Provide advanced objective biometrically based assessment methodologies to capture how stress, attention and cognitive load impede decision making ability. By measuring complex internal states that impact on decision-making and factoring these into training protocols, we reduce the risk of catastrophic decision-making errors. This is highly valuable for Defence as service personnel are often placed into operational environments that require flawless performance in complex high threat environments.

**COMPETITIVE ADVANTAGE**

- We run the largest group in Australia that develops biometrically assisted training packages to enhance control over emotional factors such as stress for individuals operating in high threat situations
- Expertise in training to improve decision making under conditions of high stress and cognitive load leads to better decision makers
- Better decision makers results in better operational outcomes

**SUCCESSFUL APPLICATIONS OF RESEARCH**

- Defence Innovation Hub (Capability Technology Demonstrator) 2016
- Army Innovation Day (Subcontractor to Zero Latency) 2017
- Defence Innovation Network pilot project funded in 2019
- Request to Submit Unsolicited Tender by Army headquarters 2019

**PARTNERS**

- Army
- Army Land Simulation
- Army School of Health

**IMPACT**

- The battlefield environment represents the very essence of high threat, high risk, high stress environment
- Decisions with life and death consequences have to be made often with incomplete information. Each of these decisions can be compromised by factors such as stress and attention and alertness.
- Our team specialises in measuring these highly important ‘internal states’ to develop individual response profiles and implement customised training solutions. This produces more accomplished warfighters

**CAPABILITIES AND FACILITIES**

- Advanced Biometric Monitoring Facilities - Including Remote Monitoring of Critical Physiological Parameters
- Free roam virtual reality (VR) and tethered VR infrastructure
- XR programing and user interface / experience capability

**MORE INFORMATION**

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