

Advanced Planning-Briefing to Industry

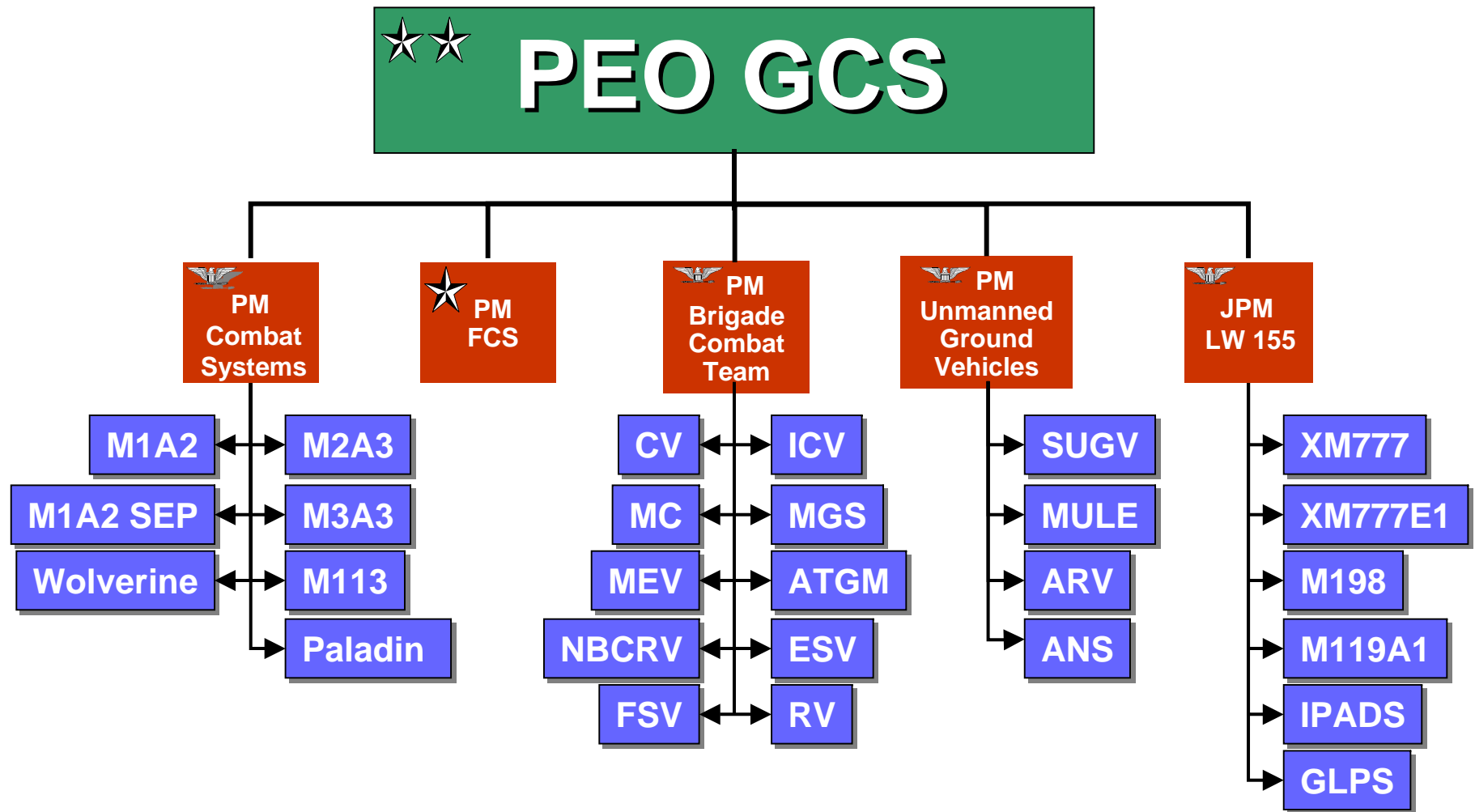


***Albert Puzzuoli
Deputy Program Executive Officer
Ground Combat Systems
31 October 2003***



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Organization





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American Heritage Dictionary Definition

System

A group of interacting, interrelated, or interdependent elements forming a complex whole...

System of Systems

System of Systems – A group of interacting, interrelated, or interdependent systems forming an even more complex whole...



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Magnitude of the Task

- Significant Government Investment
- Impacts Every Unit and Soldier in the Army
- Shapes Government / Commercial Industrial and Sustainment Base
- Schedule Constrained and Technology Driven

- Technology transition
- Highly accelerated schedule
- High degree of concurrency
- Unmatched requirements

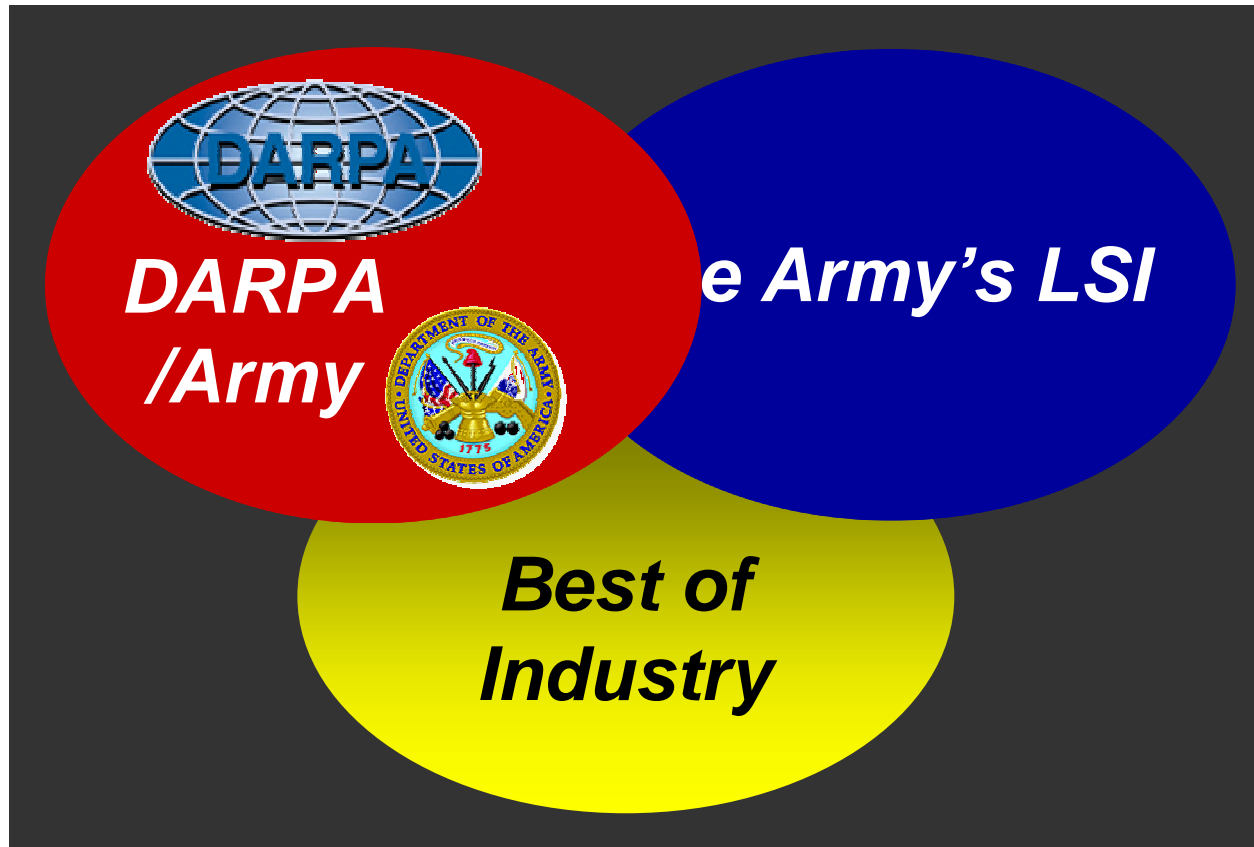
Requires Innovation and Leadership with unprecedented Govt. / Industry Partnerships

First True System-of-Systems Development, Production and Fielding



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Government/LSI-Trusted Partners

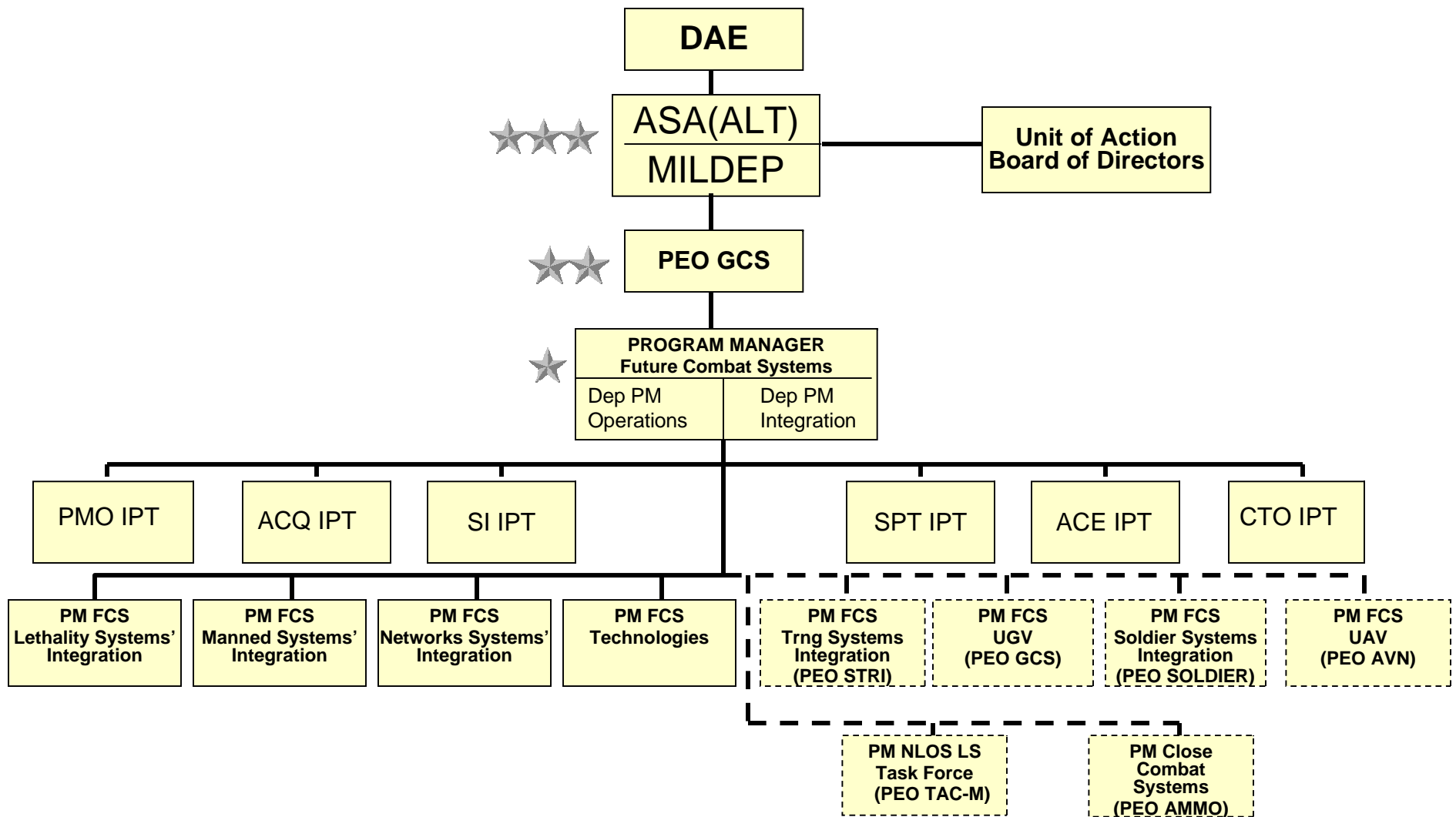


The Army's first large-scale "system-of-systems" development requires an integrated/dedicated organization



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Management Structure





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Role of the LSI

- Why a Lead Systems Integrator (LSI)...
 - The Army's first large scale "system of systems" development, integration across many disciplines and platforms, requires a dedicated organization experienced in large scale systems integration
- What the LSI does...
 - Trusted Industry member of the FCS Team (Army/ Defense/ Best of Industry) that has total systems integration responsibility ("top down" development)
 - Provides the Team a "general contractor" *focused on integration* for resource allocation, subcontract implementation and coordination, and programmatic responsibilities
 - Provides the vital link to the "Best of Industry" including domestic / foreign contractors, Government programs / Labs, and educational institutions
- What the LSI does not...
 - Does NOT provide hardware solutions to subsystem / element requirements

Synchronize and influence the piece parts which will become the network

Dependent on players within and outside the Army



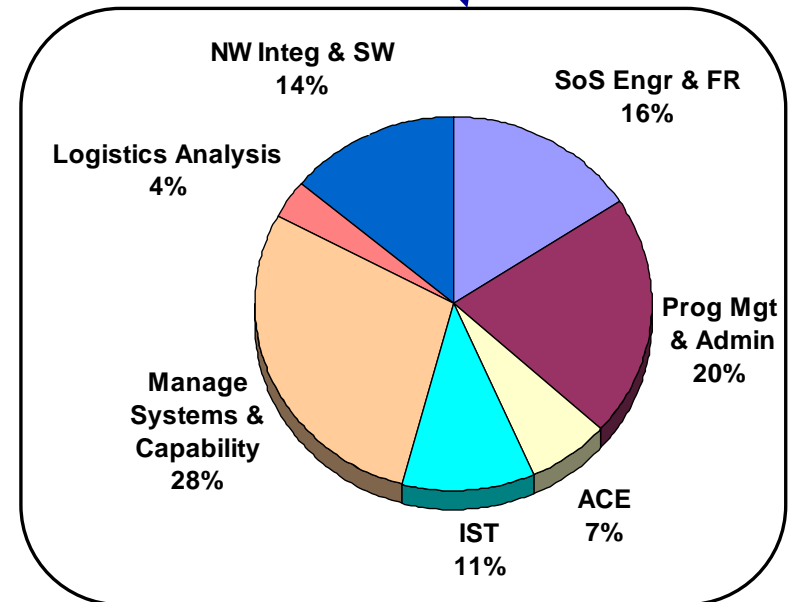
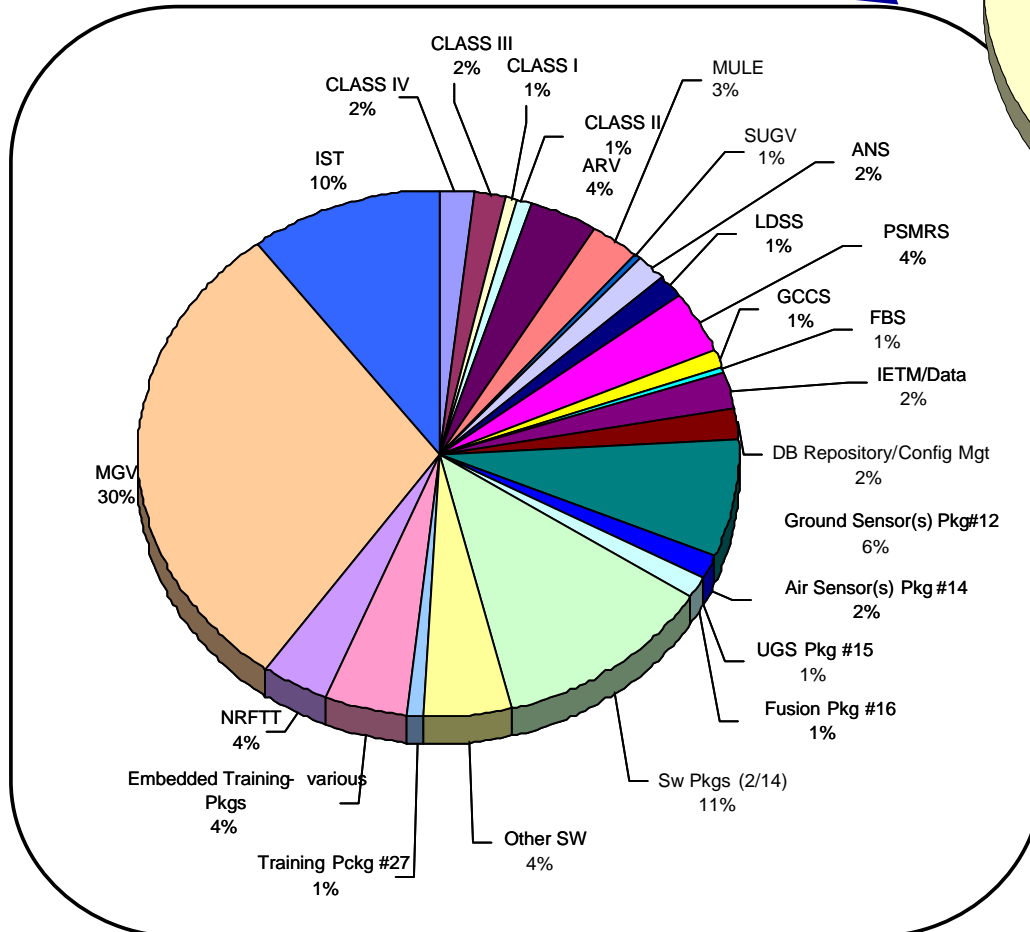
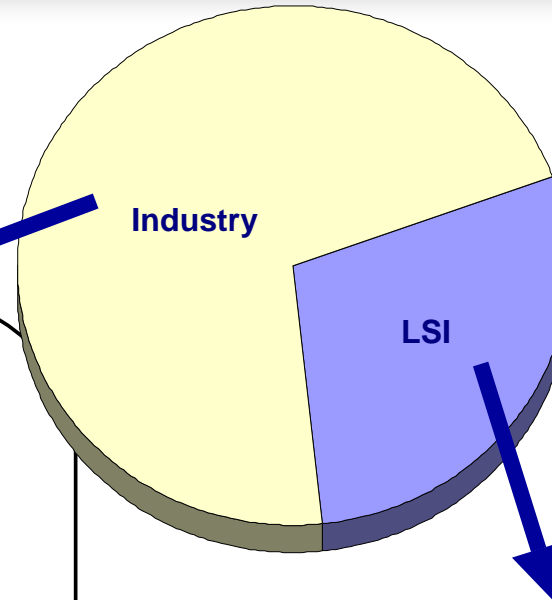
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Notional SDD Work Content

1/3 LSI Effort

1/3 MGV Effort

1/3 Competitive Subcontractor Effort

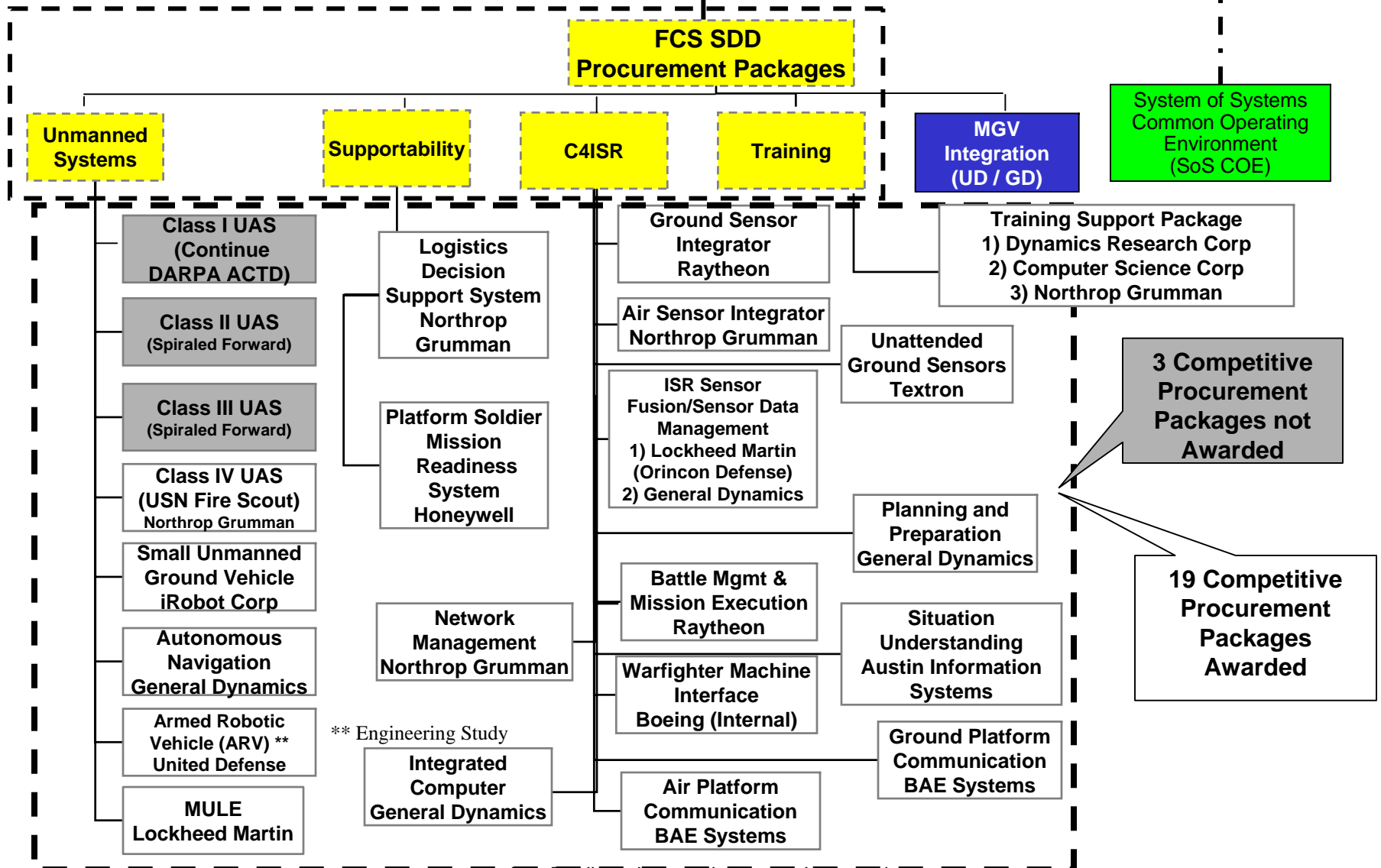




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Procurement Package Summary

LSI Integration



3 Competitive Procurement Packages not Awarded

19 Competitive Procurement Packages Awarded



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The Competitive Source Selection LSI Subcontract Packages

Awards	LSI Pkg #	Package Name	Description	Partner
1	1	Class IV Unmanned Aerial Vehicle (UAV) System	UAV System controlled and operated at the Brigade level. Performs target acquisition and designation, reconnaissance, surveillance, and communications relay.	Northrop Grumman Systems Corporation, San Diego, CA
	2	Class III Unmanned Aerial Vehicle (UAV)	Award Deferred	N/A
3	3	Class I Unmanned Aerial Vehicle (UAV)	Award Deferred, Coordinating w/DARPA on existing technologies and opportunity to spiral in.	N/A
	4	Class II Unmanned Aerial Vehicle (UAV)	Award Deferred	N/A
2	5	Armed Robotic Vehicle (ARV) \$9M Engineering Study Contract	Engineering Study Contract Only for the Armed Robotic Vehicle	United Defense, L.P., Ground Systems Division, Santa Clara, CA
3	7	Multifunction Utility/Logistics and Equipment Vehicle (MULE)	Unmanned Transport/Support Vehicle	Lockheed Martin Missiles and Fire Control, Grand Prairie, TX
4	8	Small Unmanned Ground Vehicle (SUGV)	Small Unmanned Multi-Mission Vehicle	iRobot Corporation, Burlington, MA
5	9	Autonomous Navigation System (ANS)	Autonomous and Semi-Autonomous Navigation for Manned and Unmanned Ground Vehicles	General Dynamics Robotics Systems, Westminster, MD
6	10	Logistics Decision Support Systems (LDSS)	Software Development and Integration	Northrop Grumman Mission Systems, Tactical Systems Division, Carson, CA
7	11	Platform Soldier Mission Readiness System (PS-MRS)	Software Development and Integration	Honeywell Defense & Electronic Systems, Albuquerque, NM
8	12	Ground Sensor Integrator	Sensor Procurement and Integration	Raytheon Network Centric Systems, Plano, TX
9	14	Air Sensor Integrator	Sensor Procurement and Integration	Northrop Grumman, Electronic Systems Division, Linthicum, MD
10	15	Unattended Ground Sensors, Tactical and Urban Sensors	Development	Textron Systems, Intelligent Battlefield Systems Division, Willington, MA



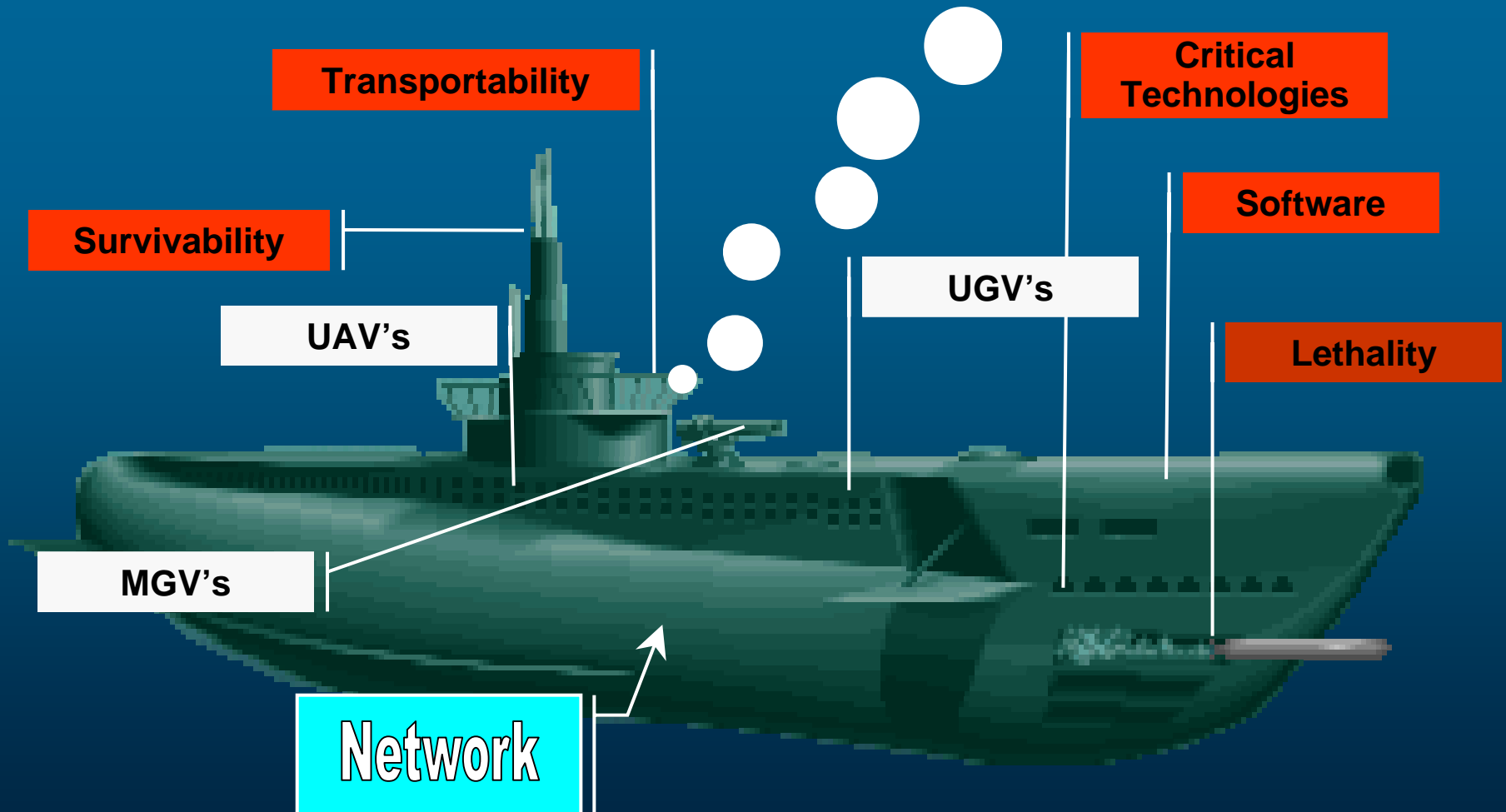
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The Competitive Source Selection LSI Subcontract Packages

Awards	LSI Pkg. #	Package Name	Description	Partner
11	16	Sensor Data Management	Software Development and Integration	General Dynamics Decision Systems, Scottsdale, AZ
12	16	ISR Sensor Fusion, Level 1	Software Development and Integration	Lockheed Martin, Orincon Defense, San Diego, CA
13	17	Network Management	Software Development and Integration	Northrop Grumman Mission Systems, Tactical Systems Division, Carson, CA
14	18	Battle Management and Mission Execution	Software Development and Integration	Raytheon, Network Centric Systems, Ft. Wayne, IN
15	19	Planning and Preparation Services	Software Development and Integration	General Dynamics Decision Systems, Scottsdale, A
16	20	Situational Understanding	Software Development and Integration	Austin Information Systems, Austin, TX
17	23	Warfighter Machine Interface (WMI)	Provides customized situational understanding and warfighter collaboration tools for all platforms across the Unit of Action	The Boeing Company, Mesa, AZ
18	24	Ground Platform Communication	Development and Integration of all Ground Communication Systems	BAE Systems CNI, Wayne, NJ
19	25	Air Platform Communication	Development and Integration of all Air Communication Systems	BAE Systems IESI, Nashua, NH
20	26	Integrated Computers	All Computers for the Network	General Dynamics, Advanced Information Systems, Bloomington, MN
21	27	Training Support Package	Blanket Order for Training Software and Documentation Services	Computer Science Corp, Federal Sector Defense Group, Hampton, VA
22	27	Training Support Package	Blanket Order for Training Software and Documentation Services	Dynamics Research Corp System Division, Andover, MA
23	27	Training Support Package	Blanket Order for Training Software and Documentation Services	Northrop Grumman, Information Technology, Defense Enterprise Solutions Division, McLean, VA



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If we don't have the network the whole program will sink