

Undertaking immersive and interactive projects, through the use of next generation cyber/physical technologies, to re-imagine ways of creating, designing, learning and working.

Competitive advantage

- Multidisciplinary centre bridging key research areas across multiple faculties
- World-leading expertise in Artificial Intelligence, AR, VR, Mobility and Robotics
- Frontier 3D Cinematic, Modelling, Printing, Scanning and Robotic platforms
- Global network of cutting-edge research and industry partners

Impact

- Facilitating the application of next-generation immersive interactivity applications in contemporary art, cultural heritage, defence memorialisation, digital museology and mining simulation
- Contributing to Australia's international leadership in transformative aesthetic advances that translate cutting-edge visualisation research into industry application
- Enabling end-users to explore interactive modelling of fictional and realworld scenarios in real-time at cinematic 1:1 scale through full-body physical exploration, supported by artificial intelligence systems
- Providing innovative visualisation modalities greatly sought after in a world increasingly reliant on joint human and machine decision-making, facilitated through modelling of unpredictable real-world scenarios

More Information

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Successful applications

- Construction Safety VR for Brookfield Multiplex, Sydney
- Cultural Heritage Installation for The Smithsonian, Washington
- Metro 3D Immersive Prototyping for WSP, Sydney
- Mine Training and Planning VR Systems for China Technology & Engineering Group, Fushun

Capabilities and resources

- 360 degree full-body AR and VR Platform with 20M pixel resolution
- Wide range of Head Mounted Display systems
- Ultra-High-Definition 5K fixed and mobile 2D/3D scanning systems
- · Advanced Robotic Interaction facilities
- Interface for seamless communication between physical and virtual worlds
- Key research areas across multiple faculties of Art and Design, Art and Social Sciences, Engineering, Science and NIDA.