Virtual Environments, Visualisation, Novel Displays

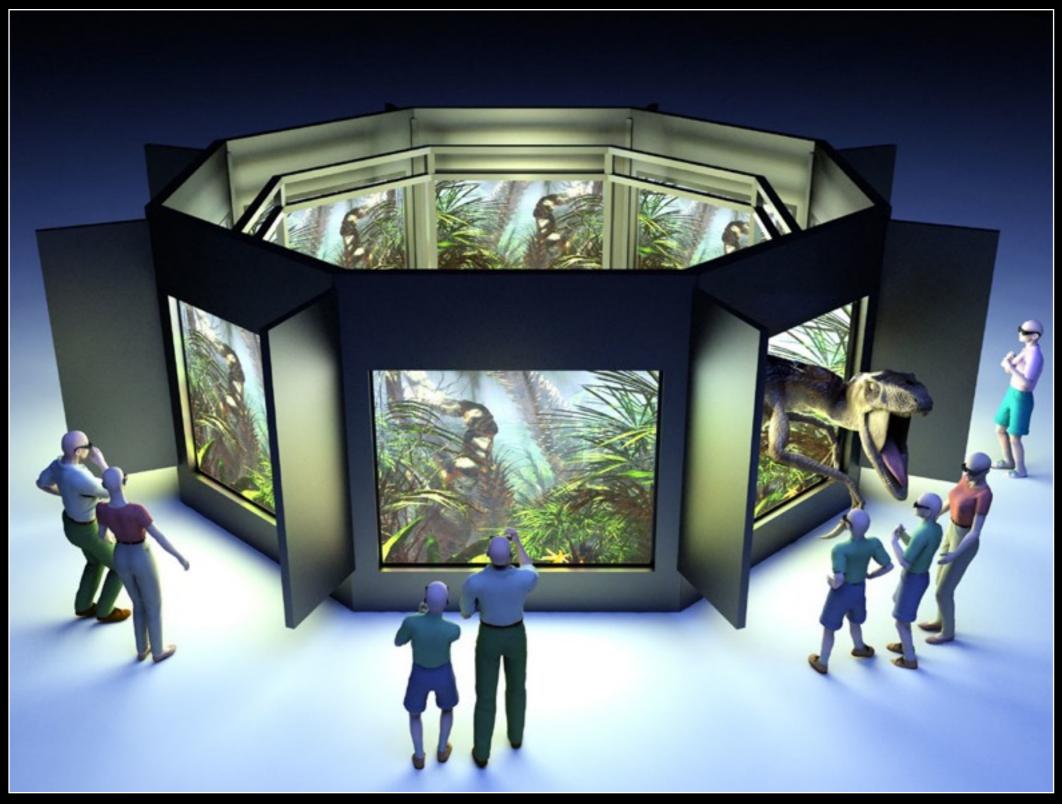
Project Summaries

Paul Bourke iVEC@UWA



Virtual room

Collaboration with Museum Victoria







Adapted from Samuel Beckett's narrative 'The Lost Ones', UNMAKEABLELOVE is a virtual reality installation that focuses and makes interactively tangible a state of confrontation and interpolation between our selves and a society of computer generated people who are living in a severe state of physical and psychological entropy.

AVIE: Advanced Visualisation and Interaction Environment

Collaboration with iCinema, UNSW



AVIE: Place Hampi

Collaboration with Sarah Kenderdine and Jeffrey Shaw

Roundshot camera



Drum scanned 75mm film.



Left camera





AVIE: Place Türkiye

Collaboration with Sarah Kenderdine and Jeffrey Shaw



Left eye



iDome: Place Türkiye

Collaboration with Sarah Kenderdine and Jeffrey Shaw



Hashibektashi Dancers



iDome: Mawsons Huts

Collaboration with Peter Morse





40,000 x 20,000 pixels



Hurleys darkroom, Mawsons hut (Antarctica).

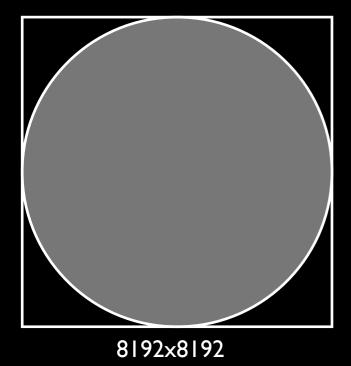




Planetarium: Virtual Heritage (Mawsons Huts)

Collaboration with Peter Morse

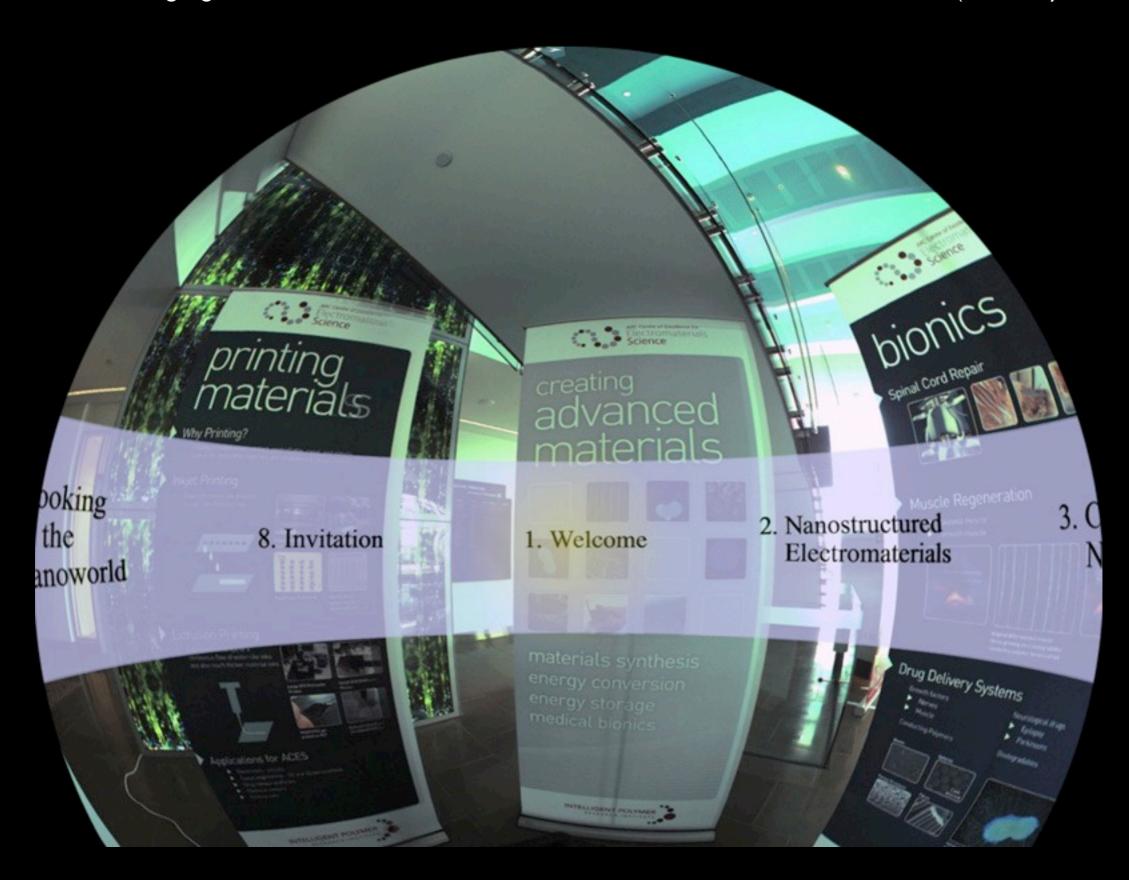
HD 1920×1080





iDome: Science Centre Wollongong

Collaboration with Wollongong Science Centre and ARC Centre of Excellence for Electromaterials Science (University of Wollongong)







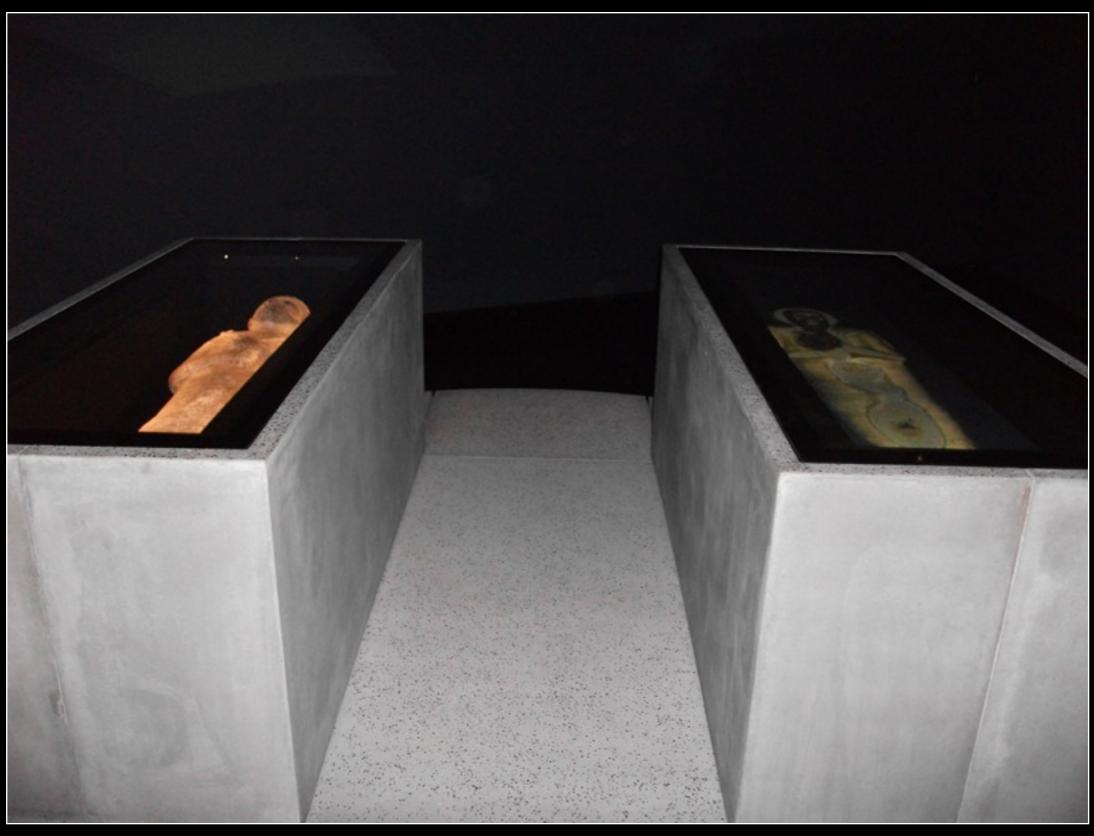
EON: Eye of Nagaur

Collaboration with Sarah Kenderdine and Jeffrey Shaw



Pausiris Mummy

Collaboration with Peter Morse and MONA (Museum of New and Old Art)



Opened January 2011

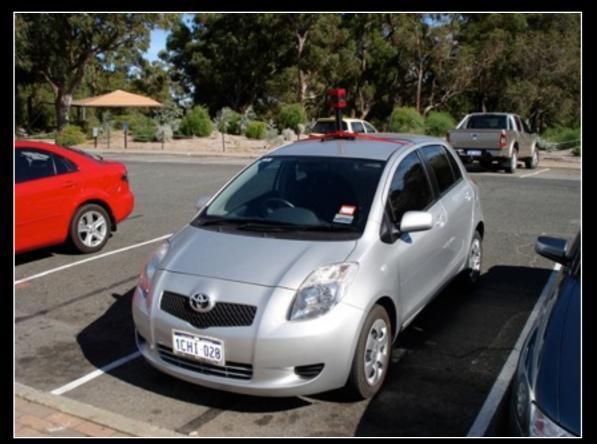






LadyBug-3 camera

PtGrey Research Inc.









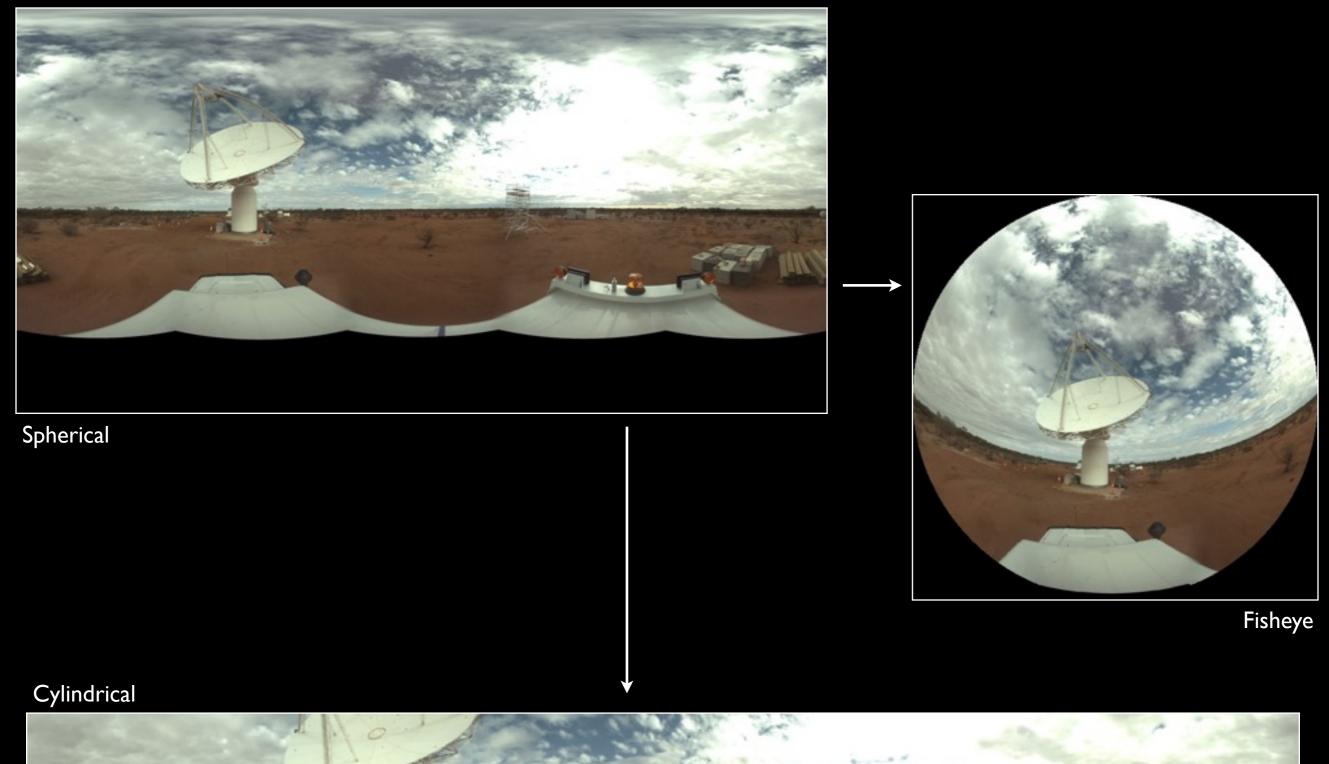


iCinema





Micoy





Unity3D game engine

- Highly recommend Unity3D for implementing virtual environments.
- Mac and MSWindows development system.
- Supports stereoscopic, image warping (cylindrical/spherical) and multiple displays.
- Very stable and mature.
- Highly cross platform: Mac OS-X, MSWindows, IOS (iPad, iPhone, iPod), PS3, XBox360, Android.
- Modern physics and rendering engine.





