MODULAR MEDICAL ENVIRONMENT (MME)

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. The Modular Medical Environment (MME) serves as a research testbed for integration of various military medicine training solutions and platforms, focusing on existing as well as emerging technology trends.

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

Accomplishments:

- Publishing Tactical Combat Casualty Care Simulation (TC3Sim) on iOS and Android available on www.tc3sim.com
- Scaling TC3Sim to multiplayer
- TC3Sim Training Effectiveness Evaluation (TEE) at Joint Base San Antonio
- Integration of SenseGlove haptic gloves for Care Under Fire Training (CUF)
- Research analysis on available haptic, XR, and physiology engine technologies and applicability to TC3 and CUF training