


**Wide Area Virtual Environment**

*Develop America's Airmen Today... for Tomorrow*

**The Camp Bullis WAVE Program**




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**Overview**

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- History and Growth of the Camp Bullis WAVE Program
- Scenarios
- Pre-briefing
- Debriefing
- Curriculum Integration
- The Future



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**History**

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- Technology and concepts developed by the experts at the Uniformed Services University, Val G. Hemming Simulation Center
- US Air Force acquired prototype with the intent to build a training program around it
- Prototype installed at the Medical Readiness Training Center (MRTC) at Camp Bullis in January 2012
- First scenario conducted in May 2012...6 students

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**Growth**

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- Started supporting the Expeditionary Medical Support (EMEDS) course in June 2012
- By January 2013, support extended to all courses taught at the MRTC
  - Expeditionary Medical Readiness Course (EMRC)
  - Aeromedical Evacuation Patient Staging Course (AEPSC)
  - Patient Decontamination Course (DECON)

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**Growth**

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- Encounter and student numbers continue to grow
  - 6 students/1 scenario in May 2012
  - 40 students/10 iterations of the scenario in August 2012
  - 378 students/47 iterations of the scenario in March 2013
  - 451 students/56 iterations of the scenario in April 2013
  - Our record to date is 164 students/16 iterations of the scenario in one day, January 2014

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**Scenarios**

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**Scenarios**

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Tactical Combat Casualty Care

- Supporting EMEDS, EMRC, AEPSC courses




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**Scenarios**

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Tent City

- Supporting DECON course




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**Scenarios**

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Expeditionary Emergency Room

- Supporting the EMEDS and AEPSC courses




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**Scenarios**

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In-flight Emergency

- Supporting EMEDS course




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**Pre-Briefing**

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- Outline the objectives of the scenario
- The virtual environment




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**Pre-briefing**

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- The physical environment



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## Pre-briefing

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- Gear and supplies






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## Debriefing

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- Review students' performance based on objectives
- Encourage discussion vs. one-way conversation
- Reinforce action vs. inaction
- Close on a positive note




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## Curriculum Integration

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- Marketing the platform to instructor staff/faculty
- Obtain learning objectives for the course
- Tailor scenarios to achieve learning objectives
- Make adjustments from lessons learned and maintain relevance
- Make the new training platform official by adding it into the curriculum






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## The Future

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- **Enhancing The Physical Environment**
  - Adding Props, i.e., patient simulators, statics, live actors
  - Obstacles, i.e., breach operations
  - Adding capability of physical stimuli, i.e., being shot
  - Enhancing smell dispersal and smoke

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## The Future

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- **Enhancing The Virtual Environment**
  - Improve interaction with the virtual images
  - Enhance the gaming experience





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## The Future

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- **Validation Study**
  - Period of Performance begins Aug 2013
  - Assessment Period is 12 months
  - Measuring Objective and Subjective metrics
  - Combat Patient Care Scenario
- **Increasing Student and Course Participation**
  - Solicit participation of Air Force medical courses other than ones offered by the MRTC
  - Explore Joint Training; begin with the C4 Program

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## Questions



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