

A large, abstract geometric shape composed of several dark grey and black polygons. A bright red triangle is positioned at the top left corner of the shape. The text 'UTS Research Strategy' is centered within the dark grey area of the shape.

UTS Research Strategy

Through our role as a public university, we task ourselves with ensuring that our research outcomes benefit our communities and more broadly the economy, environment and society.

At UTS, we are proud of the results and societal impact that we have achieved since we formed in 1988.

We now rightly have a reputation, both nationally and internationally, as a leading research university. This reflects the commitment of the university and of our individual academic and professional staff members to producing excellent research.

We have made significant investments over the past decade, in particular through our academic growth and campus development strategies. These have enabled us to increase the scale, quality and impact of our research.

Our achievements have come through focus. They have been greatly accelerated by our culture of collegiality and creativity, use of agile and transdisciplinary approaches, and our industry and community connections. All these have been used to create real-world solutions to complex problems.

This positive culture and approach has increasingly seen us sought out as a research partner across different industry and professional-practice sectors.

These foundational elements have been embedded into our UTS 2027 strategy.



Teresa Vidal Calleja

School of Mechanical and Mechatronic Engineering

Teresa has been invited to present her research at international robotics laboratories.

Delivering excellent research with impact

The next phase in our development is to leverage our eight research characteristics and our distinctive strengths and capabilities by:

- taking a people-centric approach
- taking a focused and deliberately evolving approach to research concentrations
- more consciously driving knowledge exchange and research translation practices

This will help us reach new heights in excellence, quality and scale – delivering impactful research of global significance.

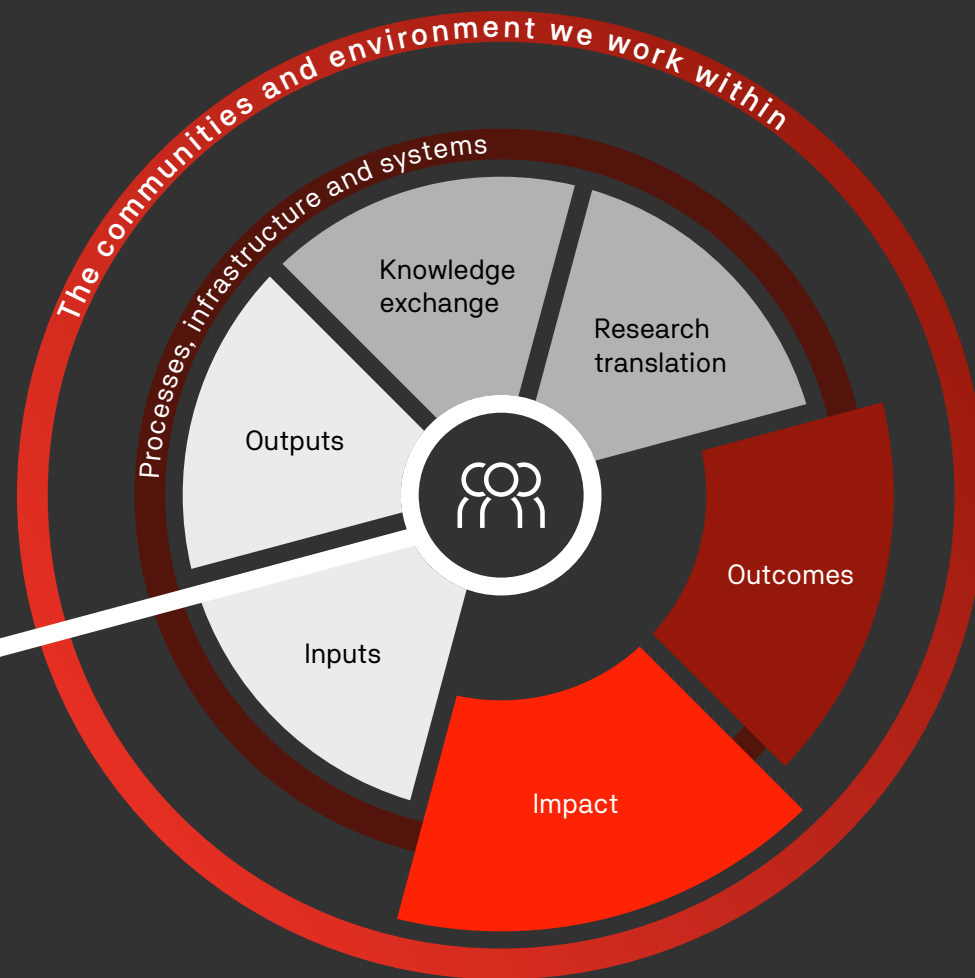


OUR COLLABORATIVE AND CREATIVE WORKFORCE

Through our role as a public university, we task ourselves with ensuring that our research outcomes benefit our communities and more broadly the economy, environment and society, in alignment with the UN Sustainable Development Goals. Ultimately this leads to the transformation of society.

The creation and capture of new research opportunities are enabled by all our staff (academic and professional) and graduate research students valuing our innovative and evolutionary work environment, our willingness to explore new ways of working, our ability to connect different conceptual and disciplinary contexts, our valued partner status within extended and dynamic networks, and our physical locations and facilities.

We will continue to be focused and to ensure that our growing scale and the quality of our research outputs are matched with research outcomes that will be adopted throughout our national and international networks and partnerships, and be used to achieve wide-scale impact.



To achieve this, we put our people at the very heart of our research strategy.

Excellence

We inspire our people to be excellent, producing outstanding research that is supported by our integrated physical and digital research infrastructure and research support services.

Technology

We use, define, create, challenge and provide responsible leadership through our researchers' understanding in tackling the implications of the use of technology in society.

Meeting societal and industry needs

We are responsive to identifying and creating solutions for the complex challenges facing society and industry today, while also working to shape what the future can be locally, nationally and globally.

Focus and distinction

We build depth, make connections and achieve scale and impact through the fuller understanding of our capabilities across our people and digital and physical infrastructure. We continue to focus on areas aligned to our strategy and through which we can deliver distinct value.

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Eight characteristics of research at UTS

These eight characteristics are brought to life by our academic and professional staff and research students. How individuals work, are motivated, define their aspirations and build their careers are embedded into how we create and deliver excellence in research support.

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Connectedness

We communicate, connect and collaborate with each other, our academic, community, industry and government partners and the world at large to bring together diverse capabilities and expertise. This creates scale with shared visions and outcomes.

Valuing and utilising our discipline diversity and transdisciplinary capabilities

We integrate and mobilise our capabilities across disciplines to solve challenges that transcend boundaries. This creates a shared literacy and understanding of research methods that amplifies our deep disciplinary knowledge and the capabilities of our individual researchers. We enhance this by drawing value from the use of multi and transdisciplinary practice, strong connections between humanities and social sciences (HASS) and science, technology, engineering and medicine (STEM) and embedded capabilities such as data science and analytics or sustainability.

Creativity

We draw on our culture of creativity along with our capabilities in, and connections to, creative and professional practice. This enhances our expertise in leading practice-based research and ability to rapidly translate research outcomes into practice.

Interrelated research and teaching

We ensure that our teaching, learning and research practices are connected and mutually enhanced through these connections. We support the development of our academic staff, professional staff and graduate research students through the application of our strengths in pedagogy to all of our research-focused professional development opportunities.

Three perspectives on our research approach

Our approach is centred on people, and framed by outcomes and impact. It takes our focus on the excellence of our academic inputs and outputs, and connects them with the tools of knowledge exchange and research translation.

Our people-centred approach is framed from three different perspectives:

External

Data analysis and insights

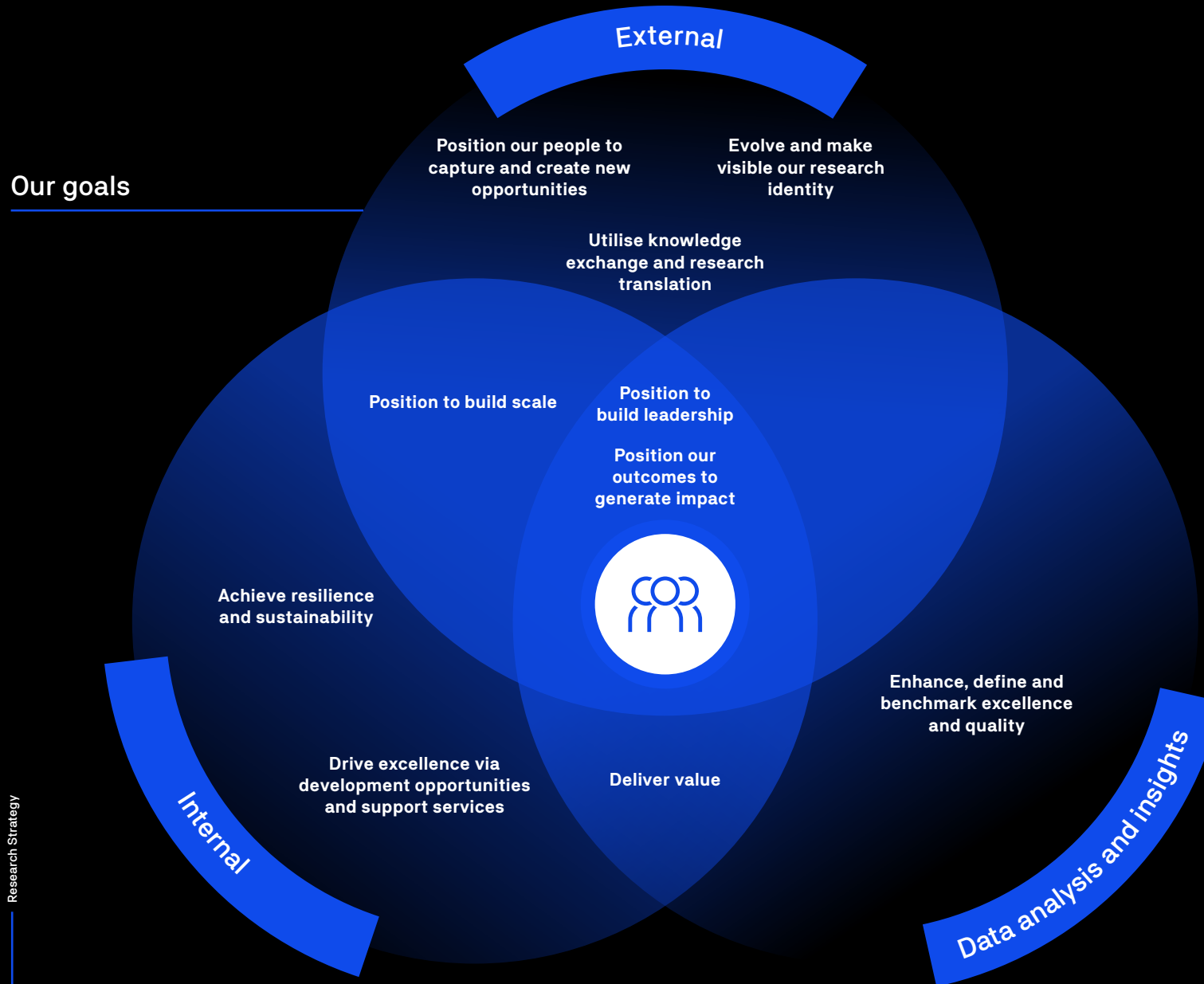
Internal



Joshua Chou
**School of Biomedical
Engineering**

Joshua holding a prototype of Australia's first microgravity device which could change the way we treat cancer.

Three perspectives on our research approach



Our focus areas

External

Our focus will be on the following three areas:

1. The national and international academy
2. Our partnerships, networks and collaborations with industry, government, not-for profit organisations and key stakeholder communities
3. The creation of national and global social benefit

Data analysis and insights

The analysis undertaken and the insights gained will be used to:

1. Support the scholarly endeavour
2. Make our researchers and graduate research students and our capabilities, both internally and externally more visible through our use of better profiling
3. Create and strengthen our connectedness (networks, teams and collaborations (trans/multidisciplinary))
4. Provision deeper, evidence-based understanding and better decision-making

Internal

Our focus on the following will allow us to support our individuals and the university to enhance our culture of excellence:

1. Professional and career development (motivation, aspiration and inspiration)
2. Research environment
 - a. Support services
 - b. Systems and processes
 - c. Infrastructure (physical and digital)
 - d. Institutional, sector and research data
3. Connectedness
 - a. Networks
 - b. Teams
 - c. Collaborations
4. Distinctiveness (reputation and leadership)
 - a. Focus areas
 - b. Critical mass and credibility
 - c. Our research characteristics

High-performing research culture

Our aim is to create the environment and framework that enables our people to excel.

Our high-performing research culture is focused on delivering leadership at the highest level of scholarly endeavour. We will enhance it in areas where we have appropriate scale, depth, credibility and sufficient breadth to position us to tackle complex societal and industry challenges.

We believe that the transformation of society will be made possible through our people-centric, outcomes and impact-focused approach to research excellence.

This focused approach will see us delivering research outcomes of global significance, while simultaneously supporting our people to plan, develop and enhance their careers.



Emma Camp
Climate Change Cluster (C3)

Emma using a custom-made incubation chamber to assess coral physiology.



research.uts.edu.au