

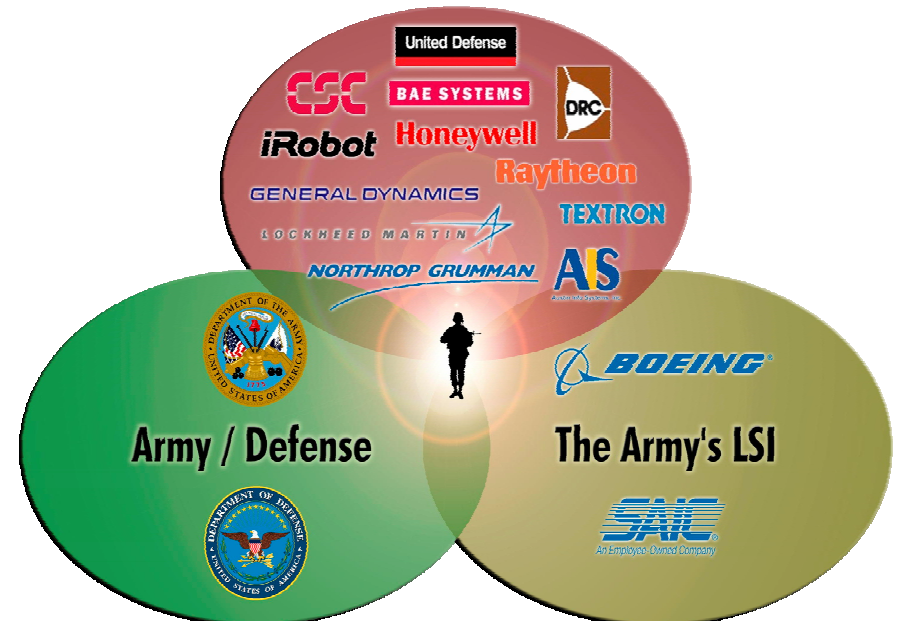
TACOM
**Advanced Planning Briefing
for Industry (APBI)**
Lead Systems Integrator (LSI)

Greg Hodgson
FCS Supplier Management

Dearborn, MI
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Program Overview

- What is the FCS-Equipped Unit of Action?
 - In 2003, the U.S. Army and its Lead Systems Integrator (LSI) team of Boeing and Science Applications International Corporation (SAIC) were joined by 23 partners to play key roles in the U.S. Army's Future Combat Systems (FCS) program.
 - FCS is the Army's multifunctional, multi-mission, re-configurable, networked system-of-systems, designed to maximize joint interoperability, strategic transportability, and commonality of mission roles
 - FCS is primary mechanism to transform the Army to a lighter, more responsive lethal force
- Who is currently involved in the FCS Equipped Unit of Action?
 - Twenty-three (23) Partners who are Tier 1 suppliers to Boeing or SAIC, resulting in Tier II suppliers that span twenty-nine (29) states



FCS Unit of Action Elements

One Team Partner Responsibilities



Manned Ground Vehicles

General Dynamics / United Defense



Infantry Carrier



Command & Control



Mounted Combat Syst



Recon & Surveil.



NLOS Cannon



NLOS mortar



Maint. & Recovery



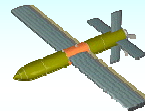
Medical

Network / Software / C4ISR

Battle Command & Mission Execution – Raytheon
 SOSCOE / Warfighter Machine Interface – Boeing
 Level 1 Fusion – Lockheed Martin
 Sensor Data Mgmt / Planning & Prep – GDSS
 Situation Understanding – Austin Info Systems
 Network Management – Northrop Grumman
 Integrated Computer System – General Dynamics
 Unattended Ground Sensors – Textron
 Ground Sensor Integration – Raytheon
 Air Sensor Integration – Northrop Grumman
 Ground Comm & Air Comm – BAE Systems



Unmanned Air Vehicles



Class III



Class II
Class I



Class IV
Northrop
Grumman

Logistics & Training

LDSS – Northrop Grumman
 PSMRS – Honeywell
 Training Support
 – Northrop Grumman
 – Dynamics Research Corp
 – Computer Science Corp

Unmanned Ground Vehicles



Armed
Robotic Vehicle
United Defense



Small UGV
iRobot



Mule
Lockheed Martin



Auto. Navigation - GDRS

Unattended Munitions

NLOS LS (LAM, PAM)
 Intelligent Munition System

Non-FCS Elements

Trucks
 81 mm Mortar
 AAFARS , HTARS

FCS LSI Opportunities

- The LSI has upcoming competitions for previously deferred systems:
 - Unmanned Aerial Vehicles (UAVs) Class II, and III
 - **Industry Day planned (watch the FCS website)**
 - **Request For Proposals scheduled to go out early 2005**
- LSI Spiral Development and Technology Planning (SD&TP) IPT will participate in the 8th Annual Army Small Business Conference, November 17-18
 - Technologies of high interest to the FCS program to be identified
 - Focus on innovative technology enablers for systems that are lightweight, inexpensive, mobile, lethal, reliable, sustainable, network-centric, and interoperable
 - Soliciting technical “white papers” beginning Q1 CY05
- Logistics (2005)
 - Interoperability Kits
 - Logistics Data Repository
 - Interactive Electronic Technical Manual (IETM)

FCS LSI Opportunities

- Purchase and modification of HMMWV vehicles (Q1 '05)
- Various Engineering Services and Support (on-going)
- COTS and Open Source software (on-going)
- Engineering Support - Logistics Modeling and Simulation
- Engineering Support - Logistics External Integration
- Electronic components, computer and test equipment for the System of Systems Integration Lab (SoSIL)
- Electronic components, computer and test equipment for Transportable Node
- Engineering Support to Integration, Simulation & Test

Partner 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

FCS Business Opportunities

[Intelligence, Surveillance, and Reconnaissance](#) | [C4ISR - Battle Command](#) | [C4ISR - Network Systems](#) | [Unmanned Ground Vehicle](#) | [Unmanned Air Vehicle](#) | [Manned Ground Systems](#) | [Supportability](#) | [Training Support](#)

FCS Partner Contact Information	Business Opportunities
<i>Intelligence, Surveillance, and Reconnaissance</i>	
Raytheon Network Centric Systems Plano, Texas Randy Whitaker - Manager, Supplier Diversity Telephone: 972-344-8302 Fax: 972-344-8354 Email: r-whitaker@raytheon.com Web Address: www.raytheon.com/connections/static/node3335.html	Laser Rangefinder /Detector Electro-optical Infrared /Visible near-infrared Camera Acoustic-Seismic-Magnetic Sensor Passive RF Sensor Chemical Detection Sensor Biological Detection Sensor Radiological /Nuclear Sensor Combat Identification Aided Target Recognition Submit Supplier Information
Top	

Example from FCS Website

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 23 Partners (Contacts with websites)
 - Information on Submitting Unsolicited Proposals
 - Partners' Requests for Quotations / Information
 - FCS Business Opportunities
 - FCS Supplier Information Submittal Form
 - Supplier Diversity information (specific LSI / Partner Small Business contacts provided in FCS Business Opportunities Brochure)
 - FCS calendar with upcoming conferences and events
 - Submit Questions to LSI and Partners

FCS External Web Site



- Partner lists and Website links
- Submission of Proposals not covered by an RFP
- Partner posted solicitations and/or requests for information
- Partners opportunities, contacts, and submittal form, and LSI Technology areas of interest
- Supplier Diversity information and contacts

FCS Business Opportunities



LSI (Boeing and SAIC) Technology Areas of Interest



<p><u>Networked Battle Command and Situation Awareness</u></p>	<p><u>Force Lethality</u></p>
<ul style="list-style-type: none"> • Advanced Data Visualization Techniques • Advanced Distributed Data Management Architectures and Techniques • Advanced High-Speed Distributed Computing • Advanced Low-Profile Conformal Antennas • Advanced Position/Navigation and Tracking for the FCS equipped Unit of Action • Air-Ground Blue Situation Awareness • Automated Sensor Data Fusion for Precision Engagement and Fire Control • Command Decision Associates and Assistant Tools for Ground Warfare • Disposable Unattended Sensors • Highly Accurate Automated Machine Language Translation • Improved Battle Command on the Move • Information Operations • Multi-Level Secure Operating Systems • Secure Subterranean Wireless Networks • Small Affordable Multi-Spectral Sensors (Ground and Air) • Small Lightweight Laser Designators • Soldier Combat ID • Tactical Wireless Network Assurance • Through-Wall and Through Foliage Sensing 	<ul style="list-style-type: none"> • Advanced Line of Sight Lethality and Effects • Advanced MCS Ammunition
	<p><u>Survivability</u></p> <ul style="list-style-type: none"> • IED and UXO Sensing and Neutralization on the Move • Innovative Mine Detection by Dismounted Soldiers • Mine Clearance and Neutralization by Autonomous Unmanned Vehicles
	<p><u>Sustainment Footprint</u></p> <ul style="list-style-type: none"> • Advanced Line-of-Sight Lethality • Advanced Vehicle Drive Train Components • Failure Models for Embedded Digital Electronics and Mother Boards • Fault Tolerant/Self-Repairing Computer Operating Systems • Ultra High Density Energy Storage • Ultra Reliability Prognostics • Water from Air

FCS Small Business Involvement

- Small Business goals established at a Program level and flowed down to all Partners
- Significant program-wide focus on outreach and open opportunities in support of SB goals and program key tenets
 - Ongoing FCS presence at numerous events (AUSA, APBI, Army Small Business Conference, etc.)
 - FCS website for program-wide opportunities, announcements, inquiries, and supplier submitted interest/information forms
 - Partner outreach processes in place
- Upcoming system level procurements will feature industry days and supplier input as with past competitions
- Mentor Protégé for FCS technology development areas being sought
 - Submit your ideas and interest!

Approximately 100 Small Businesses currently supporting FCS
and the number is rising

In Summary...

- Key partners have been identified - and their sub-tier source requirements and selections are in progress
 - **Partner locations, products provided, and contacts are available on the FCS web site and in the handout we have available here today**
- Our Outreach and Supplier Diversity initiatives are in place - with focused and concerted collaborative efforts to identify and incorporate the “Best of Industry”
- The FCS program - already one of the largest Government Defense programs - has just increased significantly in content and scope.
 - **Additional emphasis placed on the spiraling out of capability to the warfighter after modeling & simulation and test**
 - **Planning for capability spirals and efforts toward previously deferred systems are now underway in conjunction with our partners**
- With such a large, evolving, and dynamic program, continue to watch the FCS web site for further opportunities and developments as they are identified