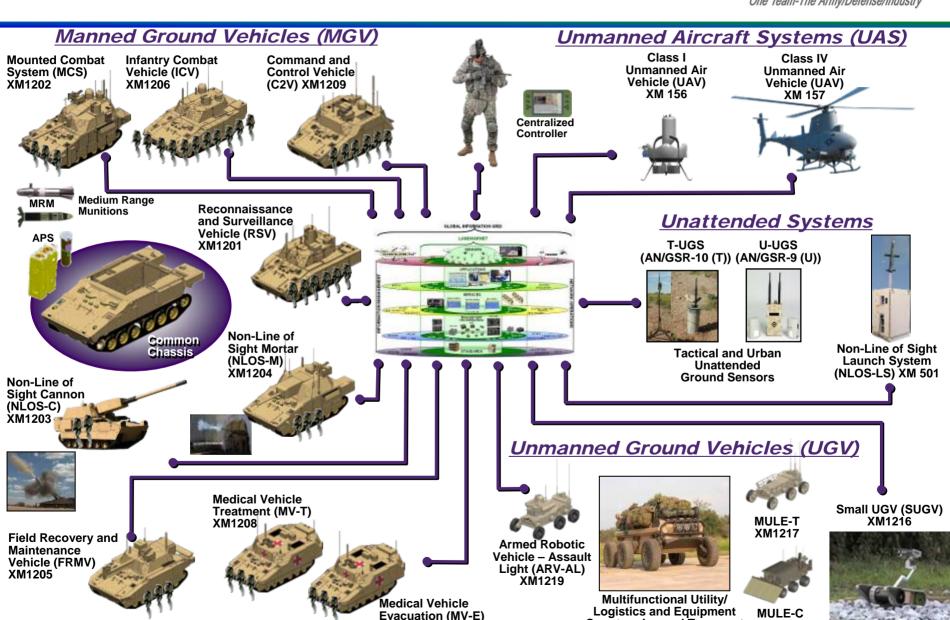


FCS Brigade Combat Team...





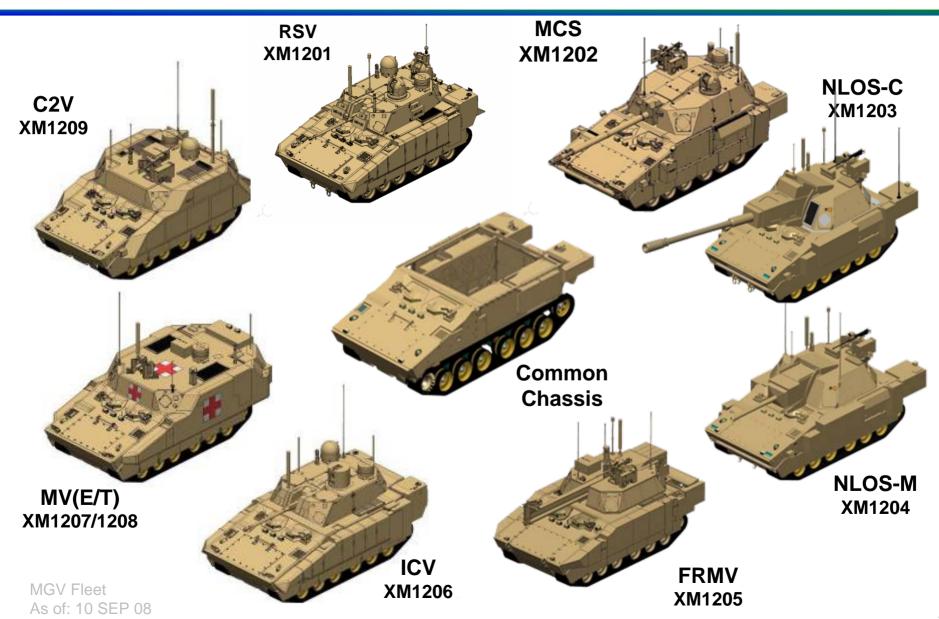
XM1207

Countermine and Transport

XM1218

Manned Ground Vehicle (MGV) Family



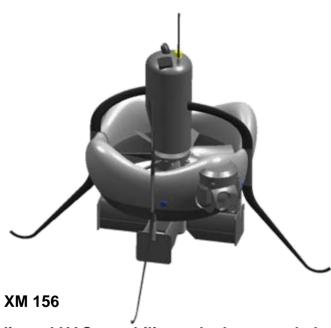


3

UAS Overview



XM 156 Class I UAS



- Dedicated UAS capability at the lowest echelon
- Hover & Stare Capability enabling observation of urban infrastructure
- EO/IR/LD/LRF Sensor
- 10 hp Heavy Fuel Engine (HFE)

Unmanned Aerial Vehicle (UAV)
Unmanned Aircraft System (UAS)

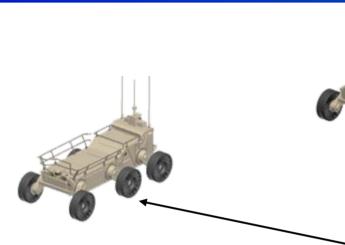


- Reconnaissance, Surveillance, and Target Acquisition (RSTA) with Aided Target Recognition (AiTR)
- Video/sensor data distribution on FCS network (HNW)
- Wide Band Communications Relay (WNW and SRW)
- Manned/Unmanned (MUM) Teaming
- Autonomous flight and navigation, and takeoff and landing at unprepared landing zones

XM 157 Class IV UAS

UGV Systems Overview





XM 1219 ARV-A(L)

- Provide RSTA/lethality for Dismounted, **Mobile & Air Assault operations**
- Javelin/M240
- MR EO/IR sensor

XM 1217 MULE Transport

- Supports two dismounted infantry squads
- Transports 1900 lb
- Mobility for Complex terrain

MULE Common Mobility Platform

- Common chassis to support three variants
- Articulating Suspension Arms
- 65 kph
- Transport 2 per CH47

- Power and Propulsion to support

XM 1218 MULE-C

- Supports BCT assured mobility
- AT mine detection, marking and neutralization



XM 1216 SUGV

- Reconnaissance in urban and subterranean spaces
- 32 lbs, Lightweight & Man-Packable
- Day/night operation
- Modular sensor payloads

Autonomous Navigation System (ANS)

- Provides autonomous mobility control of UGV's
- Situational awareness for MGV Indirect driving

XM501 NLOS-LS System Overview



New Military Capability

- •15 missiles ready for launch
- •Vertical launch with 360 degree coverage
- Laser guided, IR and grid attack modes
- Attack of moving targets
- Joint Program with Navy

Designed for Deployability

- Platform Independent --2 CLUs on FMTV
- Sling load forward
- •C-130 transportable







Current and Future Force Compatible

- Command and Control with AFATDS;
 full ORD threshold capability for sensorshooter link with FCS Battle Command
- Two-Way Network Radio Link
- •On-board Mission and Launch Processing



Container/Launch Unit

Family of Missiles

Precision Attack Missile (PAM)

- •40 km Range
- Automatic Target Acquisition
- •In-flight target location updates







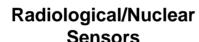
UGS Overview



Gateway









EO/IR Sensors

- Provides unattended Intelligence Surveillance Reconnaissance
- Detects & classifies heavy tracked vehicles at 350m
- Detects dismounted personnel at 50m
- Hand emplacement
- 13 sensors in a T-UGS kit
 - 2 Gateways
 - 8 ISR sensors
 - 1 RN sensors
 - 2 EO/IR sensors

T-UGS (AN/GSR-9 (V) 1)

- , , , ,
- Supports clearing operations in complex urban terrain and provide extended surveillance of cleared structures
- Detects a person in motion within 15 meters of the sensor
- Provides an alert to the operator in less than 2 seconds
- 17 sensors in a U-UGS kit
 - 2 Gateways

ISR

Sensors

- 5 Imaging sensors
- 10 Intrusion Detection Sensors

U-UGS (AN/GSR-10 (V) 1) Gateway





Imaging Sensor



Intrusion Sensor

Program Accomplishments





Adjusted Program



Current

- Most vulnerable force (Infantry Brigade Combat Team) not getting Spin-Outs until FY14
- Spin-Outs were focused on the most capable force – Heavy Brigade Combat Teams
- Not achieving integration of the Soldier in the network fast enough
- Not getting Spin-Outs to current force fast enough
- Size, weight, & power challenges with current heavy platforms (Tank, Bradley, Stryker, M113, & Paladin)
- Multiple Battle Command Systems



Proposed

- Spin-Outs focused on most vulnerable force (Infantry Brigade Combat Team) first – FY11
- Willing to accept risk, Heavy Brigade Combat Teams are good enough for now
- Soldier in the network with Ground Soldier Ensemble – FY11
- Accelerating and adding needed capabilities to the current force
- Integrated Battle Command System

All 43 Army and National Guard IBCTs Fully Equipped with Spin-Outs by FY25

Capability You Get

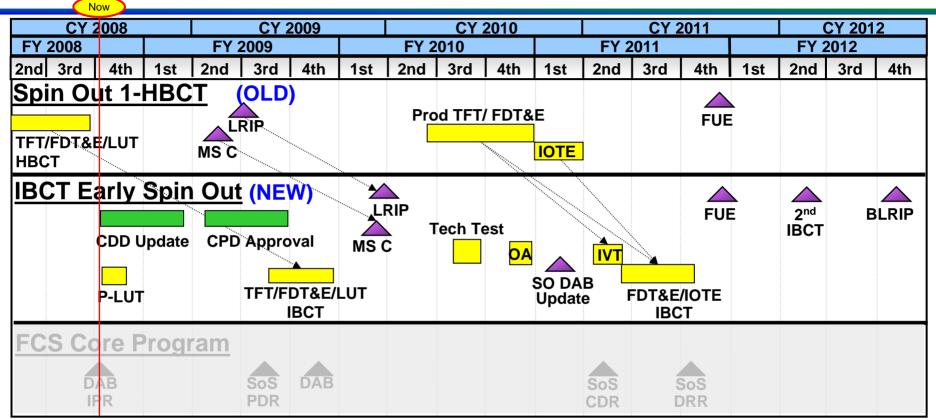




Merging the Modular Force with FCS Capability Yielding a Networked and Precision Capable Force

Spin Out Program - What's Changed





- Suspends
 - All Bradley and Abrams work after June 08 PM MBE requirements after June 08, all SO1 HBCT testing
- Adds
 - 3 tests for IBCT Early SO Preliminary LUT in Jul 08, SO1 Early TFT, FDTE and LUT in FY09, SO1 Early OT in FY10 (GMR radios)
 - Development of BFT HMMWV Kit (antenna and new cable) for both sets of GMR 4 channel radios (one with an EPLRS and SRW and the other with 2 SRWs)
 - Development of integration into FBCB2 JCRs software
 - Integration of SUGV and Class 1 into bigger network (share pictures)
 - Update B2E software to included SUGV and Class 1 integration in FQT

IBCT Spin Out

Early IBCT

	B-Kit / B-Kit Light	81/0
#	NLOS-LS	6
	T-UGS	12
	U-UGS	29
1	Ground Soldier Ensamble / Rifleman Radio	268/648
1	SUGV Blk1	38
	CL I UAV BIk0	22

Average Procurement BCT Cost (FY03C\$)

Spin Out Early = \$181.4M Spin Out Threshold = \$370.1M Excludes radios & GSE Includes ORFs

Spin Out Capabilities to Current IBCTs

										• (٠,				
	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY 24
Production Schedule	1	2	4	1	2	2	3	3	3	4	4	4	4	4	2
Procurement Dollar Rqmts (TY\$M)	\$333	\$555	\$852	\$983	\$1,126	\$1,405	\$1,563	\$1,609	\$1,643	\$1,976	\$2,003	\$2,006	\$2,018	\$1,881	\$1,006
Cumulative Fielding to Current IBC	Ts	1	3	6	8	10	12	15	18	21	25	29	33	37	41

•B-Kit For Early IBCT (HMMWV)

- 4 Channel GMR
- ICS Type VI with FCS BC B2E
- JCR running on v5 appliqué with display

•B-Kit For Threshold IBCT (HMMWV, Stryker CV)

- 2 Channel GMR
- 2 Channel HMS Manpack
- ICS Type VI running UBC-P with display
- Note: Replaces 2 SINCGARS radios in HMMWVs and EPLRS, Near Term Digital Radio (NTDR), and two SINCGARS from Stryker CV

•B-Kit Light for Threshold IBCT (HMMWV, FMTV)

- 2 Channel HMS Manpack
- V5 appliqué with display running UBC-P
- Note: Retains SINCGARS on HMMWVs, FMTVS

Threshöld 18CT /Industry						
100	B-Kit /	84/412				
- Carl	B 100 11 14	04/412				

FUTURE COMBAT SYSTEMS

	B-Kit / B-Kit Light	84/412	
#	NLOS-LS	6	
E	T-UGS	12	
	U-UGS	29	
1	Ground Soldier Ensamble / Rifleman Radio	268/648	
	SUGV (T)	38	
*	CL I UAV (T)	22	
	MULE-C (T)	2	
	ARV-A-L (T)	29	
~	Centralized Controller (T)	123	
1-4	Class IV UAV (T)*	16	



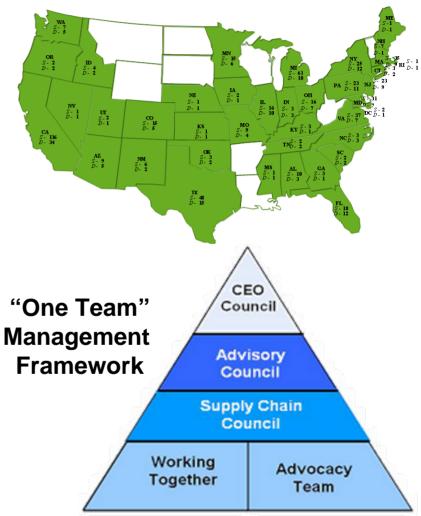
One Team



39 States, 203 Congressional Districts, 586 Suppliers

As of 31 March 2008

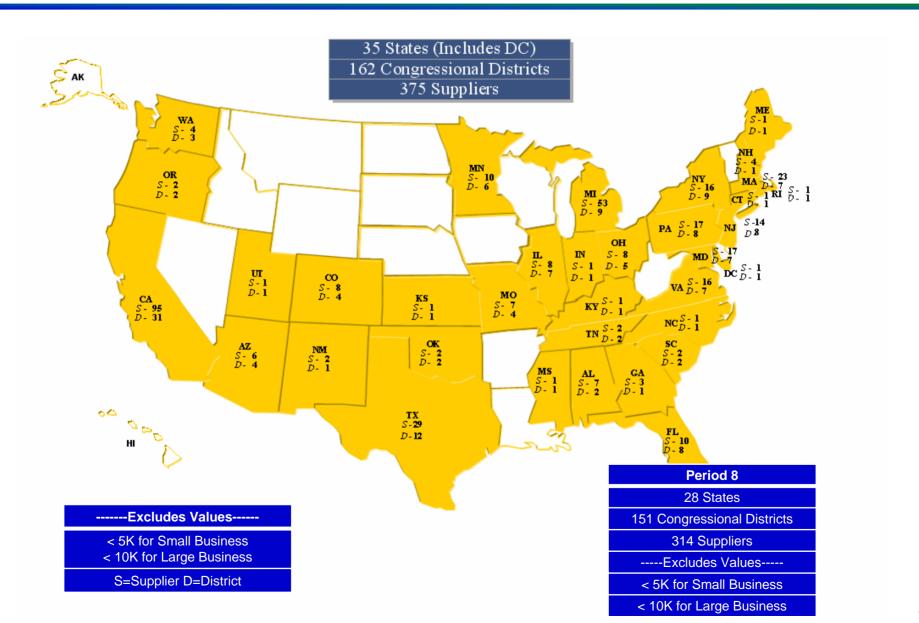




Best of Industry Approach

Future Combat Systems Supply Base Small Business - As of Period 9: 03/31/08





How to Get Involved with FCS



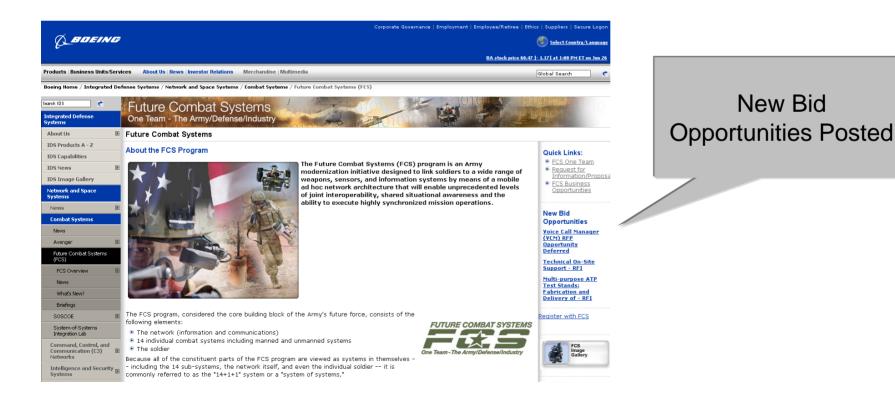
- Regularly check the FCS Website Home Page at: www.boeing.com/fcs
- Located on this website:
 - FCS Business Opportunities of the LSI and its Partners (contacts with websites)
 - Information on Submitting Inquiries
 - Partners' Requests for Quotations / Information
 - Supplier Diversity information (specific LSI / Partner Small Business contacts provided in FCS Business Opportunities Brochure)
 - FCS calendar with upcoming conferences and events
 - On-line registration form
- 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 RFIs/RFPs and Industry Day announcements



Examples of Current Business Opportunities



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Logistics Data Management Service

- Service Oriented Architecture
- Systems Engineering
- Software Development
- Modeling and Simulation
- Systems Architecture

Platform Soldier - Mission Readiness

• Embedded micro sensors with micro transmitters for monitoring human health and physiological/psychological conditions

CAISP - Network Systems / Rattle Command

C413K - Network Systems / Dattie Command					
Centralized Controller Device	Battle Command & Mission Execution				
Procurements for Small, Hand-Held Computing Devices —Helmet/Goggle Mounted Display Devices —OLED Touch Screen Displays	 Software Engineering Software Coding and Development 				

Manned and Hamanned Ground Systems

Manned and Unmanned Ground Systems					
MGV	UGV				
 Fabrication Wiring Harnesses Bearings Electrical and Hydraulic Components Machined Parts Insulation Fuel Tanks Fuel Adapter Cap External to MGV: Large Caliber Ammunition Resupply 	 Titanium Fittings and Tubing Welding Services Lightweight Armor Suspension Motors Ultrasonic/Acceleration/Position Sensors Integrated GPS/INS System GPS Antenna 				

Intelligence, Surveillance, and Reconnaissance

Air Sensor Integration

- Software Engineering to support porting and verification testing
- Engineering Consultants for Electro-Optics/Infrared/ Laser-Designator/Laser Range-finder sensor supplier management
- Knowledgebase solutions

Summary



- Program keeping pace with Army needs...Maintain Velocity
- More than 60 test activities underway...All Platforms in Testing
- 2009 is a critical execution year...SoS PDR
- FY09 PB at \$3.6B...RDTE & Production
- Focused on Our Soldier

...The Future is Here Now



Equipping our joint warfighters with the world's best capability

