



Future Combat Systems



Future Combat Systems Program Update 3 December 2002



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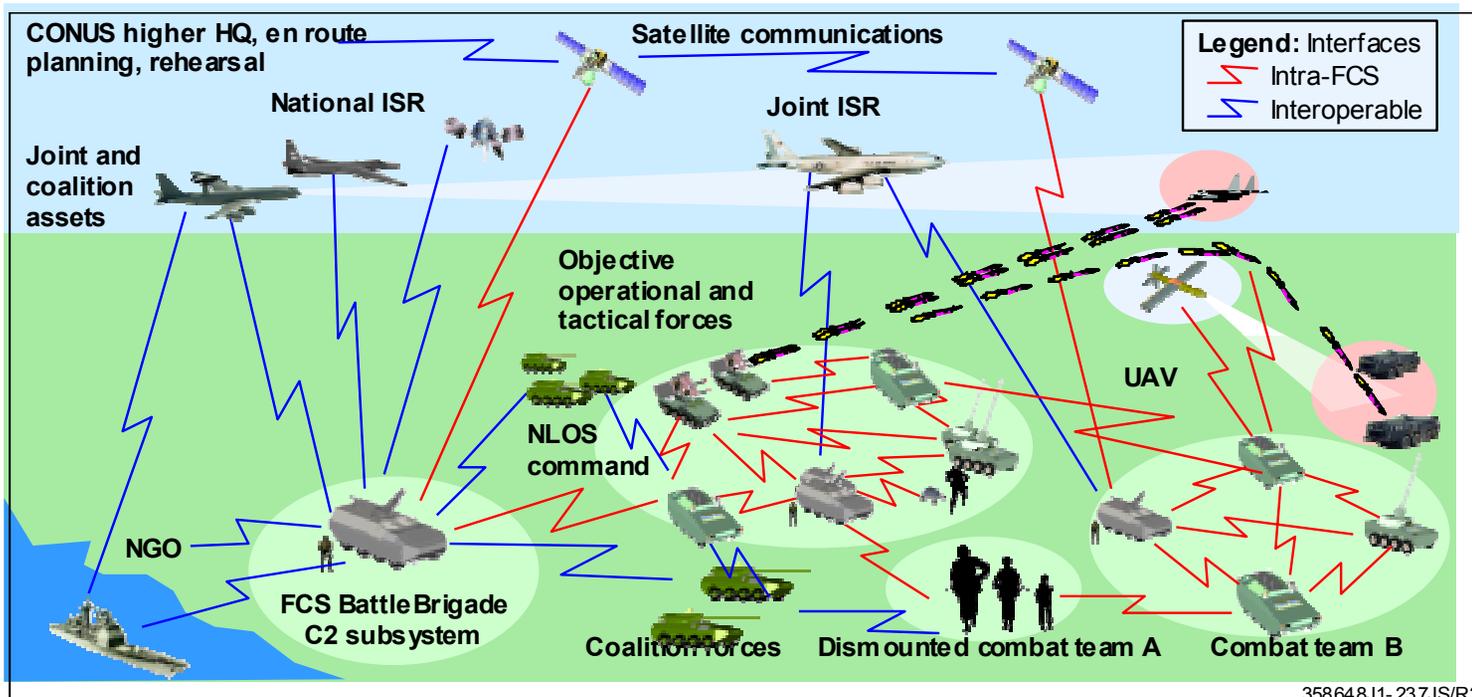
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**Program Manager's Intent: Field FCS-Equipped Units of Action With
Threshold Objective Force Capability by the End of the Decade**



Future Combat System Definition

FCS is the networked system of systems that will serve as the **core building block** within all maneuver Unit of Action echelons to develop **overmatching combat power, sustainability, agility, and versatility** necessary for **full spectrum** military operations.



Soldier-centric, Network enabled, Knowledge Empowered



Future Combat Systems



Essential Tenets of the Program

- Create Opportunity for *Best of Industry* to Participate
- Leverage Government *Technology* Base to Maximum Extent
- *Associate* On-Going Enabling Efforts With LSI-Led Activity
- *Collaborative Environment* from Design Through Life Cycle
- As a Minimum, *Commonality* at Subsystem/Component Level
- Design/Plan for *Technology Integration* and Insertion
- Maintain and Shape *Industrial Base* for the Future
- Retain *Competition* Throughout Objective Force Acquisition
- Appropriate *Government Involvement* in Procurement Processes
- Maintain and Shape *Government Acquisition* Community
- Program *Affordability--Balance* Performance and Sustainment

Always Remember, FCS is a System of Systems, Not Individual Pieces

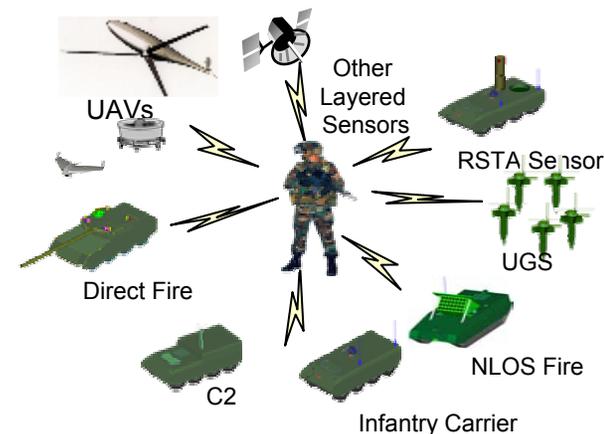


Future Combat Systems Program Perspective



❖ DARPA/Army MOA for an FCS Collaborative S&T Program

- ❖ 28 Feb 2000—Demonstration-Focused
- ❖ Reflects Program With Milestone B in FY06
- ❖ 45/55 Cost Share Thru FY05



❖ Army-Adopted Two Phased Approach

Concept and Technology Development--Phase I (May 00-Feb 02)

Under DARPA Lead, Four Industry Teams Were Chartered to:

- ✓ Develop Innovative Warfighting and Technical Concepts
- ✓ Explore the Art of the Possible in a Broad Trade Space

Concept and Technology Development--Phase II (Mar 02-Jun 03)

- ✓ DARPA and Army Selected Boeing as Lead Systems Integrator
- ✓ Transition to Army Lead for Systems Development and Demonstration

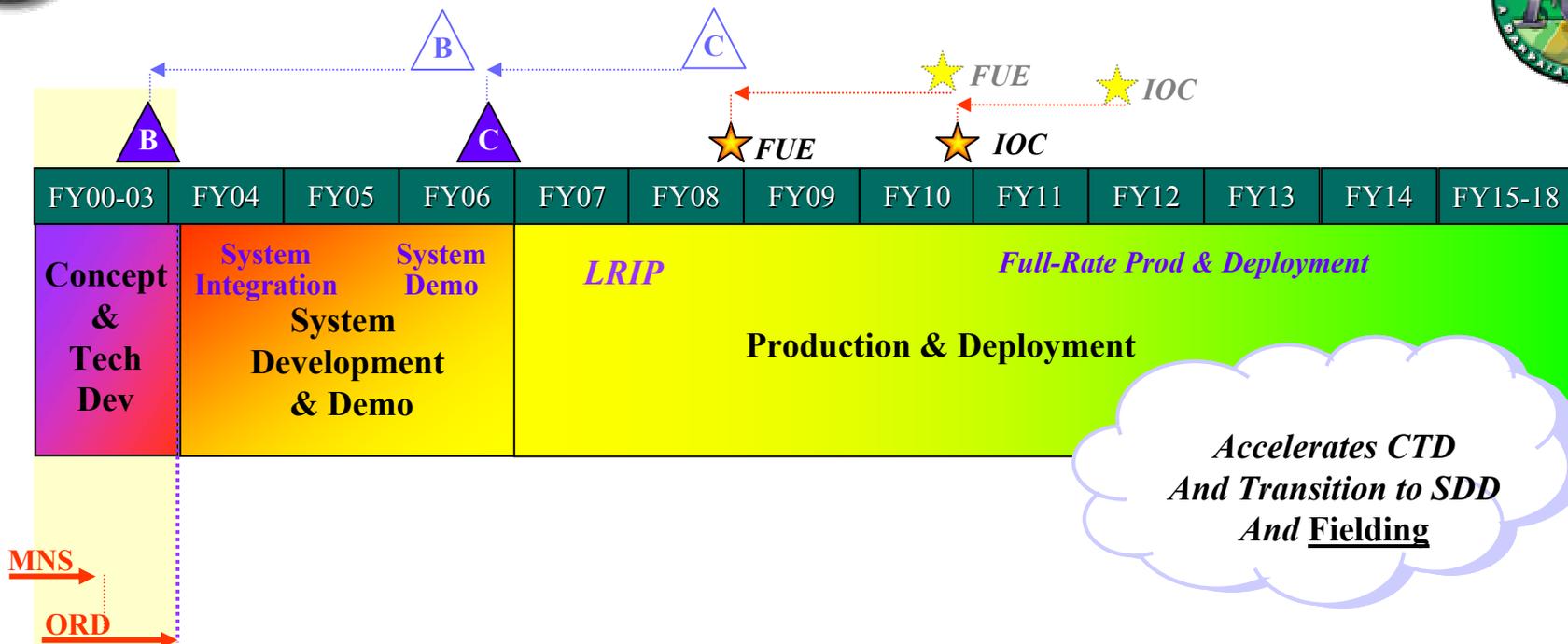
Field FCS-Equipped Units of Action With Threshold
Objective Force Capability by the End of the Decade.



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FCS Acquisition Concept



- DARPA/Army Entered Into OTA 845 Agreement With Boeing in Mar 02
- Forms Partnership With the Government for Remainder of CTD Phase
- Carries Out Competitions for FCS Systems/Sub-systems/Components
- Go For MS B--Negotiate Option to Continue Program Through SDD
- Begin Army-Wide Planning for Production and Fielding

Field FCS-Equipped Units of Action With Threshold Objective Force Capability by the End of the Decade.



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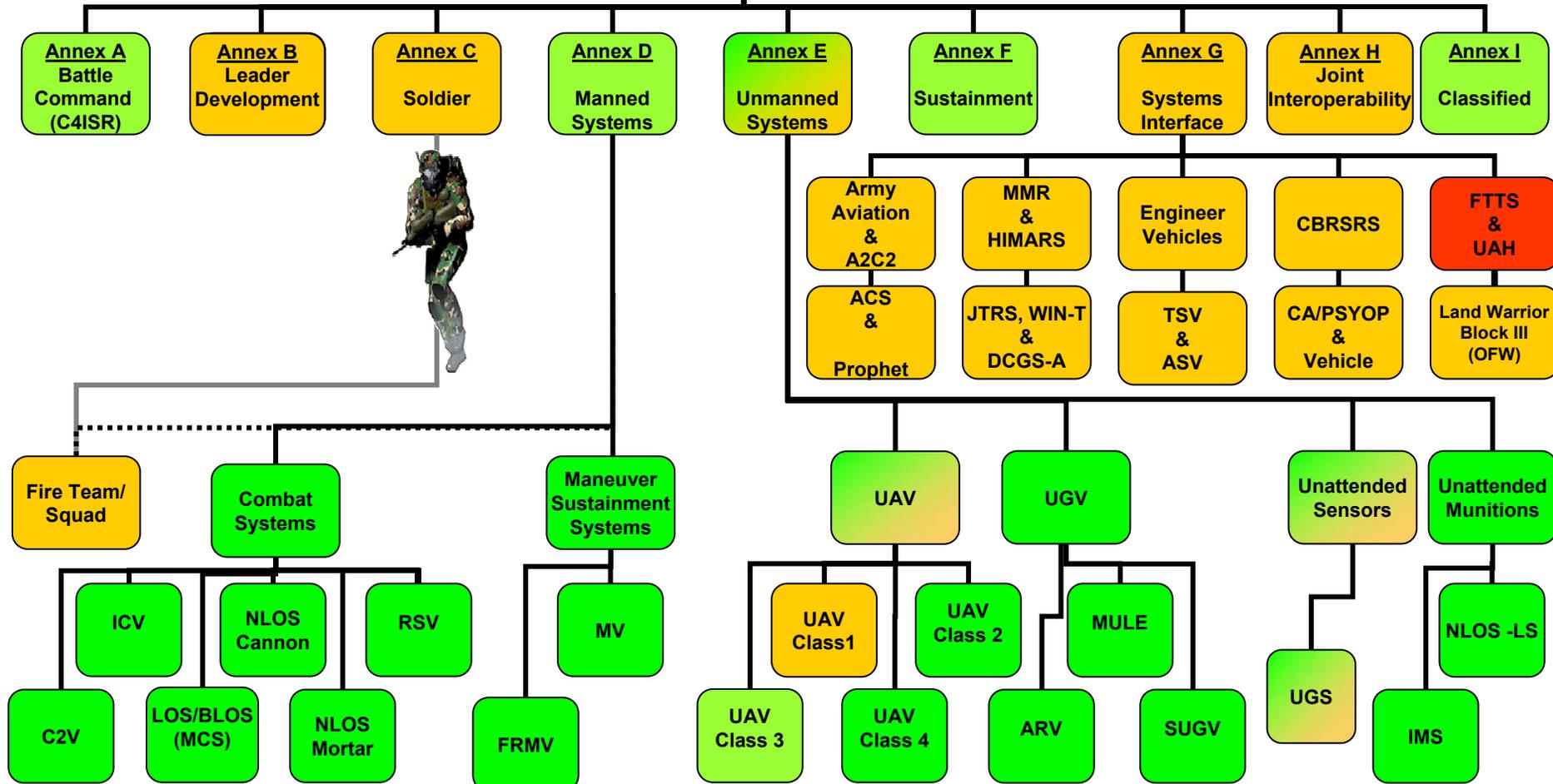


ORD Definition of FCS and the Acquisition Strategy

(25 Nov 02)

New Thru LSI
Influence

Base ORD
Family of Systems (FoS)
Common Requirements





What is this Acquisition Program About?

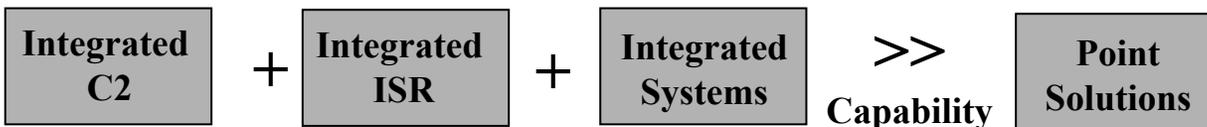
Buy

❖ *System of Systems Architecture for FCS Equipped Units of Action*

- System of Systems Design
- C4ISR Design
- Integrated Unmanned & Manned Ground & Air Systems
- Support for Advanced Collaborative Environment
- Munitions
- Sensors

Influence

- ❖ *Hardware / Software*
 - Munitions
 - Sensors
 - Mobility
 - Communications
 - Interoperability Interfaces
- ❖ *Any System/Sub-System Essential to FCS Within the UA and UE*
- ❖ *Any Soldier System*



Program Manager's Intent: Field an FCS -Equipped Unit of Action with Threshold Objective Force Capability By the End of the Decade



Boeing's Role as FCS Lead Systems Integrator

- System of *Systems Integrator*
- Integral *Partner* on the DARPA/Army Team
- Provides Direct *Support to The Army* in Requirements Development and Analysis Activities
- Assists in the *Development of Architectures*-- Operational, Systems, and Technical
- *Leverages* Applicable Government and Commercial Activities and Resources
- Assists in the *Identification, Selection, and Procurement* of Components, Sub-Systems, and Systems

DARPA/Army Agreement to Proceed to SDD



Overarching Acquisition Strategy

- **Buy** Future Combat Systems; **Field** Units of Action; **Equip** Soldiers
- **Embrace Evolutionary Acquisition While Requirements Mature**
- **Contracting Via Lead Systems Integrator**
- **Demonstrate—Live and Virtual—Force Operational Capabilities of the UA**
- **Balance Test and Evaluation With Modeling and Simulation**
- **Sustain DARPA/Army Collaborative Relationship for the Future**
- **Design for Supportability—Performance-Based Logistics**
- **Identify and Manage Risk to Facilitate Transition at MS B**

**It Is About the Networked System of Systems...
And How It Enables Dominant Land Combat**

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With Threshold Objective Force Capability By the End of the Decade**