



2006 Combat Vehicle Conference

“Today’s Legends: How our legacy systems will contribute to the future.”

Program Executive Office
Ground Combat Systems

Acquisition Excellence

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24 Oct 06

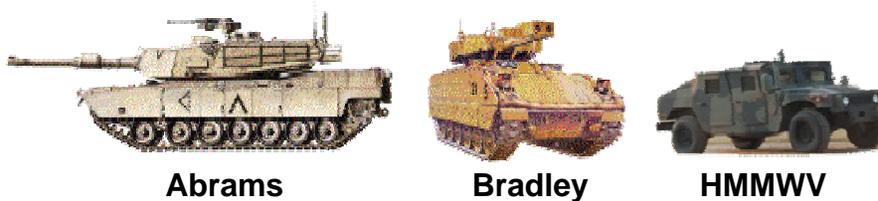


PM MBE Mission

PM Modular Brigade
Enhancements will serve as the
Army's centralized manager

for integrating combat capabilities
into the Army's Modular Brigade Force

“Spin Out 1” to the Current Force

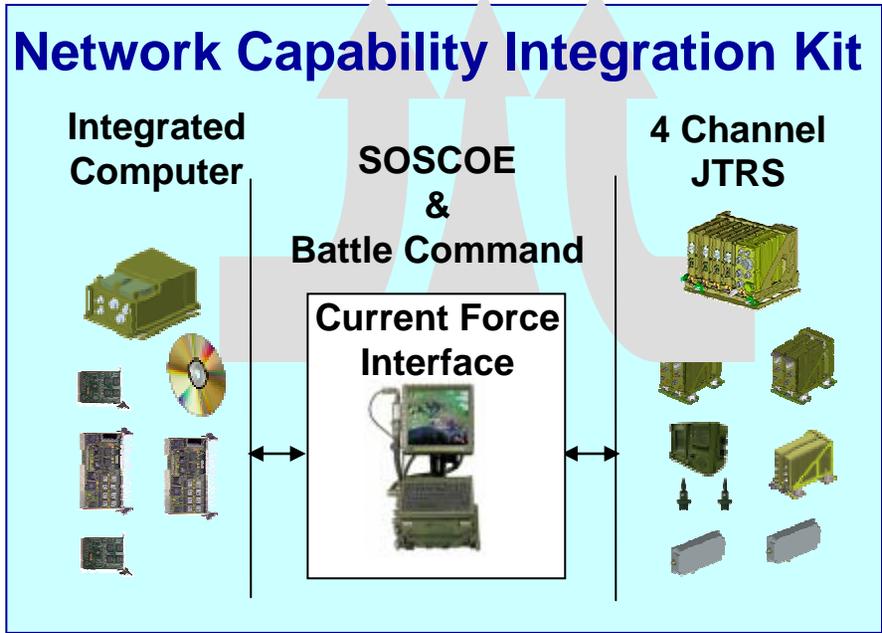


Capability Improvements:

- Force protection
- Precision networked fires
- Interoperability

Milestones:

- First Network Kit Delivery –2007
- Software Qualification –2007
- Milestone C –2008



Relevant to Today’s Force

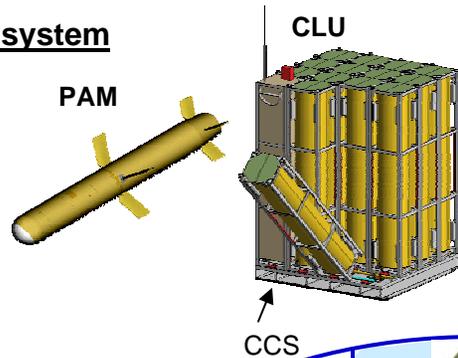


Spin Out 1 Systems

Non Line-of-Sight – Launcher system

One NLOS-LS System consists of:

- 1 Container Launch Unit (CLU) with 1 CCS and 15 PAMs
- Hand held control device in Computer Communication System (CCS) (PDA)
- Unit will have Training Prototype CLUs with CCS
- Platform Independent
 - preferred vehicle is FMTV
 - May be fired from any transport vehicle



Intelligent Munitions System

One IMS System consists of:

- 1 Control Station and 8 Dispenser Modules
- With the set the Army Unit gets 1 Control Station & 1 Dispenser Module
- With 7 Dispenser Modules in War Reserve: Control Station components will be repair parts (battery, antenna)



IMS Controller (Laptop)

Dispensing Module

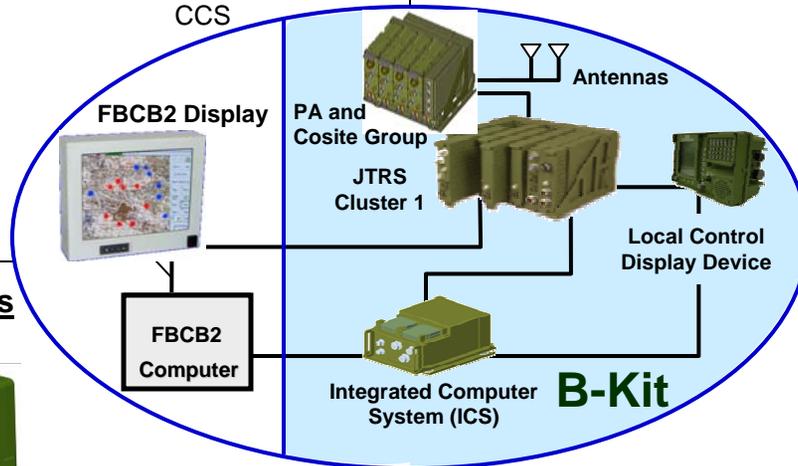
- Gateway
- Munitions
- Sensors



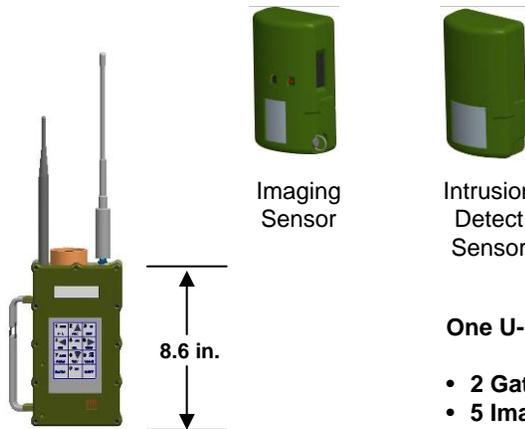
IMS – Intelligent Munitions System



CLU – Container/Launch Unit
 PAM – Precision Attack Missile
 CCS – Computer & Communications System



Urban –Unattended Ground Sensors



One U-UGS System consists of:

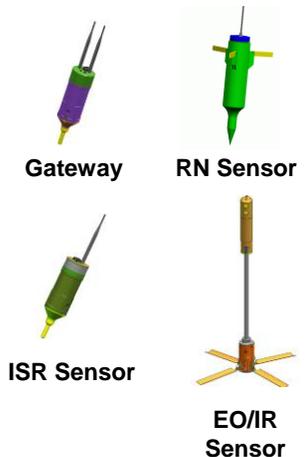
- 2 Gateways
- 5 Imaging Nodes
- 10 Intrusion Detection Nodes

Tactical – Unattended Ground Systems

One T-UGS System consists of:

- 2 Gateways
- 8 ISR nodes
- 2 EO/IR Sensor Nodes
- 1 RN Node
- 1 HCLM Node

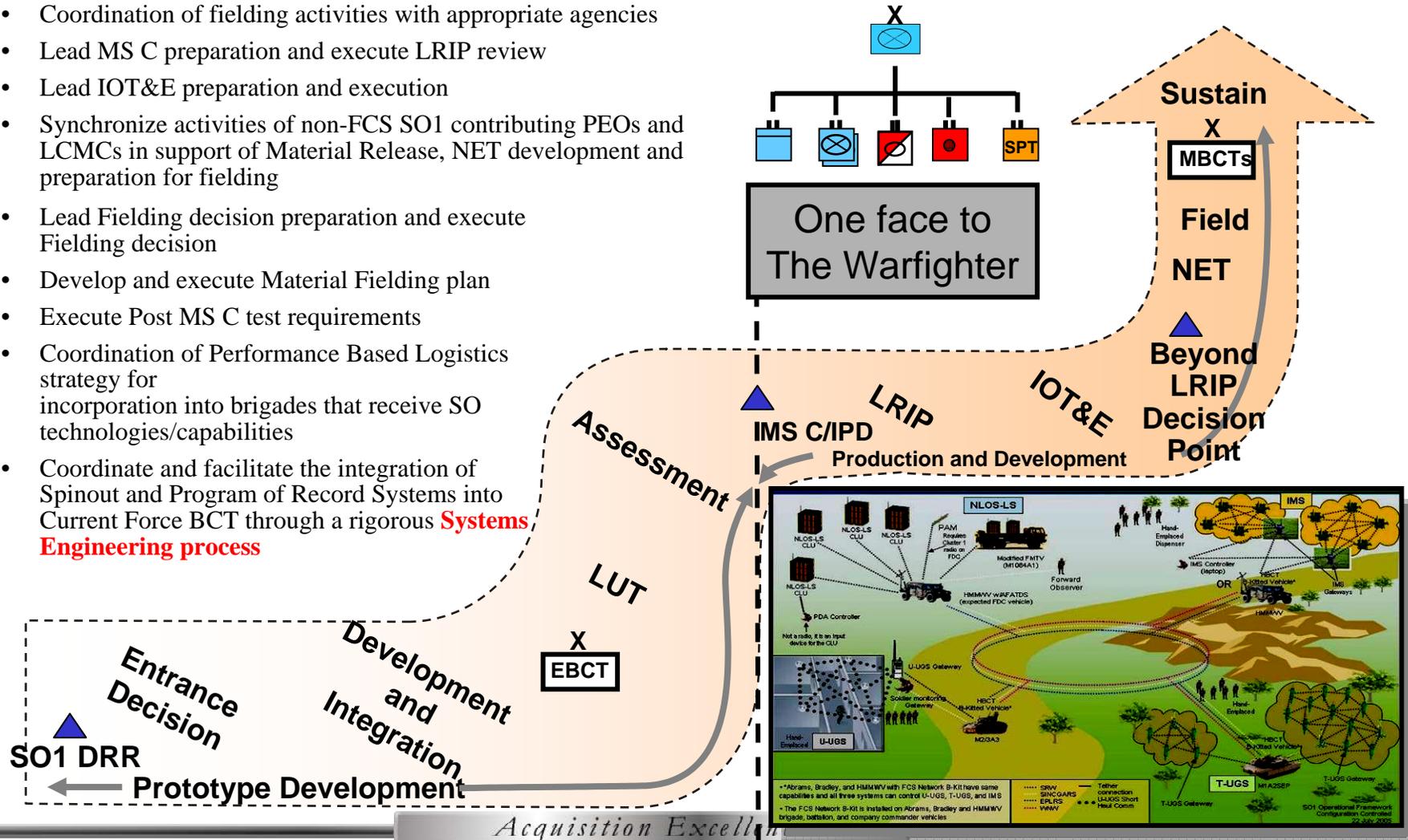
ISR – Intelligence, Surveillance, and Reconnaissance
 EO/IR – Electro-Optic Infrared Sensor
 RN – Radiological Nuclear
 HCLM – Hazard/Clear Lane Markers





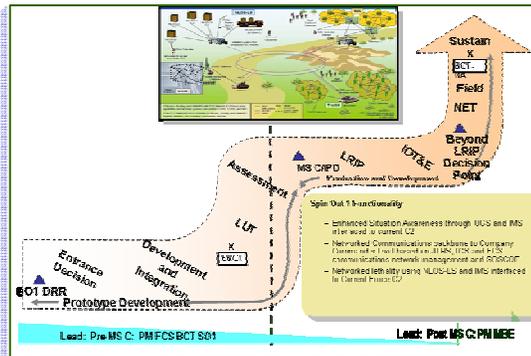
PM MBE Mission

- Coordination of installed performance for current platforms integrated with FCS content
- Coordination of fielding activities with appropriate agencies
- Lead MS C preparation and execute LRIP review
- Lead IOT&E preparation and execution
- Synchronize activities of non-FCS SO1 contributing PEOs and LCMCs in support of Material Release, NET development and preparation for fielding
- Lead Fielding decision preparation and execute Fielding decision
- Develop and execute Material Fielding plan
- Execute Post MS C test requirements
- Coordination of Performance Based Logistics strategy for incorporation into brigades that receive SO technologies/capabilities
- Coordinate and facilitate the integration of Spinout and Program of Record Systems into Current Force BCT through a rigorous **Systems Engineering process**





Innovative Spinout Management Strategy



PM Spin Out/LSI
SO content focus
COL Chris Deluca

PM Modular Brigade Enhancements
Fielding focus
COL Ray Jones

Management Approach

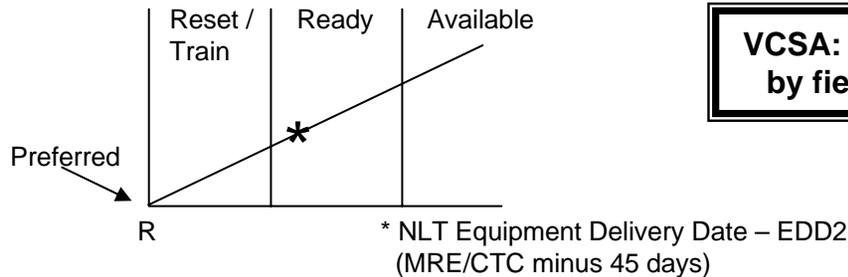
- Tri-Chair Led Program Management Reviews
- SE based Program Management (SEP to be developed)
 - *Integrated Master Schedule*
 - *Risk Management tracking*
- Leveraging each other organizations
- Close interface with all SO organizations
- PM FCS(BCT) and PEO GCS closely aligned
- Spin Out Integration Board (SIB) controlling SO content
- Mutual planning on all SO major milestones through BLRIP
- One Face to the Warfighter



Synchronizing Spin-Outs with ARFORGEN

Army's Operational Priorities

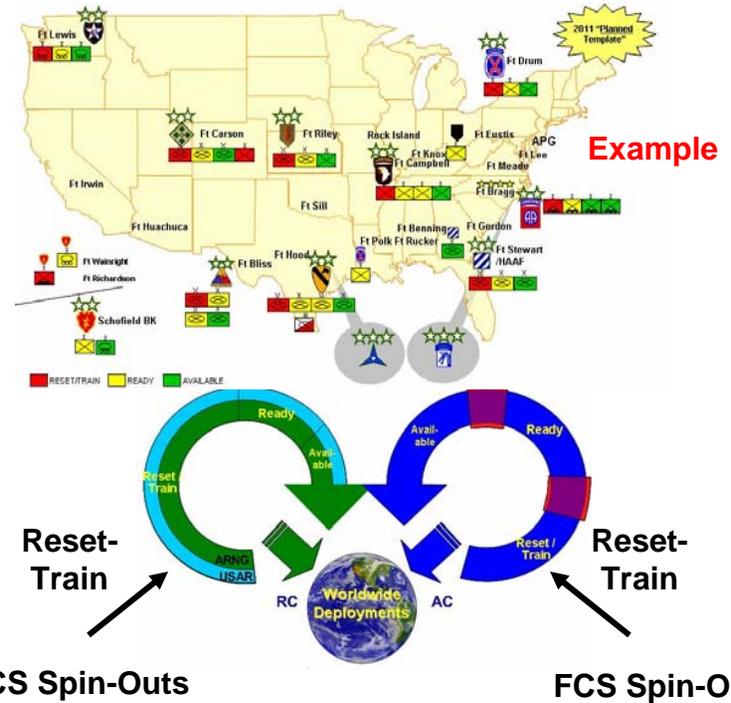
- Network, U-UGS, T-UGS, IMS, NLOS-LS
- Field the highest-payoff FCS spin-out systems to as many BCTs as fast as possible
- Intent is for all BCTs to receive FCS sensors and common network capabilities



VCSA: "No drive by fieldings!"

Concept for Fielding FCS Spin-Outs

- Field FCS spin-outs to BCTs in the Reset/Train force pool
Rationale: quality unit training with new ISR and network battle command capabilities significantly improves the payoff during operational employment
- Include ARNG, APS and Theater Equipment
- Revisit fielding FCS spin-outs to units until all BCTs have received Spin-Out 4 capabilities or converted
- Continue fielding FCS spin-outs simultaneously with FCS unit conversions



FCS Spin-Outs

FCS Spin-Outs

FY 10 Reset/Train Group 1 receives Spin 1
 FY 11 Reset/Train Group 2 receives Spin 1
 FY 12 Reset/Train Group 3 receives Spin 1/2

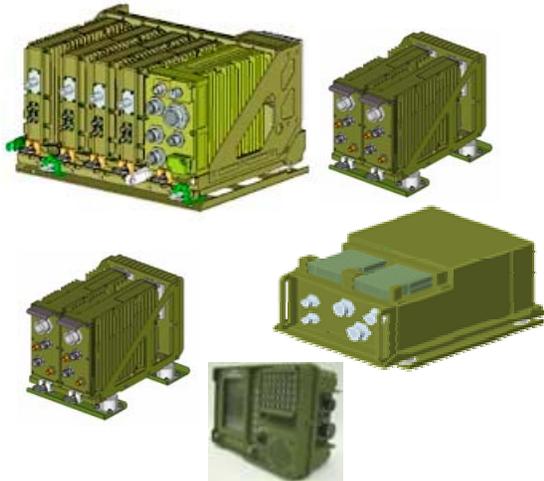
FY 13 Reset/Train Group 1 receives Spin 1/2
 FY 14 Reset/Train Group 2 receives Spin 1/2/3
 FY 15 Reset/Train Group 3 receives Spin 1/2/3

FY 16 Reset/Train Group 1 receives Spin 1/2/3/4
 FY 17 Reset/Train Group 2 receives Spin 1/2/3/4
 FY 18 Reset/Train Group 3 receives Spin 1/2/3/4

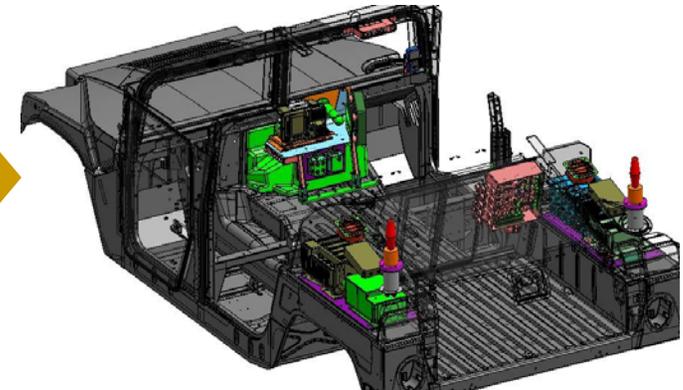


A/BKit Integration Example

Standard SO1 BKit



Currently only focusing on one tactical vehicle variant AKit design to support the SO1 LUT



- Challenge: Specific configurations of tactical vehicle variants vary from brigade to brigade
- Path Forward: Designing a standardized A/BKit to fit multiple tactical vehicle variants and configurations





The Challenge

- Synchronize multiple programs across multiple organizations
- Synchronize acquisition strategy with standup of Evaluation Brigade Combat Team
- Align Life Cycle Management Command (LCMC) processes with capability based acquisition
- Develop a single Army Integrated Master Schedule and Plan to manage spin out
- Develop a process to manage, report, and predict integrated capabilities vs. program metrics
- Establish a budget and contract structure that supports capability management vs. individual project management
- Organize a program office that acts and thinks in terms of capability management (Break the “Stovepipes”!)