

PEO IEW&S Overview

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Outline

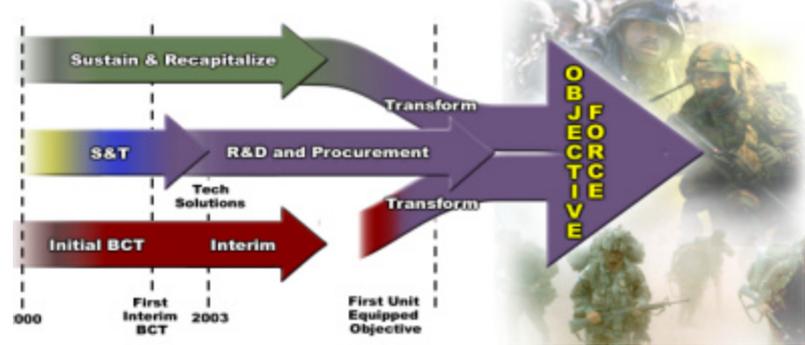
- **Vision**
- **Organization**
- **Transformation**
- **Sensor Grid**
- **Technology Needs**
- **Programs**
 - **DCGS-A**
 - **Signals Warfare**
 - **NV/RSTA**
- **Virtual Acquisition Planning for Industry**

Army Vision

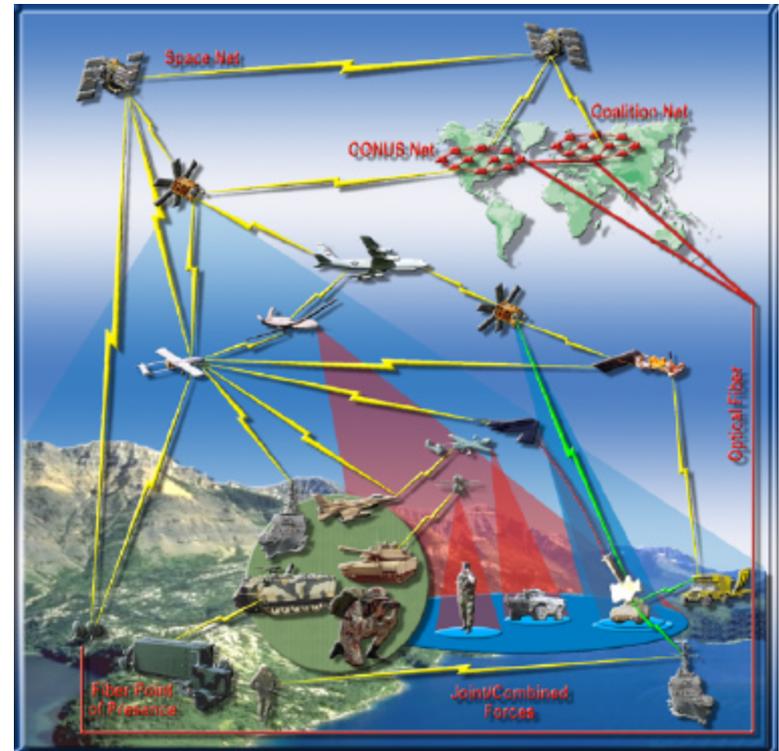


A strategically responsive force that is dominant across the full spectrum of operations....

...See First...
Understand First...
Act First...
Finish Decisively!



National - Joint - Combined





PM Signals Warfare

PM Aerial Common Sensor
PM Prophet
PM Information Warfare



PM NV/RSTA

PM FLIR
PM Robotic and Unmanned
Sensors
PM Firefinder



PM DCGS-A

PM CGS & Datalinks
PM CHIMS

PM Tactical Applications



PO JPSD



PM Aviation Systems

PM IRCM
PM RFCM



PM Navigation Systems

PM TIMS
PM GPS/DAGR



PM C&ISS

Actionable Intelligence Capabilities

Dominant Maneuver

- Airborne
- Ground-Based



GR/CS



ARL



TUAV Payloads



ACS



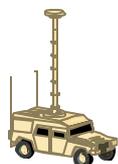
MARS



TESAR



TSP



Prophet



CGS



LRAS3



**2nd Gen FLIR
f/ Bradley**



DCGS-A



PLGR



DVE

Precision Engagement

- Targeting
- Sensor-to-Shooter



**TUAV
Payloads**



Profiler



GR/CS



CGS



Firefinder



DCGS-A



LLDR



JTT



**2nd Gen FLIR
f/ Abrams**

Actionable Intelligence Capabilities

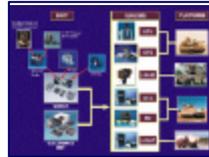
Force Protection • Full Dimension



CID Panels



BCIS



2nd Gen FLIR



LVRS



LRAS3

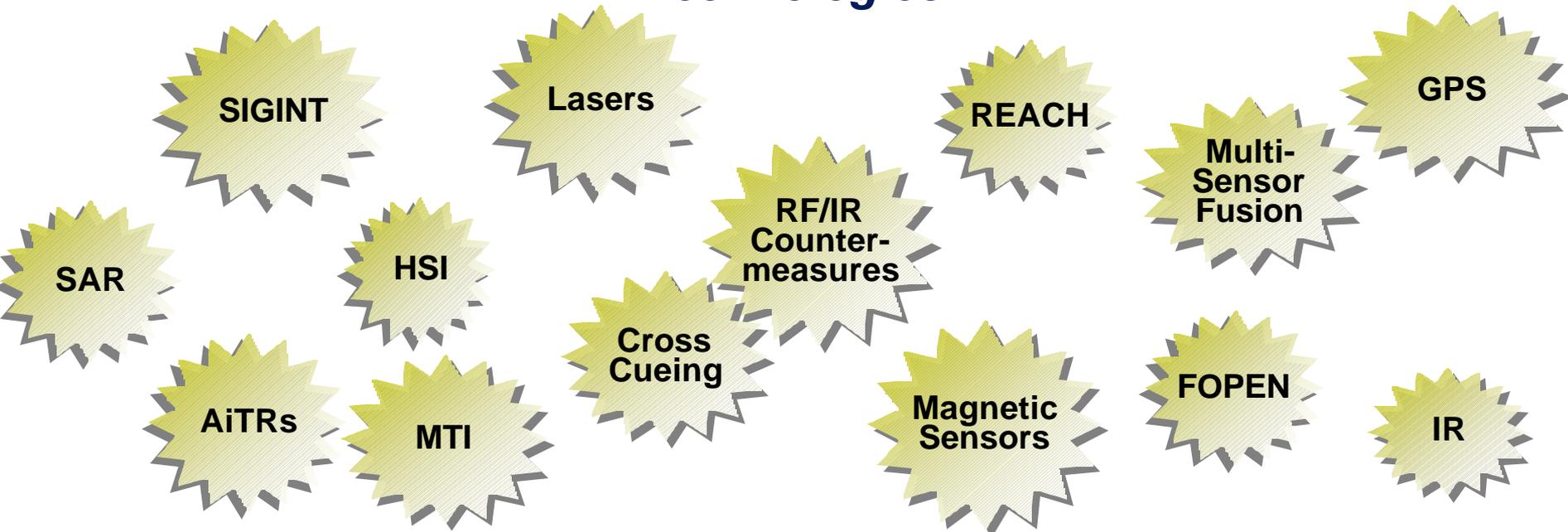


**TUAV
Payloads**



ACS

Technologies



Early Situational Understanding in Advance of the Fight

- Enhanced **Indications and Warnings** (I&W) which Enables **Operational Maneuver from Strategic Distance**
- **Superior Intelligence** to Better Manage **Transition to Combat** on our Own Terms
- **Enabling ISR Sensors** for Early Detection-Targeting is a 2nd Priority

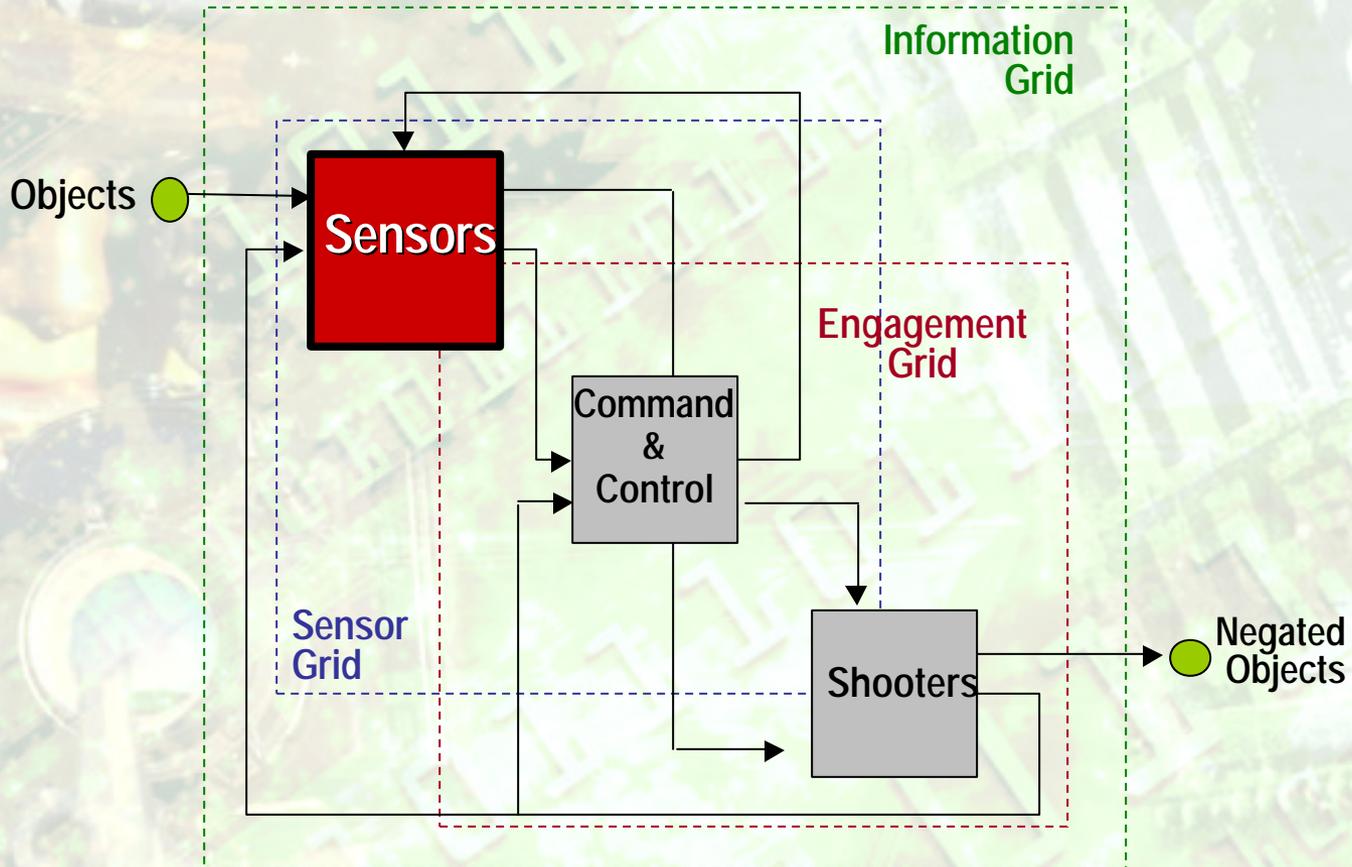
Tactical Overmatch in Any Situation

- Will Operate with a '**Red Zone**' that is Considerably **Larger** than the 3-5km Envisioned in Current Doctrine
- **Embedded RSTA Sensors** that Allow us to **See Further**, and Provide Ability to Engage with **Long-Range Fires**
- **Full Spectrum Dominance** in Both **Urban** and **Open** Environments

High Tempo – Continuous, Simultaneous Engagements

- **Simultaneous Engagement** and **Distributed Operations**
- Will **Control More Space** with Less Manpower and **Reduced Foot Print**
- **Integrated, Layered Sensors** enables **Adaptive Dominance**

Netted Sensors Provide Actionable Intelligence



*“In the fundamental shift to network-centric operations, **sensor networks** emerge as key enabler of increased **combat power.**”*

- Network Centric Warfare, 2nd Edition, Alberts, Garthska, Stein

IMINT

- Uncooled focal plane arrays
- 3rd Gen FLIR (higher resolution, longer ranges)
- Aided target recognition
- Data fusion and correlation

MASINT

- Less complex man-machine interface
- Cross cueing to more mature sensors
- Millimeter Wave Imaging (through the wall)
- Magnetic sensing

SIGINT

- Efficient Low Band arrays
- Detecting Low Band Emitters
- Sharing COMINT resources
- Embedded precision geo-location (Multi-Ship operations)
- Beam forming interference cancellation (discriminating military targets in high density non-military environments)

Masked Target Sensors

- Locating CC&D targets
- Locating Buried Mines

National Tactical Integration

- Cooperative operations from manned and unmanned IMINT and MASINT platforms
- Airborne Overhead Cooperative Operations (AOCO)
- Network Centric Cooperative Targeting (NCCT)

Program Objective:

An integration of existing and future ISR ground stations to produce a common modular, scalable, and Multi-INT joint interoperable architecture and capability.

Key Features:

- **Improve Warfighter Situational Awareness/Understanding**
- Improved Intel Dissemination at all Echelons
- Reduced Intel Forward Footprint
- Network Centric System of Systems Approach
- Interoperability and Data Sharing
- Multi-INT TPED
- Interim DCGS-A Based on Legacy Systems
- AoA to Determine Objective DCGS-A Approach

Key Players:

PEO IEW&S	MDA
USAICS	DCGS-A Requirements
ASPO	TES Legacy System
PM SW	GRIFN Legacy System
PM DCGS-A	CGS Legacy System CHIMS Legacy System
PM I&E	ASAS Legacy System

Program Major Milestones:

<u>DATE</u>	<u>EVENT</u>
2QFY 02	Modify Legacy System Contracts
1QFY 03	Enable INSCOM (513th MI Bde w/DCGS-A)
2QFY 03	Objective DCGS-A ORD Approval
3QFY 03	Objective DCGS-A MS B
4QFY 03	Interim DCGS-A at XVIII ABC
FY 04	Interim DCGS-A to III Corps
FY 06	Objective DCGS-A MS C
FY 09	Objective DCGS-A IOC

Key Considerations: FCS Synchronization
Sensor Synchronization
Unit Set Fielding

Contract Opportunity

Objective: **Provide Integrated Multi-INT Common Ground Station for the Objective Force**

Contract Type: **Competitive**

Estimated Value: **TBD**

Key Milestones: **3QFY03 MS B; 4QFY03 Contract Award**

Technical Contact:

Acquisition Contact: **TBD**

Solicitation # or RFQ #: **TBD**

“The whole of military activity . . . the end for which a soldier is recruited, clothed, armed, and trained . . . is simply that he should fight at the right place and at the right time.”

Clausewitz

See First...

Understand First...

Act First...

Finish decisively...

***Must Have
ISR!***