

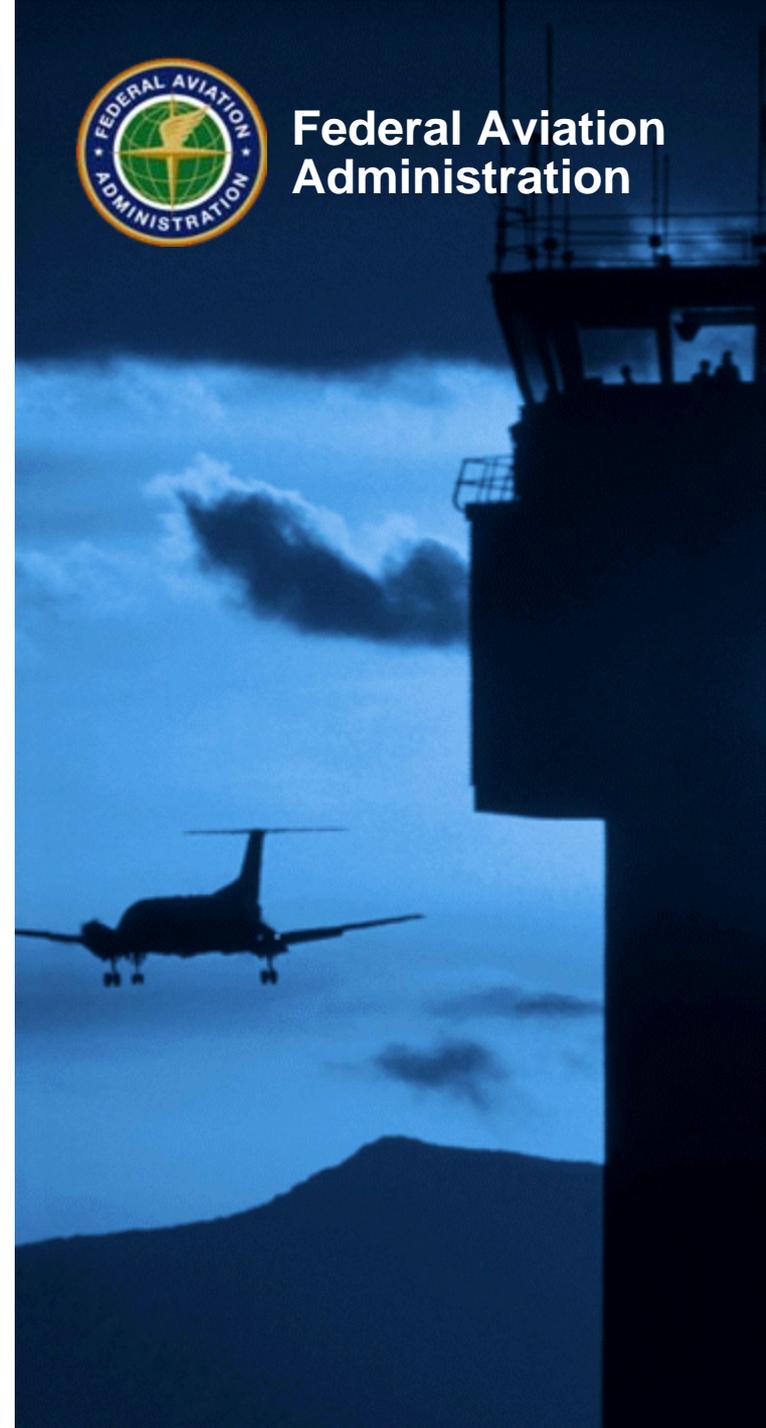
Acquisition Management System and the Enterprise Architecture

Presented to: Enterprise Architecture Conference

Date: June 23-25, 2009



**Federal Aviation
Administration**



AMS Lifecycle and Enterprise Architecture

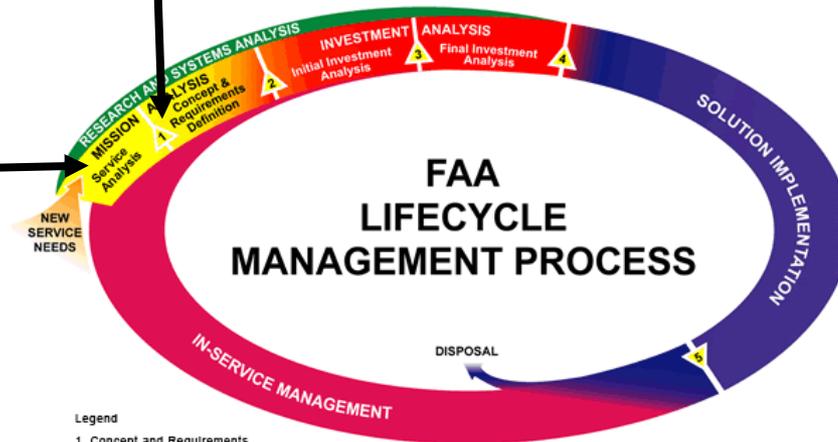
- Enterprise architecture (EA) defines operational and technical framework for all capital assets and strategic investment plan for FAA
- Service organizations perform service analysis to determine what capabilities must be in place now and in the future to meet FAA goals and service needs of customers and to move planning forward each year.
 - Results are captured in the EA roadmaps
 - EA roadmaps specify what action must be taken and when
- When EA roadmap requires action, the AMS defines the process for planning, analyzing, selecting and implementing capital investments to satisfy the need described in the EA



AMS Lifecycle and Enterprise Architecture

EA roadmap initiates entry into AMS lifecycle processes

Services analysis provides input into EA



Legend

1. Concept and Requirements Definition Readiness Decision
2. Investment Analysis Readiness Decision
3. Initial Investment Decision
4. Final Investment Decision
5. In-Service Decision



Concept and Requirements Definition and EA

- When an EA roadmap specifies action must be taken, ATO Systems Engineering works with service organizations to prepare a plan for concept and requirements definition
- Concept and requirements readiness decision verifies need is highest priority investment opportunity within an EA roadmap and that planning and resources for concept and requirements definition are in place
- Concept and requirements definition:
 - Translates EA operational needs into preliminary requirements and a concept of use
 - Identifies preliminary alternatives able to satisfy the service need (one of which must be the alternative in the enterprise architecture)
- When a service organization wishes to pursue an alternative not in the EA, it must develop architectural change products and amendments



Investment Analysis and EA

- Initial investment analysis
 - Requirements and alternatives are evaluated and further refined and assessment of affordability is conducted
 - Business case built for each alternative (one must be from EA)
 - As necessary, EA products and amendments are prepared
- Final investment analysis
 - Alternative to be implemented is planned and baselined
 - As necessary, EA products and amendments are prepared
 - Program planning includes ISPD, program WBS, and APB, as well as contract planning, solicitation, and evaluation



Contracting Activities and EA

- During final investment analysis, contract specification/statement of work is derived from the final requirements document for the selected alternative
- Contract planning activities can include market surveys, industry days, one-on-one meetings, requests for information, and vendor demonstrations
- Open communication with vendors is encouraged to promote mutual understanding of FAA's requirements and vendor capabilities
- Contract solicitation and evaluation is conducted to help construct the acquisition program baseline which is approved at the final investment decision



Solution Implementation and EA

- After final investment decision, detailed program planning is finalized
- Specific activities vary based on nature of program and include contract award and administration, program management, resource management, risk management, systems engineering, logistics support, facility and infrastructure modifications, test and evaluation, and site acquisition and adaptation
- Solution implementation activities drive toward an in-service decision and deployment of the needed capability



Questions?

