



UNSW
SYDNEY



Expanded Perception and Interaction Centre (EPICentre)

A pioneering high-performance visualisation facility that forges new ground in integrated artistic and scientific thinking to facilitate understanding of complex datasets and ultra-scale imagery.

Competitive advantage

- High-End Visualisation System (HEVS) removes barriers of entry for deploying visualisation applications to any platform including AR, VR, XR, large screens, multi-touch walls
- Virtual Reality of the Future (~120 million pixels in 3D) allows experimentation with new User Interface (UI)/User Experience (UX)
- The most influential computer graphics and high-performance visualisation laboratory in Australia
- EPICentre hosts the highest resolution Virtual Reality (VR) system in the world—nearly 120 million pixels in 3D. This is achieved by 56x60" display cubes, assembled in a 4x14 matrix with 1-2mm edge-to-edge bezels. It also hosts a 6.5m Travelling Full Dome

Impact

- EPICentre promotes cross connection of visualization with applied computational simulations, artificial intelligence (AI), and creativity in arts and science

Successful applications

- High-End Visualisation System (HEVS): platform allowing the deployment of interactive applications across a range of visualisation systems; one executable that runs everywhere
- Massive Networks and AI: visualisation and analytics of very large-scale graphs in immersive environments

More Information

Associate Professor Tomasz Bednarz

Director EPICentre

UNSW Art & Design

T: +61 (0) 459 855 376

E: t.bednarz@unsw.edu.au

UNSW Knowledge Exchange

knowledge.exchange@unsw.edu.au

www.capabilities.unsw.edu.au

+61(2) 9385 5008