

# MULTI-MODAL MILITARY MEDICAL RESEARCH & DEVELOPMENT

## TESTBED FOR EMERGING USE CASES

The Army's Synthetic Training Environment (STE) envisioned to revolutionize United States Army training by merging live, virtual, constructive (LVC), and gaming platforms into an interoperable training experience that provides real-life immersion for combat training. ECS works closely with the US Army DEVCOM STTC to continually research integration of various military medicine training solutions and use cases, focusing on both existing and emerging technology trends.

This body of ongoing research utilizes Agile methodologies which enables quick response to the Government's changing needs to investigate, integrate, and test emerging technologies.

- Collaboratively Identify Use Cases
- Define Requirements
- Continually Research, Develop, and Evaluate Technology
- Leverage Recent Affiliated Research Products as Use Case for Extensive Evaluation
- Establish Test Plans
- Conduct Rapid Testing
- Report Out on Test Data
- Analyze and Summarize Findings for Applied Research Considerations

## Accomplishments:

- Technology integrations with Tactical Combat Casualty Care Simulation (TC3Sim)
- User Testing and Training Effectiveness Evaluations (TEE) at Joint Base San Antonio
- Integration of a wide range of haptic glove systems into various TCCC scenarios
- Research analysis on available haptic, XR, and physiology engine technologies and applicability to TCCC, CUF, and K9 training
- Iterative tests and integration of use cases
- Analysis and literature reviews



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