

FCS Program Overview

10th Annual Army Small Business Conference

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FCS Program Status

- **Program keeping pace with Army needs**
 - Accelerating needed capabilities to our soldiers
 - Completed Initial Preliminary Design Review (IPDR)
 - Evaluation Brigade Combat Team at Fort Bliss
- **On cost, On schedule, On performance**
- **FY07 is critical execution year**
 - Execute Integration Phase 1 (Experiment 1.1, Software Build 1)
 - Initial Integration of Spin Out 1 – Deliver First B-Kit
 - Platform Preliminary Design Reviews and Critical Design
 - Develop, Validate, & Deliver DOTL Products for EBCT Training and T&E Activities
 - Complete OSD and Joint Staff review of Main Program and Spin Out
 - Conduct Engineering Maturity 1 Program Milestone
 - Define Integration Phases 2 & 3 and Initiate Required Tasks



Program Momentum is Strong... Maintain Velocity

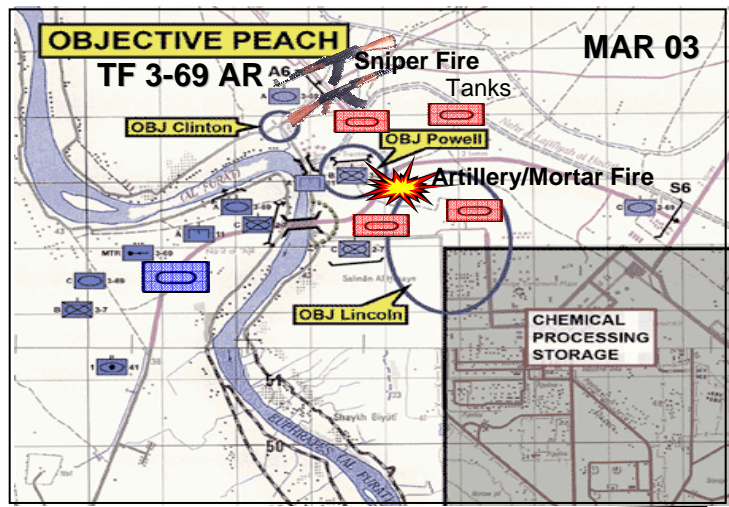
Benefits of FCS

- **FCS will be Dominant across the Entire Range of Military Operations**
 - Optimized to respond in an uncertain future
 - Sized for Urban operations
 - Traditional / Irregular / Disruptive / Catastrophic
 - Networked situational awareness to the soldier

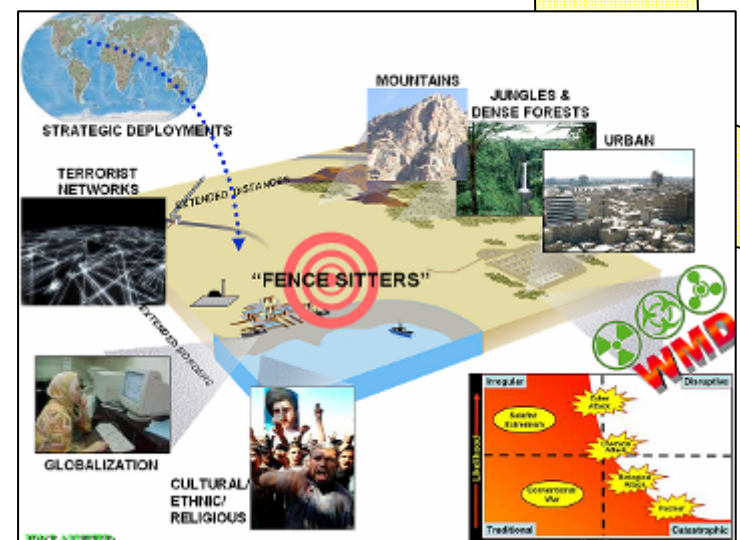
Dominant Force for all Military Operations including Urban Ops

Operational Environment Demands Integration

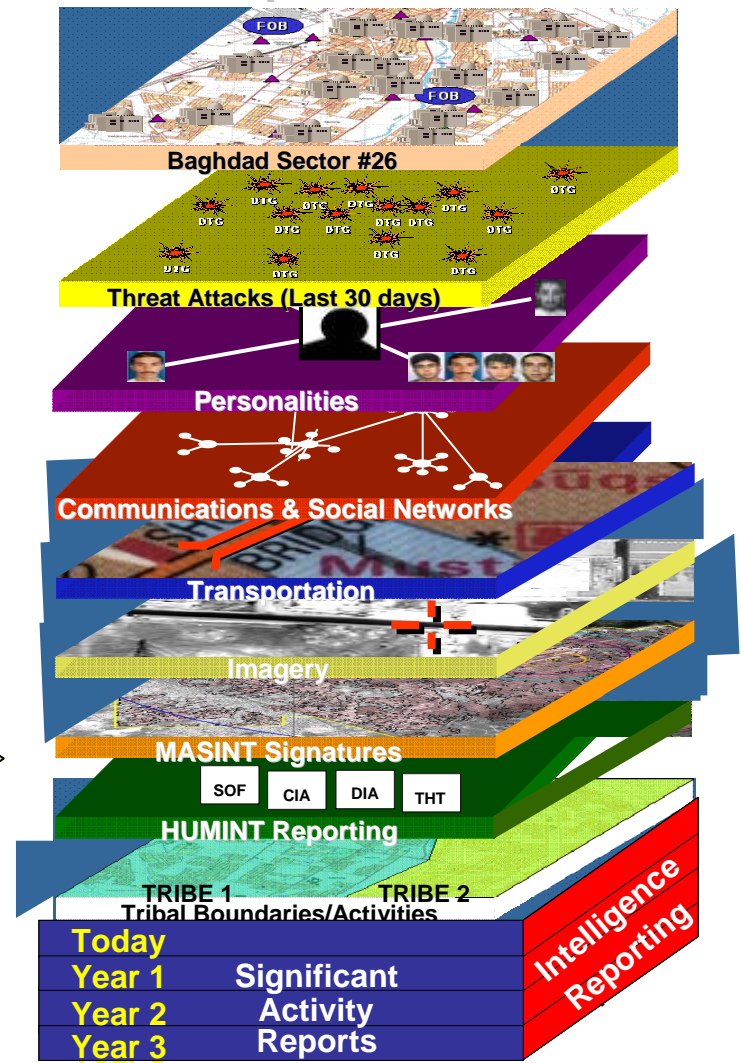
Conventional



Complex



Multiple Data Sets



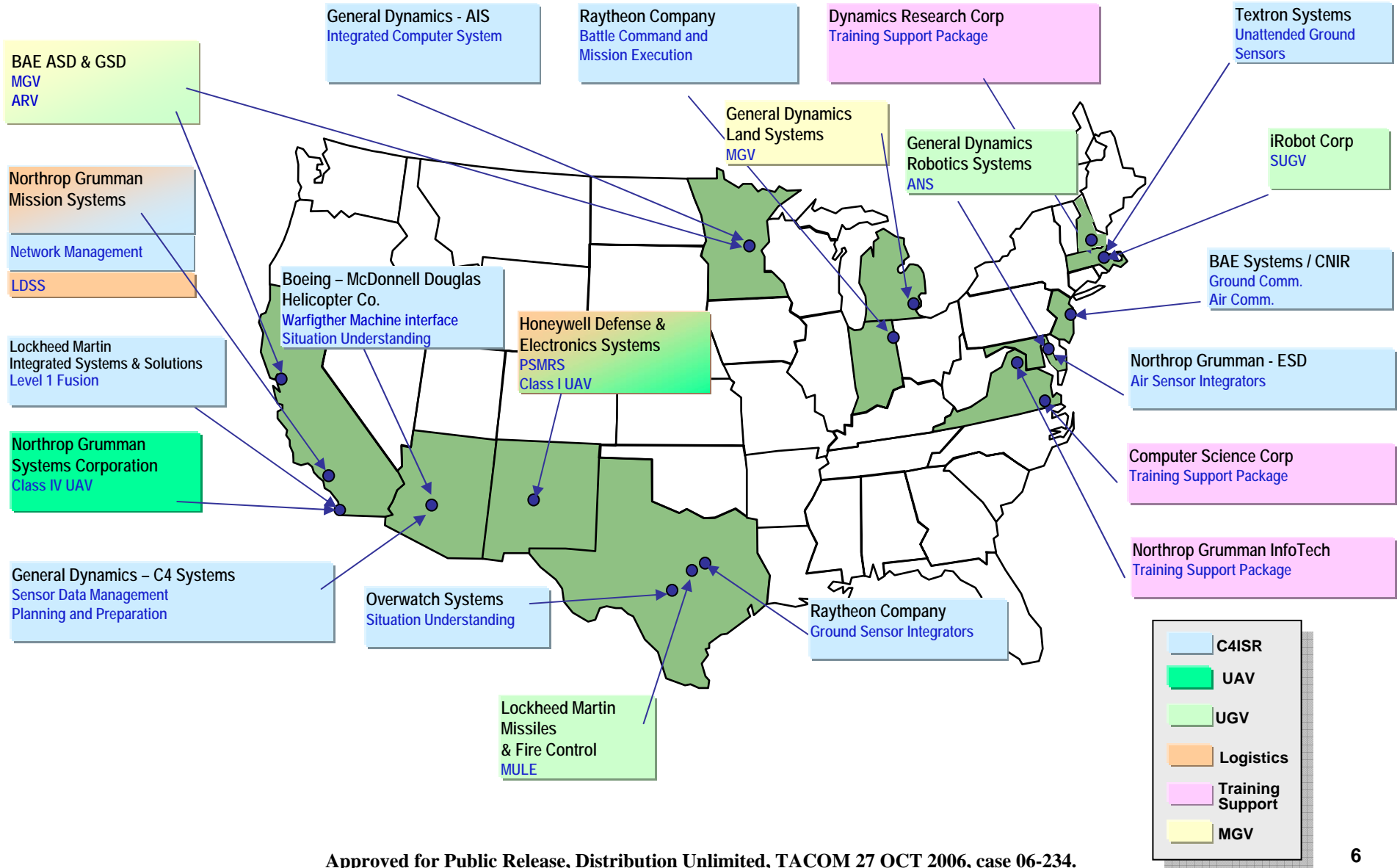
Recent Significant Events



Demonstrations and Technologies On Track

Approved for Public Release, Distribution Unlimited, TACOM 27 OCT 2006, case 06-234.

FCS “Best of Industry” Partner Team



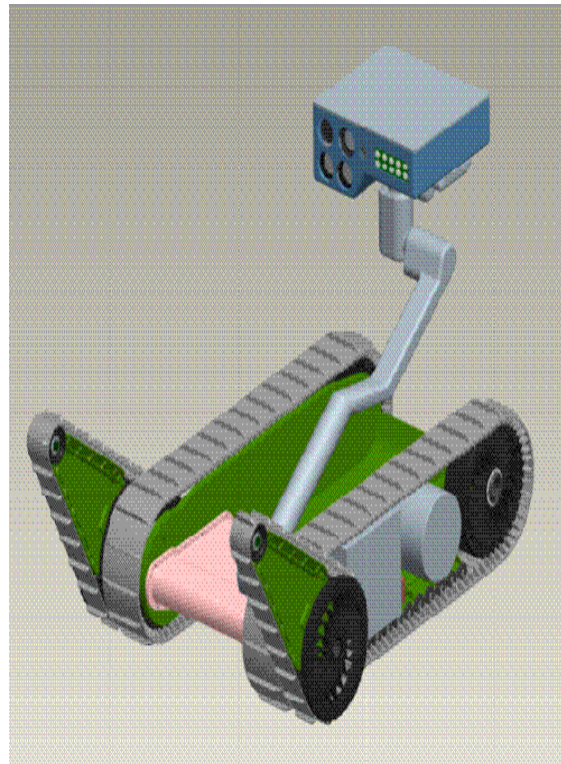
FCS Small Business Involvement

- Small Business is a critical element of the FCS Program
- One Team Partners are initiating Mentor Protégé projects to promote Small Business participation
 - LSI has one project in place and one in work
- Ongoing FCS presence at numerous conferences, symposia, and science & technology demonstrations
- Supplier Showcase
 - Technology forum for current & potential suppliers to present capabilities to the LSI & One Team Partners sponsored by DART

***Over 400 Small Businesses currently supporting FCS
and the number is increasing***

What Small Businesses are doing on FCS

- **iRobot is a Tier One Supplier to the LSI**
- **Mission: Provide extended reconnaissance of MOUT and subterranean battlespace/network node**
- **Armament: Non-Lethal specific to MOUT**
- **Gross Weight: 30 lbs.**
- **Sensors: EO/IR, Seismic, Acoustic, Target designation, NBC**



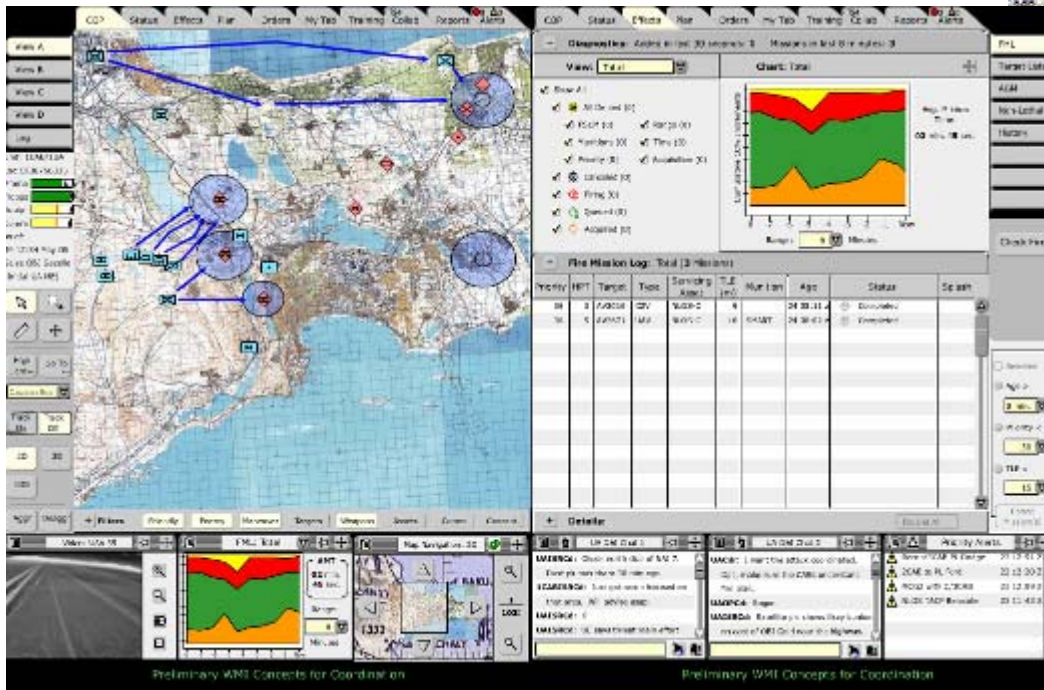
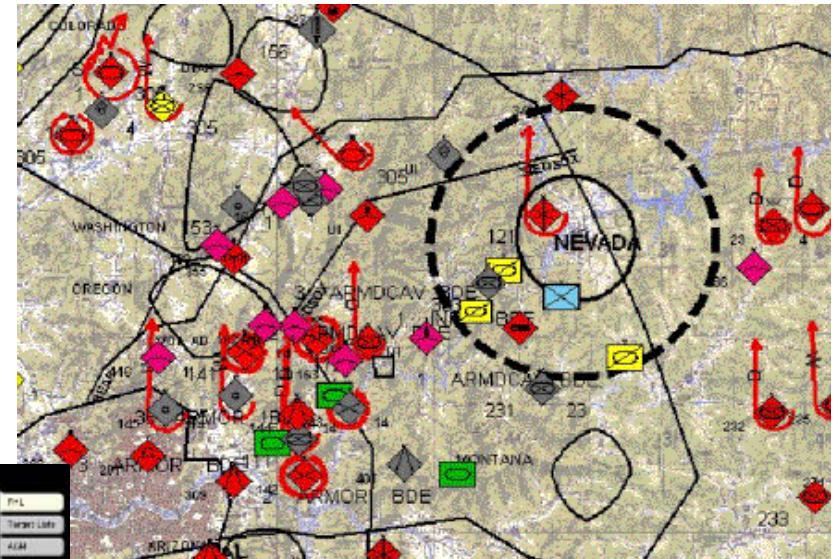
Legend:
Platform Unique Subsystem
Complementary Program Subsystem
Common Distributed Subsystem

The iRobot pre-prototype Small Unmanned Ground Vehicle (SUGV) was exhibited at the AUSA show (Oct. 9-11). In addition to being on static display, it demonstrated its mobility (over small rubble objects/debris), stair climbing ability (climbing up and down stairs), and ability to look around corners without exposing itself to potential hostile fire. This demo was unscripted and intended to provide a general capabilities presentation of this new pre-prototype part of the FCS Brigade Combat team.

The SUGV provides an extension of the soldier in high risk reconnaissance operations

What Small Businesses are doing on FCS

- **Overwatch Systems is a Tier One Supplier to the LSI for Situation Understanding**
- **Tier Two Supplier for Battle Command Mission Execution, Planning & Prep and Level 1 Fusion**



- Responsible for portraying the friendly and enemy forces on the Common Operating Picture (COP)
- Semi-autonomous Level 1 – 4 Fusion software will reduce the warfighter's workload
- COP will help the warfighter achieve the "Quality of Firsts"

What Small Businesses are doing on FCS

- **Phacil Incorporated** – SDB/HUBZone
 - FCS Mentor Protégé (Credit Only Agreement) provides C4ISR information technology, systems integration, and logistics services
- **Sparta** – Small Business Concern
 - Modeling support to the development of collective tasks for the FCS BCT
- **Milvets Systems Technology, Inc** – SB/SDB/HUBZone/SVO/SDVO
 - Army training and operations support in the areas of Fire Support and CBRN operations
- **Visual Purple** – Small Business Concern
 - Expertise on design and development of computer based training materials
- **LynuxWorks** – Small Business Concern
 - Objective embedded operating system to increase functionality and support of evolving hardware

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 Unsolicited Proposals and Questions
 - 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 RFI's/RFP's & Industry Day Announcements
 - Notification of opportunities sent to suppliers
 - 695 registered suppliers
 - LSI/Partner contact information
 - Small business event calendar
 - Industry inquiries

Quick Links:

- ▶ [Partners](#)
- ▶ [Unsolicited Proposals](#)
- ▶ [Request for Information/Proposal](#)
- ▶ [FCS Business Opportunities](#)



Examples of Business Opportunities

• Supportability

- General Purpose Processors
- Secure Wireless Fidelity, Zigbee, or other Wireless communications technology
- Chemical/Biological/Radiological/ Nuclear micro-sensors and sensor fusion
- Advanced ruggedized display technology (OLED, micro cube projection, etc.)
- Perception Systems
- Advanced Robotic Controls
- High Bandwidth Transmission techniques
- Advanced micro-turbine or heavy fuel micro-diesel engine technology
- Simulation and Modeling Tools/Model Development for Rapid Prototyping
- Advanced Data Mining Functionality
- Reasoning Technology

• C4ISR Network Systems

- General Purpose Processors
- Graphics Processors
- Fixed and Removable Storage Media
- Storage Controllers
- Network Switches and Routers
- Firewalls
- Network Intrusion Detection

• C4ISR Battle Command

Level 1 Fusion

- Distributed Fusion Management
- Fusion Engine
- Exploitation Tools
- Embedded Training Software

Examples of Business Opportunities (Continued)



• Unmanned Ground Vehicles

- Perception Sensors
 - IR Camera
 - Low Light Monochrome Camera
 - Millimeter Wave Radar
 - Optics/Lenses
- Core Navigation System
 - Integrated GPS/INS System
 - GPS Antenna
- Perception Computer Subsystem
 - Computer System Enclosure
 - Power Supply
 - Heat Exchanger

• Manned Ground Vehicles

- M240 Remote Operation Kit
- Light Weight Track
- Energy Storage System
- Close Combat Armament System Sight Sensor
- Digital Imaging Devices
- Laser Warning Receiver
- External Power Converter

In Summary...



- Small Businesses are important to the FCS Program
- Our Outreach and Supplier Diversity initiatives are in place and we are making good progress
- Continuing to foster an environment that increases Small Business awareness and opportunities
- To date over 400 Small Businesses have been involved with FCS, representing more than \$500M of total commitments across 38 States and 184 Congressional Districts
- Please visit the FCS Small Business Team (DART) during the Breakout Sessions for more business opportunity information (Sully Room - lower level)

FUTURE COMBAT SYSTEMS



One Team-The Army/Defense/Industry

Questions and Answers