



Defense
GAMETECH
Users' Conference

'08

GameTech 2008

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PM Combined Arms Tactical Trainers

Program Executive Office for
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Ambush! Staff



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Agenda

- Project History
- Ambush! Now
- Ambush! Future
- Future Games for Training Strategy
- Team Introductions
- Closing Remarks



Project History

Mar 06 - Held the first Army Gaming Conference and Ambush! Users Conference at Fort Lewis jointly with DARPA.

Jul 06 – Accepted transition of the Ambush! technology from DARPA.

July 06 - Fielded two 20-system suites of Ambush! to 10th Mountain at Fort Drum and trained the trainers.

Jan 07 - Fielded Ambush! to three locations in Afghanistan in response to a CFLCC request and trained the trainers.

Mar 07 - Conducted the second annual Ambush! Users' Conference at Ft Hood.

May 07 – Created two new geospecific OEF AO terrain maps and ordered 2000 copies of the Ambush! commercial Game Engine to circumvent shortages of the engine on the commercial market.

Jun 07 - Created a support website with an AKO log-on where a user may:

Request information, software and technical assistance from PEO STRI and Ambush! users across the services.

Download Ambush! modifications, missions and terrain.



Project History (continued)

Jun 07 – Fielded software version 1.5 which included the communications, game engine, mission, AAR improvements and DIS PDU generation enhancements.

Sep 07 – Fielded Ambush! to the Maneuver Captain's Career Course at Fort Benning and trained the trainers

Nov 07 and on going – Developed Route Clearance Company vehicle models and missions, purchased hardware, fielded and provided NET for five Route Clearance Companies.

Apr 08 – Awarded contract in support of a JIEDDO project to simulate CREW familiarity training in Ambush!

Apr 08 – MANSCEN Combat Developer requested additional vehicle (ASV and RG-33L) and additional hardware fieldings.

Demonstrated Ambush! to more than 13 Army organizations.

Since transitioning the project from DARPA, delivered over 623 copies of Ambush! to over 90 organizations via mail and over 100 via download. 1500 licensed copies pending fielding to Fort Knox.



Current Efforts



Route Clearance Project Description:

Description:

Augment DARWARS Ambush! to support training for route clearance operations. This includes specialized route clearance vehicles, IEDs, miscellaneous trash, training missions, and an instructor training package to support institutional training.

Sponsor:

Army PEO STRI & Ft. Leonard Wood MANSCEN
Gov't POC's: Leslie Dubow (PEO STRI, Orlando); Dave Engbrecht (MANSCEN, Ft. Leonard Wood)

Subject Matter Expertise:

MANSCEN, Ft. Leonard Wood; CPT Dan Coleman

Project Status:

Start Date: Sept 2007
Completion Date: January 2008



R/C Vehicles



Buffalo



Husky



RG-31



Mine Detonation Trailer



Future R/C Vehicles



ASV



RG-33



IEDs and Distractor Objects

Explosives

122 mm artillery shell (wired and unwired)

155 mm artillery shell

M15 AT mine

M19 AT mine

EFPs

Pipe Bomb

IED Components

Motorcycle battery

Car battery

initiator/project boxes

Pressure bar initiator

Christmas tree type pressure wire

Cordless phone & cordless phone base station

Wires (green, blue, red, copper, black in various lengths & curves)

Miscellaneous

Hub cap

Containers & Objects to Hide IEDs

Cardboard boxes (closed and post-interrogation) [4 variants]

Garbage bags (closed and post-interrogation) [2 variants]

Burlap sack (close and post-interrogation)

Concrete forms

Dead sheep, goat, & dog (normal, stitched belly, crushed, IED in belly)

Curbstone

Metal can

VBIED (riding lower in back, tinted windows, wires in interior)

rubber inner tube

MRE bag

Terrain Modifications

Road surface modifications

roadside surface modifications

rocks and concrete rubble

blast holes

dig holes



R/C Missions

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Mission 1 [A-E variations]

Reoccurring route clearance of the same route. Basic IED, RPG, and SAF attacks

Mission 2

Hidden secondary IED attack

Mission 3

Night mission with baited ambush

Mission 4

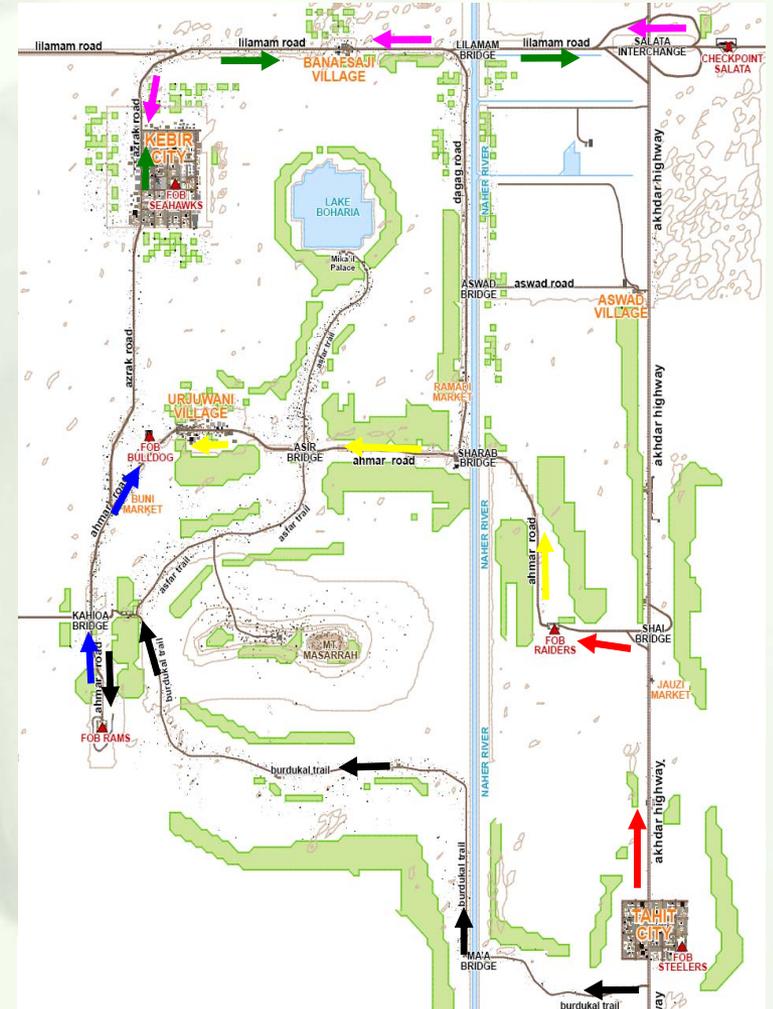
Reading the local populace; vehicle and casualty recovery

Mission 5

Use of the Husky [transition from hardpack to dirt]

Mission 6

Complex attack; Simultaneous IED and RPG/SAF engagement and later EFP attack



Non-Lethal Effects



NK Project Description:

Description:

DARWARS Ambush NK! (non-kinetic now non-lethal), features two new scenarios that focus on providing a practice environment for warfighters' to engage in and transition among non-kinetic activities (i.e. interpersonal rapport building, negotiation, evidence collection, tactical questioning, etc.) that occur within the context of warfare.

Scenarios: Cordon and Knock, Detainee Ops and Evidence Collection

Sponsor:

DARPA

Project Status:

Start Date: March 2007

Completion Date: January 2008 (posted to Ambush! site)



Future Efforts



CREW Project Description:

Description: Provide virtual representation and replication of CREW actions and effects in support of training for Convoy Defense Operations as well as IED Defeat mounted and dismounted maneuver training

Reinforcement of the following CREW tasks during Convoy, mounted or dismounted, maneuver training exercises in the virtual environment:

- (1) Increase awareness of CREW capabilities
- (2) Perform basic operator tasks prior to, and during training events
- (3) Work around BLUFOR Communications Interference
- (4) Implement convoy maneuver TTPs in respect to CREW capabilities
- (5) Use CREW Convoy Planning Tool to plan CREW distribution in virtual training scenarios
- (6) Plan and execute maneuver drills with respect to CREW capabilities
- (7) Develop communication plans to overcome potential interference caused by CREW
- (8) Properly employ CREW during mounted or dismounted operations
- (9) Visually see and understand simulated CREW use in an AAR



Future Efforts

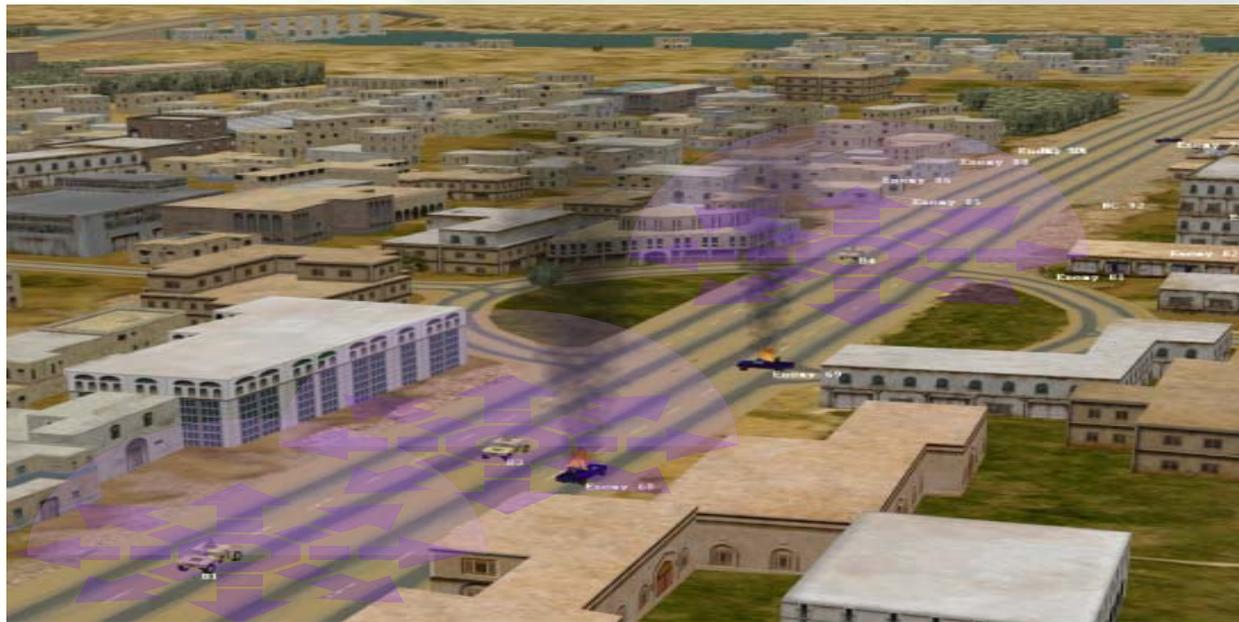


CREW Sponsors:

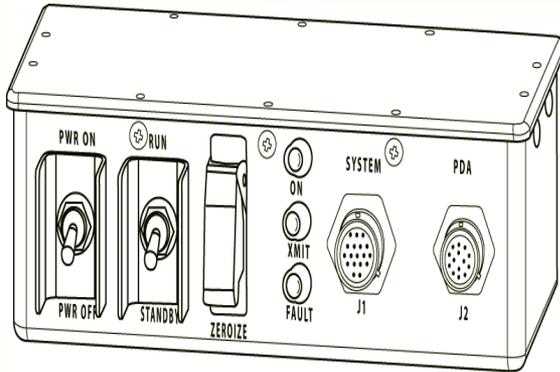
Gov't POCs: TCM Ground Sensors & PM CREW
Leslie Dubow (PEO STRI, Orlando)

CREW Ambush! Modifications:

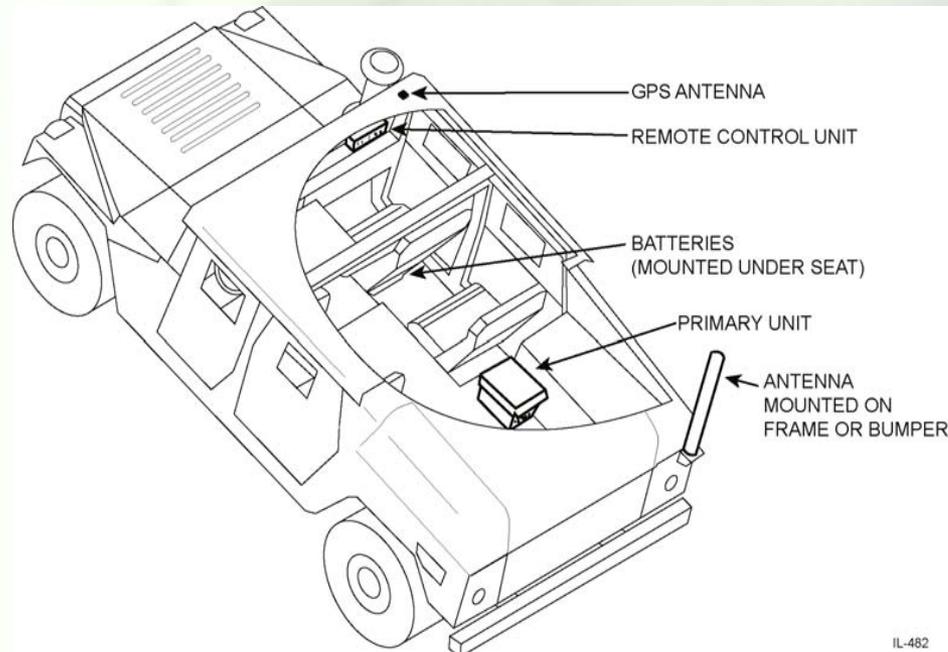
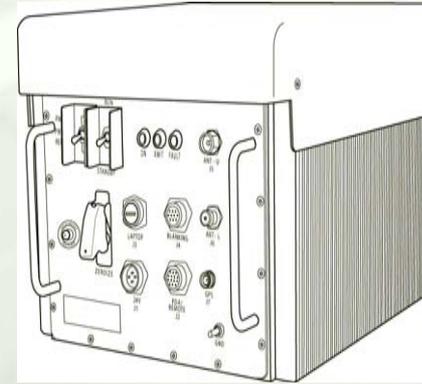
- Counter Radio Controlled IED Electronic Warfare
- User Interface
- Additional IED models
- Ready for Training – Nov 08



CREW Modifications



IL-201



IL-482



Website Metrics

Website Stats

- 202 Registered Ambush! Users
- 1950 Operation Flash Point CDs issued to date

Latest News

- New BETA Route Clearance Models Available
- DARWARS Ambush! NK now available for download

Active forum topics

- T-80 Platoon
- DARWARS Ambush! NK
- Snipers
- Files

