FCS Program Overview

10th Annual Army Small Business Conference

Steve Marion
Sr. Program Director
Combat Systems Supplier Management
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
Operational Environment Demands Integration

Conventional

Multiple Data Sets

Tribal Boundaries/Activities

HUMINT Reporting

Communications & Social Networks

Transportation

Imagery

MASINT Signatures

TRIBE 1

TRIBE 2

Intelligence Reporting

Significant Activity Reports

Today

Year 1 Significant

Year 2 Activity

Year 3 Reports

Threat Attacks (Last 30 days)

Operational Environment Demands Integration

Multiple Data Sets

Tribal Boundaries/Activities

HUMINT Reporting

Communications & Social Networks

Transportation

Imagery

MASINT Signatures

Intelligence Reporting

Significant Activity Reports

Today

Year 1 Significant

Year 2 Activity

Year 3 Reports

Threat Attacks (Last 30 days)
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

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

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**

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