



UNIVERSITY OF
NEWCASTLE

ADVANCED TRAINING SYSTEMS

Innovative Training Solutions Through VR and XR Technologies

The Centre for Advanced Training Systems develops cutting-edge training solutions for industry stakeholders, with a specific focus on innovative VR and XR training technologies for high-risk, high-stakes environments. Our team specializes in creating immersive training experiences that have been successfully deployed across nearly every industry sector, with particular expertise in healthcare, Defence, and emergency services applications.

PARTNERSHIP CAPABILITIES

- **VR Training Platforms:** Advanced virtual reality systems for realistic, safe training environments
- **XR Technology Solutions:** Extended reality applications for comprehensive skills development
- **Custom Training Development:** Tailored training solutions designed for specific industry needs
- **Multi-person Team Training:** Advanced environments for team planning and collaborative training scenarios

PROVEN IMPACT

- **Scale of Deployment:** Training systems used by thousands of staff across the country
- **Healthcare Innovation:** TACTICS VR platform deployed by NSW Health for junior clinicians in rural and regional areas
- **Defence Applications:** Specialised training systems developed for the Australian Defence Force
- **Emergency Services:** Advanced training solutions implemented for NSW Ambulance
- **Skills Development:** Successfully helping healthcare professionals and students acquire critical skills for high-pressure situations

TRANSFORMING RURAL HEALTHCARE TRAINING

The TACTICS VR platform is revolutionising how junior clinicians in rural and regional areas acquire critical skills for managing high-risk, low-occurrence medical emergencies. This innovative training system provides realistic, immersive experiences that would otherwise be impossible to replicate safely, ensuring healthcare professionals are prepared for life-critical situations regardless of their geographic location.



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