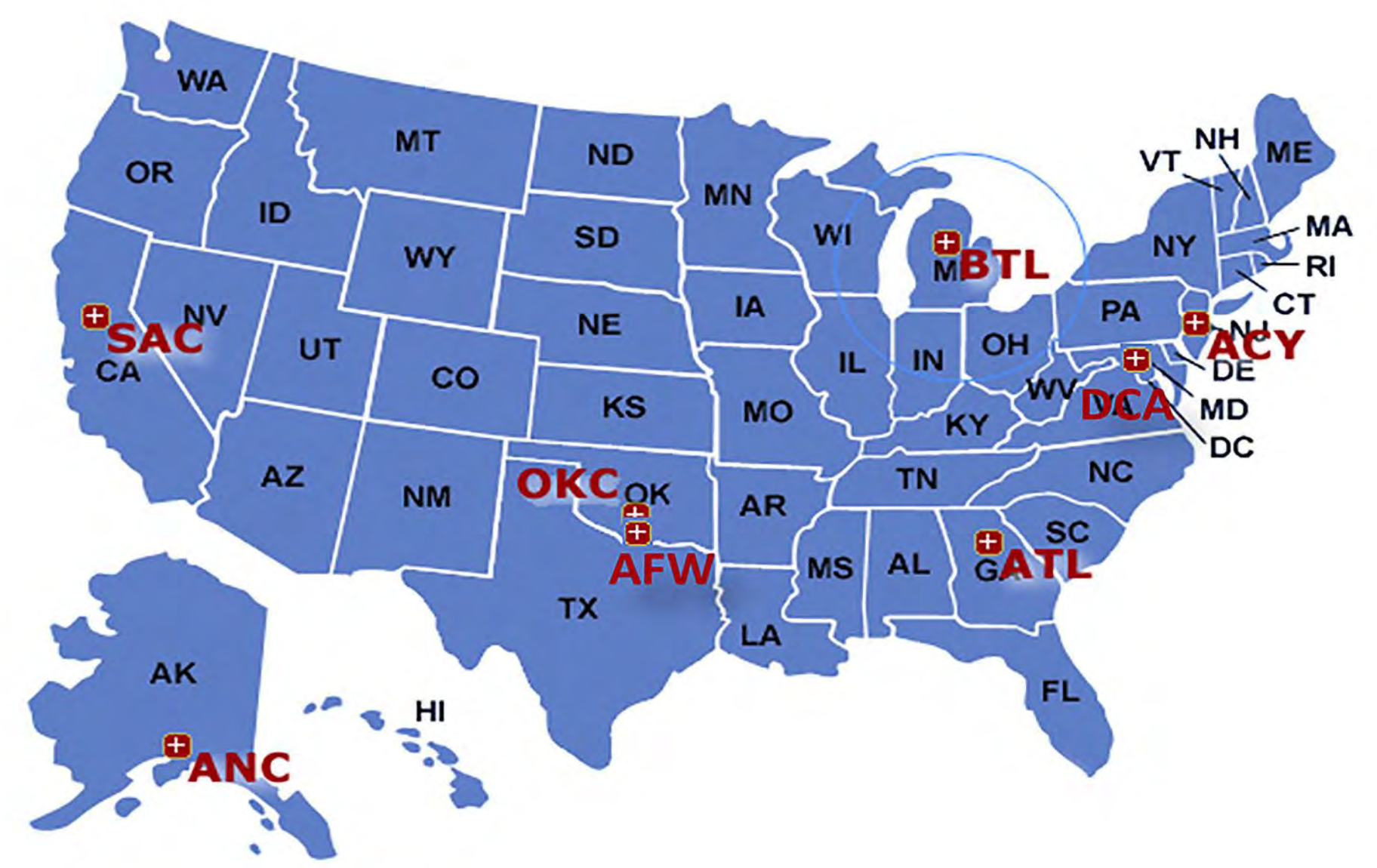


Fleet Assessment/Modernization Study

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Background

A plan for aircraft acquisition or aircraft replacement is an important part of an organization's strategy. The plan involves when and how many different fleet assets should be purchased, leased and/or replaced. Recently both commercial and federal organizations have evaluated their existing fleet and acquisition strategies to align better with their mission profiles. Federal Aviation Administration (FAA) Flight Program Operations is one of those organizations. Their current fleet is comprised of 12 makes/models, including 8 types of aircraft systems with a total population of 46 platforms. The FAA established Flight Program Operations within the Air Traffic Organization to consolidate six legacy flight programs into a single operations organization. As a result of this consolidation, which realigns/combines employees, aircraft, and resources, an assessment of all affected areas was necessary.



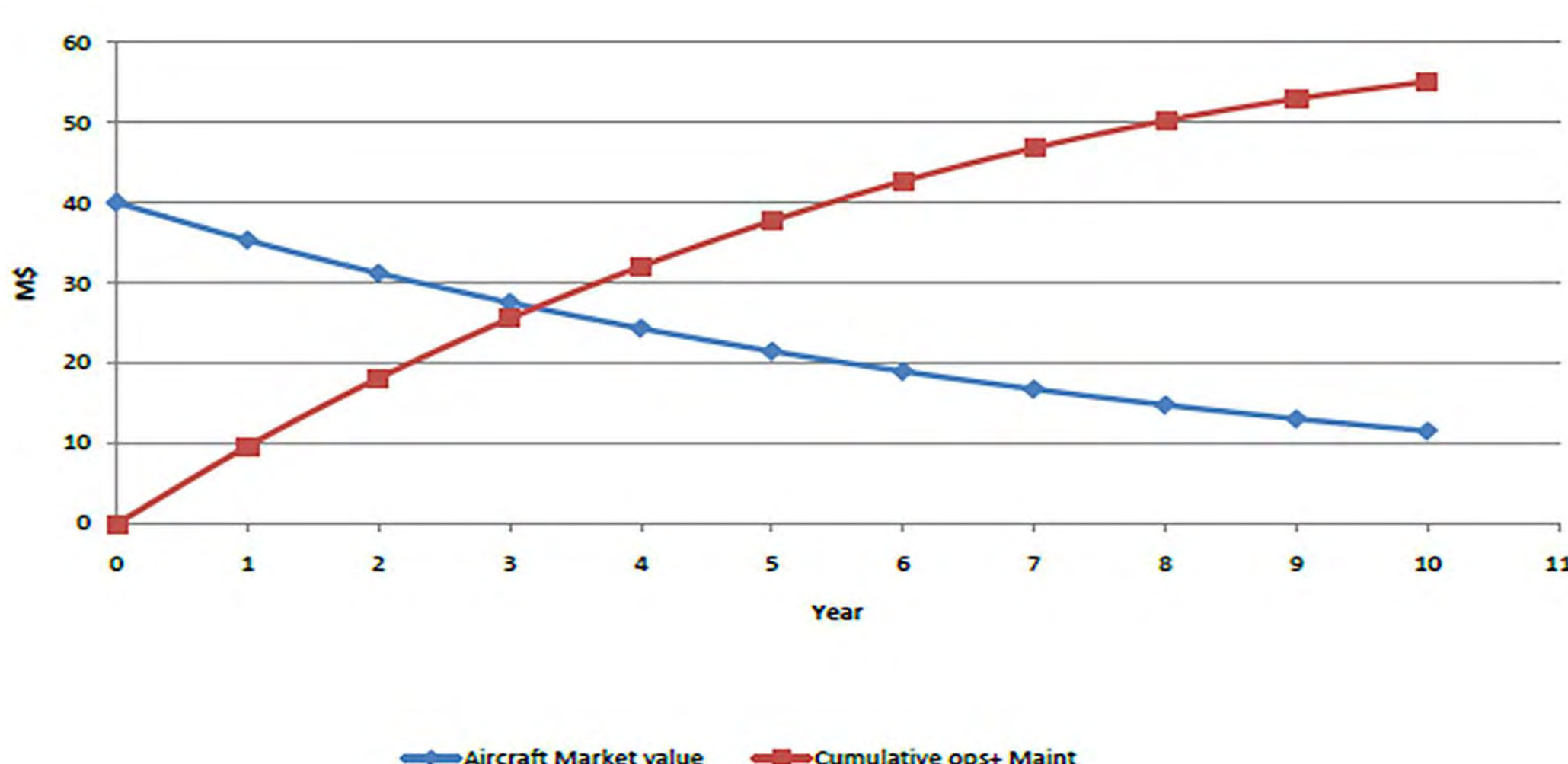
Flight Program Operations Facilities Nationwide



FAA Flight Program Aircraft Fleet

Research Focus area

- Offer recommendations on fleet modernization, including fleet consolidation and acquisition strategies based on aircraft performance and market evaluations
- Develop aircraft replacement strategies and construct models according to mission needs
- Conduct a comprehensive analysis of current fleet composition in different locations in relation to mission needs and requirements
- Consolidate assigned mission profiles into fewer aircraft platforms



Aircraft Market Values & Cumulative Operations and Maintenance Cost

Method

- Review the current program mission, facilities, aircraft fleet and needs
- Review literature on fleet planning and replacement strategies
- Develop aircraft replacement strategies and build optimization and simulation models based on missions and requirements of Flight Program Operations
- Identify number and type of aircraft fleet, determine strategies on purchase, lease and replacement based on planning period of FAA
- Recommend maintenance strategies and manpower plan for the proposed fleet