched Canada's largest design and technology conference that has expanded into Europe, USA and Asia. He has a passion to educate, empower and inspire at the intersection of business, technology and imagination.



Wojtek Swietek Accessible Housing Association

Wojtek Swietek has held numerous consulting and executive roles in the service

industry including over 15 years' experience in health and aged care. Wojtek's professional affiliations include; the Australian Institute of Company Directors, Australasian College of Health Service Management and the Adelaide University MBA Alumni Association. He also enjoys donating his time to charitable organisations and over the last seven years, events such as this year's ECIC eChallenge. He is married with four children and enjoys travelling and adventure activities such as four wheel driving, scuba diving as well as snow and water sports.



Richard Thomson Mentor

Richard has wide ranging experience in manufacturing, technical development and business

management in the sugar industry, petrochemicals, oil and gas industry and solar thermal systems and has taken products from the patent stage through to market in two different industry sectors. Richard has also successfully run a number of his own private businesses with two of these being on sold to major international operators. He has experience at Board level in government business enterprises, listed companies and tertiary research organisations. Most recently Richard has consulted with CSIRO in identifying pathways to commercialise their intellectual property. Richard is keen to share experiences with others and assist in developing business opportunities in great business outcomes.

Richard's main areas of expertise are in Technical development, Manufacturing/ production at small and large scale, and Business management/ strategic planning. His interests lie in moving concept to product, developing systems that apply renewables successfully and economically, and creating meaningful strategic and tactical plans for business development



Tom Welsby Managing Director, Resvu

At the age of 23 Tom started a Body Corporate Management company consisting of approximately

900 apartments around Adelaide. Within the space of 2.5 years Tom saw growth of over 200% in his business, resulting in the receipt of the Award of Excellence handed down by Australia's largest privately owned Body Corporate Management firm in March 2017. In July 2017 Tom started his second company to solve the major problem of communication between residents and building management in high rise buildings around the world. Within 3 months Tom received investment from one of Australia's largest building management firms and a large hardware distribution and supply business. In November 2017 Tom and his team took out the Australian eChallenge for this software product. Fast forward to August 2018 and Tom and his team have expanded into Melbourne, Sydney and Brisbane as an innovative tech company providing resident engagement and building management systems never before seen in the industry. Tom and the team plan to expand globally within the next 12 months.

Judges



Sam Aghdam
University of Adelaide

Sam Aghdam is passionate about following his curiosity and is fascinated by ideas. He is keen to make a difference as an entrepreneur and bring ideas to life using cutting edge technologies. With a multidisciplinary background, Sam is currently focused on providing flexible solutions to educational institutes to enable them to achieve their full potential.

After finishing his degree in Mechanical and Aerospace Engineering, Sam was involved in overseas projects with International Space University (ISU), European Space Agency (ESA) and National Aeronautics and Space Administration (NASA). Shortly after his return to Adelaide, Australia, in 2015, Sam expanded his skillset in the Fitness and Digital Development Industry and subsequently launched two successful businesses.

Sam is currently working at the University of Adelaide as the Digital Development and Systems Manager and in his spare time runs his reporting automation business and helps with local start-ups. Sam is driven by his desire to learn in a constantly changing world.



Dr Stephanie Agius
BSc (Hons), PhD, MSTC, GAICD

Dr Stephanie Agius is the Partner Engagement Manager in the Division of Education, Arts and Social Sciences at the University of South Australia. Stephanie has over 20 years' experience working with research organisations and companies in technology transfer, communication and business development.

Stephanie has business qualifications specialising in technology commercialisation and is a Graduate of the Australian Institute of Company Directors



Prof Bradley Alexander
University of Adelaide

Bradley Alexander is a senior lecturer and Director of Teaching in Computer Science at the University of Adelaide. His teaching interests are algorithms, algorithmic problem-solving, and research skills. He has a strong interest in teaching practices that encourage students

to refine their own ideas and skills and to investigate problems that are relevant to their own interests.

Bradley's research interests are in using computational search to explore design spaces, including evolutionary art, water distribution networks, discovering geoscience models and software design. He is also interested in the use of automated search to help improve functional and non-functional aspects of program behaviour, particularly program and energy bugs.



Herve Astier
Neumann Space

Herve Astier is the COO of Adelaide-based start-up Neumann Space. Herve is a technically astute and business-savvy professional with a long history of technology commercialisation spanning over 20 years in the US, Europe, Asia and Australia, in both Industry and Government.

The first 15 years included various global roles for a fortune 500 high-tech company headquartered in Silicon Valley covering consulting, project management, pre-sales and business development, technical account management, European account management, worldwide customer service management, program management and global product marketing.

Herve then moved to South Australia and decided to use his skills and experience with start-ups supporting 100s of them accessing State Government grant programs (BioSA and TechInSA). Over 5 years he helped many entrepreneurs in various industries (Bioscience, MedTech, IT, Space...).

Being an engineer with an MBA, Herve loves to find new technologies, understand how to develop them and set up the plan to bring them to global markets.

Herve also spends time mentoring entrepreneurs from high school to PhD level with St Peter's Girls, the University of Adelaide (eChallenge, BioDesign), Hybrid World and the Australian Academy of Technology and Engineering.

Herve is a Graduate of the Australian Institute of Company Director and a member of various committees and advisory boards.



Emma Beames
Flinders University

Emma Beames is a corporate lawyer with over 20 years' experience, specialising in intellectual property and commercialisation. She is currently a PhD candidate focusing on machine learning and data integrity in legal tech, is the Senior Project Manager of a process automation product at Flinders University and was the founding director of Venture Dorm, the New Venture Institute's pre-accelerator program for start-ups.



David Byrne

David specialises in planning and marketing for small to medium enterprises. As well as conducting the unit Opportunity Assessment for the University of Adelaide he has also conducted courses in Entrepreneurship/Innovation and Small Business Management and has extensive international experience in the exporting and delivery of SME programs.

David was a contributing author of the successful Small Business Management series of texts that was published by Adelaide TAFE. He has a degree in Business Management and a Diploma in Small Business Management. He is also an Accredited APEC Small Business Counsellor and assists in the University of Adelaide Thinclab program. Recently he has been assisting non-profit organisations and undertaking further international work in the SME sector.



Bill Chin
University of South Australia

Bill is a passionate business development and strategy management professional, having successfully

served senior roles leading global business development managing sales, and marketing across major continents in Asia, Greater China, Europe, India, Middle East, and US.

He has built a career based on innovation-led digital technologies spanning over 28 years. Through his career experience, he has established a successful value-adding track record from consulting to client services; from entrepreneur to enterprise development; from national brand building to international sales, marketing, and



business development; from research and analysis to global rollout of socio-economic strategic initiatives.

From his tertiary engineering training and years of industry experience in international marketing and business development, Bill has since channelled his efforts in sharing his experience within the academics: tertiary research and teaching at university level. All the while he continues his passion for helping to bring value in building the entrepreneurial community, and sharing and supporting the growth of potential innovation commercialisation.



Daniel Conley
University of Adelaide

Daniel is a PhD researcher that is focused on how to more effectively combine engineering and entrepreneurial approaches to accelerate sustainability in cities. This combines his background in civil engineering and his work in the Entrepreneurship, Commercialisation and Innovation Centre (ECIC) at the University of Adelaide. Daniel is excited by the potential that entrepreneurship and innovative business models have to achieve integrated benefits for society, the economy, and the environment.

He was the founding President of the international award winning Adelaide Sustainability Association which grew to over 1,000 members during his presidency, and is the founding Curator of Adelaide's Global Shapers Hub (an initiative of the World Economic Forum). He is one of two inaugural scholars in South Australia to receive the Westpac Future Leaders Scholarship, which has taken him around

the world to learn from and collaborate with leaders in his field. Daniel won the Climate-KIC European 'Urban Transitions' innovation bootcamp in 2017 with his team's urban development plan for Bologna, Italy. He has worked in Dubai with government departments from across the Middle East on sustainability and innovation, and undertakes industry-led research to support the work of the Sustainable Built Environment National Research Centre in Australia.



David Coyner
Director, Tin Roof Financial Services

After graduating from the University of Adelaide's Roseworthy campus with a Bachelor of Agriculture in 2005, David spent time working in the wool and livestock industry, before heading to Queensland to spend some time as an agronomist. David was then drawn back to his home state of South Australia when an opportunity came up within the Agribusiness team at a major bank, igniting the passion that David now has for the finance industry.

Over the years, in order to broaden his knowledge and experience in different facets of the agricultural industry, he worked for Agricultural technology companies across the Asia Pacific region. But the desire to be in the financial sector proved too strong and he returned to another Agribusiness job in a bank.

Now, rich with experience, it was time to put this knowledge to good use by establishing Tin Roof Financial Services, a financial broking business providing services for predominantly Agriculture along with various other industry sectors.



Carolina Diaz
Australian Wool Innovation

Carolina studied Veterinary Science at the Universidad Complutense de Madrid and proceeded

to work for a large public company in Spain that specialised in providing consulting and technical assistance in the areas of agriculture, forestry and rural development. This is where Carolina developed her career as a Project Manager. She moved from Spain to Australia, and in 2015 gained her certificate as Project Management Professional through the Project Management Institute. She has extensive experience coordinating programs with regards to Animal Production and Software Development. Carolina started at the Australian Wool Innovation this year as Program Manager in Farm Automation and Reproduction. She is passionate about working on innovative solutions to make wool production more efficient.



Scott Dwyer
TafeSA

Scott's professional career spans over 30 years with positions in the fields of hospitality, recruitment and more recently education. He worked for major hotel corporations across the United Kingdom, Middle East and Australia in Sales and Marketing roles for many years before making the move to work in the recruitment industry in London, Sydney and Adelaide. Being an entrepreneur at heart, Scott launched his own Sydney-based recruitment firm specialising in creative and administrative positions. Scott joined TAFE SA 18 years ago and has since completed a

Bachelor of Adult Education and a Master of Education (Social Justice). Scott has taught a variety of hospitality and marketing related subjects within the International College of Hotel Management and Le Cordon Bleu Bachelor degree programs based at Regency TAFE SA and more recently has developed a bachelor degree program and a post graduate Entrepreneurial program for TAFE SA which he now coordinates. Scott's passion for entrepreneurship emerges from these programs which include the opportunity for students to study with the ECIC and to participate in the eChallenge.



Jeremy Glaros
Executive Director, Executive Education

Jeremy Glaros is head of Executive Education at the University of Adelaide, part of the Adelaide Business School. He has an extensive background in business both in Australia and internationally, having worked as a management consultant with McKinsey & Company in Sydney, as the CEO and co-founder of two fintech start-ups, and as a Division Director and the Head of Structuring for Asia with Macquarie in Hong Kong. Jeremy has expertise in business development, strategy and business transformation built across a variety of industries including banking, insurance, B2B services, agriculture and telecommunications.

Jeremy has a Masters of Finance from INSEAD and an Honours Degree in Engineering from the University of Adelaide. When not at work, Jeremy enjoys spending time with the family, watching documentaries and donating money to friends at the poker table.



Michael Haddy
State Director SA, Advanced Manufacturing Growth Centre Ltd

Michael Haddy joined AMGC in 2017 and is responsible for AMGC's initiatives in South Australia. Based in Adelaide, he brings 30 years' technical, management and operations experience from Defence and Security industries. He ran a software company for 17 years that developed and exported naval combat system simulators and anti-terrorism security solutions to various allied countries around the world. He holds a Bachelor of Computer & Information Science (University of South Australia), and post-graduate qualifications in Management (Australian National University) and Commercialisation (University of Adelaide). He is a patent author, and the recipient of the Asia Pacific ICT award for Research & Development.



Craig Hull
Enabled

Craig's executive role at Enabled is that of a Chief Operations Officer, overseeing areas of administration, finance, HR and production. Additionally, he regularly leads consulting and ideation as part of Enabled's innovation process. In addition to working with established enterprises, Craig has worked with many local start-ups, assisting directly with app development and also mentoring them in strategic execution. Each of these has experienced business success and have been recognised through a multitude of innovation awards.

Entrepreneur within Sports Technology is another of Craig's accomplishments, having lead the creation and successful sale of iSports. iSports features a series of applications used within high performance sport. iSports across the past five years by AFL and NRL clubs, assisting their teams in areas of player management, tactics, and video analysis.

Craig is also a popular mentor with many innovation courses and industry programs offered across Adelaide. The combination of his qualifications, business experience and critical eye, often has Craig included on judging panels of innovation and start-up competitions.



Rajeev Kamineni
University of Adelaide

- Start-up Venture—Bookstore and Coffee Shop retail outlets.
- Start-up Ventures—Business School in a Semi-urban area and a training academy in a tier 2 city
- Diversification—Media and entertainment company into sports
- Active Rotarian for the past decade, currently member of Rotary Club of Adelaide
- Chairman of University of Adelaide Theatre Guild.

Mentored: Education training companies, International Student consultants, Media and entertainment companies.

Rajeev Kamineni started his working career in a bookstore almost three decades ago and then moved onto become an area sales manager with a leading cement company. He is a multiple award winning teacher with teaching stints in Australia, South Africa, Singapore, Japan, India and Dubai.

Rajeev won the Best Business Plan award as part of a team representing Australia in the Moot Corp World Business Plan competition

held at Austin, USA. Prior to joining the Entrepreneurship, Commercialisation and Innovation Centre (ECIC) at the University of Adelaide, Rajeev was Lecturer and Head of Program at the University of Western Sydney and he also lectured at Bond University and Griffith University.

Apart from owning and operating bookstores and café, Rajeev was the Chief Officer managing an Engineering college, two business schools, and a technology park. Rajeev was actively involved in the production, marketing and business development of 14 movies in the Indian film industry. He was also managing a badminton team and a soccer team that were very successful in the commercial league competitions. He is the founder trustee of Small Differences, an organisation working for uplifting the destitute.

Setting up a business school, a retail business and leading the diversification of a media company into commercial sports, has equipped Rajeev with the ability and skills to mentor in the areas of media, arts and entertainment, retail, sports and education.



Mary Kelly
University of Adelaide Entrepreneur Club

Mary is an Innovation and Entrepreneurship student with a passion for sustainability and creating an inclusive campus culture that brings together students from all disciplines to enhance their studies through clubs and extra-curricular activities. As President of the Adelaide University Entrepreneur Club and Co-Founder of innovation-based competition for students, The Seed Round, Mary has experience in connecting students to the start-up community, with a focus on bridging the gap between their academic skills and knowledge and developing an entrepreneurial mindset for the opportunities in the innovation space.



Eloise Leaver
ECIC

Eloise is a Business Services specialist and has had many years of experience in leading administrative teams, strategic planning, financial and budget management, event management and student services management in both the Higher Education and private sector. Eloise has held the positions of Business Manager for the EU Centre for Global Affairs, the Institute for International Trade, and the Entrepreneurship, Commercialisation and Innovation Centre at the University of Adelaide.

Prior to joining the University sector in 2006, Eloise worked as a Budget Analyst and Senior Budget Analyst for the Department of Treasury and Finance (Tasmania) and

was part of the team responsible for the preparation of Tasmania's State Budget. Eloise is a full member of CPA Australia, and holds a Bachelor of Commerce and a Bachelor of Arts from the University of Tasmania. Eloise currently consults for clients in the area of business services, and runs a family business.



Joe Leaver
Leaver & Son Piano and Furniture Specialists

Joe Leaver has worked for the Tasmanian and South Australian state governments, and also has over 20 years' experience owning and operating small businesses in Tasmania, Victoria and South Australia. Joe has tertiary and TAFE qualifications, has acted as a small business mentor and recently travelled to ThincLab Chalons, France with The University of Adelaide. Joe is currently the Managing Director of Leaver & Son Piano & Furniture Specialists with branches in Adelaide, Melbourne and Hobart. Leaver and Son Pianos specialises in acoustic piano tuning, repairs, restoration, removals and sales, and employs nine staff. Joe has been asked to provide expert advice on radio ABC891's 'Ask the Experts' program regarding the piano tuning, repairs and restoration industry and has appeared in feature articles in a number of media outlets regarding the restoration of several rare European pianos.



Hugo Le Messurier
Managing Director, Le Messurier Solutions Ptd Ltd

Hugo is an experienced entrepreneurial business leader with a proven track record of implementing complex business solutions in multinational and SME businesses. He has held directorships and senior management positions in start-ups, and listed and multinational organisations in the USA, EU and Australia and founded, sold and listed companies in healthcare, food, service and consulting industries. Hugo has assisted clients to access over \$40m in grant, private and strategic funding and international licensing deals values at over \$150m. He was a past case manager for the Accelerating Commercialisation and COMET grant programs supporting Australian innovators and facilitated industry training courses for the SA, VIC, ACT and NSW departments of innovation. He has evaluated over 450+ businesses and mentored over 45+ entrepreneurs and start-up businesses and with research organisations, government organisations and multinational companies in a diverse range of industries.



Brijesh Mangla
Switched on Kids

Brijesh has an Electrical Engineering degree and a Masters in Business Administration and has over 20 years' experience in sales, business development and channel development. He migrated to Australia in 2006 with his wife and son on a one-way ticket. He has worked in India and the Middle East in large telecom companies. He played a key role in growing a VSAT company in Saudi Arabia from a start-up to the largest VSAT installed base in two years. He founded his first business in 2014 www.ilovemyphone.com.au and currently works with over 35 business channels nationally. Brijesh is very passionate about kids and their education. This led to his second business venture www.switchedonkids.com.au in 2017, which is in the educational toys niche, targeting parents. Currently he lives with his wife and two sons in Adelaide and shares time between business, travelling, family and partying.



Chris McGuire
Academic Leader Prince Alfred College

As an Economics teacher and immediate past-President of the Economic Teachers Society of SA, Chris realised early in his teaching that we introduce the four "resources" to students at the commencement of any Economics course, and then spend all our time teaching, modelling and evaluating only three of them.

Entrepreneurship cannot be ignored; and it's the fun-nest to work with, especially in the Schools e-challenge! Chris has judged, mentored teams and reviewed plans at both the Schools and Tertiary stream and refers to it as the highlight of the co-curricular calendar. "Watching young world-changers at all stages of their entrepreneurship journey is enriching; and the personal growth that comes from the e-challenge for contributors and students alike, is great to be a part of".



Bill McFarlane
Madderns

Bill is a registered Australian and New Zealand patent and trademarks attorney with a range of knowledge and experience in the areas of physics, electrical and electronic engineering, and computing. Bill has been in the profession for over 29 years. Bill is involved in the drafting and prosecution of patent, design and trade mark matters, in Australia and overseas for local and multinational companies. Bill has a particular interest in the Start-Up community having been involved in

Australian eChallenge since its inception and is also a lecturer at the University of Adelaide – Legal Aspects of Entrepreneurship, and was previously a lecturer for the training of patent attorneys, at the Academy of Education of the Institute of Patent and Trade Mark Attorneys of Australia. He is also involved in multiple incubators as well as attending Start-up Weekends, and various community spaces to support the resident business enterprises.



Tania Milohis
University of Adelaide

Tania is a business and systems transformation specialist with over 25 years' experience. She has successfully delivered major government initiatives involving project management, contract negotiation, procurement and change management in complex and politically sensitive environments. Tania is professionally known for her business acumen and her ability to identify business requirements and formulate appropriate solutions to drive business outcomes.

In her current role at the University, she is responsible for leading and managing complex systems and related business improvement functions of the Infrastructure Branch.



Mercy Oloo
Co-founder of HerRiseUp

Mercy Oloo is a co-founder of HerRiseUp, which is an enterprise empowering women entrepreneurs and innovators in developing countries. Through an online platform, HerRiseUp seeks to connect women entrepreneurs to like-minded individuals, investors, government and private organisations around the world.

Originally from Kenya, Mercy is a strong advocate for making an impact in this world and changing the narrative of women, especially women from marginalised communities. She holds a Bachelor of Commerce in Accounting from the Carleton University, Canada and an MBA from the University of Adelaide, Australia. Prior to founding HerRiseUp she worked as a Tax Accountant for EY Canada.

She has a passion for education, technology, women-led businesses and women empowerment, and hopes that HerRiseUp will provide opportunities for women and allow them to rise up to their full potential. Feel free to get in touch with Mercy if you'd like to find out more about HerRiseUp by visiting herriseup.com.



Kim Papp Chique Solutions

Kim Papp is the Director of two thriving small businesses located in the heart of Unley, South Australia.

Her business are Chique CosMedical Skin & Body Solutions and The Drip Club, in which she has been the driving force for over five years. Kim is no stranger to a challenge, having a varied work background as a firefighter for 8 years, a safety systems specialist for 2 years, personal trainer for 4 years as well as her current role as the clinic nurse within her two businesses. These varied backgrounds has given Kim a very broad knowledge base allowing her to navigate through the many different challenges and opportunities presented to every small business owner today Chique was the first business created by Kim, which focuses on high end Medical/ Cosmetic treatments such as Laser, Cosmetic Injectables, and Advanced Skin Treatments. She has steadily grown this business from a single person operation to one now employing 4 staff as well as two medical practitioners.

The Drip Club is Kim's newly created business initiative being the first of its kind in South Australia. The Drip Club offers Intravenous Nutritional Therapy which delivers high dose vitamins and minerals for

performance, optimal health outcomes and general wellness. Kim expects great things from The Drip Club due to the growing consumer focus of performance, health and wellness.

Kim believes in hard work, empowering your team, systemisation, innovation through unique ideas and creating an environment where your clients will want to visit again and again. Kim understands the challenges faced in growing a business on a limited budget and to harness the power of word of mouth marketing. This combined with targeted networking, developing strategic relationships with other businesses, as well as social media and internal marketing strategy. She sees these business tools as essential for client retention and new client marketing.



Dr Michelle Perugini Life Whisperer and Presagen

Michelle has a PhD in Medicine, and spent the first 10 years of her career as a scientist in stem cell biology and cancer research. She founded her first business 10 years ago using artificial intelligence for predicting human behaviour. ISD was acquired by Ernst and Young in 2015. She is now co-founder and managing director of Presagen and Life Whisperer. Presagen is an AI platform that specialises

in image-based medical diagnostics. Life Whisperer uses AI and computer vision to better select healthy embryos during the IVF process. In addition to running two businesses, Michelle is also a dedicated mentor and advisory board member to the University of South Australia Business School, and University of Adelaide Entrepreneurship, Commercialisation and Innovation Centre (ECIC), as well as an Advisor to numerous start-ups.



Craig Rogers Acting Director Industry Engagement

Craig is currently the Acting Director of Industry Engagement in the

Technology Partnerships Office at Defence Science Technology (DST) and has been a member of the officer for seven years. Craig is also the Program Lead for the Small Business Innovation Research for Defence program under the Next Generation Technologies Fund since returning from a Defence International Fellowship, which involved a nine-month posting to the UK and Singapore to gain an understanding of small to medium size enterprise engagement strategies in both nations.

Craig's background is a combination of science and business, where he completed

a PhD in biotechnology in 2003, and a post-doctoral position in the Department of Clinical Pharmacology at the Flinders Medical Centre. Craig then broadened his career horizons by undertaking an MBA in Technology Management, established and managed a university spin-out company and branched into business development and technology transfer in a variety of sectors, including healthcare, biotechnology, and more recently defence.



Aisha Sirop Innovations Manager, Medical Device Partnering Program, Flinders University

I have been working in the space of commercialisation and the development

of innovative technology for the last 10 years in Adelaide. I am currently the Innovations Manager for the Medical Device Partnering Program, which administers the South Australian government's Medical Technologies Fund. The Program funds short-term projects for the development of novel medical and assistive devices, and I assess and recommend proposals for the development of novel medical and assistive devices under the Fund.

Previously I was the Commercial Development Director at Flinders Partners, the commercialisation arm of Flinders University, and a project manager at Flinders Bioremediation before that. Through these roles, I gained experience working in environmental auditing and consultancy, contract management, technology transfer and commercialisation. At Flinders Partners, I focused on finding a path to market for Flinders technologies in the space of environmental biotechnology, nanotechnology, biochemistry, medical devices, ICT and clean technologies. I also managed the delivery of state government funding programs, which involved the development of grant applications and commercial viability assessments for medical devices and clean technologies proposed by SMEs in South Australia.

Outside my formal appointments at Flinders University, I have been an active supporter of entrepreneurial programs such as the University of Adelaide's eChallenge for the last 5 years as a concept, business plan and finalist judge. I am also an ad hoc mentor and lecturer for Flinders' New Venture Institute's courses and Flinders Biomedical Engineering Innovation courses.



Rye Smith Spruik Digital Pty Ltd

Securing his first client at 12 years old, Rye has been involved in tech businesses ever since and is currently

the Managing Director of Spruik Digital. Having won the eChallenge competition

in 2015 with his concept, 'Shift', Rye has used his experience and knowledge of the competition and the business world to assist and educate future entrepreneurs of Adelaide. With a holistic approach to business and a strong background in sales, technology, marketing and project management, teams were able to bounce off ideas and further validate and iterate their business and product concepts.



Stuart Snyder Stuart Snyder Investments

Stuart Snyder was a cofounder, director, and CFO of YourAmigo Ltd which was the SA

exporter of the year in 2008. YourAmigo was incorporated in 1999 and successfully commercialised novel search technology acquired from the Flinders University. YourAmigo is a technology leader in the search marketing space with installations on web sites in over 30 different countries including many of the world's top 100 ecommerce companies. Stuart grew up in Silicon Valley, starting his career as a CPA with KPMG in San Jose, California and migrated to Adelaide in 1993. Stuart is currently a limited partner in Blackbird Ventures and an investor in Happy Inspector and Portalogue Solutions.



Paul Steffens University of Adelaide

Paul is Professor of Entrepreneurship at the ECIC, The University of Adelaide. His core areas

of expertise are entrepreneurship and diffusion of innovations. Paul has been a lead investigator for research projects totalling more than AUD 1.5 million and has published over fifty academic publications, including journal articles in leading entrepreneurship, marketing and technology management journals.

Previous appointments include Director of the Technology and Innovation Management Centre, University of Queensland, academic positions at University of Queensland and Monash University and visiting positions at University of Kiel, Penn State University and Southern Illinois University. He holds a Bachelor of Engineering (Honours I) and a PhD in diffusion of innovations, both from the University of Queensland.

Paul has also consulted for a wide variety of both business and public agencies. His clients include Energex, Waitrose (UK), Agribuys (USA), IPAA, Queensland Department of Primary Industries, Monsanto, Bunge, Franklins, Solutions Research and the Meat Research Corporation.

Paul is passionate about the key role entrepreneurship and innovation play in driving economic growth, their potential to assist disadvantaged groups in our

society and the ability to deliver personal gratification and wellbeing to individuals.



Craig Swann

Craig's an Internet Entrepreneur that built his award winning agency CRASH!MEDIA through hands-on shaping of the

Internet experience itself via interactive innovations since the mid 90s. He's helped Fortune 500 companies develop and deploy national and international marketing campaigns while building digital products, interactive experiences and digital platforms that have engaged tens of millions. He built the web's first drag and drop interface, the Internet's first music making experience, Looplabs, and a host of other innovations. He's an author, thought leader, international speaker and co-launched Canada's largest design and technology conference that has expanded into Europe, USA and Asia. He has a passion to educate, empower and inspire at the intersection of business, technology and imagination.



Eva Balan-Vnuik Department of the Premier and Cabinet, SA Government

As Executive Director, ICT and Digital Government,

Eva is responsible for providing strategic leadership for the delivery of cyber security, digital government and technology services across South Australia Government.

Prior to this role, Eva was State Director for Microsoft South Australia and completed a PhD in innovation and entrepreneurship at the University of Adelaide. She is a Director for Novita and the History Trust of South Australia, and founder of HerTechPath, a community of women working in the technology sector in South Australia who deliver briefings to high schools to inspire girls to consider careers in this disruptive, exciting and important sector.



Tim Waterhouse Sentek

Tim has a Degree in Electronics, an MBA, is a Fellow of Engineers Australia and a Member

of AICD. He initially worked for Telstra, ultimately as GM and as the CEO's representative for SA. He then worked for the SA Government doing IT strategic planning and policy, standards, sourcing and industry development.

Tim was MD is still a Director of Sentek Pty Ltd, which manufactures and internationally markets "best in class" soil moisture and salinity sensors and display software. He has been a member of various government grant panels including the current SAECP program.

He was a Director and Chairman of the Water Industry Alliance and has held directorships in several other organisations. Tim's particular interests are in the water and ICT sectors with a focus on the creation of competitive advantage for South Australia and for emerging businesses. He has actively encouraged the development of the local entrepreneurial ecosystem. He mentors SMEs, start-ups and several university entrepreneur programs. He has also managed, mentored and invested in a number of start-ups and small businesses..



David Wilkinson
Atec Consultants

“A mix of designing innovative new technologies, and the love of entrepreneurship, has been the fuel behind my career.”

David has been practicing as an electronic engineer for the past 30 years, working in Africa, the Middle East (Dubai) and now in Australia. On the design and development side, David has personally created numerous new pieces of scientific equipment that have aided researchers in the specialist fields. On the entrepreneurial side of his career, David has launched and run several successful start-up companies of his own, and has assisted many others achieve the same. He has also enjoyed mentoring individuals and assisting companies to grow their existing businesses.

David is currently a Director of Atec Consultants, a Technology Consulting-Engineers practice, as well as working part time with SA Health, as a Biomedical Engineer. He has been a long standing Fellow of Engineers Australia, and held Chartered status with them. Aside from his engineering qualifications, David also holds a degree in Business Management. He has authored and co-authored several publications, some of which have been presented internationally.

“I have the highest regard for those individuals who are bold enough to start their own business, then grow it to employ others”.



Peter Williams

Peter is a successful geoscientist, educator and entrepreneur in the global arena. He has had roles at the highest executive technical management level in a multi-billion dollar company (WMC Resources), and also been a co-founder of an ASX top 200 Listed company (Independence Group, Mkt Cap \$2.5b), which in the start-up parlance is a ‘Unicorn event’. In addition he has been a co-founder of a global Geo-finance intelligence company, Intierra Resource Intelligence, purchased by SP Global Intelligence, and been directly involved in

the creation and acquisition of the major assets for Papillion (purchased by B2Gold for us\$570m), Gryphon Minerals, Boss Resources and Apollo Consolidated. He is the co-founder and currently non-executive Director of HiSeis, which is the world's first hard rock focused 3d seismic company.

Peter presently is a Director of Elemental Royalties (UK based private company) a Non Exec Director of Boss Resources (ASX:BOE). Peter is also the co-founder of TOWARDS a BETTER FUTURE FOUNDATION, I.TTG.O (a private educational Institution in Burkina Faso), and the co-founder of Guimbi Gold in Mali. Peter is an Adjunct Professor at the Center for Exploration Targeting at the University of Western Australia and an Adjunct Senior Research Fellow at the West Australian School of Mines, Curtin University. He is a non-Executive Director of TechinSA, a state government organisation which oversees the development of entrepreneurship in South Australia, and a Councillor for Amnesty International 2020 Council.



Brett Woods
Trading Manager, Lempriere Wool Australia

Brett has been involved in the wool industry since 1991, and has held senior roles in buying, trading and management. Brett is currently the Trading Manager of Lempriere Wool Australia which involves monitoring and calculating international currencies; negotiating contracts with vendors, including payment terms, product quality and pricing, managing buying, shipping and related administration, and travelling regularly throughout Australia and overseas to strengthen relationships with buyers, suppliers and clients.



Tiffany Young

Tiffany Young is founder of Young Advisory through which she provides management consulting advice to South Australian

businesses. Her background is in tax, having worked for Deloitte in Australia and Thailand, and subsequently with large property funds managing the distribution of millions of dollars to investors.

Tiffany also co-founded the Jodi Lee Foundation, a bowel cancer charity on a mission to encourage people to be proactive about prevention and leading healthy lives. The Jodi Lee Foundation has raised over \$7M to run national public health campaigns and initiatives, saving many lives.

A Chartered Accountant, Tiffany also has a Bachelor of Business (Marketing & Finance). As well as tax and accounting, she has a

diverse range of skills across legal structures, corporate governance, strategy, capital raising, financial modelling, budgeting and cashflow management, marketing and communications.

Tiffany helps businesses plan, structure and manage their operations to improve performance and grow. She has worked in the telecommunications, insurance, property, manufacturing, professional services and not-for-profit sectors. A mother of two teenagers, Tiffany is passionate about South Australia and creating opportunities for talented young people to succeed here.



Dr Sharon Zivkovic
Wicked Lab | Community Capacity Builders

Sharon Zivkovic is the Chief Innovation Officer and Co-founder of Wicked Lab and Principal Facilitator and Founder of Community Capacity Builders. Wicked Lab has developed an online tool, education program and lab methodology that assists governments and communities to address complex wicked problems. Currently Wicked Lab's approach is being used in the Netherlands, New Zealand, United Kingdom, United States and Australia. Community Capacity Builders has been delivering project based active citizenship, education for sustainable development and social entrepreneurship programs since 2006.

In 2012 Sharon received the Award for Best Overall Paper at the 2012 International Social Innovation Research Conference for a paper describing the model that underpins Wicked Lab's approach. In 2015 she received the Pank/University of South Australia, School of Management Prize for Entrepreneurship and in 2016 she received a Fresh Scientist award for her work in addressing wicked problems using complexity science.

Her qualifications include a PhD, Bachelor of Accountancy, Master of Entrepreneurship, Graduate Certificate in Research Commercialisation, Graduate Diploma in Education, and a Vocational Graduate Certificate in Education and Training for Sustainability. Sharon co-chairs the complexity stream at the International Social Innovation Research Conference.



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YOUR **e**CHALLENGE TEAM



Zrinka Tokic
Australian eChallenge and
ThinLab International
Program Director

As the Australian eChallenge and Thinlab International Program Director, Zrinka is responsible for the strategic development of the eChallenge and Thinlab programs in South Australia, nationally and internationally. Zrinka has extensive experience in the start-up space and enjoys working with students/participants to develop viable business models throughout the course of the program. She has extensive industry experience and has worked with small and medium enterprises in developing and introducing new products, entering new markets, and expanding sales and business opportunities in both established and new business environments. Zrinka specialises in applying design thinking principles to business innovation as it is at the core of effective strategy development and organisational change.



Julia Miller
Australian eChallenge
Coordinator

Julia has a long history first with the ThinLab and then ECIC which makes her your resident expert in programs, courses, student learning requirements and all things outcome-oriented. Julia is passionate about student and industry engagement and happy to chat anytime, anyplace about the eChallenge and entrepreneurship. Her pre-ECIC life was just as exciting, with stints in high fashion, creative design and even mining, both in Australia and overseas. Julia previously owned a 60s R'n'B and Hip-Hop record store, and currently runs a business with her husband outside of work.



Tina Morganella
Australian eChallenge
Project Officer

Tina has thus far successfully lived in two distinct but parallel lives – in one she is a mild mannered administrative team member with a long history in the education sector. In this life, she has happily coordinated projects, developed policies and procedures, and contributed cake when appropriate. In her other life, Tina is a creative writer with an MPhil from the University of Adelaide, and a very small but growing swag of fiction and nonfiction publications.



Dr Matthew McKinlay
Lecturer

Matthew is a researcher and lecturer in technological innovation and entrepreneurship. His PhD research explored the theory of exaptation and how using technologies for uses they were not previously intended can lead to dramatic innovation quickly. His entrepreneurship teaching focusses on the role of trial and error, uncertainty and testing in the entrepreneurship process, and is heavily influenced by the ideas of Andy Rachleff. .



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