

Security Force Reduction

Force Protection Technology and Applications

Overview



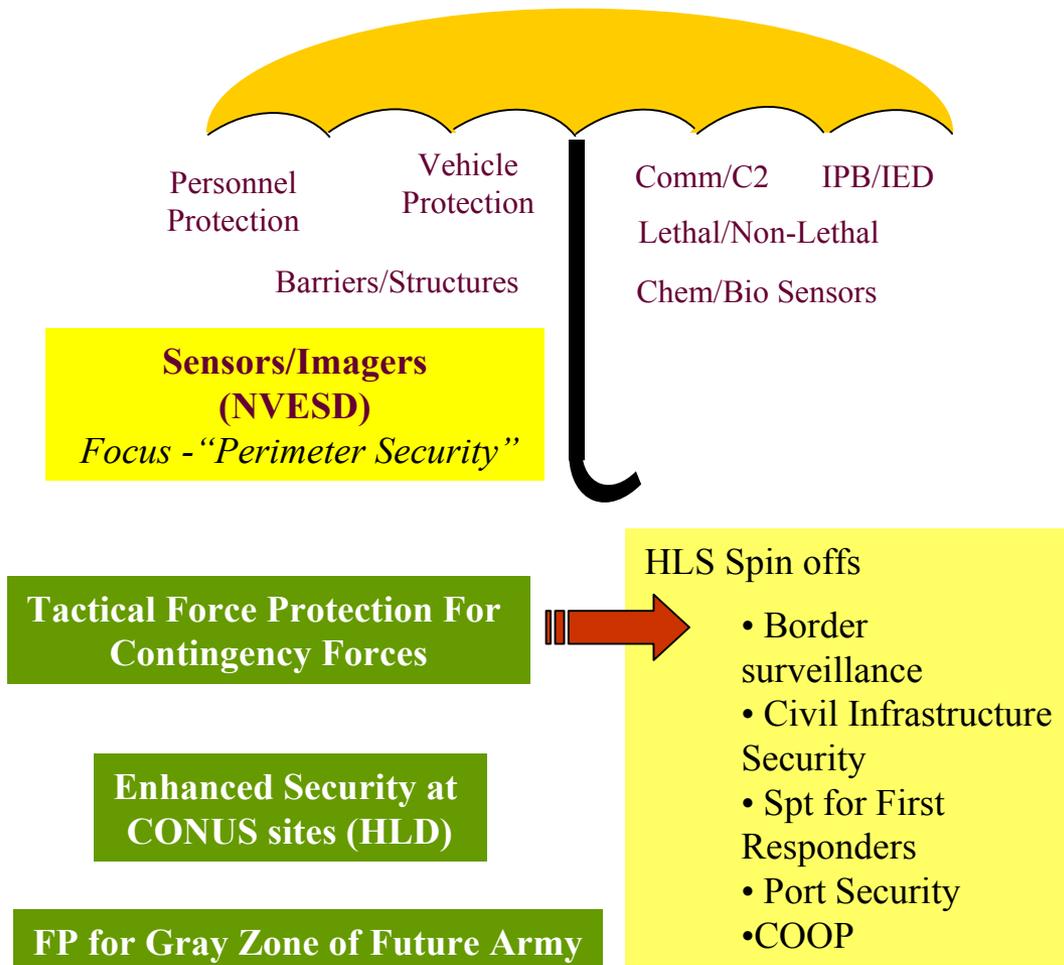
U.S. ARMY NIGHT VISION

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Force Protection Technology

A Technology Umbrella for Protection



Users' required output from Force Protection Technology

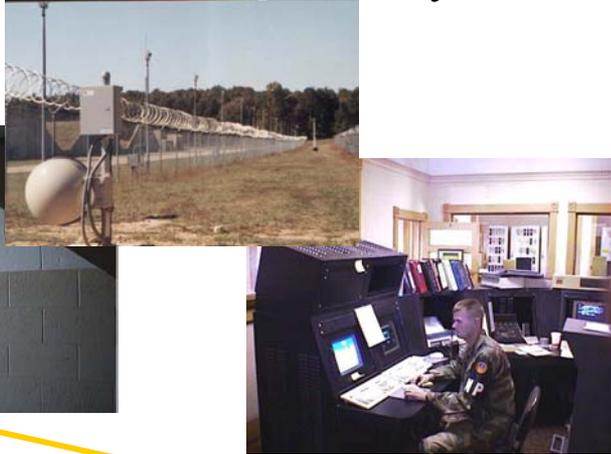
1. Increase unit survivability – extend the eyes and ears of the operator
2. Reduce manpower demands for Force protection – seek a forced multiplier
3. Increase response force efficiency – standoff detection/assessment, aid in directing and tailoring the response
4. Adjust to dynamic threats and environments – “plug and play” arch – pre-engineered system modules for maximum
5. Mission flexibility and ease of employment
6. Cost effective

Sensors - the one technology area that provides broad capability to meet the operational goals

Real World Expertise

Conventional Facility Security

ICIDS



Custom Security Solutions



Tactical Security / Force Protection



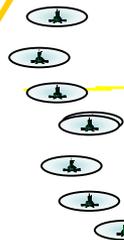
**System
Integration
Field Spt.**



Gate

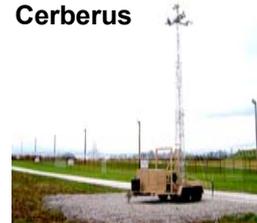


SPIDER (OEF)



CAMS

Cerberus



Homeland Defense



Surveillance Systems

Nuisance Alarm Issues



Center of ALA

- Rolling terrain
- Heavily forested
- Wildlife & Cattle
- *Roving patrols cover perimeter between OPs*

Terrain Issues



Manned OPS



Enhanced Perimeter Security
for
Army Critical Storage Sites

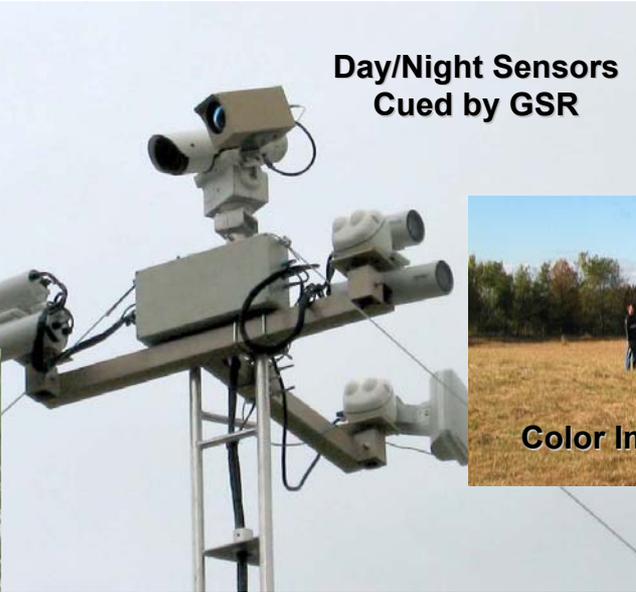
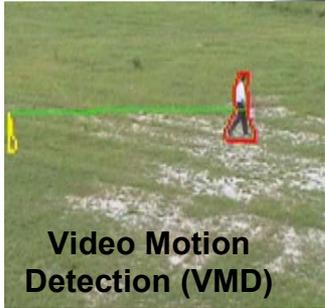
CERBERUS

Beyond-the-Fence Surveillance

Detection

Assessment

Command & Control





Cerberus Imaging Head
W/ Both Thermal and Day cameras
Staring Cameras, Lower ones,
Slew camera ctr top



Cerberus Installed

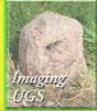


Cerberus ready for Ship

CERBERUS

Family of Mobile Integrated Sensors

*Remote
Detection*



*Chem
Sensor*

Enhanced Standoff and Coverage

Forward Tactical



*Common
Sensor
Controller*

*Rapid Deployment -
Short Range*



*Common
Sensor
Controller*

*Site Security -
Short Range*



*Common
Sensor
Controller*

*Site Security -
Long Range*



*Common
Sensor
Controller*

*Border
Surveillance*



*Common
Sensor
Controller*

*Common Architecture –
Shared Display*



Upper Echelon



Distributed SA



QRF

FULL SPECTRUM APPLICATION

Leverage Army's Future Force

"Mobile Tactical Force Protection Package"

-Layered Defense -

National/Strategy Assets provide IPB



Predator

Terrain Analysis Identifies Gaps in Unit's SA- defines TPSE Deployment

Core Force capability must interoperate w/ this Arch

Net Fire



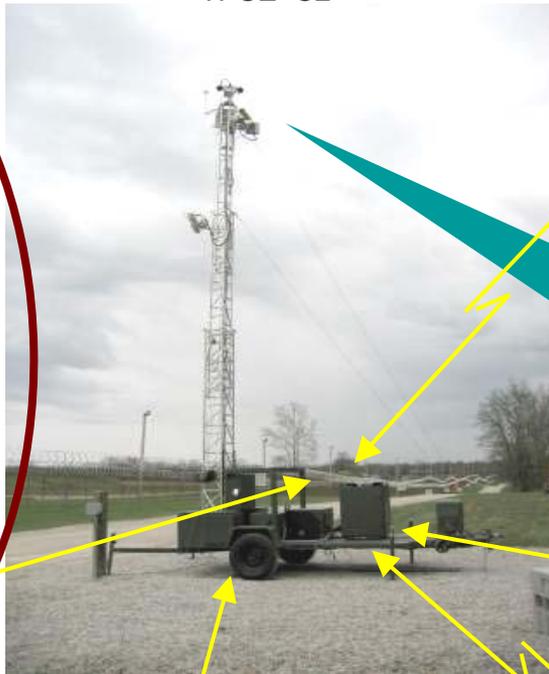
ASREQ Call For Fire

Connectivity to the TACNET

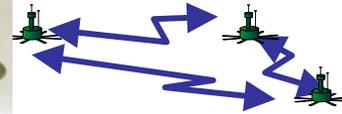


Sensor/SA data provided to Site CP
Threat/IPD data pushed to TPSE

Tactical Trailer Mast Mounted Surveillance System and TPSE C2



UGS/GSR Cues Imager



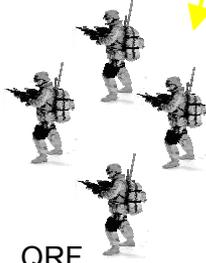
Networked Unattended Ground Sensor

LR Imaging Sensor With Targeting Capability



LR GSR

TPSE Cdr Deploys Response to ID Threat



QRF



Remote/Unmanned Weapon

TPSE Vehicle deploys BLOS systems



Organic S-UAV and UGV response to BLOS alarms



Tactical Sensors Fill the Battlefield Situational Awareness Gaps – Complements Global Surveillance

WRAP-UP Questions ?



Facility security enhancements

Force Protection Technology w/ open architecture can be Leveraged for the both DoD and DHS Missions

**Money does not equal success
Focused Investment Does!!**

Tactical Security enhancements

Common Goal is to achieve a Force Multiplier

