

\$1.9 Billion in future investment⁷

\$1.75 Billion JCU's contribution to human capital⁷



4,698 employees



21,972 students from 108 countries



\$0.8 Billion JCU's economic impact⁷ 5 Stars for skills development³



'World class or better' in 35 areas of research⁶



Top 30 of Modern Universities⁴



403 degrees and diplomas

No. 1 in Australia for employer satisfaction¹





5 Stars for full-time employment⁵

Research connections to 124 countries



Top 2% JCU's Global Rank²

















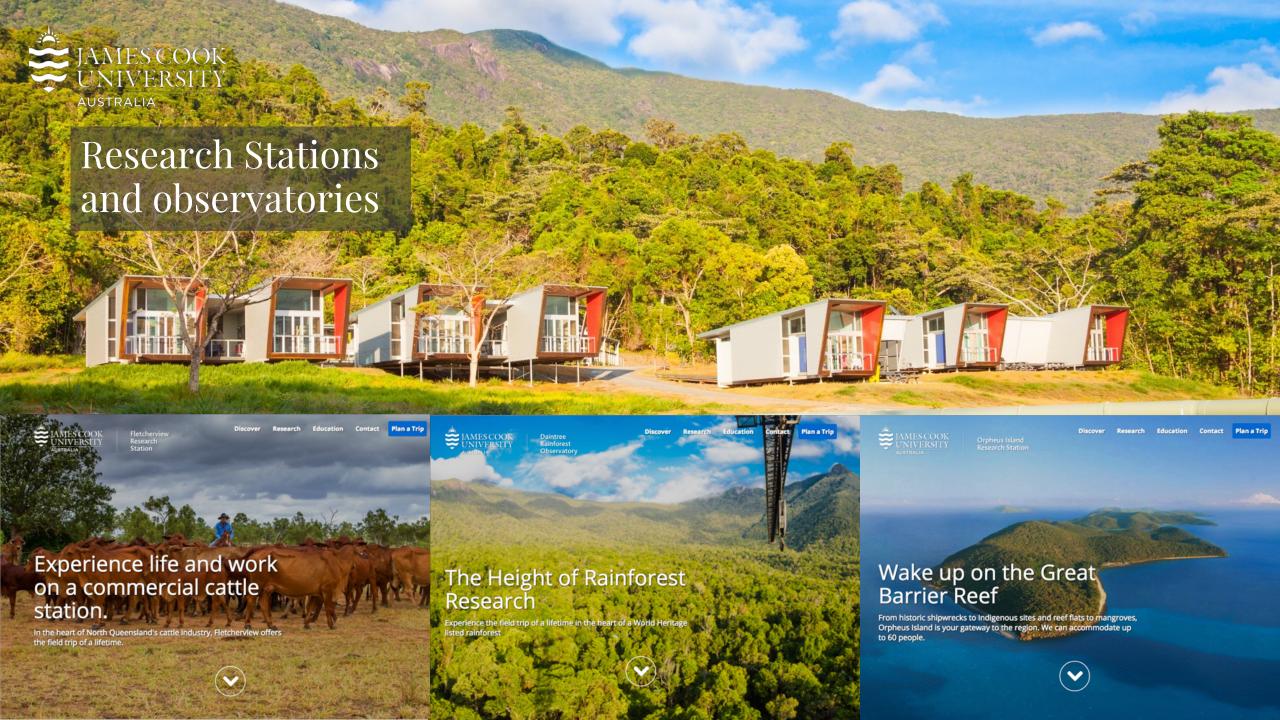














Developing an integrated experience for fully online and on-campus learners

INTERNAL (on campus, f2f) - Subjects offered via internal mode **require regular attendance at classes** and *may* involve up to 30% online delivery.

EXTERNAL (online) - Subjects offered via online mode **require no on-campus attendance**. Study is facilitated wholly through LEARNJCU and *may* involve scheduled online sessions (e.g. via Blackboard Collaborate).

INTENSIVE - Subjects offered require attendance at classes conducted via block teaching sessions and can be on or off campus (typically on consecutive days, week, nights).

PLACEMENT (field-based) - Subjects require attendance at an external organization/location for work experience/practicum/clinical placement under supervision.

Enabling access to research stations and observatories for INTERNAL, EXTERNAL and FIELD BASED study modes









600 sensors giving researchers access to real-time data and video feeds from the Daintree Research Observatory.

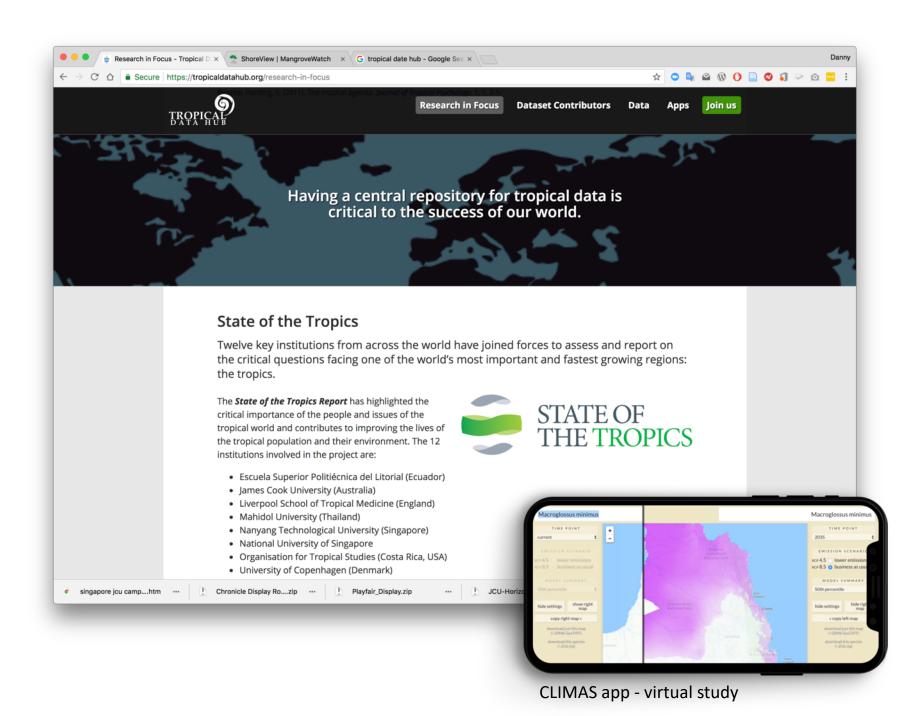
This includes 60 sap flow sensors, 60 automated dendrometer bands, 10 soil moisture pits, more than 90 temperature and humidity sensors, two weather stations, water flow sensors and cameras continuously recording different aspects.

By opening online access to the data, researchers will gain insights into complex processes such as hydrology, erosion, climate change and ecology.



- Central Repository
- State of the Tropic reports from 12 Institutions
- 16 Institutional datasets
- 2500+ published assets
- Open Data
- Citizen Science
- Discovery Apps

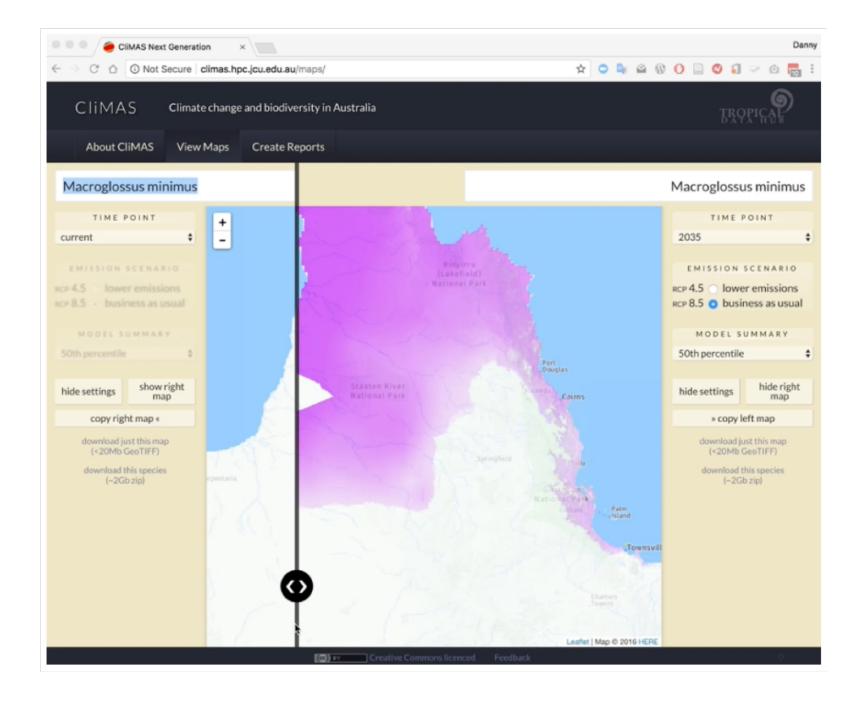
tropicaldatahub.org





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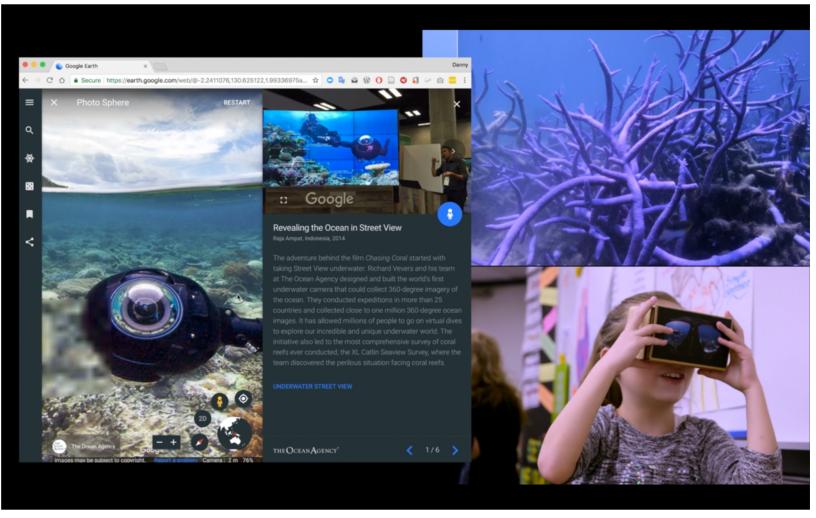




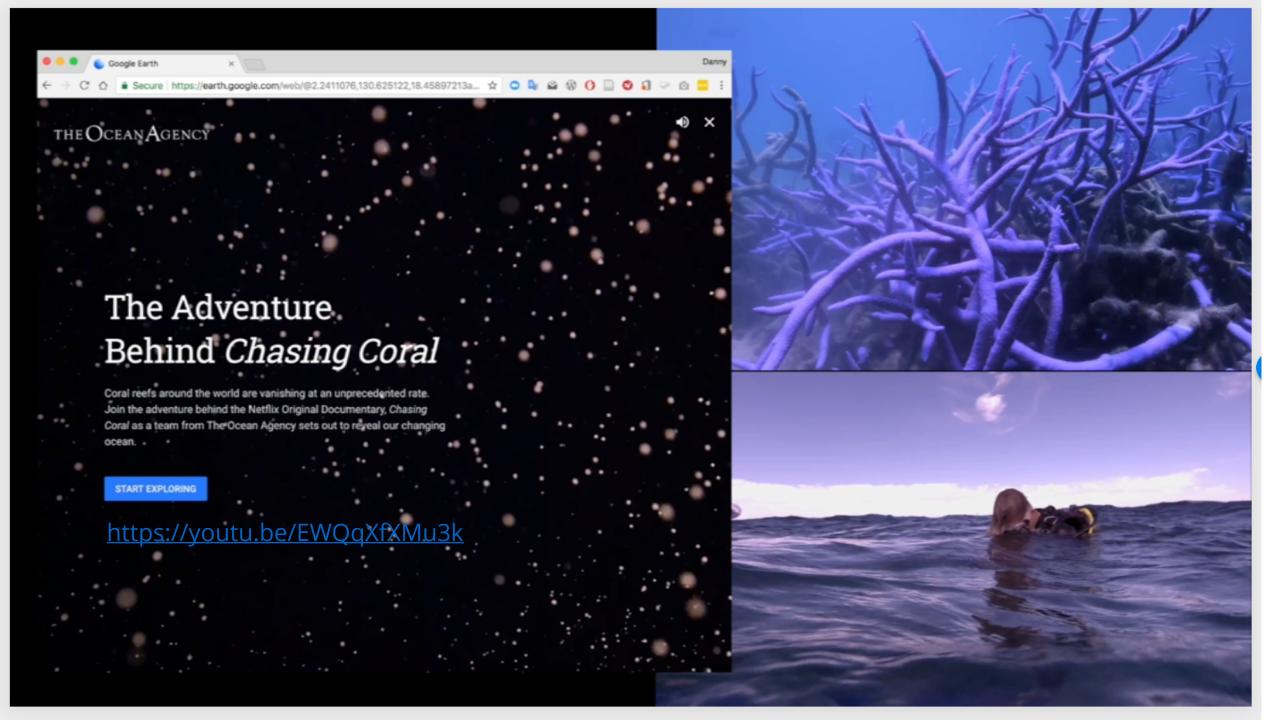
POLYSYNCHRONOUS CASE STUDY:

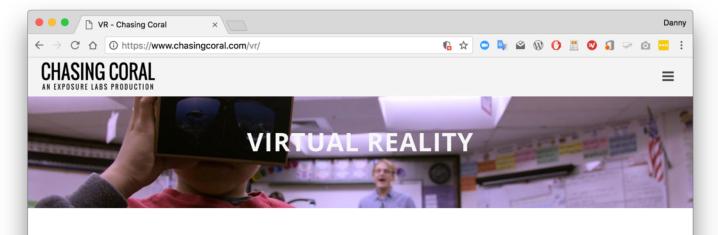
Chasing Coral Documentary

- Google Expedition
- Google Cardboard
- Google Steetview



The Ocean Agency

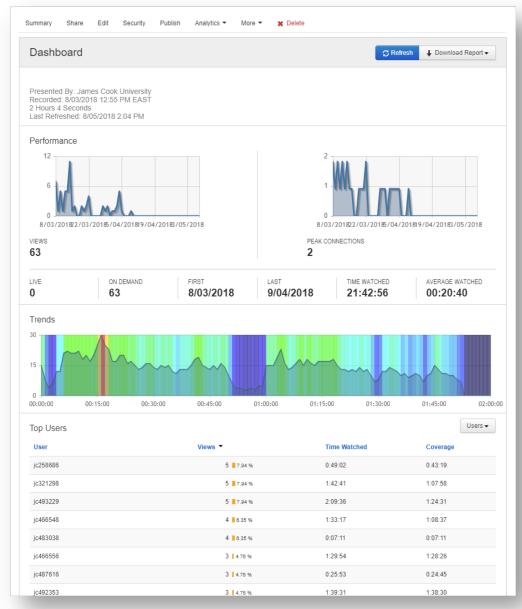




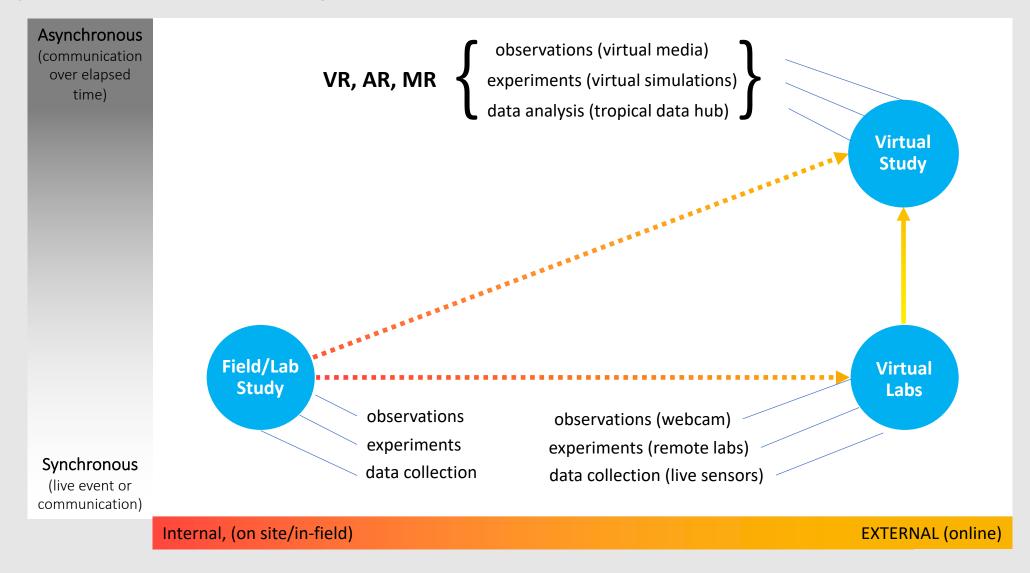
We are thrilled to offer groups the opportunity to go below the waves. Our VR assets include *Chasing Coral: The VR Experience* film and The Ocean Agency's Google Expeditions!

CHASING CORAL - THE VR EXPERIENCE





Polysynchronous Learning





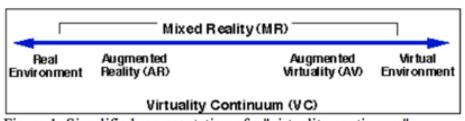
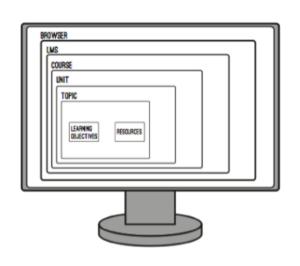
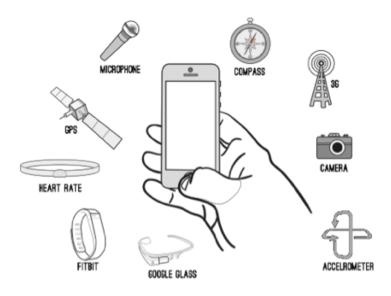


Figure 1: Simplified representation of a "virtuality continuum".



Learning Platform - paradigm shift







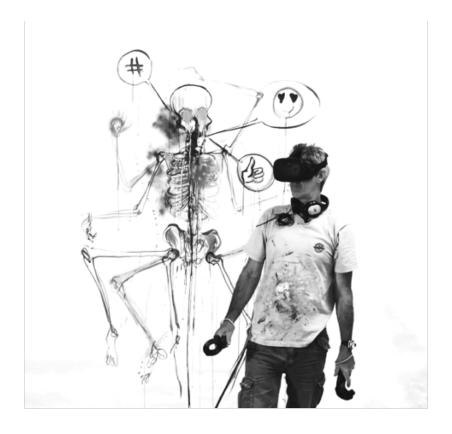


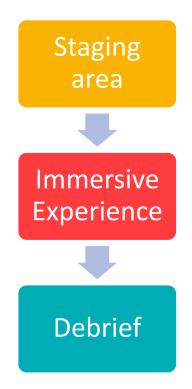
Illustration in VR, Simon Spillsbury https://www.youtube.com/watch?v=2f9AT7QxS80

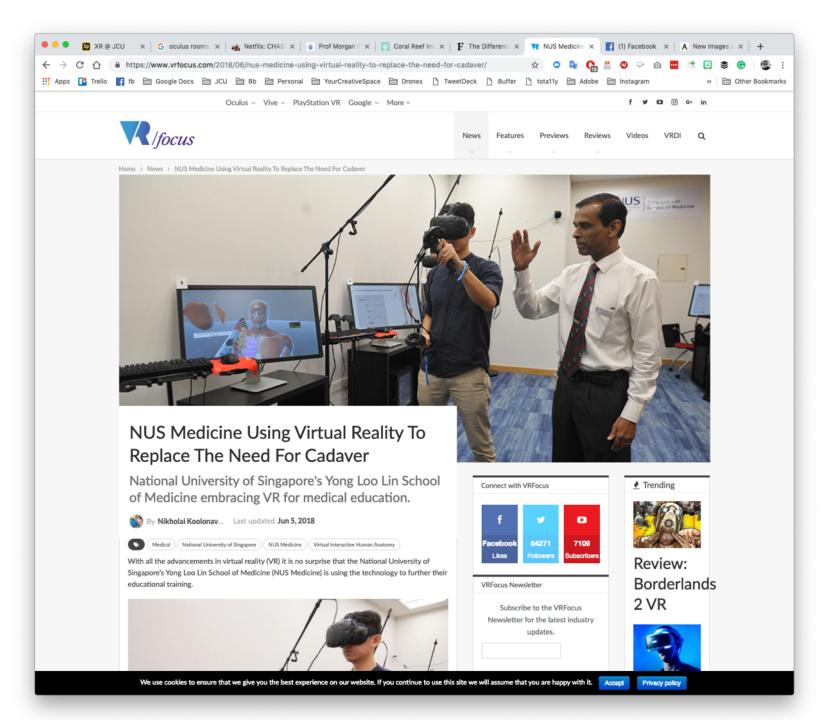


VR

National University of SingaporeMedicine

Virtual Interactive Human Anatomy (VIHA) Associate Professor Suresh Pillai,

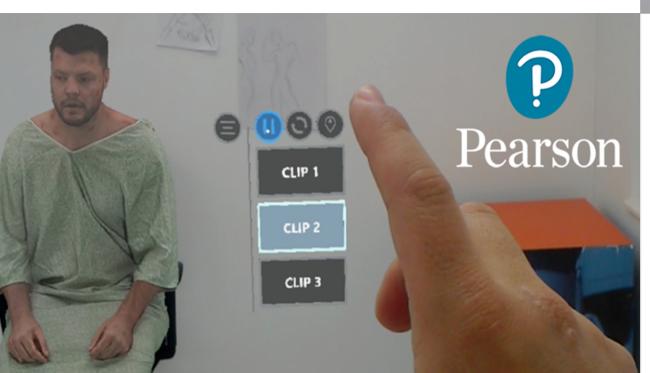




MR

Pearson Hololens (Health/STEM)

HoloBody, HoloPatient, HoloChemistry, HoloHistory





HoloPatient

https://www.youtube.com/watch?v=luvCaUmf5lc



MR

University of Canberra

Standard Patient

Assistant Professor Jane Frost & Lori Delaney



https://www.youtube.com/watch?v= ORnPuJIAIU



Global economy hits weakest spell since the financial crisis

DIGITAL INQUIRY

WORLD MARKETS

'Unparalleled power': News Corp calls on ACCC to break up Google



A holographic patient. MARCUS BUTLER

Assistant Professors of Nursing Jane Frost and Lori Delaney introduced the HoloPatient program to second-year nursing students last semester.

The technology allows students to interact with holographic patients projected into the classroom

MR

Immersive studio

Griffiths University

360 video, presenter immersion, live stream future options for volumetric video





MR Magic Leap Synaesthetic Design



https://www.youtube.com/watch?v=LLmT0tH3LKM





with 360° stories

Using extended reality to enhance internationalmindedness towards Australia's Pacific neighbours in the French language classroom.

Currently we have mobility programs where students go abroad and experience cultures, people, languages, and environmental landscapes. What if we captured some of that experience in VR and brought it back to the classroom?



Captured with the Insta360 One X



Viewed with the Oculus G

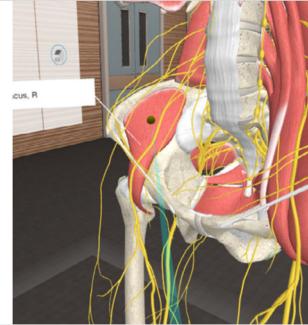
Exposing learners to the 3D Organon VR Anatomy app on the HTC Vive and an anatomy app on the iPad.

Documenting the students experience of both the Vive and iPad app. Gaining a better understanding of how these tools might be used and how learners engage and interact with them.



3D Organon VR Anatomy app on the HTC Vive







360° research facility and lab tours

Capturing 360* tours along with working on integrating them into learning material delivered via the Virtual Learning Environments.



Midwifery lab at JCU

Virtual Reality Equipment Hub

Embedding emerging technologies into our digital experience, first starts with making them more available.

The JCU Virtual Reality Equipment Hub will operate as a loan facility for JCU students and staff to access entry-level virtual reality equipment for the purpose of developing or participating in immersive learning experiences. The VR equipment will be accessed via the existing library loan systems in Townsville and Cairns with the same borrower registration and tracking capabilities.



Standalone Oculus Gos will be at the forefront of the Hub





360 Fieldwork in Aquatic Ecosystems



Captured out on the field



Viewed with the HTC VIVE

The project will use off-the-shelf VR cameras and headsets to record and present VR 3D videos.

Lecture and laboratory sessions will be recorded, and student trial will be carried out to evaluate the benefits.



Captured with the Vuze XR - Dual 2D 360° and 3D 180° camera



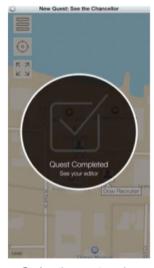
Captured with the Insta360 One X



ARIS gaming software for AR Developing a series of 'quests' around informing students of safety features present in our science

teaching laboratories.

Using ARIS gaming software to create a questing game that students access utilising mobile devices.



Geolocation quest gaming

