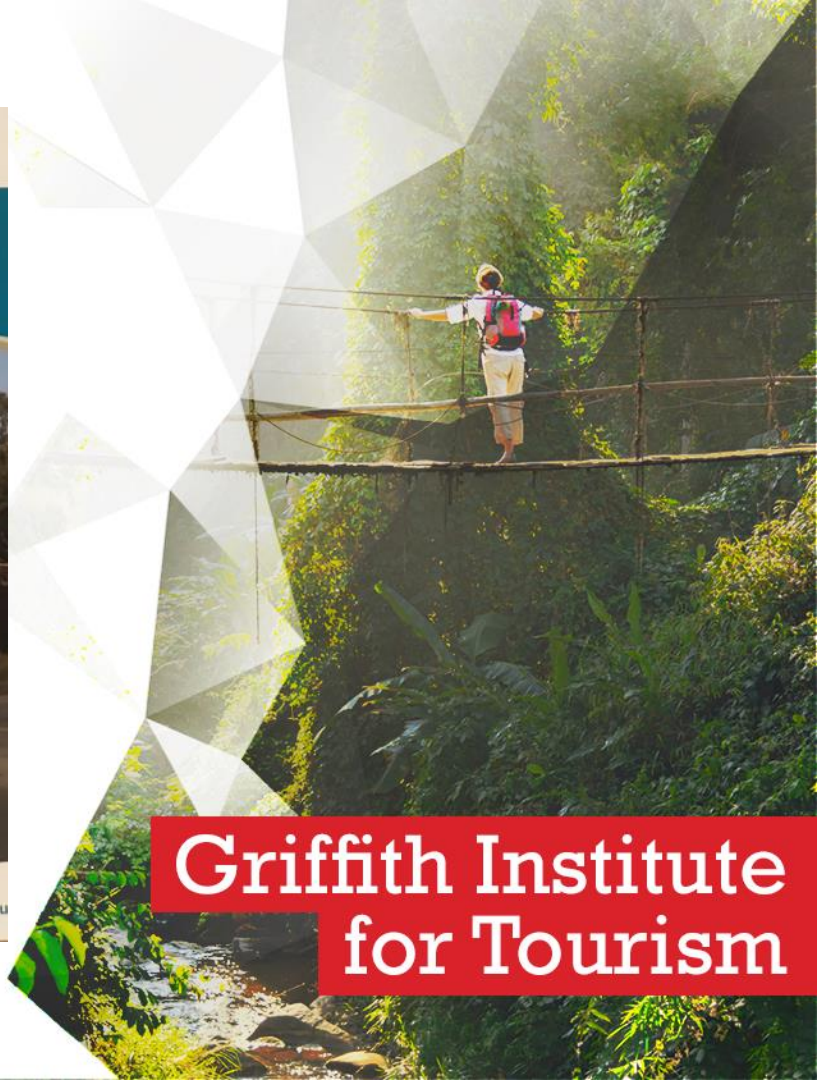
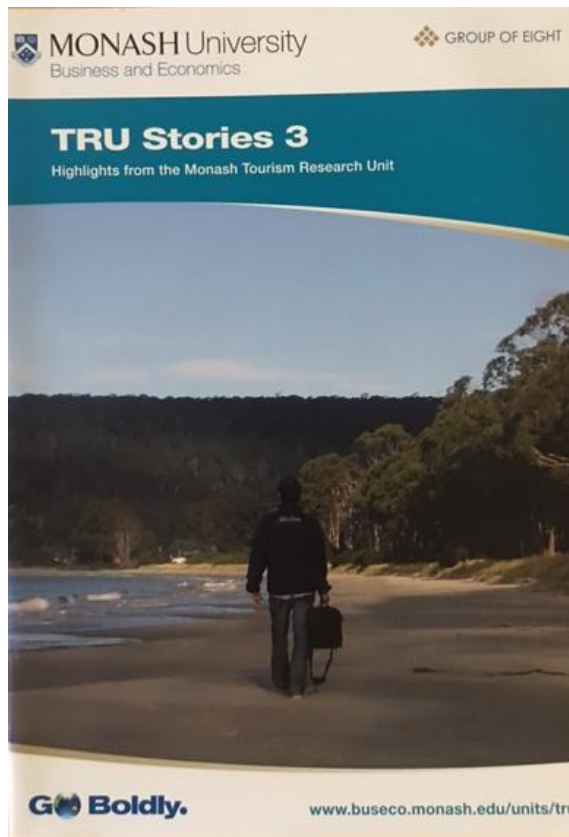




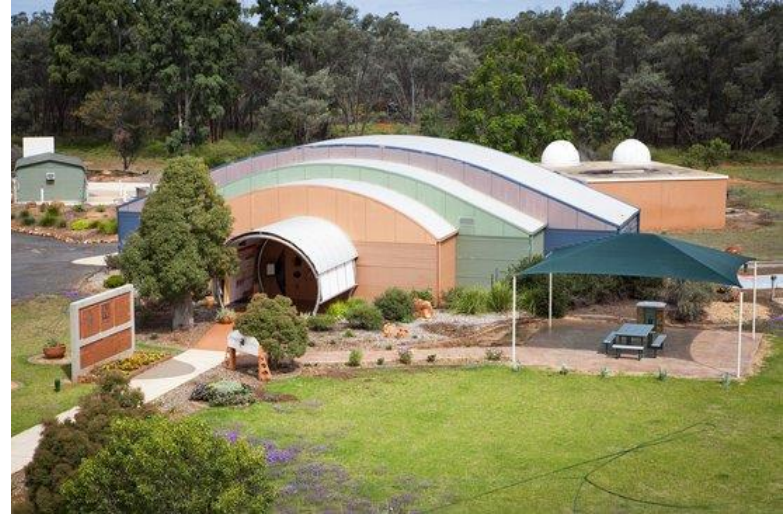
**Dr Brent D. Moyle**  
Senior Research Fellow  
Sustainable Tourism

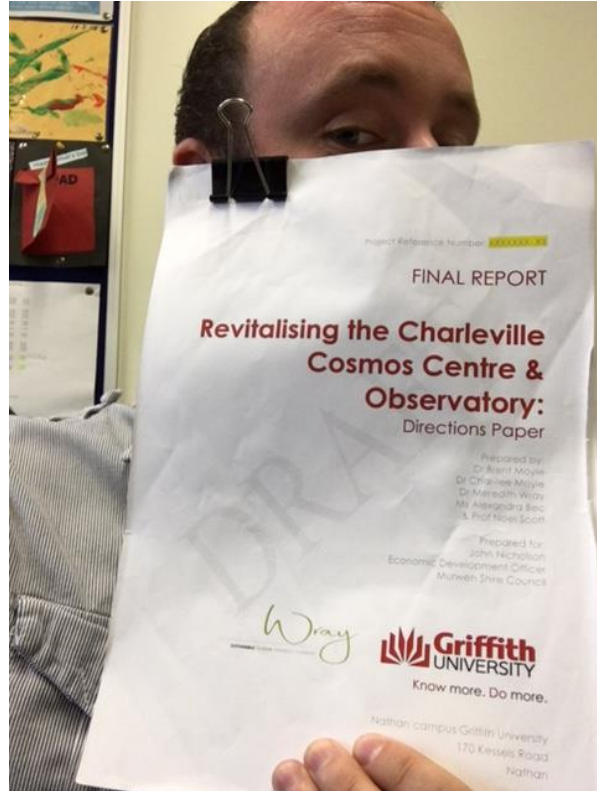


**Griffith Institute  
for Tourism**

















## WASTE IN SPACE

A COLLISION WITH SPACE JUNK IS EXTREMELY DANGEROUS FOR SPACE EXPLORATION AND ORBITING SATELLITES.

Laser systems are being developed to monitor, track and destroy more than 300,000 pieces of space junk in orbit.

### SPACE JUNK

travels at extremely high speeds consists of more than

**500,000 OBJECTS**

Satellites and space junk pass within 8kms of each other

**1,000 TIMES PER DAY**

satellites can be junk too—with only 800 in operation but

**6,000 IN ORBIT**

## PACKING FOR A LONG FLIGHT



## WHAT WOULD YOU PACK FOR A TRIP INTO SPACE?

In addition to their assigned clothing, ISS crew is allowed to bring 5kg of personal items onboard. Astronauts bring pictures, games, holiday decorations favourite condiments and even instruments.



WANT TO TAKE YOUR NEXT  
HOLIDAY IN **SPACE?**

SPACE TOURISM IS OFFICIALLY OPEN FOR  
BUSINESS AND IT'S ONLY **AU\$26  
MILLION** FOR A ONE-WEEK STAY.

**VACANCY**

2001 UNITED STATES BUSINESSMAN DENNIS TITO  
BECAME THE FIRST SPACE TOURIST WHEN HE  
ARRIVED AT THE INTERNATIONAL SPACE STATION  
ABOARD A RUSSIAN SOYUZ ROCKET.

## THE VOYAGER GOLDEN RECORD

THE SOUNDS AND SIGHTS OF HUMAN CULTURE

In 1977 the Golden Record was sent on-board Voyager 1 for any intelligent extra-terrestrial life or future humans to discover. It contains images, natural sounds, musical selections, spoken greetings and a message from United States President Jimmy Carter.



ASTRONAUT TOM  
STAFFORD SAID THE  
FIRST SWEAR WORD IN  
SPACE WHEN HE SAW  
A MOON CRATER AND  
EXCLAIMED "THAT'S  
BIGGER THAN \$#!+."

His Astronaut buddy Harrison Schmitt  
covered for him, replying  
"He said, bigger than Schmitt".

BIGGER  
THAN  
**SCHMITT**

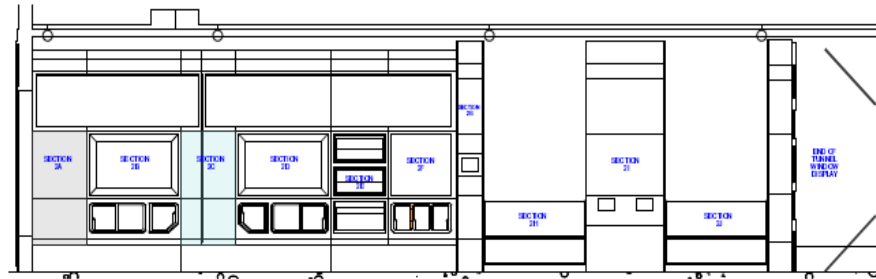




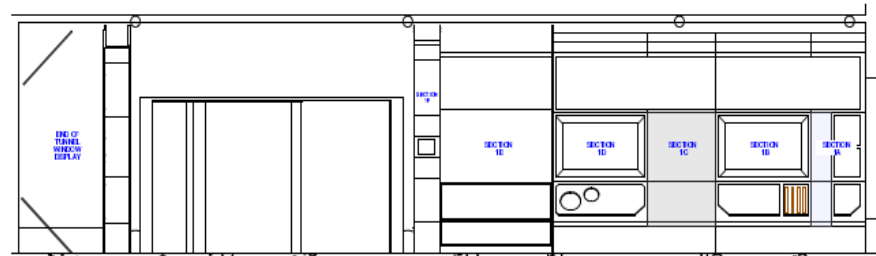
COSMOS CENTRE  
OUTBACK THEATRE







TUNNEL WALL 2 - LEFT HAND SIDE ELEVATION  
128



TUNNEL WALL 1 - RIGHT HAND SIDE ELEVATION  
129

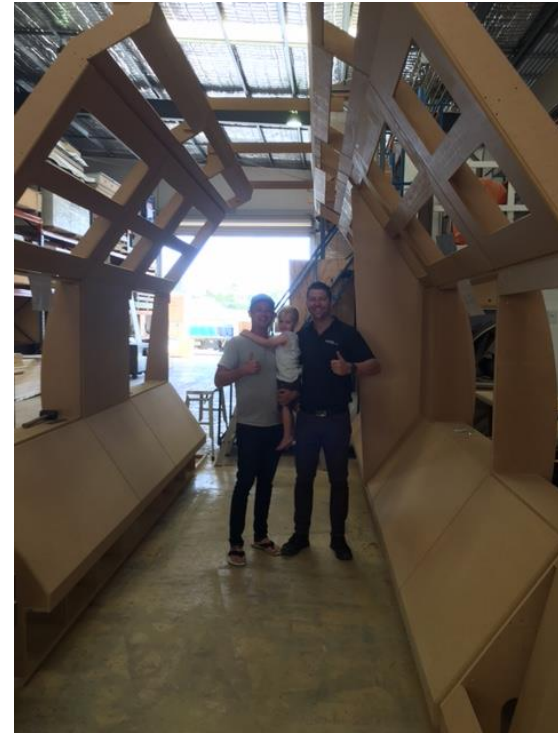
**FOCUS**  
PRODUCTIONS

Focus Productions Pty Ltd  
43/43 Campbell Rd, Yagajalla QLD 4207  
Ph: 1300 791 583  
E: info@focusproductions.com.au  
W: www.focusproductions.com.au

Client: Charleville Cosmos Centre  
Project: Interior Interpretive Space Redesign  
Drawing: Section Tunnel Reference  
Scale: See Drawing Title

Drawn By: SB

Page: 1  
Job no.: 10019  
Date: 27/01/2017  
Rev: 1



WARREGO WATCHMAN • THURSDAY

## Go way out west ... for virtual reality experience

**CHARLEVILLE**  
ANIMATION is about to bring history from bygone eras to life. Virtual reality guru Chris Little and Ben Connolly from Griffith University Maptek are visiting the world war II convoy tour last week scanning key points of interest, including the hangar, radio tower and bomb vault. The laser scanner scans the inside and outside of the building. It takes 3.5 minutes to collect data every firm along its axis. A second rotation of the scanner then captures photos. The photos are overlaid onto the original scan data to produce a 3D replica of the building. Chris said this software would then allow animators to bring the building to life in many different ways. Tourists could point their phone at the building and you might be able to see WWII soldiers emerge out of the bomb vault, and hear and see their story," he said. "There are stories in these walls, so we're exploring ways we can make these buildings talk."

Chris is currently doing a PhD in heritage preservation through new technology. He said the virtual reality app would allow tourists to see what the landscape and building used to look like when visiting certain points along the tour. While it was still just a proof of concept, once the data was collected the opportunities were endless, he said. "The council could create an app that helps guide tourists through the tour on a virtual reality experience," he said. "There is an element of mystery out here and you could create a really immersive experience with all of this history."

Ben is a 3D laser-scanning consultant. The \$120,000 scanner he was using at the site is the same scanner used by forensic police to reconstruct crime scenes. His company supplied the software and scanner that was used to recreate the Lindt cafe in the 2014 hostage crisis. Marketing and events coordinator Monique Johnson said that

Ben Connolly operates the scanner while Chris Little shows Monique Johnson 3D views of the buildings.

while nothing was set in stone, this was a fantastic opportunity to look to the future and grow the WWII air force tour brand.

"It's a really good story," she said. "It takes over an hour as it is and that's only what the guide tells you that you can picture in your head. With an app like this we can show so much more. It lifts the history off the page."

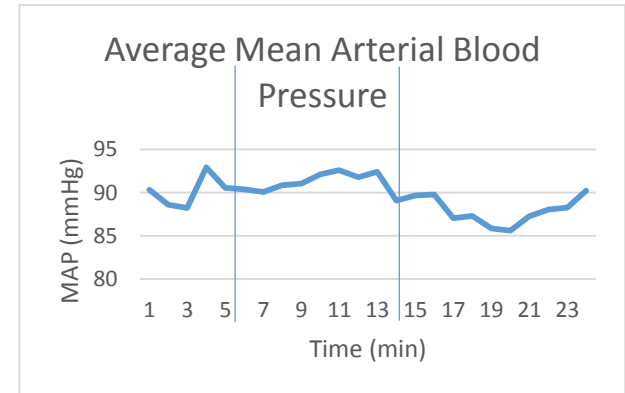
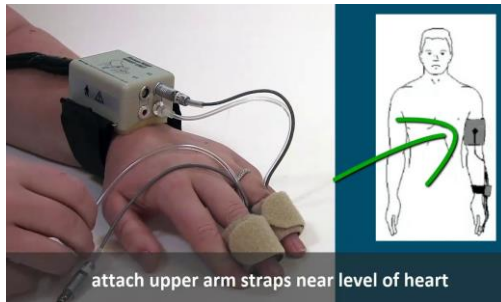
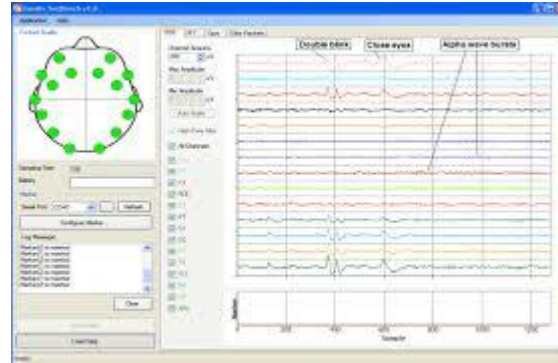
Griffith's Institute for tourism Dr

Benet Moyle said virtual reality was still very much up and coming. "Our institute is ranked number three in the world, we do quite innovative projects," he said. "If we win a big grant to get this off the ground we're looking at something world class. It won't happen overnight but if we join forces and apply for funding this will be an amazing experience."

MARGUERITE CUDDY









# Griffith Institute for Tourism