Briefing Outline

• PEO Vision
• PEO Organization
• FCS Management Strategy
• Major Program Activities
PEO-GCS
Vision and Mission

**Vision**

Systems Integrator for the Armed Forces of Today and Tomorrow

**Mission**

Maintain The Total Army Perspective While Managing Assigned Systems. Develop, Acquire, Test, Integrate, Improve, and Field Programs While Meeting Cost, Schedule and Performance Goals.
Current Organization

PEO GCS

- PM Abrams
  - M1A2
  - M1A2 SEP
  - Wolverine
  - Paladin
- PM Bradley
  - M2A3
  - M3A3
  - M113
- PM FCS
- PM Brigade Combat Team
  - ICV
  - MGS
- PM Unmanned Ground Vehicles
  - SUGV
  - MULE
  - ARV
  - ANS
- JPM LW 155
  - XM777
  - XM777E1
  - M198
  - M119A1
  - IPADS
  - GLPS
The Program Manager for the FCS has System of Systems responsibility for cost, schedule, and performance.

The LSI will perform missions and functions for systems acquisitions normally accomplished by our board selected Project Managers.

Our role needs to reflect that we are no longer directly responsible for system level cost, schedule, and performance.
FCS is composed of a collection of aerial and ground, manned and unmanned, combat vehicles linked together via a C4ISR architecture to facilitate network-centric warfare. The resulting combat power is far superior to the individual contribution of the individual vehicles and weapons.
1. Distributed execution: organizationally and geographically
   - Advanced Collaborative Environment (ACE) Manager defines boundaries and controls (facilitates government and LSI work collaboration)

2. Designated Lead PEO / Program Manager; IPT Co-Leads reinforced by adequate matrix. Expertise negotiated with the LSI.

3. Use existing Centers of Excellence regardless of location to minimize programmatic learning curve
   - Based on core competencies and matrix/contractor augmentation
   - Draw from all sources of expertise:
     - PEO
     - RDECs
     - DARPA
     - User Community
     - Others TBD

4. Systems’ integration of the Unit of Action (UA) takes precedence
   - HQ TRADOC is Single User voice for pooled family requirements
   - Proponent schools associated with variant teams; voice requirements to HQ TRADOC
   - Centrally controlled budget to retain wide flexibility on evolving requirement and acquisition environment

5. Program Manager and supporting IPT Co-Leads chartered to insure a System of Systems approach throughout the UA
• **UA Program Manager:**
  – Provides resources and with the LSI defines mission of IPT Co-Leads
  – Leads integrated budgeting activity
• **Directors of the functional areas:**
  – Responsible to the UA Program Manager
  – Provide functional support to the IPT Co-Leads and domain expertise to LSI
• **IPT Co-Leads and Appropriate Functional Directors:**
  – Insure that UA requirement takes precedence over individual system needs
  – Insure that system integration and commonality are addressed across UA
  – Resolve conflicts
• **Organizationally and geographically distributed management and execution**
• **Program will use existing centers of excellence and expertise**
• **IPT Co-Leads (Project Managers):**
  – Located where their system’s source of expertise resides
  – Support LSI and provide oversight functions
How We Got Here
- Multiple Teams in Phase I
- Competitive Solicitation For Lead System Integrator (Nov 01)
- DARPA Issued OTA to Boeing (14 Mar 02); Estimated Value: $240M.
- Agreement Includes an Option for SDD

Deliberate Implementation of Evolutionary Acquisition
- Blocked Requirements w/o Definition of Ultimate Functionality
- Each Increment Defined by Maturation of Technology Matched With Evolving Needs of the User
- Spirals as Appropriate Within Each Increment
**BCT Integrated Program Schedule**

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### Program Milestones

- **MS II**
- **FUE**
- **3rd ID**
- **MS III**
- **FY00**
- **FY01**
- **FY02**
- **FY03**
- **FY04**
- **FY05**
- **FY06**
- **FY07**
- **FY08**

### ICV, MC, CV, RV
- MEV, ESV, ATGM, FSV
- Initial Production
- Full Production
- Block Modification/Retrofit

- RPG Armor Protection
- Mounted 120mm Mortar
- Embedded Training
- Swim Capability

### NBCRV
- Sensor Dev/Veh Int
- Initial Production (IP)
- Full Production

### MGS
- Development
- Gov't Dev Test
- Initial Production
- Full Production
Abrams Tank Systems
Programs Within the Project

Upgrade

Recapitalization

M1A1 (AIM) Rebuild

M1 Basic

M1A2 SEP

Retrofit

M1A1

M1A1 +

New Engine

Electronic Obsolescence

M1A2

M1A2 SEP
FY03 Abrams Program Status

- RDTE $83.1M Majority for LV 100 Engine Program

- PROC
  - SEP Upgrade $376.3M Buys 103 M1 to M1A2 SEP upgrades
  - SEP Retrofit $123.7M Buys 31 M1A2 to M1A2 SEP retrofits

- Mod Line $191.4M Includes LV 100 Engine, Safety, PJS, UAAPU, Frontal and Improved Side Armor

- Misc $27.6M Includes Tng Devices, Tng Device Mods, & Spares

- OMA $129.7M AIM rebuild for 135 M1A1 tanks
Bradley Fighting Vehicle Systems
Products in the Program Office

Bradley Fighting Vehicle Systems

Bradley FIST (A3)

Bradley A3

Bradley Base Sustainment

Bradley A2 Operation Desert Storm (ODS)

Multiple Launch Rocket System (MLRS) Chassis

Armored Medical Evacuation Vehicle (AMEV)

Command and Control Vehicle (C2V)

Bradley Fire Support Vehicle (BFIST) M7

Armored Gun Systems (AGS) M8

Linebacker M6/ MANPADS Under Armor (MUA)

Striker

M113 FOV
FY03 Bradley Program Status

- No RDT&E Funding
- Procurement
  - Bradley base sustainment program $397.1M - Buys 138 Bradley A3 vehicles - 3rd year of a three year multi-year contract with UDLP.
  - Bradley MODS $ 35.0M - ODS MODS, Applique, High priority improvements
  - Striker $28.5M - buys 54 Striker vehicles
  - BFIST $7.0M - buys & fields BFISTs
  - Miscellaneous $21.9M - includes training device modifications and initial spares
<table>
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<tr>
<th>Unmanned Ground Vehicle Platforms for FCS</th>
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<tr>
<td><strong>Soldier Unmanned Ground Vehicle (SUGV)</strong></td>
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<tr>
<td>- Small platform to weigh less than 30 lb</td>
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<td>- Conduct Reconnaissance in a MOUT environment, tunnels/sewers, bunkers &amp; caves</td>
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<tr>
<td><strong>Armored Reconnaissance Vehicle (ARV)</strong></td>
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<td>- ARV (Recon) 5.3 tons, to support Maneuver Forces</td>
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<tr>
<td>- ARV (Assault) 2.5 tons, to provide firepower for Dismounted Infantry</td>
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<tr>
<td><strong>Multifunction Utility/Logistics &amp; Equipment Vehicle (MULE)</strong></td>
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<tr>
<td>- 1 to 2 ton platform</td>
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<tr>
<td>- Carry a 1200lb payload</td>
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<tr>
<td>- Support Dismounted Infantry</td>
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<tr>
<td><strong>Autonomous Navigation System (ANS)</strong></td>
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<td>- Separate procurement package to provide a universal ANS for all systems</td>
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FY 03 Events:

- Provide a draft SDD package to industry for comment, Nov 02
- SDD Package release to Industry for Bid, Jan 03
- Award contracts in June 03
- Full and Open Competition
- Each Procurement considering more than one Offeror for each acquisition

PEO GCS:
- Government support to the Boeing LSI:
  - IPR Reviews
  - Source Selection
  - Development of SDD package
  - Interface with Users
  - Support the UGV Demo’s
  - Interface with Objective Force Warrior
  - Establish a PM FCS UGV Program office
**Mission Statement:**
Provide direct, reinforcing, and general support fires to maneuver forces. Replace the M198 howitzer as the general support artillery for light forces in the Army. Replace all howitzers in all missions in the USMC. Direct support artillery for the Interim Force.

**Characteristics / Description:**
- **Weight:** 10,500 pounds or less
- **Emplace, Displace:** <3 min, <2 min
- **Maximum Range:** 30 km (assisted)
- **Rate-of-Fire:** 4-8 rds/min max, 2 rds/min sustain
- **Prime Mover:** Current 5T truck, FMTV, MTVR
- **Airmobility:** MV22, CH53D/E, CH47D
- **Digital Fire Control:** Army req’d; USMC P3I

**Capability / Improvements:**
- Improved lethality & strategic deployment
- Increased tactical mobility & reliability
- Improved rate of fire
- Improved Survivability (decreased emplacement/displacement time -- shoot and scoot tactics with automatic fire control)
- Digitizes all Army and USMC towed artillery

**Special Features:**
- Joint USMC/Army Program
- ASN(RDA) is the MDA for Howitzer
- PEO GCS is the MDA for digital fire control
- COMMARCORSYSCOM directs program
- PEO GCS executes program
- Program office is jointly manned
- USMC funds basis weapon R & D
- Army funds fire control R & D
- International with UK and IT

**Contractors:**
- BAE Systems – United Kingdom – Prime
- General Dynamics – Burlington, VT – TAD
- ARDEC – Picatinny Arsenal, NJ Engineering
- Benet Labs – Watervliet, NY – Cannon Assembly
- RIA – Rock Island, IL – Breech Operating & Loading Tray
JLW 155
Program Accomplishments

• Completed Operational Assessment
  – Fixes Applied or Under Development

• PP1 Testing Underway
  – Accuracy Requirement Met
  – Strength of Design Test Completed

• TAD Development Progressing Well
  – Interfaces Already on Weapon
  – Currently Testing Hardware on Gun

Program on Track for Production Milestone in Nov 02
PEO GCS must continually strive to find innovation methods to provide the best available weapon systems, in an appropriate timeframe within scheduled cost, to the soldier.
TACOM APBI

30 October - 1 November

Advanced Planning Briefing for Industry