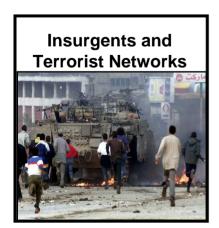


# Why Future Combat Systems



- Gaining control of the ground dimension is the greatest military challenge of the 21<sup>st</sup> century
- FCS is the most affordable, rapidly deployable, effective AND survivable solution for 4-6% of Army annual budget
- Overwhelming land dominance from pre-insurgency through full scale combat
- FCS has twice as many soldiers under armor, closer to the enemy, longer
- Networks Battle Command to all BCT Soldiers and Systems
- Double the infantryman with half the logistical footprint









# **Army Leadership's View of FCS**



"We never want a fair fight, and with FCS, our Soldiers will have the ability to see first, understand first, and act first. FCS serves the present through spin-outs, but it is the future. We must keep it on track."

> The Honorable Pete Geren - Secretary of the Army AUSA Institute of Land Warfare Breakfast - May 10, 2007



The Honorable Pete Geren Secretary of the Army

"FCS technologies will be vital to the Army's ability to fight a nontraditional war such as the combat in Iraq. We're up against an adaptive, asymmetric enemy who is changing his tactics every day. We need to give our soldiers every advantage."

General George Casey, Jr. – Chief of Staff, U.S. Army DefenseNews.com 25 April 2007



Gen. George W. Casey, Jr. Chief of Staff, U.S. Army

"We are taking the "F" in the Future Combat System and making it reality."

The Honorable Claude Bolton - Assistant Secretary of the Army AUSA Institute of Land Warfare Breakfast - May 10, 2007

"The cost in modernizing is first of all a cost in dollars, but failing to modernize is a cost that is sometimes registered in lives."

Lt. General Stephen Speakes – Deputy Chief of Staff, G-8 Pentagon Roundtable May 15, 2007



The Honorable Claude Bolton Assistant Secretary of the Army

# 2007 Highlights



- Successful experiment 1.1 soldier exercise
- Delivered FCS Build 1 software (~5M SLOCs)
- Completed Spin Out 1 CDR; Delivered B-Kits
- Testing of cannon and mortar firing platforms
- Defense Acquisition Board IPR
- FCS mobile demo trailer
- Discovery Channel "Future Weapons"
- Army Evaluation Task Force (AETF)
- Prototype Deliveries & Testing
- Engineering Maturity 1 Milestone
- Moving into FCS Initial Production Phase









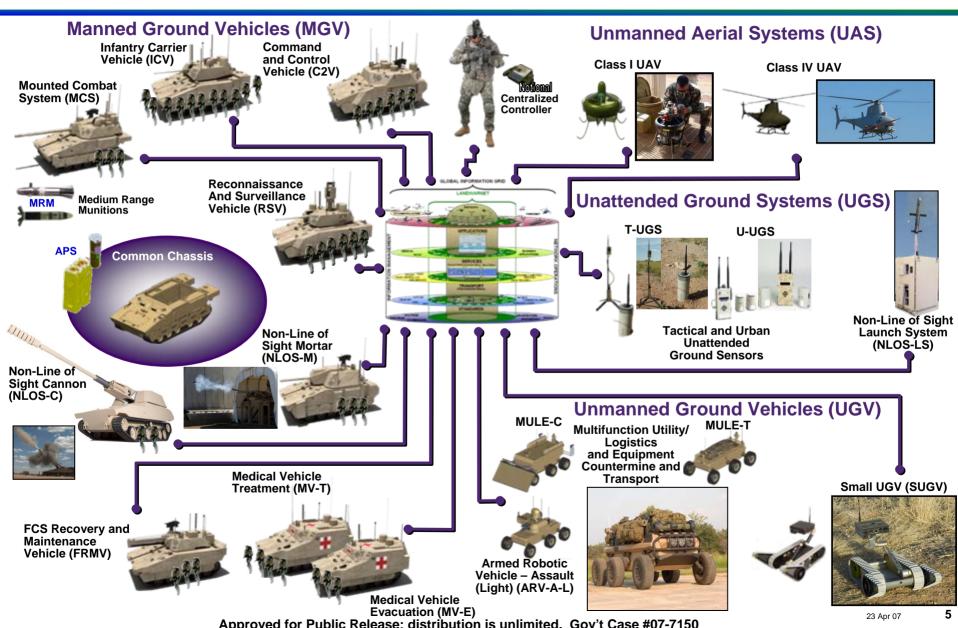




## Strong Momentum...

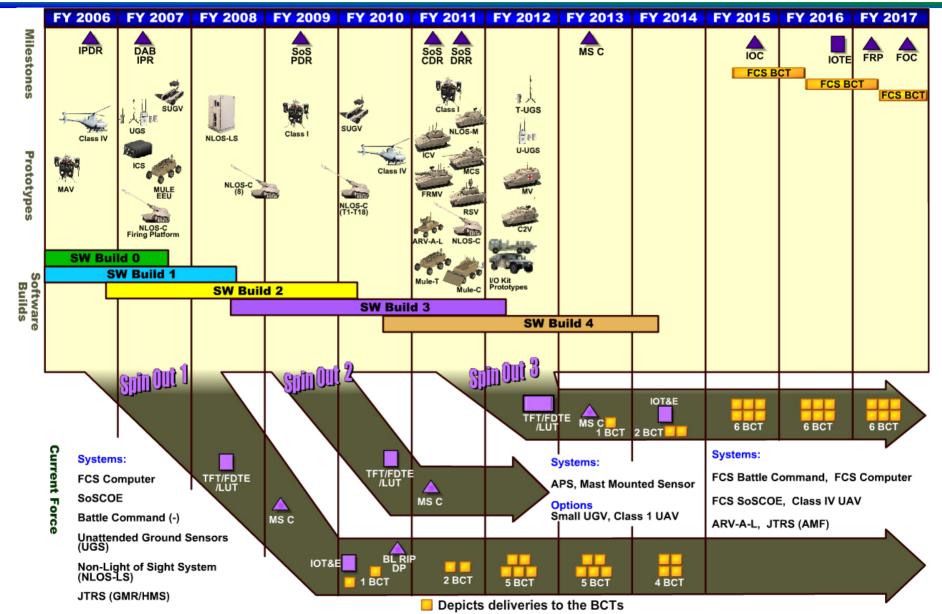
# FCS Brigade Combat Team...





# FCS (BCT) System-of-Systems Schedule



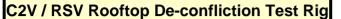


## **Manned Ground Vehicles**



**NLOS-C 9-Round** 

**Max Rate of Fire** 









NLOS-M Round Burst

P1 Chassis

**Engine / Generator in EGTL** 

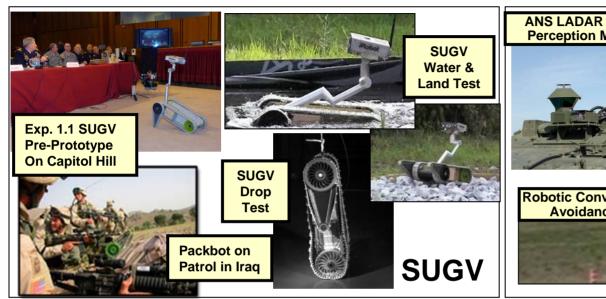




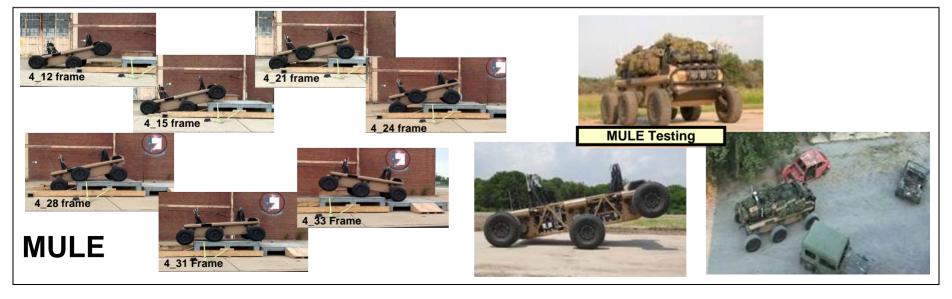


## **Unmanned Ground Vehicles**



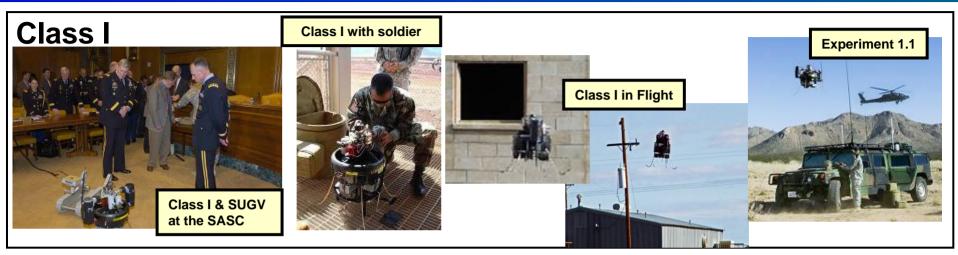






# **Unmanned Aerial Vehicles (UAV)**







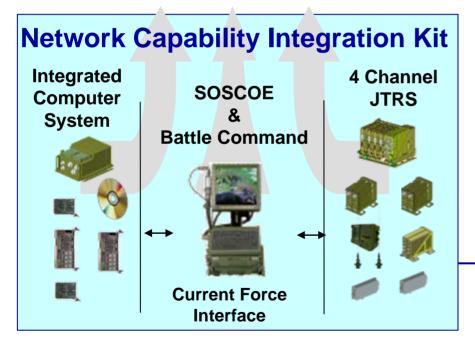
**Moss Point Facility (May 07)** 



# "Spin Out 1" to the Current Force







### **Capability Improvements:**

- Force protection
- Precision networked fires
- Interoperability

#### **Milestones:**

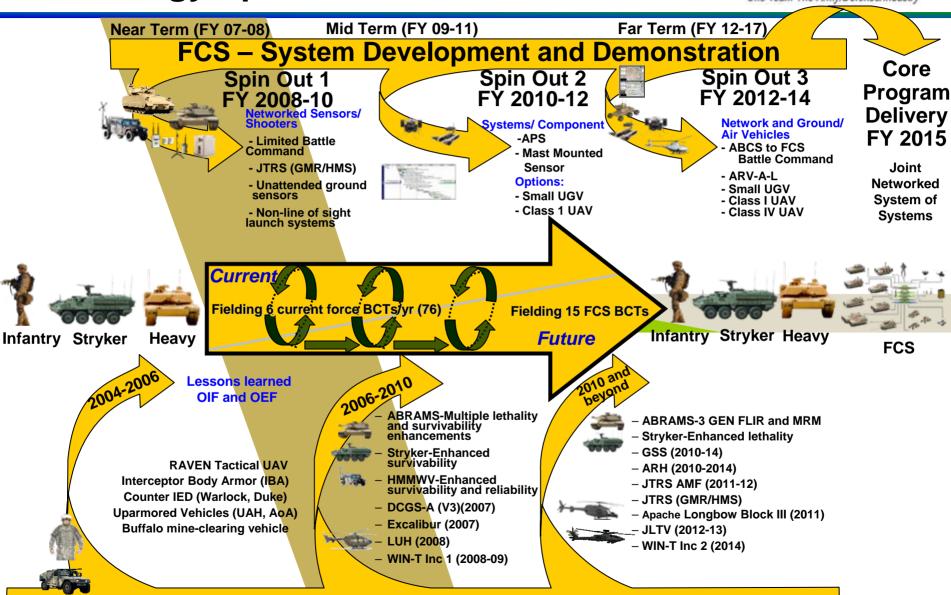
- ✓ Critical Design Review Q2 FY07
- ✓ First Network Kit Delivery Q2 FY07
- ✓ Software Qualification Q4 FY07
  - Limited User Test Q4 FY08
  - Milestone C Q2 FY09



## Relevant to Today's Force

# **Current To Future Force Through Technology Spin Outs**





**Additional Developments** 

# **Spin Out 1**



















## **One Team**





# **Best of Industry Approach**

# Future Combat Systems Small Business Supply Base Period 7 data as of 3/31/07





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### How to Get Involved with FCS



- Regularly check the FCS Website Home Page at: www.boeing.com/fcs
- Located on this website:
  - FCS Business Opportunities of the LSI and its Partners (contacts with websites)
  - Partners' Requests for Quotations / Information
  - Supplier Diversity information (specific LSI / Partner Small Business contacts)
  - FCS calendar with upcoming conferences and events
  - On-line registration form
  - Information on submitting questions
- Reach out to the LSI and Partners to express your interest and capability
- Focus on areas of technology and express interest across the One Team

## **FCS External Web Site**



## Website for program information to engage all segments of Industry

- Business opportunities across the team including RFI's/RFP's and Industry Day Announcements
  - Notification of opportunities sent to suppliers
  - 1002 registered suppliers
- LSI/Partner contact information
- Small business event calendar



#### Quick Links:

- Partners
- Request for Information/Proposal
- FCS Business Opportunities

# **Business Opportunities**



- Opportunities for both the LSI and partners are listed on or linked to the FCS website
- Opportunities exist for 2nd and 3rd tier support to recent, pending, and future selections
- Examples are as follows:

Manned Ground Vehicles	
ICV, MV & FRMV	C2V, MCS & RSV
<ul> <li>Hand and Foot Controls, Intercom Controller and Adaptor</li> <li>Energy Storage System</li> <li>Electrical and Hydraulic Components</li> <li>Machined Parts</li> <li>Wiring Harnesses</li> <li>Long-term Opportunities</li> <li>Medium Caliber Gun System</li> <li>External Power Supply</li> </ul>	<ul> <li>Electrical Components</li> <li>Carbon Monoxide Detection System</li> <li>Circuit Card Assemblies</li> <li>Mechanical Cable Assemblies</li> <li>Fuel Systems</li> <li>Machined Parts</li> <li>Flex Harnesses</li> <li>Power Supplies</li> </ul>
Unmanned Air Vehicle	
Class IV UAV	
Nose Cones     Bottom Farings (Composite Parts)	
FCS related procurements for Micro Air Vehicle kits	
<ul> <li>Cable Assemblies (several configurations)</li> <li>Antenna Assembly, L-band, GDT</li> <li>Antenna, GPS</li> <li>Transmitter, L-band</li> <li>Battery Assembly, Air Vehicle</li> <li>Battery Charger Assembly</li> <li>Connector, 7-pin and dust cover</li> </ul>	

#### Intelligence, Surveillance, and Reconnaissance

#### **Ground Sensor Integration**

- Software Products
- · Technical Writing
- · Electronic Box Build and Assembly
- Engineering Services
- Connectors
- Cables (RF and Digital)
- Optical Components and Assemblies
- · Circuit Card Assemblies

#### C4ISR - Network Systems

#### Integrated Computer System

- Fixed and Removable Storage Media
- Storage Controllers
- · Network Switches and Routers
- Firewalls

#### Supportability

#### Platform Soldier - Mission Readiness

#### Long-term Opportunities

- Secure Wireless Communications Technology
- Advanced Ruggedized Display Technology
- Advanced Robotic Controls

# **Looking Ahead**







- ✓ Delivered ~5 Million Lines of Software
- **✓ First Network on Abrams, Bradley, HMMWV**











Prototype Deliveries & Testing







- Engineering Maturity 1- Milestone
- Moving into FCS Initial Production Phase

**Equipping our Joint Warfighters with the World's Best Capabilities** 

# **Summary**



- Program keeping pace with Army needs...Maintain Velocity
- More than 60 test activities underway...All Platforms in Testing
- 2008 is a critical execution year...Systems in Build Phase
- FY08 PB at \$3.6B...RDTE & Production...
- Focused on Our Soldiers....

...The Future is Here Now.

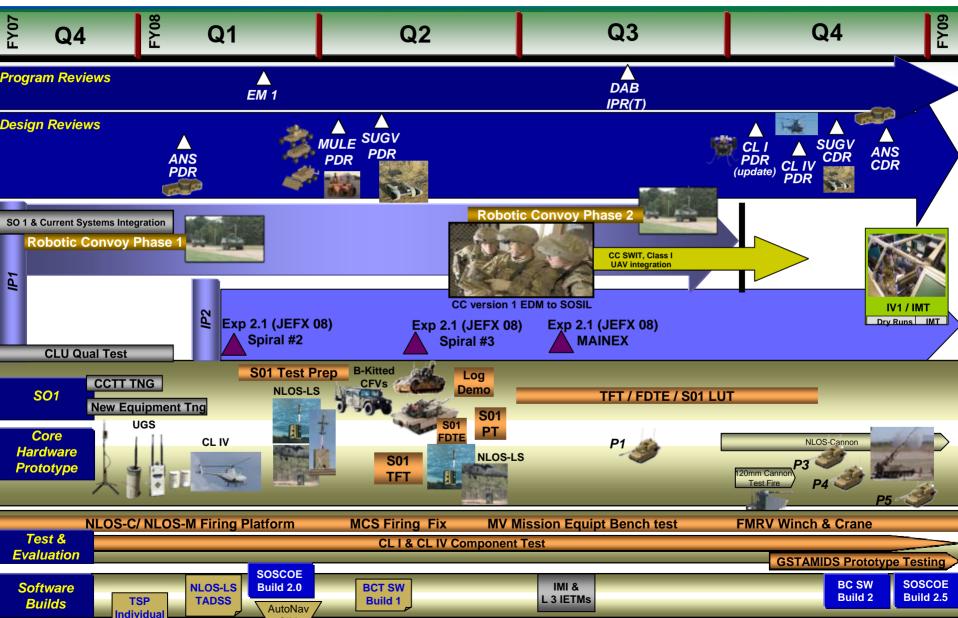


Equipping our joint warfighters with the world's best capability

# **FY08 Objectives**



28 Sep 07 20



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