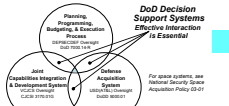
Version 5.3.2 (8 December 2008)

Integrated Defense Acquisition, Technology, and Logistics Life Cycle Management System



Following the Materiel Development Decision, the Milestone Decision Authority may authorize entry into the acquisition process at any point, consistent with phase-specific entrance criteria and statutory requirements

This chart is a classroom aid for Defense Acquisition University students. It provides a notional illustration of the interfaces among the three major decision support systems used to develop, produce, and field a system for national defense. Defense acquisition is a complex process with many more activities than shown here and many concurrent activities that cannot be properly displayed on a two-dimensional chart. Supporting information is on the back of this chart. For more information, see the Acquisition, Technology, and Logistics Knowledge Sharing System (http://akss.dau.mil).

Materiel Solution Analysis Phase

Complete Analysis of Alternatives to assess materiel solutions, identify key technologies and estimate life cycle costs. Identify materiel solution to capability need. Complete Technology Development Strategy.

MS A

Technology Development Phase

Reduce technology risk, determine and mature the appropriate set of technologies to integrate into a full system, demonstrate critical technology elements on prototypes, and complete preliminary design. Identify an affordable program or increment of militarily useful capability, demonstrate the technology in a relevant environment, and identify and assess manufacturing risks. Provide for two or more competing teams producing prototypes of the system and/or key system elements prior to, or through Milestone B.

MS B

Engineering & Manufacturing Development

Develop a system or increment of capability; complete full system integration, develop affordable and executable manufacturing process; ensure operational supportability; reduce logistics footprint; implement human systems integration; design for producibility; ensure affordability; protect critical program information; and demonstrate system Integration, Interoperability, safety, and utility.

Post-PDR A — Integrated System Design

Post-CDR A — System Capability & Manufacturing Process Demonstration

MS C

Production & Deployment Phase

Achieve operational capability that satisfies mission needs.

Low-Rate Initial Production — FRP DR

Full-Rate Production/Deployment

Operations & Support Phase

Execute a support program that meets materiel readiness and operational support performance requirements and sustains the system in the most cost-effective manner. Overlaps Production and Deployment Phase.

Life-Cycle Sustainment — IOC — FOC

Disposal

Decision Points/Milestones: MDD

Strategic Guidance

Joint Operations Concepts / Concept of Operations / Operations Plans

Capabilities-Based Assessment

Joint Capabilities Integration and Development System (need-driven)

Oversight and Review

Contracting

Major Products

Logistics/ Sustainment

Defense Acquisition System (event-driven)

Technical
Systems Engineering
Test and Evaluation
Supportability

Cost $

Cost Estimation Methods: Analogy; Parametric; Engineering; Actual Costs

Types of Funds: RDT&E – Advanced Technology Development; RDT&E – Advanced Component Development and Prototypes; RDT&E – Systems Development & Demonstration; RDT&E – Management & Support; Procurement; Operations and Maintenance

PMO POM Input

PMO Budget Estimate

Planning, Programming, Budgeting, and Execution Process (biennial-calendar-driven)

On Year / Off Year

Military Departments and Defense Agencies

Office of the Secretary of Defense and Joint Staff

White House

POM/Budget Formulation — *Changes to On Year* — December / February

POM/Budget Submit — *Changes to On Year* — August

Guidance for Development of the Force — *Off Year Optional*

Joint Programming Guidance — *Off Year Optional* — April / May

National Military Strategy; National Defense Strategy; National Security Strategy; Fiscal Guidance

ISSUES — Issue Resolution — September - November

PDM(s)

PBD Cycle — October - November

Final PBDs — November

MBI — December

DoD Budget — FYDP updated

OMB — January

President's Budget to Congress — February (1st Monday)

Appropriated Funds To Support Contracts

DoD Testimony; DoD Appeals; Allocation; Apportionment

Congress: Budget Committees; Authorization Committees; Appropriation Committees; Authorization/ Appropriation Acts Passed — February - September