TiGRNET Advantages:

- Complete pictures of the terrain
- Reconnaissance tool when time is limited
- Creates expectations for what the soldier should see on a patrol
- Pictures to brief troops on current operations
- Improved Battle handoff
- Capable of tracking trend detection
- Improved Land Navigation
- Improved Checkpoint operations

The more information supplied to the troops, the more we own the fight!

"You have to have really good Intel in real time. You have to have operational analysis of what's going well and what's not going well."

~ retired Army Gen. Montgomery C. Meigs, *director of the Joint Improvised Explosive Device Defeat Organization, Sept 8, 2006*

For more information, contact:

Department of Behavioral Sciences and Leadership
Thayer Hall
West Point, NY 10997
(845) 938-2515

On the Web:
http://www.dean.usma.edu/departments/bsl

Engineering Psychology Leader Series:

TigerNet

Allowing a fluid change of command.... Without losing any information!

A service provided by the

Engineering Psychology Program

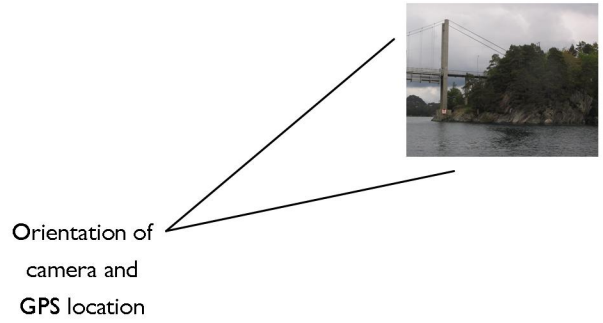
Cadet Erik Edstrom, Vanessa Forbes and Becca Garcia

TiGRNET

The insurgents in Iraq and Afghanistan are constantly changing their tactics and planning their attacks based on the tactics, techniques, and procedures (TTPs) of American units. Much of the intelligence gathered by American forces during an operation is lost in the rotation of units. With TigerNet, incoming units will have the ability to share information on the terrain, enemy units, and areas of interest. Being able to sync pictures with maps will give incoming units the ability to acquire more intelligence before they arrive. The information shared via TigerNet will allow for a fluid change of command without losing information.

How it works

The camera contains a GPS chip that records the location from where the picture is taken. This file is then downloaded. On the picture is a fan shape diagram illustrating the difference in distance between the object and the current location of the camera.



The information is downloaded into the system where it is accessible by other units as they prepare to enter theater, or by other military leaders preparing for their missions. Soldiers can take notes, then attach them to the pictures and GPS location. For instance, noting that three IED attacks occurred in one location is pertinent information for both commander and soldiers. This information, stored in a database, will provide both military intelligence and additional information that may become useful for future operations. TigerNet does not take the place of a reconnaissance; however, given limited time, this system may be a useful supplement for better understanding the area of operations.

Results

The results of this experiment did not statistically support TiGRNET as a better interface for detecting differences nor did it improve confidence in the answer significantly. However, there are many other intangible factors that were not considered in this study. TiGRNET will clearly be better after a usability analysis. It allows sharing of information and trends amongst all leaders to make better plans for future operations.

Supporting Theory

- Bottom-Up Vs. Top-Down Processing
- Serial Search Model
- Conspicuity
- Expectancies

Participants

- 25 Freshman Cadets from the United States Military Academy
- Very little military experience with military patrols

Questions about Tiger Net?

For more information, contact us at:

Erik.edstrom@usma.edu