



U.S. Army Aviation & Missile Research, Development, and Engineering Center (AMRDEC)

# AMRDEC Homeland Security

## Security Through Technology

### MODELING & SIMULATIONS / TRAINERS

#### RESOURCES

- Extensive Toolbox of GOTS & COTS Software
- Warfighter Protection Lab (WPL)
- Advanced Prototyping, Engineering, and Experimentation Laboratories
- Life-Cycle Software Engineering Center  
*The **only** Army facility with a Software Engineering Institute Capability Maturity Model **Level Four** rating, which means that we are among the top 5% of organizations performing software development, systems integration, verification and validation, interoperability engineering and testing.*

#### CAPABILITIES

- Constructive/Virtual/Live Simulations
- Large scale, distributed simulations
- Hardware in-the-loop
- Scenario Development
- Simulated Sensor Detections
- Virtual Terrains
- Tactical Emergency Mgt Tools
- GIS-Based Situational Analysis
- Exercise Support
- Training Development
- Software Development & Integration
- Infrastructure Management



#### VIRTUAL INCIDENT COMMAND (VIC)

Designed for the Center for Domestic Preparedness, VIC offers an immersive Nat. Incident Management System (NIMS) training experience. Selected from hundreds of entries for DHS's 1401 Technology Transfer Program! Other Warfighter Protection Lab work includes infrastructure protection, blast effects modeling, plume cloud modeling, and evacuation.



#### AMERICA'S ARMY®

Training simulations for law enforcement officers and soldiers based on the popular America's Army gaming engine. Two new applications: nuclear, biological, and chemical scenarios where hand-held detection devices are used in a real-world, three dimensional environment. The training goals are to improve team coordination and sensor operation.



#### MULTIPLE UNIFIED SIMULATION ENVIRONMENT (MUSE) / AIR FORCE SYNTH. ENV. FOR RECON. & SURVEILLANCE (AFSERS)

Unmanned systems simulation for training command and staff officers in both unmanned aircraft systems and ground vehicles performing intelligence, surveillance, and reconnaissance missions. Deployed world-wide for joint service warfighter training, and proficiency training.



#### LASER SHOT

Low cost, highly accurate simulation for small arms entry level and sustainment training. It uses virtual reality targets and an infrared laser detector array for tracking the gunner's aim point, and operates on a personal computer.



#### AIR DEFENSE TRAINERS

The Stinger Troop Proficiency Trainer and the Table Top Trainer for the Avenger Air Defense System, which includes the Stinger surface-to-air missile, provide training without the need to launch missiles for such military exercises as the North American Aerospace Defense Command's Distributed Mission Operations - Amalgam Arrow 2006-2007.



**RDECOM**

TECHNOLOGY DRIVEN.  
WARFIGHTER FOCUSED.



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