



OSD Perspectives

2005 Munitions Executive Summit

February 10, 2005

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Outline

- ✓ **DoD Overview**
 - OSD Organization
 - DoD Transformation
 - Budget Trends
- ✓ **OSD Munitions Initiatives**



Office of the Secretary of Defense

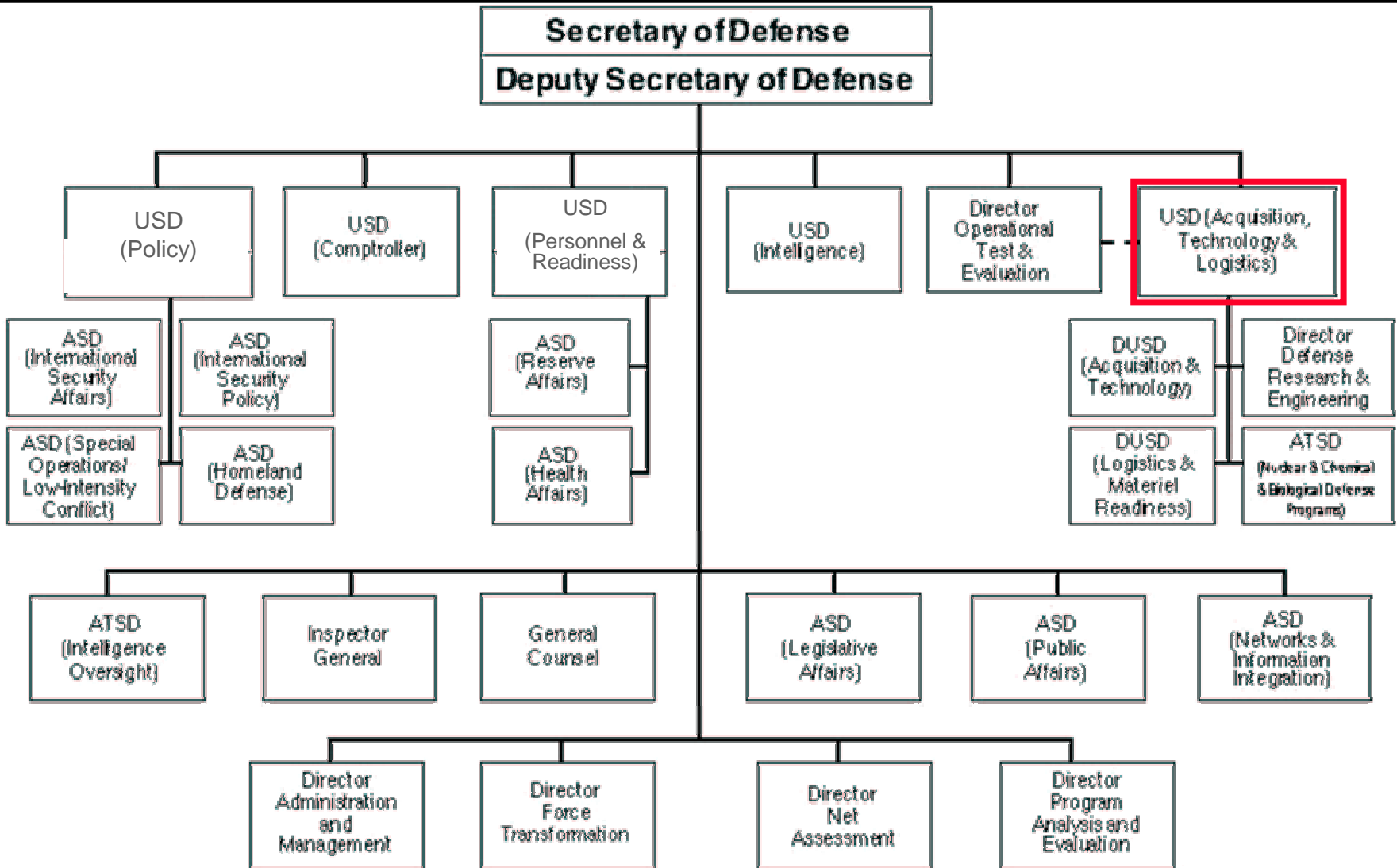
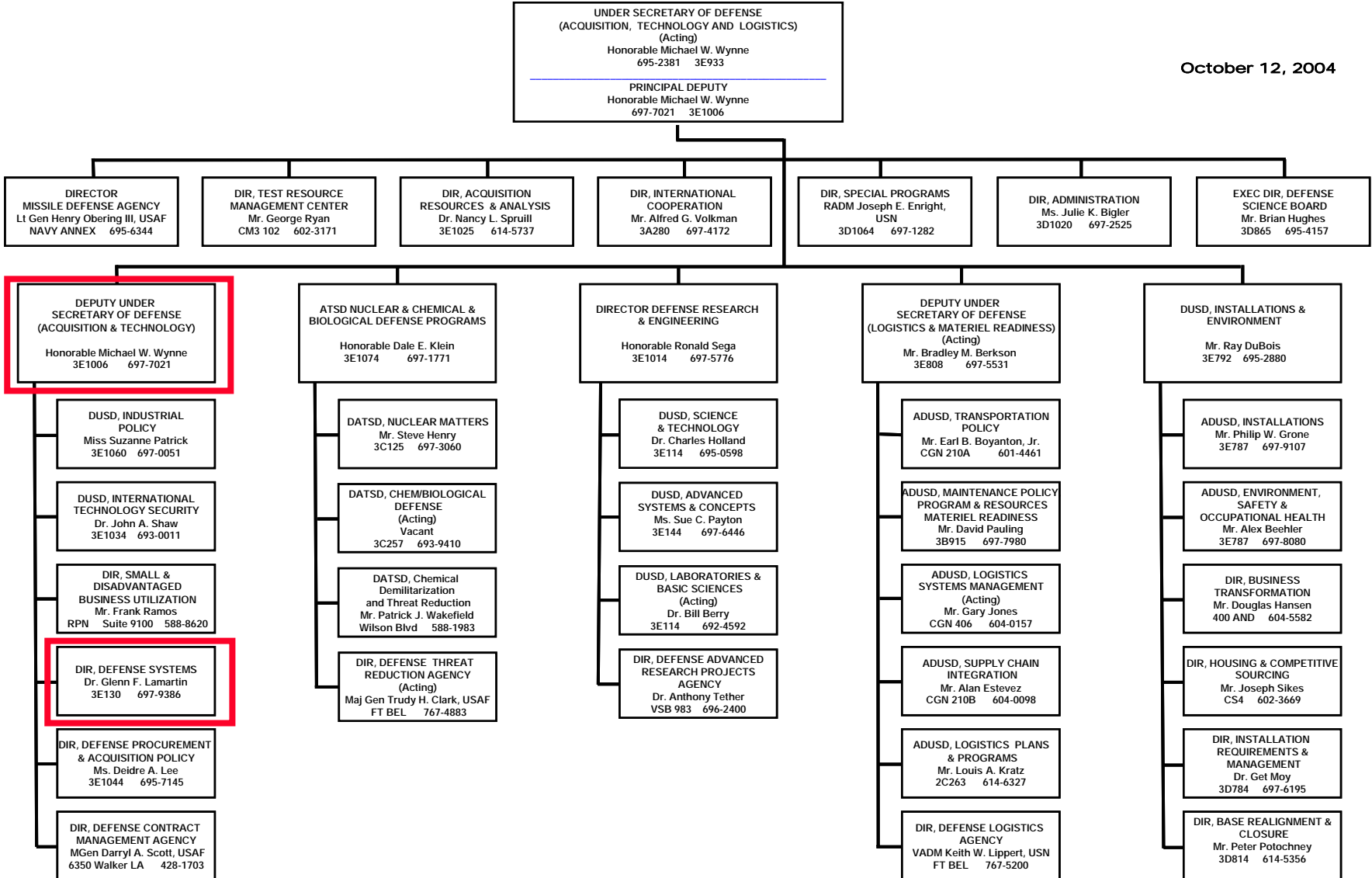


Chart reflects PAS officials and those reporting directly to the Secretary and Deputy Secretary of Defense



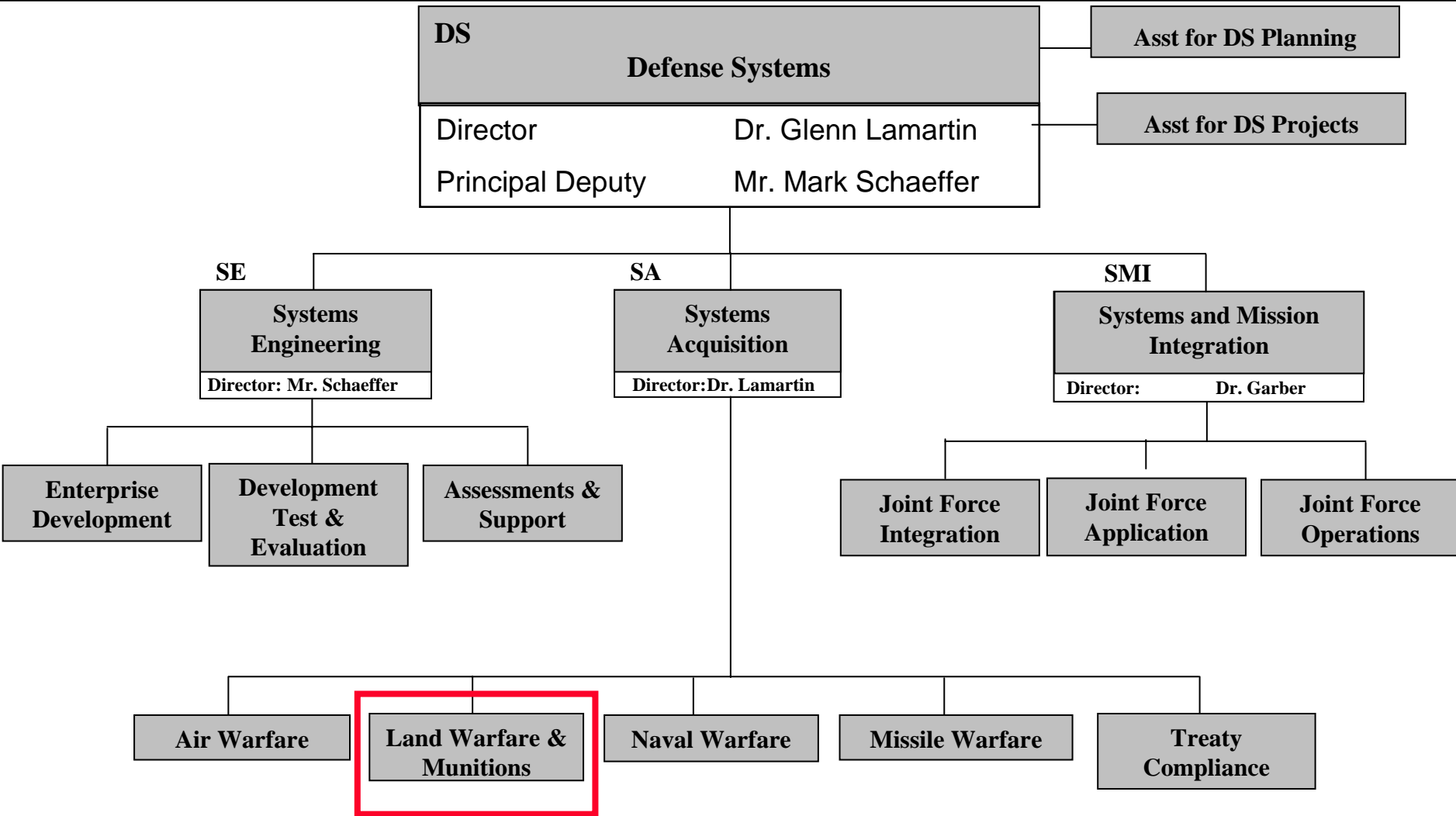
Office of the Under Secretary of Defense (Acquisition, Technology, & Logistics)

October 12, 2004





Defense Systems Organization





DoD Transformation





Transformation

- **Transforming how we fight**
 - **Joint warfighting concepts**
 - **Doctrine, organization, training, materiel, leadership and education, personnel and facilities (DOTMLPF)**
- **Transforming how we do business**
 - **Programming & Budgeting**
 - **Acquisition**
 - **Requirements**
- **Transforming how we work with others**
 - **Coordination among agencies (federal, state, local)**
 - **Homeland Security**
 - **Allied and coalition partners**



Acquisition Decision Support Systems In Transformation

CJCS 3170.01C
24 June 03



**Joint Capabilities
Integration &
Development
System (JCIDS)**
*VCJCS/Service
Chief Oversight*

MID 913 PPBS to PPBE
22 May 03



**Defense
Acquisition
System**
*Milestone Decision
Authority (MDA)
Oversight*

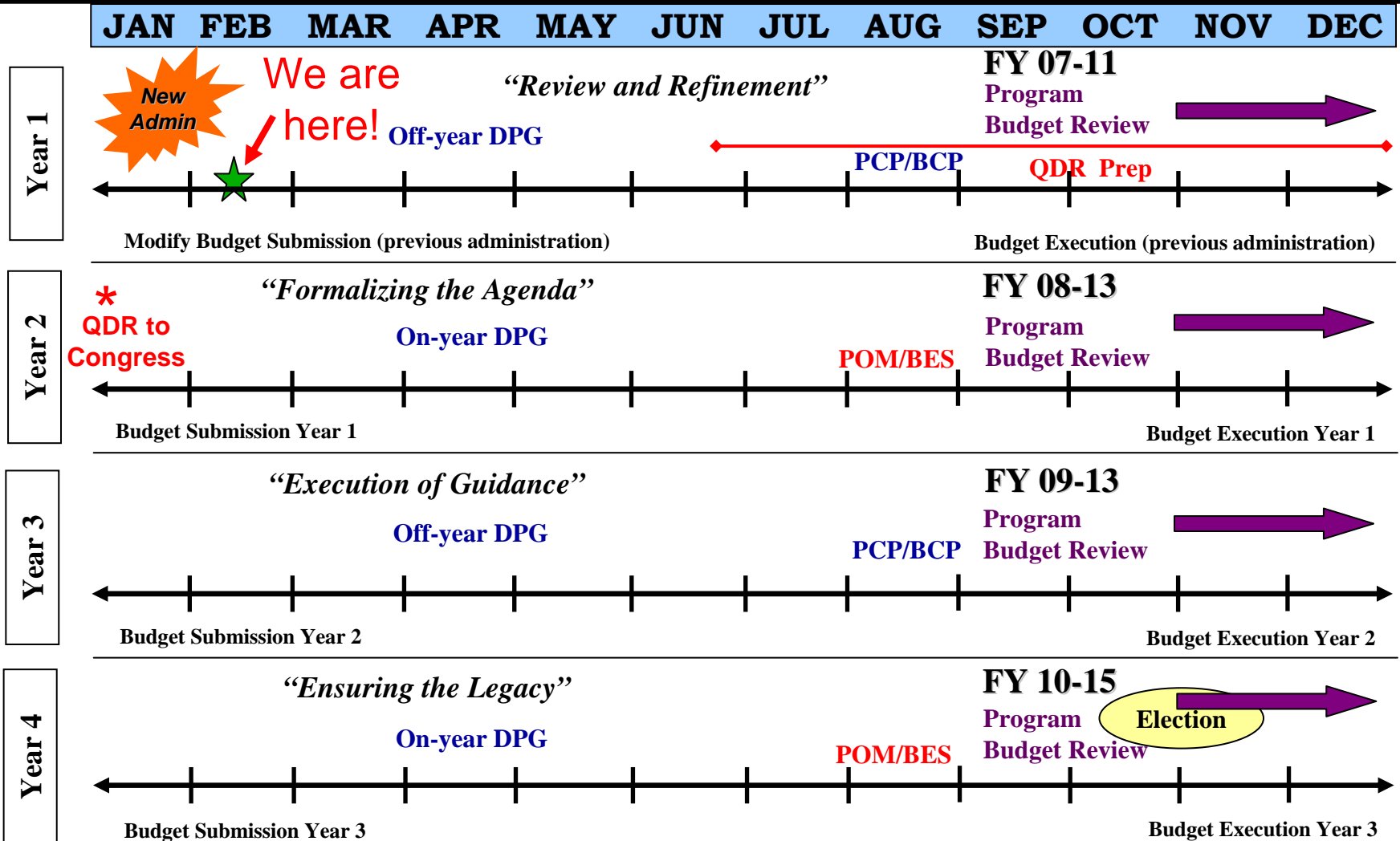
**Planning, Programming,
Budgeting & Execution
Process (PPBE)**
*DEPSECDEF
Oversight*



DoD 5000 Series
12 May 03 Revision



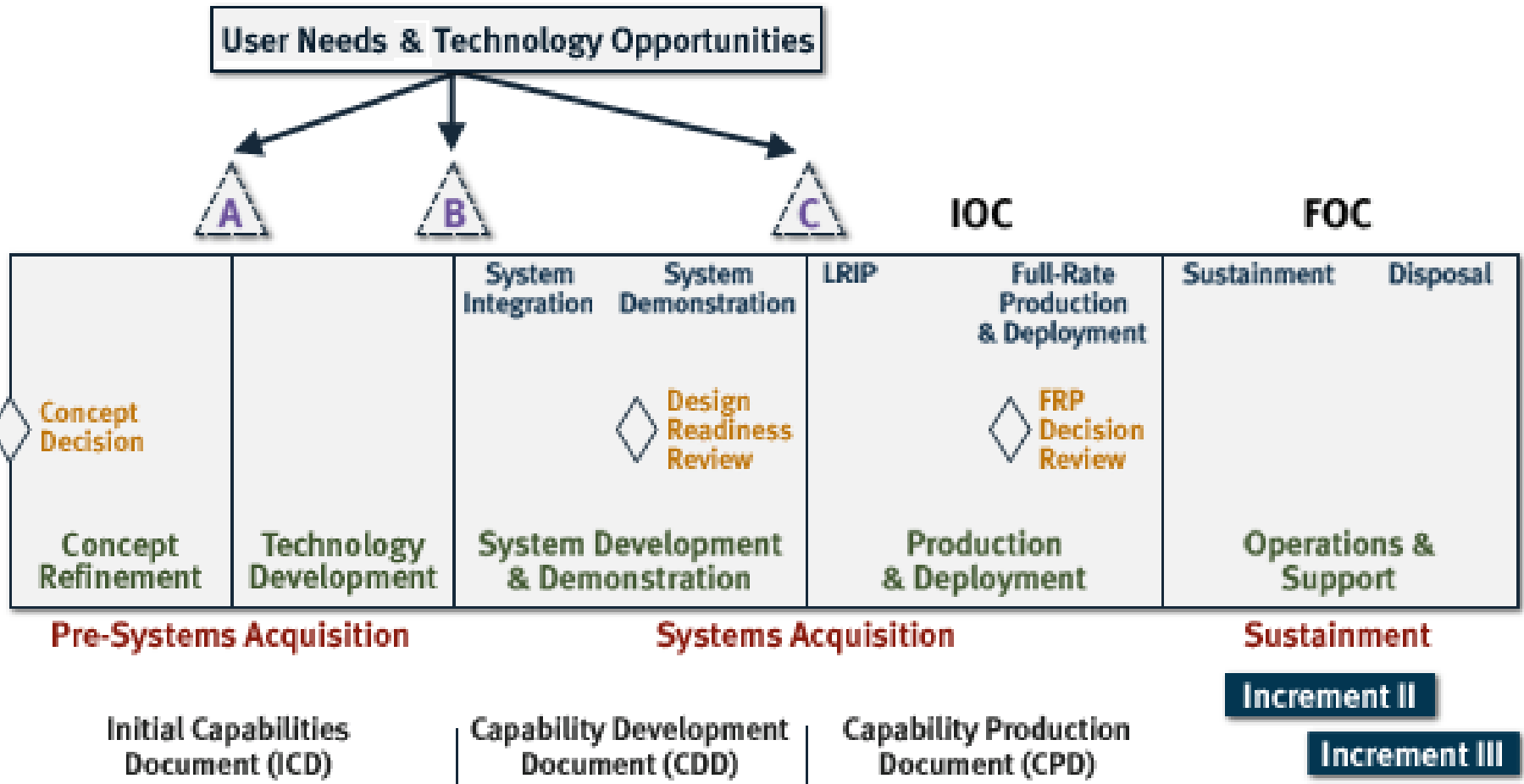
Planning, Programming, Budgeting, and Execution



4 Administration Years with 2-year PPBE Cycle



Defense Acquisition Management



Relationship to Requirements Process

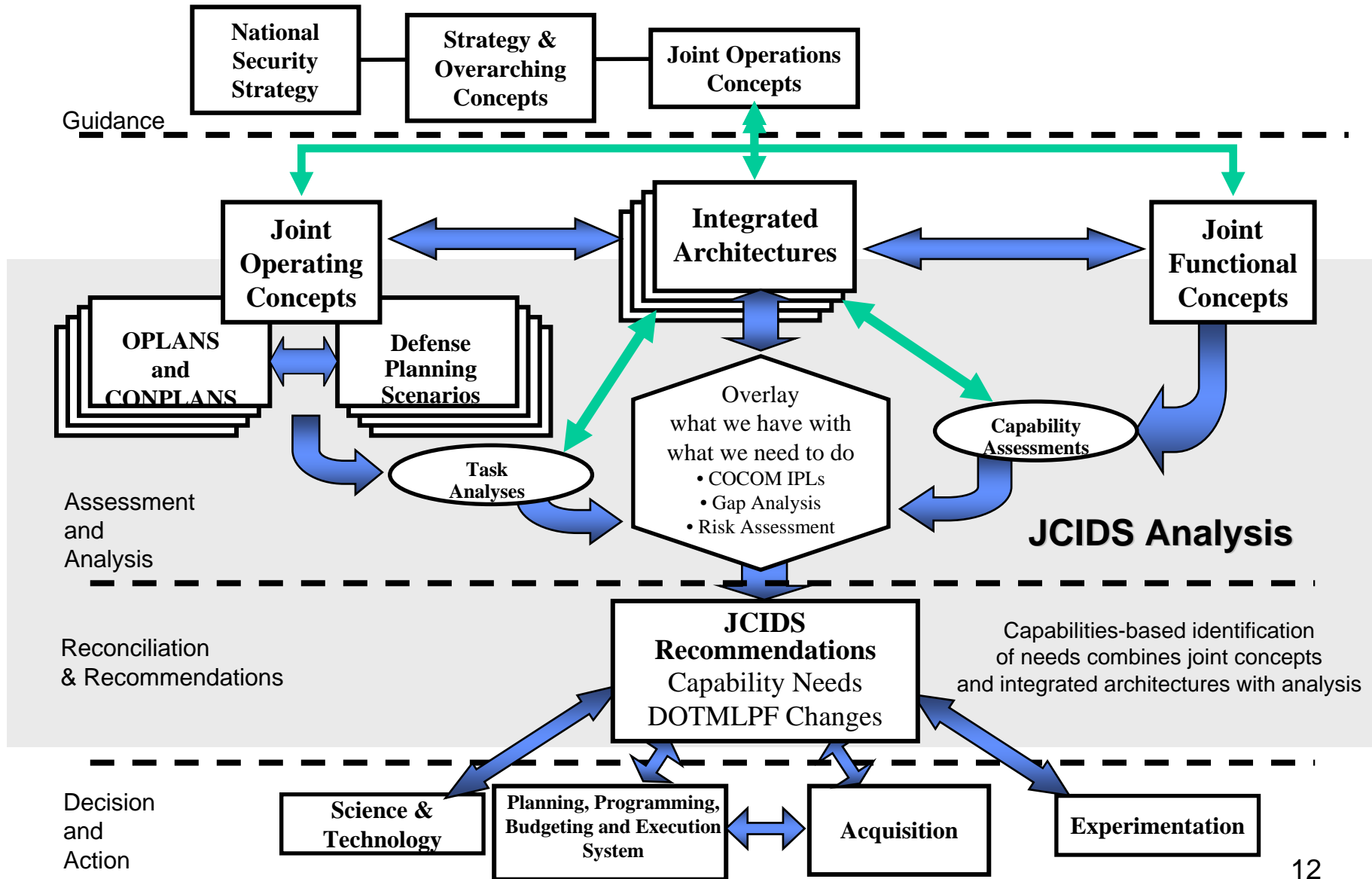


Joint Capabilities Integration and Development System (JCIDS)

- **Enhance methodology to identify and to describe capabilities gaps**
- **Engage the acquisition community earlier**
- **Better define non-material aspects of material solutions**
- **Prioritize capability gaps and proposals**
- **Improved coordination across DoD organizations**
- **Mandate broader review of capability proposals**



Future Capabilities Needs Identification Process





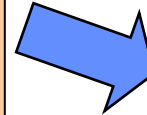
Oversight Boards

Functional Capabilities Board (FCB)

- Services
- Combatant Commanders
- USD (AT&L)
- USD (I)
- USecAF (Space)
- ASD NII/ DoD CIO
- D, PA&E
- DIA Representative (Intelligence Supportability)
- Mission requirements board Executive Secretary
- Advisory Membership
 - J-6E/I (Interoperability Advisor)
 - J-8 Warfighting Concepts and Architectures Integration
 - DoD Laboratories & Industry

Joint Capabilities Board (JCB)

Joint Requirements Oversight Council (JROC)



FCB Portfolios

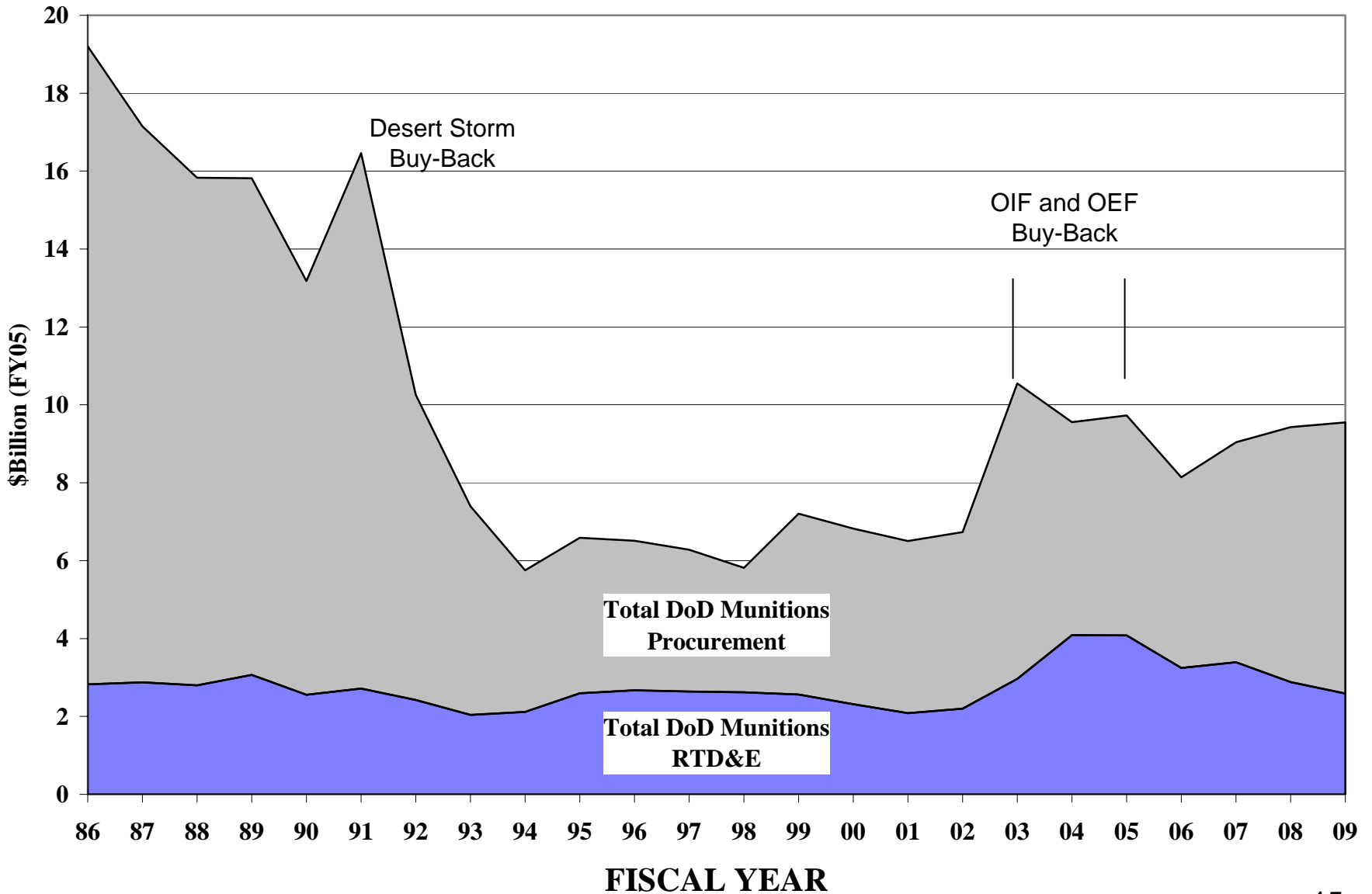
- Command Control
- Battlespace Awareness
- Force Management
- Net Centric
- Joint Training
- Force Application
- Force Protection
- Focused Logistics



Budget Trends

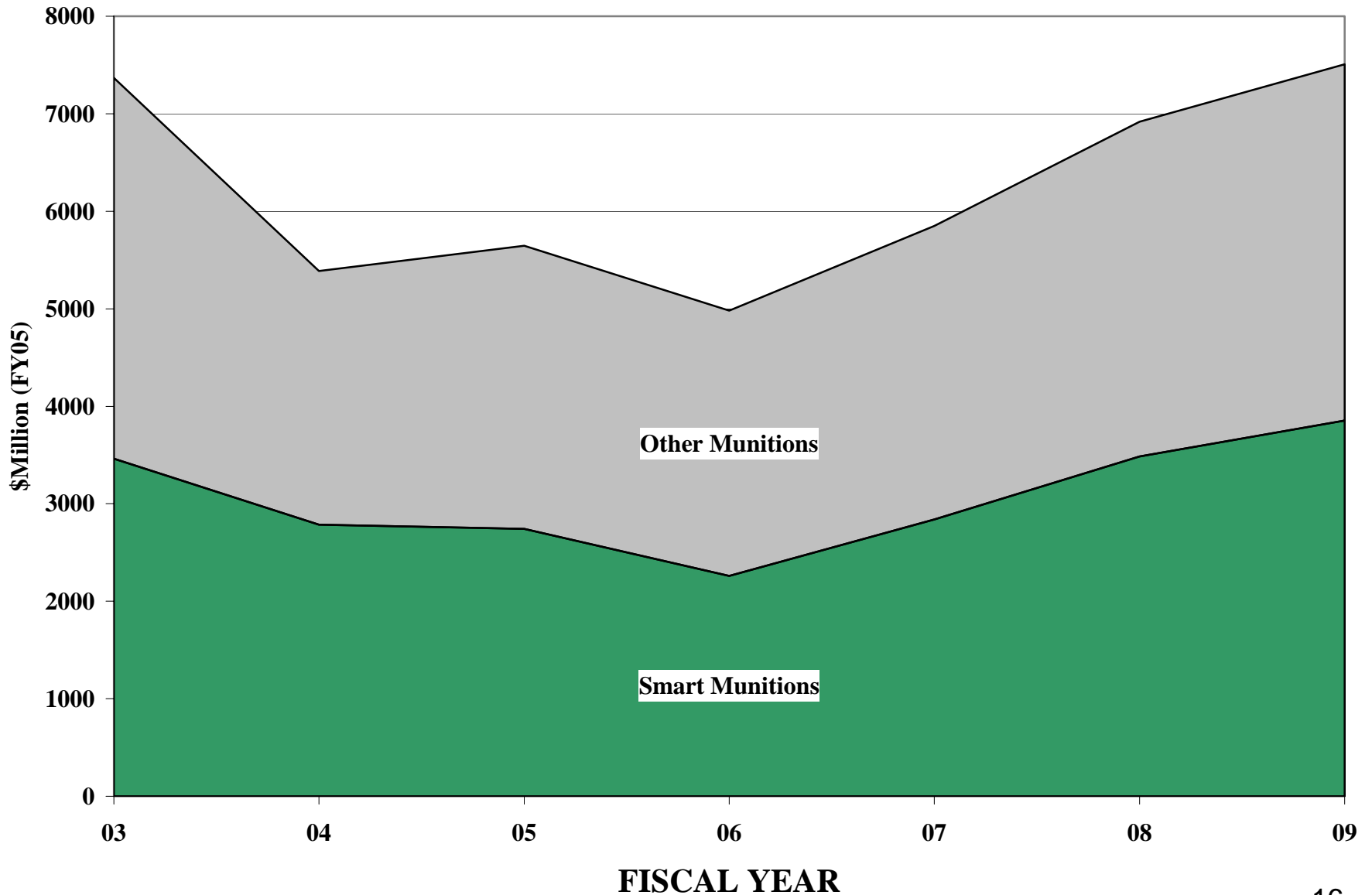


DoD Munitions RDT&E and Procurement





Smart Munitions vs. Other Munitions Procurement Trend





Munitions Initiatives

Munitions activities with OSD interest/emphasis:

- **Insensitive Munitions**
- **Modeling & Simulation**
- **Effects-Based Weaponry**
- **Fuze Technology**
- **Munitions Safety Information Analysis Center**
- **DoD Ordnance Technology Consortium**



InSENSITIVE Munitions (IM)

- **IM Technology Roadmap**
 - Manage a joint, focused S&T Strategy with the goal of developing the required technologies so that future weapon systems can become IM compliant.
 - ***STATUS: Funded in FY06. \$65M over the FYDP***
- **IM Strategic Planning**
 - Provide a management (PEO) and oversight (JROC) tool that will provide a comprehensive picture of the IM status and plans for each weapon system.
 - ***STATUS: Policy signed June 04. Plans due Feb 15.***
- **IM Certification**
 - All capabilities documents will incorporate IM as a required certification. Similar to interoperability and threat certifications.
 - ***STATUS: JROC policy signed July 04. Changes to CJCSI in process.***



Modeling & Simulation (M&S)

- Institutionalize physics based M&S for munitions design in DoD acquisition community
 - Reduce acquisition cycle time & cost
 - Reduce program risk & testing
- Emphasizing Low Collateral Damage WH, Thermobarics, and IM

Status

- \$8.3 M, 3 yr HPCMP Portfolio underway
- DoD/DOE Joint Munitions Program (\$11.3 M/yr on M&S)
- PAC-3 M&S Gap Analysis
- US/UK PA under negotiation



Effects-Based Weaponry

- **Multi-mode Warhead Technology (Miniaturized Firesets)**
- ***Selectable-yield* Warhead**
- **Low Collateral Damage Dense Inert Metal Explosive (DIME) w/Composite Case**
 - Lower pressure but increased impulse in near field
 - Far Field damage reduced (no frags/ impulse rolloff)

Status

- **DoD/DOE Joint Munitions Program Investigating Miniaturized Firesets & *Selectable-yield* Technologies**
- **DIME**
 - **Strike Weapon ½ Scale Tests completed (8/04) / full-scale Mk-82 tests just funded**
 - **DARPA funded MOUT Active Protection System against RPG's feasibility tests successful (Jan 2005)**



Fuze Technology

- **Established joint baseline of fuze technology**
- **Developed Near Term Fuze Technology Plan**
 - Focused on reduced UXO and enhanced lethality
- **Identified Long Term Fuze Technology Needs**
 - Currently developing detailed technology plans
- **Sponsored DSB Task Force on Munitions Systems Reliability**
 - Emphasis on fuze technology



Munitions Safety Information Analysis Center (MSIAC)

- **Formerly the NATO Insensitive Munitions Information Center**
- **Expands the scope from IM to munitions safety across the munitions life cycle**
- **Serves as an independent NATO “project”, but supports directly the NATO Ammunition Safety Group – AC326 in the development and promulgation of munitions safety design standards**



DoD Ordnance Technology Consortium

DoD Ordnance Laboratory Center



- OUSD (AT&L) DS/LW&M
- Department of The Army
- Department of the Navy
- Department of the Air Force
- Special Operations Command
- Defense Advanced Research Project Agency
- Defense Threat Reduction Agency
- Department of Energy
- Other Agencies and Departments

National Warheads and Energetics Consortium



- Small Businesses
- Defense Contractors
- Academic Institutions
- Non-Profit Organizations
- Not-for-Profits Organizations



Section 845
Other Transaction

Task Order Sub Agreements
CRADAs
DEAs
Contracts
Test Service Agreements

DoD and NWEC... Partnering to Leverage Capabilities and Investment



Final Thoughts.....

- Transformation of how we fight, conduct business, and work with others
- Focus on Joint Capabilities
- Highlighting Joint Technology Opportunities

Improving Business Practices and Technology Transfer to meet the 21ST Century Challenge