

Student Residences Project

Through extensive market research and analysis, it was confirmed that the University is in need of developing additional on-campus, purpose-built student accommodation to supplement the current offerings and provide students with further accommodation choices. The project is currently in the feasibility stage and it is anticipated that a final business case will be available during the second half of 2019 for consideration by Senate.

Student Life Plan

Preparing graduates for the future of work through a focus on research excellence, innovation, and leadership. The plan focuses on enabling healthy ageing, ensuring food security, supporting a resilient environment, developing technology for tomorrow, and positively transforming society, while working across disciplines internally.



Work began on the development of two new student recreational complexes at the St Lucia campus in 2018.

u Related initiative for 1.7
1.6 Online master's degree pg 20

REVIEW OF ACTIVITIES

2. Enhancing our high-quality research by improving our capacity to collaborate to achieve greater impact

While rightly proud of our research excellence, over the coming years we need to ensure that our research remains collaborative and continues to achieve great impact. To succeed in our focus areas of enabling healthy ageing, ensuring food security, supporting a resilient environment, developing technology for tomorrow, and positively transforming society, we will be outwardly focused, while at the same time working across disciplines internally.

| Times Higher Education Academic Reputation Survey results ¹ | | | |
|--|------|------|------|
| | 2016 | 2017 | 2018 |
| Research reputation votes: UQ rank within Go8 | 5 | 4 | 5 |

2.1 Build a One UQ approach to acquiring, maintaining and utilising research infrastructure.

Research infrastructure model
 In 2018, UQ transformed how internal and external researchers identify and access research infrastructure. For increased strategic operations and greater visibility, the University's research infrastructure was centralised and renamed as Central Research Platforms, a framework able to support future high-end research infrastructure and equipment. UQ is currently in the process of selecting a software solution that will give researchers and external collaborators ease of access to UQ's research infrastructure resources.

Transferring research data
 A tangible step-change in supporting the research community is the reduction in time to transfer data generated by our research community. In 2018, UQ became the first university in Australia to install a 100 gigabit per second network switch, which will enable our Lattice Light Sheet Research Project to handle the large volumes of data expected to be generated by a revolutionary new microscope being installed at the Institute for Molecular Bioscience. The Lattice Light Sheet Microscope data collection—a new modality for 4D imaging of live biological specimens, ranging from individual molecules to small organisms—is expected to generate up to seven terabytes of imaging data per day. To move one terabyte of data at the present rate (one gigabit per second) can take approximately two hours; however, the upgraded links will reduce that transfer time to just over one minute.

| u Related initiatives for 2.1 | |
|----------------------------------|-------|
| 1.3 IT capital investment | pg 18 |
| 5.2 IT governance | pg 32 |

2.2 Actively encourage internal collaboration between researchers from different disciplines and organisational units.

Research networks

Greater collaboration across and between different disciplines and organisational units allows our researchers to better tackle the increasingly complex challenges facing society. These global grand challenges increasingly require multi-disciplinary, multi-institutional, multi-sector solutions.

2.7 Develop flexible models to effectively utilise the institution's intellectual property.

UniQuest

UniQuest is Australia's leading university commercialising entity, managing UQ's intellectual property. It consistently benchmarks in the world's top five per cent for university-based technology transfer offices.

Since 1984, UniQuest has built, commercialised and managed an extensive intellectual property portfolio, including more than 1500 patents and 100 companies resulting from university-based discoveries. In August, UniQuest celebrated 100 startups with an award ceremony at Customs House.

Since 2002, UniQuest and its spin-out companies have raised more than \$700 million to help take UQ technologies to the market. More than \$625 million in commercialisation revenue has been generated by UniQuest for UQ. Gross sales of products using UQ technology licensed by UniQuest total more than US\$17 billion since 2007.

Among others, UniQuest was responsible for commercialising the HPV vaccine Gardasil®.

the Triple P – Positive Parenting Program, the image correction technology used in most of the world's MRI machines, and a potential new treatment for pain through spin-out company Spinifex Pharmaceuticals Pty Ltd—a biopharmaceutical company acquired recently in one of Australia's largest ever biotech deals. At present, UniQuest has four molecules and two devices in clinical trials.

JKTech

As the technology transfer company for the University's Sustainable Minerals Institute (SMI), JKTech provides technical consulting and training services (in mining, geometallurgy and processing), laboratory services, specialist testing equipment, specialised laboratory tests and simulation software products.

Significant activities and achievements during 2018 included:

- JKSimMet software increasing its client numbers to more than 60 per cent of the global market
- JKTech's team completing client work in more than 17 countries
- executing a substantial Rio Tinto global contract covering 17 mine sites to roll out a new blast movement model (Value Based Ore Control) that JKTech is commercialising from SMI research.

REVIEW OF ACTIVITIES

3. Building external academic relationships with a broad range of local and global networks

Engaging and collaborating with the community, industry, government and other research innovators is critical to UQ's capacity to meet the rapidly changing needs of society. We aim to enhance our approach to external engagement with a partnership framework, customer relationship management system, deeper international connections, diverse income sources and ongoing commercialisation interests.

KEY PERFORMANCE INDICATORS

PARTNERSHIPS

Rank first in Australia for attracting research income from industry

| UQ research income ¹ | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|---|------|------|------|------|------|------|
| UQ's national rank on research income from industry | 1 | 2 | 1 | 2 | 2 | 1 |

An increase in the proportion of our publications that are co-authored with external international or industry partners

| UQ publications with external co-authors ² | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 ³ |
|---|------|------|------|------|------|-------------------|
| UQ's rank within the Go8 for the percentage of publications with an international co-author | 4 | 6 | 5 | 6 | 6 | 4 |
| UQ's rank within the Go8 for the percentage of publications with a non-academic co-author | 7 | 7 | 7 | 7 | 5 | 5 |

¹ Industry includes research income from the following sources: non-Commonwealth schemes, rural R&D, Australian and international organisations, and Cooperative Research Centre (CRC) R&D income received from non-government sources.

² Source: Incites Dataset within *Web of Science* and is based on a single full year only; the document types included in this metric are Article, Review or Note.

³ Figures for 2018 are preliminary. Data will be finalised in mid-2019.