

FAA ACQUISITION MANAGEMENT SYSTEM

Overview and Lessons Learned

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Presented by:

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Basis for Reform

◆ 1996 DOT Appropriations Act (November 1995)

"In consultation with such non-governmental experts in acquisition management systems as he may employ, and notwithstanding the provisions of Federal acquisition law, the Administrator of the FAA shall develop and implement an acquisition management system for the FAA that addresses the unique needs of the agency and, at a minimum, provides for more timely and cost-effective acquisitions of equipment and materials."

Basis for Reform

- "The following provisions of Federal acquisition law shall not apply to the new acquisition management system:
- > Title III of the Federal Property and Administration Services Act of 1949 (41 USC 252-266)
- ➤ The Office of Federal Procurement Policy Act (41 USC 401 et seq.)
- ➤ The Federal Acquisition Streamlining Act of 1994 (PL 103-355)
- The Small Business Act (15 USC 631 et seq.), except that all reasonable opportunities to be awarded contracts shall be provided to small business concerns and small business owned and controlled by socially and economically disadvantaged individuals.
- > The Competition in Contracting Act.
- > Subchapter V of Chapter 35 of Title 31, relating to the procurement protest system.
- ➤ The Brooks Automatic Data Processing Act (40 USC 759)
- > The Federal Acquisition Regulation and any laws not listed above providing authority to promulgate regulations in the Federal Acquisition Regulation."

Basis for Reform

◆ 1996 Federal Aviation Administration Authorization Act of 1996

"New F&E contracts that are 150% of cost goal, fail to achieve 50% of performance goals, or are 150% behind schedule are to be terminated. Administrator may continue only when termination would be inconsistent with safe development/operation of system. Actions to be justified to authorizers/appropriators.

Programs 10% over cost, that fail to achieve at least 90% of performance goals, or 10% behind schedule should be considered for termination."

Acquisition vs. Procurement Reform

- ◆ The legislative relief for the FAA in congressional language was focused on procurement reform.
- ◆ The FAA approached procurement reform in the context of reform for the entire acquisition system. Discussions on the Hill confirmed this was the correct assumption.

Blue Ribbon Committee on Acquisition

 "In consultation with such non-governmental experts in acquisition management systems as he may employ,...."

Members:

♦ Mr. Dennis DeGaetano Director of Acquisitions, FAA (Chairperson)

◆ Dr. Robert Roll Rand Corporation

◆ Dr. Ralph Nash, George Washington University

Mrs. Darlene Druyun Assistant Secretary of the Air Force for Acquisition

Dr. Jacques Gansler TASC, Inc.

Mr. Bert Concklin Professional Services Council
 Mr. Steve Kalish Computer Sciences Corporation

Dr. Steve Kelman Office of Federal Procurement Policy
 Mr. LeRoy Haugh Aerospace Industries Association

Mr. Philip. K. Howard, Esq. Howard, Darby, & Levin

♦ Mr. Matthew E. Brislawn Boeing Defense & Space Group

♦ Ms. Melissa Spillenkothen Assistant Secretary for Administration, DOT

Ms. Pat Mcnall
 Assistant Chief Counsel for Procurement Law, FAA

 Mr. John Turner
 Regional Administrator, Central Region, FAA

Mrs. Luz Hopewell Director of SDBU, DOT

Mr. Stanley Rivers Deputy Director, Airway Facilities Service, FAA

Mr. Marty Phillips Director, IOT&E, FAA

Components of Acquisition Reform



Lifecycle Acquisition Management

Integrated Product Development System

Workforce Learning

Metrics

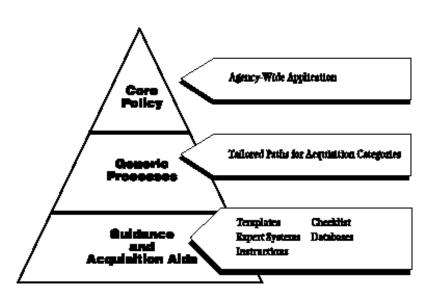
Budget Reform

Procurement

Guiding Principles - Acquisition

- Lifecycle process
- Applicable to all acquisition programs, regardless of dollars
- Applicable to systems, software, facilities, and services programs
- Lifecycle partnership between operators and providers
- More attention to Mission Analysis and Investment Analysis
- Preference for NDI/COTS
- Investment decisions at corporate level
- Program decisions at IPT level
- Little policy A lot of guidance and tools
- Integration of acquisition and budgeting processes
- Achieve 50% reduction in time, 20% reduction in cost, within 3 years
- Framework for evolutionary product development

Structure of the Acquisition Management System (AMS)



Core Policy

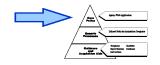
 Essential and top-level requirements (Lean and mean)

Generic Proceses

 Activity flowcharts and tailored guidance for all lifecycle phases, all types of programs

Aids and Tools

 Reference system and functional guidance for all aspects of acquisition and procurement

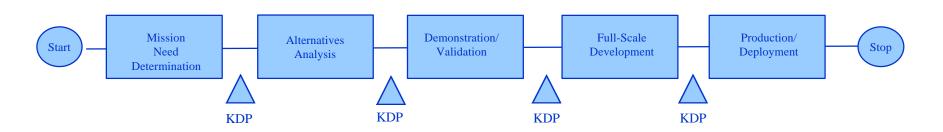


Core Policy

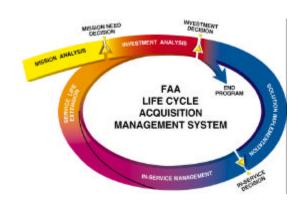
- Single policy document, "Acquisition Management System,"
 (Report to Congress) dated April 1, 1996.
- Major revision dated June 2, 1997.
- More frequent revisions will occur starting April, 1998.
- Official record of the policy is on the Internet (FAST), not on paper.

AMS Policy - A Shift in Acquisition Philosophy

From Linear:

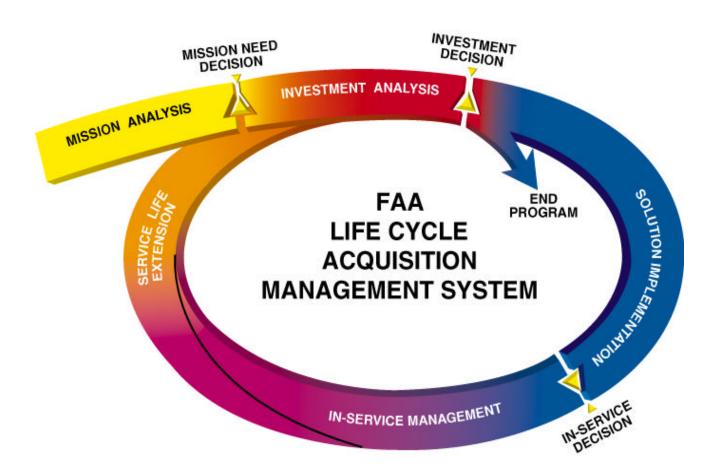


To Life Cycle:

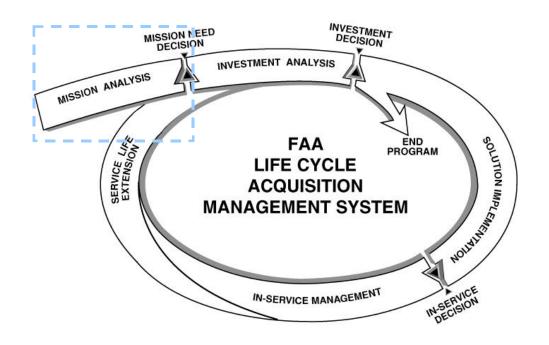


- •One seamless lifecycle acquisition system
- Continuous technology refresh
- •Partnership throughout between users and providers

Lifecycle Acquisition Management Process



Mission Analysis



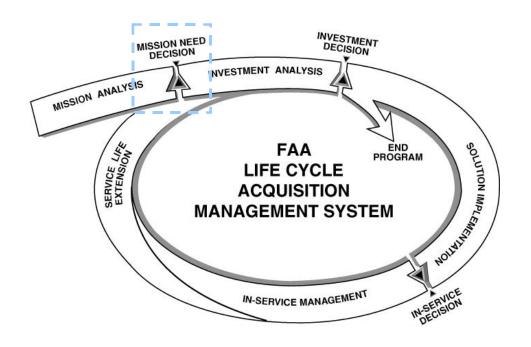
Continuous analytical function

Focus on user needs, technology opportunities, concepts of operation, and NAS Architecture

Participation by users, customers, developers, industry, unions, etc.

Each line of business conducts mission analysis

Mission Need Decision



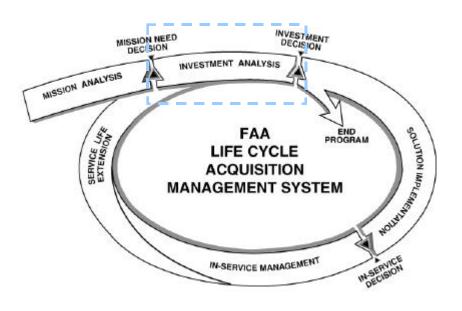
Joint Resources Council (JRC) Decision:

- ✓ Approve mission need
- ✓ Prioritize need against all other Agency needs
- ✓ Authorize proceed into Investment Analysis

JRC Chairperson:

Associate Administrator, line- of-business with the need

Investment Analysis



Requirements-driven process

Preference for commercial and nondevelopmental solutions

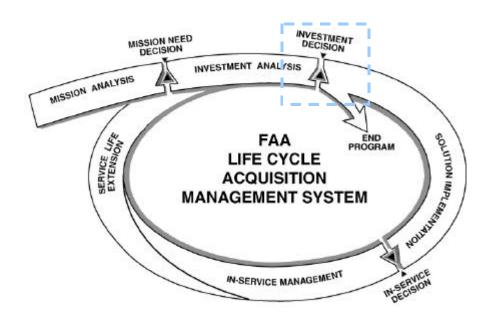
Sponsor/developer/IA staff teams determine best solution to meet needs and requirements

Stresses affordability at investment decision. Do not establish program without identified funding

Acquisition Program Baselines developed for candidate solutions

Corporate-level decision

Investment Decision

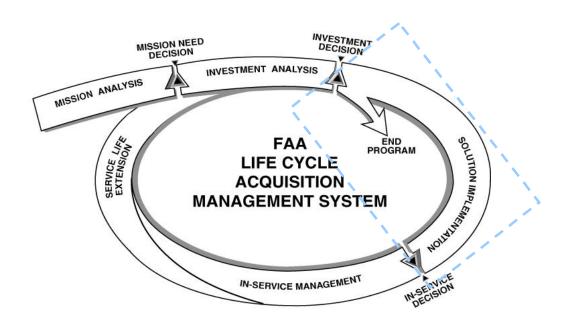


JRC Decision

- ✓ Select solution
- ✓ Establish and fully fund (LCC) acquisition program
- ✓ Establish program baseline (cost, schedule, performance, benefits)
- ✓ Assign and empower IPT
- ✓ Define any future Corporate involvement in program decisions

JRC Chairperson: Acquisition Executive

Solution Implementation



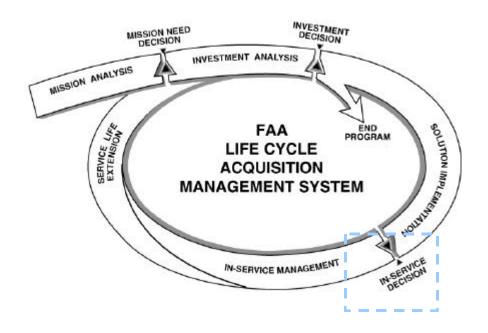
Conducted by IPTs with members from developers, operators, users, customers, unions, etc.

IPT manages program within cost, schedule, performance, benefit baselines

Program decisions made by the IPT

Baseline (APB) changes go to JRC.

In-Service Decision



Decision Authority determined at Investment Decision by JRC

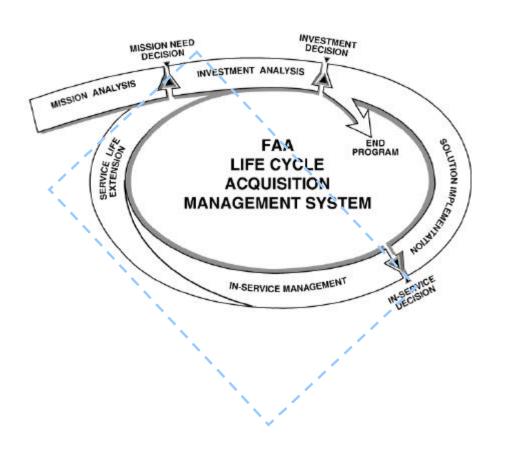
Required for all programs that field equipment or systems in the National Airspace System

Normal decision authority will be IPT

The line of business with the need will independently monitor, provide guidance, raise concerns, and brief the decision authority.

Office of IOT&E provides independent determination of operational readiness to decision authority

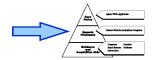
In-Service Management



Focus on continuous product evolution and improvement

IPT remains responsible for fielded products (latent,
defects, upgrades, P³I,
sustainment, service lifeextension)

Partnership among operators, maintainers, and lifecycle IPT



Generic Processes

- ◆ Tailored Activity Flowcharts with supporting links for every activity in the acquisition lifecycle phase, such as
 - Activity description
 - Who Does?
 - Who Approves?
 - Product
 - References
 - Documents
 - Policy
- Processes include:
 - Mission Analysis
 - Investment Analysis
 - Solution Implementation
 - » Systems and Software (4 variations)
 - » Facilities (2 variations
 - » Services (3 variations)
 - » Others to be developed
 - JRC Process
 - Best Practices sub processes
- All processes available in FAST



Aids and Tools

- Computer-based Reference System
- ◆ Functional Disciplines Guidance (HF, CM, RM, T&E, etc.)
- Document Guidance and Templates
- References
- Procurement Toolbox
 - Guidance
 - Contract Writing Tool
 - Clauses
 - Forms
- ODR Information
- Links to outside Web Sites
- Lessons Learned
- Past Performance database
- Metrics

FAA Acquisition System Toolset (FAST)

- ◆ The OFFICIAL single source for acquisition policy, guidance, generic processes, aids, and tools
- Replaces Paper documents
- Always current
- Internet-based (http://fast.faa.gov)
- One stop shopping
- Organized for easy access of the right information at the right time
- Access at every workstation
- Changes done under Configuration Management

Components of Acquisition Reform

Lifecycle Acquisition Management



Integrated Product Development System

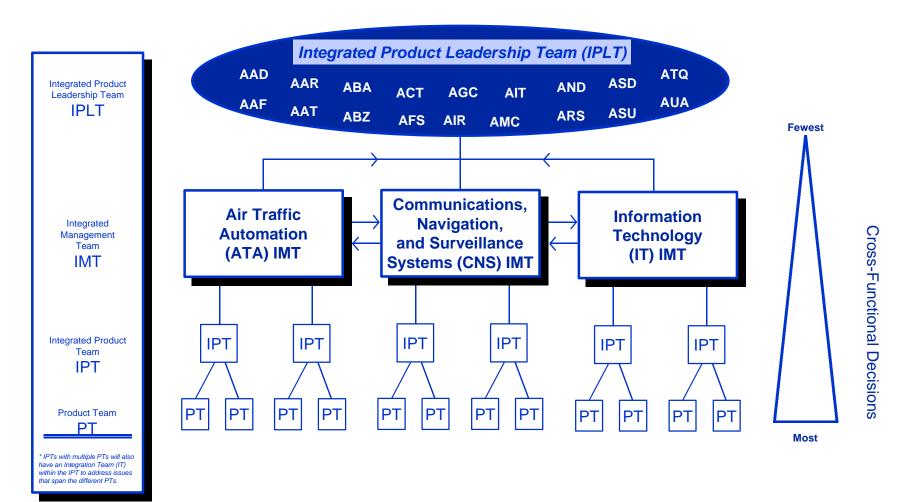
Workforce Learning
Metrics

Budget Reform
Procurement

Integrated Product Management System (IPDS)

- Implementing arm of AMS
- A comprehensive teaming approach that emphasizes lifecycle acquisition, cross-functional collaboration, and shared accountability
- All stakeholders are represented on the teams
- ◆ Empowerment to the lowest possible team level
- Teams leading teams
- IPT leadership typically shifts over time

IPDS Model



Components of Acquisition Reform

Lifecycle Acquisition Management
Integrated Product Development System



Workforce Learning

Metrics

Budget Reform
Procurement

Workforce Learning System

- Identifies, maintains, and continuously assesses workforce capabilities
- Acquisition Executive is responsible for level of competence of the acquisition workforce
- Little acquisition and procurement policy and lots of guidance relies on increased competence of people
- The FAA Intellectual Capital Investment Plan (ICIP) is coupled with other agency planning documents
- Competencies, and the assessment of current skill inventory, under development
- Encourages self-directed assessment and learning

Components of Acquisition Reform

Lifecycle Acquisition Management
Integrated Product Development System
Workforce Learning

Metrics

Budget Reform
Procurement

Metrics

- Acquisition Program Baseline is primary program control mechanism (Cost, schedule, requirements, benefits)
- ◆ Benefits are part of APB and must be managed
- ◆ Emphasis on compliance with Government Performance and Results Act of 1993 (GPRA)
- ◆ FAA organizational Performance Plans are directly linked to acquisition program metrics

Components of Acquisition Reform

Lifecycle Acquisition Management
Integrated Product Development System
Workforce Learning
Metrics

Budget Reform

Procurement

Budget Reform

Not Realized

Needed:

- Mission Analysis budget line item (Non-program specific)
- Investment Analysis budget line item (Non-program specific)
- Start-up funds for new programs
- Operations Appropriation Plan for acquisition programs
- FUNDED Congressional mandates and add-ons
- Stable and reliable funding

Lessons Learned - Lifecycle Acquisition Management

Going Well

- Cross-functional involvement of users and providers in all aspects of lifecycle (Stovepipes breaking down, more collaborative decisionmaking)
- Acquisition Program Baselines being established for all programs
- Development and use of FAST, the official single source of all acquisition policy, process, and guidance. Increased development of FAA standardized guidance and processes.
- ◆ Improved top-level agency mission focus. (Concepts of Operation, NAS Architecture, Performance Plans, JRC and IPLT commitment)
- ◆ FAA acquisition program decisionmaking working well and saving time without formal OST oversight and approval.

Lessons Learned - Lifecycle Acquisition Management

Needs Improvement

- Organizational cultural change
- Management understanding and advocacy for AMS
- Discipline in the execution of acquisition policy
- Understaffed Investment Analysis capability
- Unstable program baselines Internal and external causes
- Weakness in certain functional capabilities (Risk Management, EVM)
- ◆ In-Service Management teaming of Users/Maintainers with IPTs
- Budget Reform
- Metrics for all components of acquisition lifecycle
- **◆** Implementation of Learning System

Components of Acquisition Reform

Lifecycle Acquisition Management
Integrated Product Development System
Workforce Learning
Metrics
Budget Reform

> Procurement

Guiding Principles - Procurement

- Enable the selection of contractors with best value
- Focus on key discriminators in source selection
- Open communications with offerors
- ◆ Competition is the preferred method Single source when necessary
- Internal process to resolve protests and disputes
- ◆ Source selection authority at IPT level, or lower
- Combine little policy, much guidance, and common sense business judgment
- Simplified/commercial procurement process
- Direct, competition-based small business utilization program

Procurement Reform Features

- Flexibility to tailor process to circumstances
- Open and tailored communications/discussions with offerors
- Reasonable competition focuses on offerors most likely to receive an award
- Use of Qualified Vendor's Lists (QVL)
- Tailored source selection procedures
 - Innovative proposal methods (Oral proposals, prequalification, etc.)
 - Use of best value selection criteria (e.g. past performance and cost)
 - Use of Internet
 - Shortened proposal submission times
- Direct competition-based small business process
- Source Selection Authority at IPT Leader-level or lower
- Internal protest and dispute resolution process
- Encourages common sense contracting instead of reliance on rigid FAR rules
- Expanded use of credit cards and third party drafts consistent with prudent business practice

Procurement Tools - On-line

- Electronic policy and guidance
- Contract Writing Tool
- Program Document templates
- Contract clauses and guidance
- Lessons Learned Database
- Contractor Past Performance Database
- Electronic Forms
- Office of Dispute Resolution Decisions and Orders
- Contracting opportunities system

Procurement Protests and Disputes

- ◆ Internal Office of Dispute Resolution handles cases
- ◆ Substantially more protests compared to pre-AMS. Majority have been withdrawn, dismissed, or settled.
- Approximately same number of disputes as pre-AMS. 75% have been settled.
- ◆ Lack of clear process and inadequate staffing, now corrected, caused early problems and numbers of cases.
- Status of all protests and disputes available on FAST Internet site.
- Open and frequent communications is a benefit.

Contract Statistics

New contract awards (18 month period to, and after, AMS)

	<u>Pre-AMS</u>	<u>Post-AMS</u>
Small Business (includes 8(a)/SEDB)	76%	75%
8(a)/SEDB	26%	15%
Competitive	55%	73%
Single Source (excludes 8(a)/SEDB)	18%	22%

Lessons Learned - (What IPTs experience)

- ◆ \$15M competitive award made in 6 weeks from public announcement using downselect process and team.
- Meaningful market surveys save solicitation and evaluation time and improves quality of solicitations and proposals.
- ◆ The Internet is invaluable for issuing SIRs.
- Oral proposals have reduced evaluation time and provided the source selection team an opportunity to observe how their key personnel will operate.
- Vendor participation in developing specifications and SOW has resulted in quality proposals and reduced costs to offerors.
- Qualified Vendor Lists provide for quick awards in repetitive, simplified requirements and reduces vendor costs.
- Flexible public announcement times allows the IPTs to tailor the process to the requirement.

Lessons Learned - Procurement

Going Well

- Flexibility has significantly reduced procurement lead time, from solicitiation to award
- Cost savings for industry to bid
- Open communications permits better understanding of FAA requirements by industry
- Simplified procedures being used whenever possible
- Prequalifying vendors for routine/repetitive requirements is resulting in more competent contractors

Lessons Learned - Procurement

Needs Improvement

- Training and awareness
- Risk taking and innovation by Contracting Officers.
- Break FAR habits
- Understanding of protest and dispute resolution process by vendors
- Understanding and use of Internet (FAST)
- Cultural change

Joint Resources Council (JRC)

Makes corporate-level decisions, as follows:

- Mission Need Decision
- Investment Decision
- APB change decisions
- Approval of the FAA budget submissions
- Approval of the National Airspace System (NAS) Architecture

Membership

- Associate Administrators for each line of business (Air Traffic Services, Airports, Regulation & Certification, Civil Aviation Security, Administration, Commercial Space Transportation, Research & Acquisitions)
- Acquisition Executive
- Assistant Administrators for System Safety, & Policy, Planning, and International Aviation
- Chief Financial Officer
- Legal Counsel

Acquisition Planning and Control Documents

- Mission Need Statement
- Requirements Document
- Investment Analysis Report
- Acquisition Program Baseline
- Acquisition Strategy Paper
- Integrated Program Plan