

Program Structure

Logan Airport

Maritime

Worcester Airport

Hanscom Field

Agency Wide

Logan Airside Logan Landside Logan Intermodal Logan Mitigation Black Falcon
Conley Terminal
Dredging
Fish Pier
Hoosac Pier
Maritime Other
Moran Terminal
Real Estate
Development
WTC/S. Boston
East Boston

Worcester Airside Worcester Landside Hanscom Airside Hanscom Landside Administration
Capital Programs
Data Storage
FARS
Information Systems
Network Operations
System Operations
Systems Security
Telecommunications
Resiliency



Program Evaluation

Project Evaluation Criteria

- Safety and Security
- Asset Maintenance
- Operational Efficiencies
- System Enhancement/ Customer Service
- HOV/Ground Access
 Improvements
- Commitment to Surrounding Communities

Financial Evaluation Criteria

- Grants and Outside Funding
- PFC Eligibility
- Cost Recovery
- Rates and Charges Impact
- Credit Rating Impact

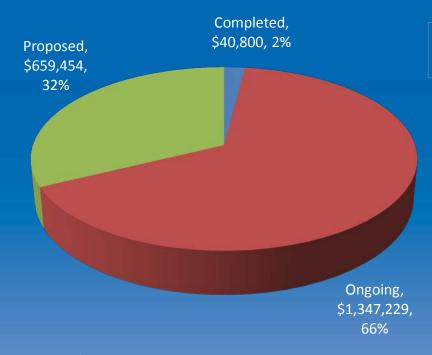
Complement and Support Strategic Plan





Proposed FY17 – FY21 Capital Program

	As of FY16	FY17	FY18	FY19	FY20	FY21	FY17-21	FY22+	Total Cost
Grand Total	\$829,126	\$443,809	\$402,319	\$426,846	\$367,042	\$407,467	\$2,047,483	\$452,706	\$3,329,315.41



FY16-FY20 Total: \$1,736,951 An Increase of 18%

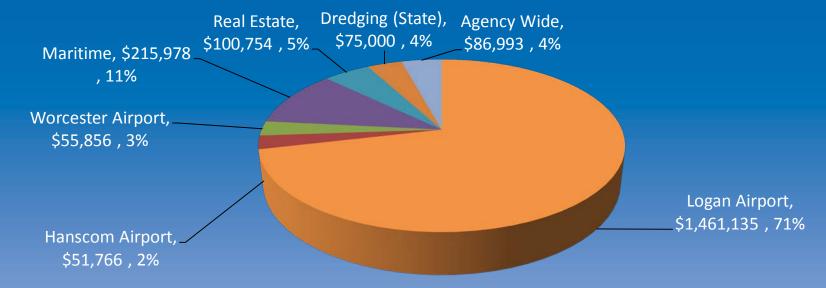
- Contingent on Funding Source (CFS): \$276,117M
- Unfunded Projects: \$989,154M
- Total: \$1,265,271M





Capital Program by Facility

Project	FY17-21	Current Program %
Logan Airport Total	\$1,461,135	71.36%
Hanscom Airport Total	\$51 <i>,</i> 766	2.53%
Worcester Airport Total	\$55,856	2.73%
Maritime Total	\$215,978	10.55%
Real Estate Total	\$100,754	4.92%
Dredging (State Portion)	\$75,000	3.66%
Agency Wide Total	\$86,993	4.25%
Grand Total	\$2,047,483	100.00%







Proposed FY17 – FY21 Capital Program

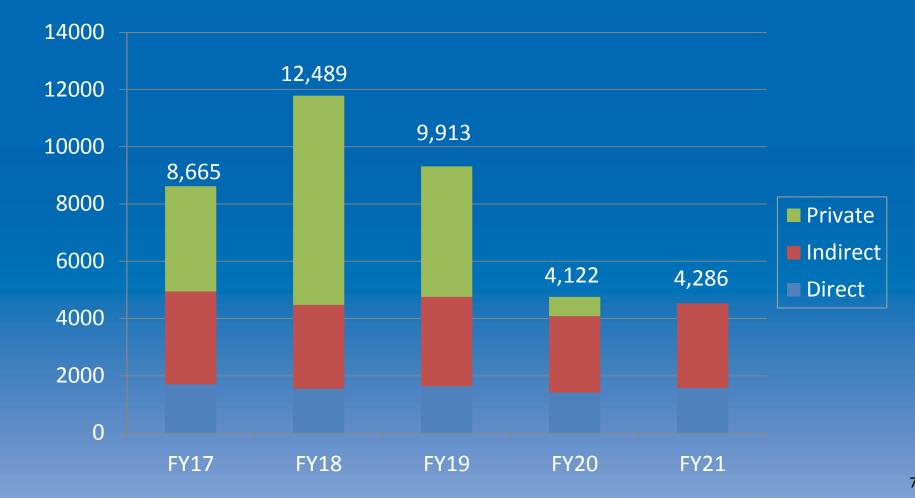
Element	Value
Total Projects	358
Total Program	\$2,047M
Private Funds	\$1,458M
Total and Private Funds	\$3,505M
Contingent on Funding Source (CFS)	\$276M
Unfunded	\$989M





Economic Impact by Year

Estimated Job Creation (FTEs): Total 39,012







Capital Program Composition

- New/Improvements
 - Airside: Logan, Hanscom, Worcester
 - Landside: Logan, Hansom, Worcester, Maritime,
 Agency Wide
- State of Good Repairs
 - Airside: Pavement Condition Index
 - Landside: Facility Condition Index





Capital Program Composition

Airport Assets

Current Replacement Value (CRV)

Renewal (State of Good Repairs) Projects (2.5% of CRV)

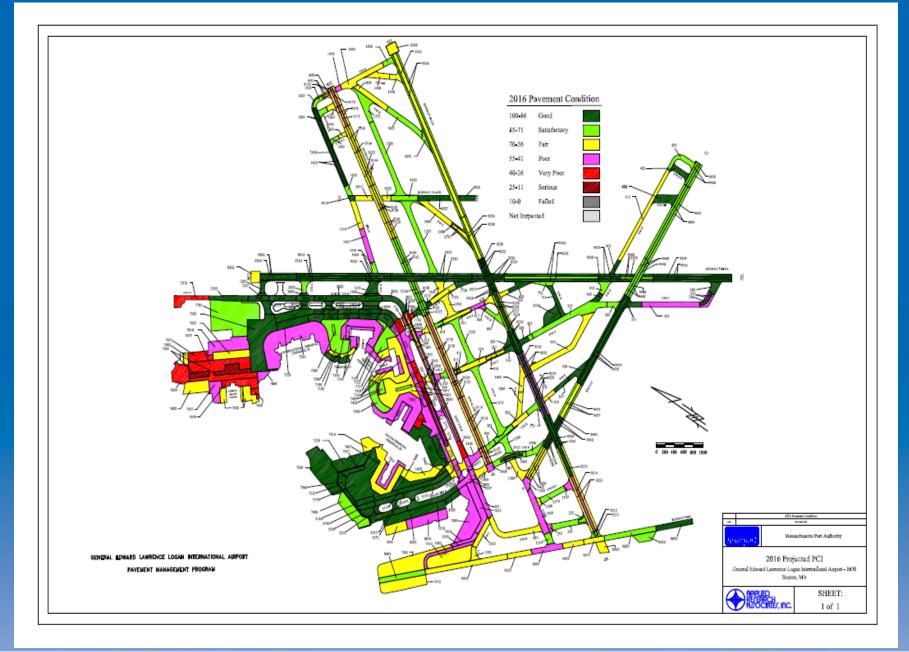
- Prevents accumulation of deferred maintenance backlog and maintains a Facility Condition Index (FCI) of 0.05 (Source: IFMA; Tradeline; APPA; Life Cycle Calculations)
- Typically Constitutes 40 to 50% of size of Capital Program (Source: IFMA; APPA; Ivy League Plus)

Improvements /
New
Construction

 Typically Constitutes 50 to 60% of Capital Program



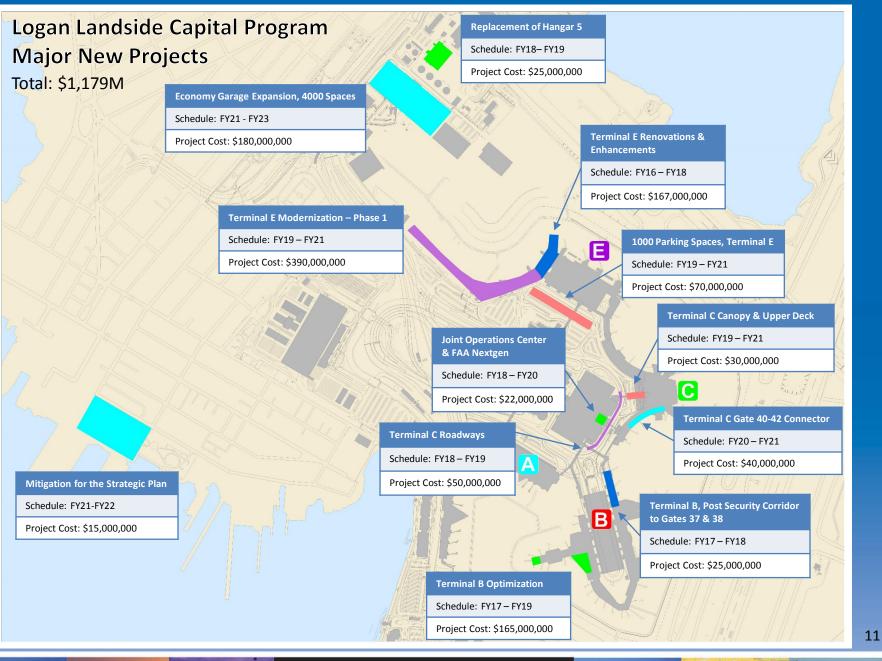






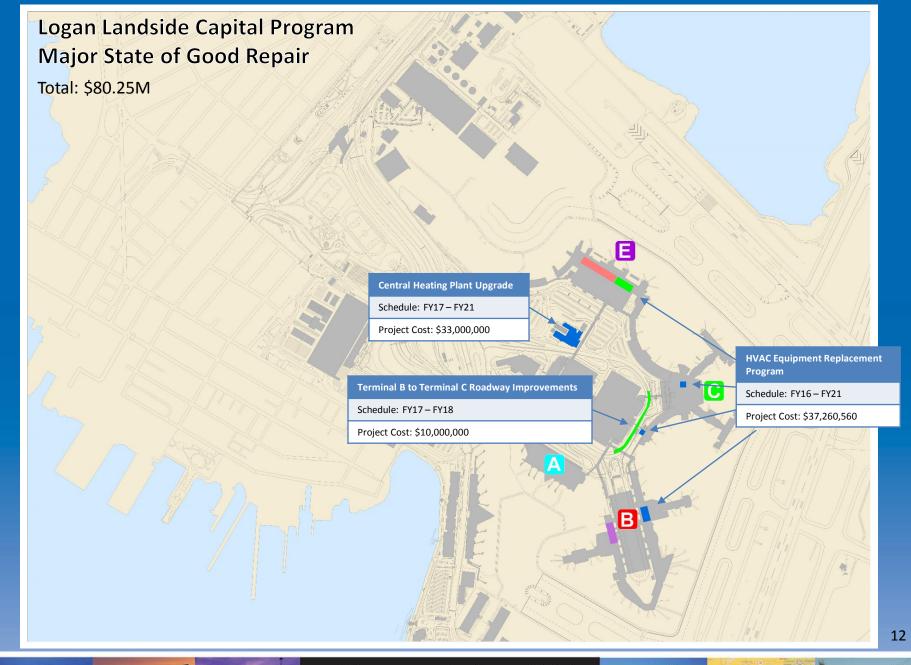






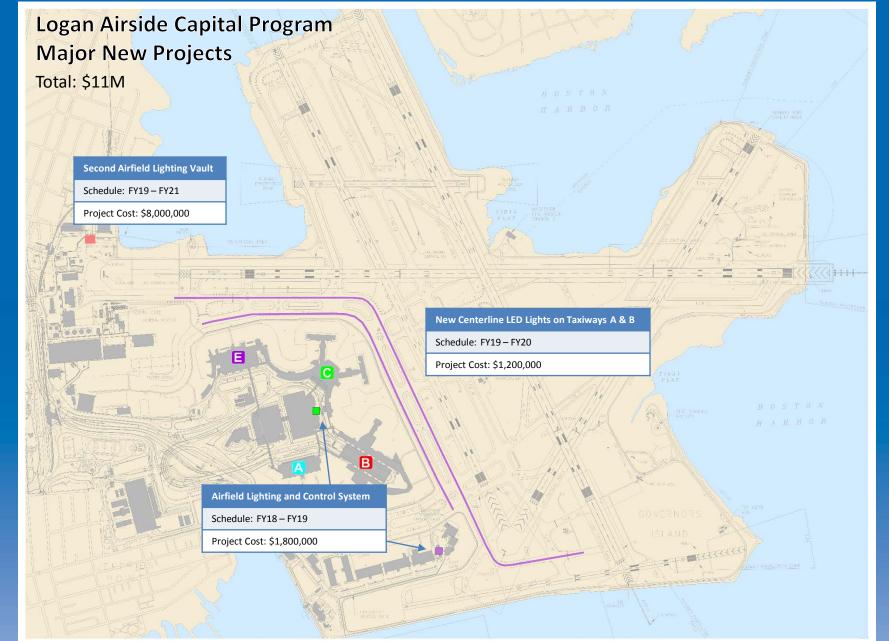








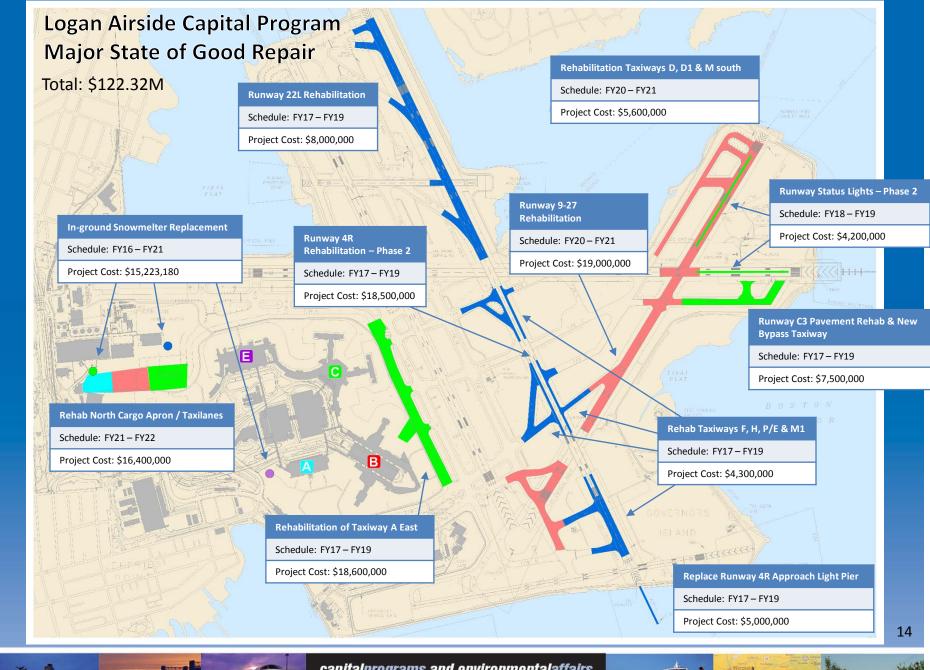








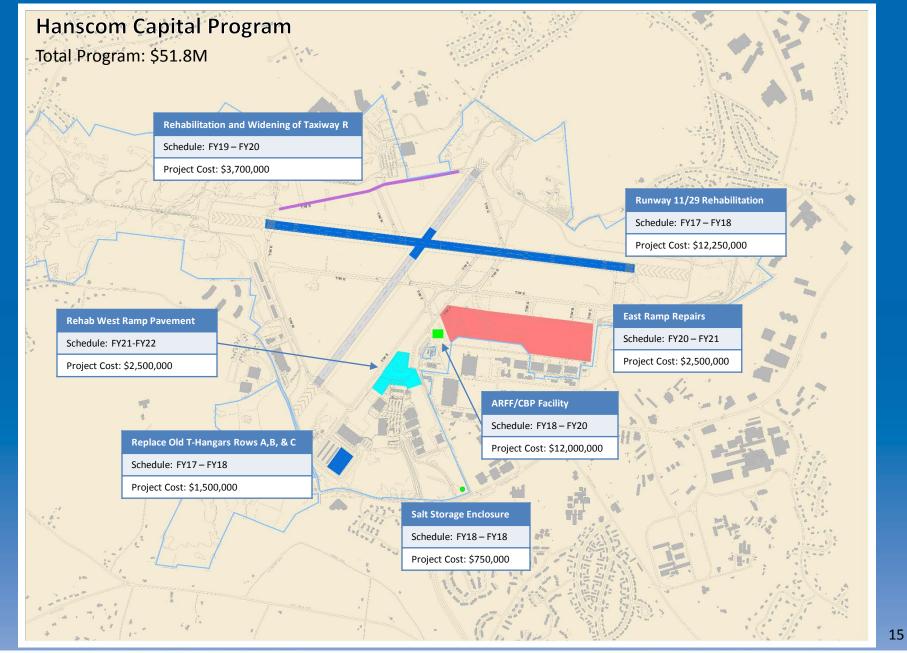








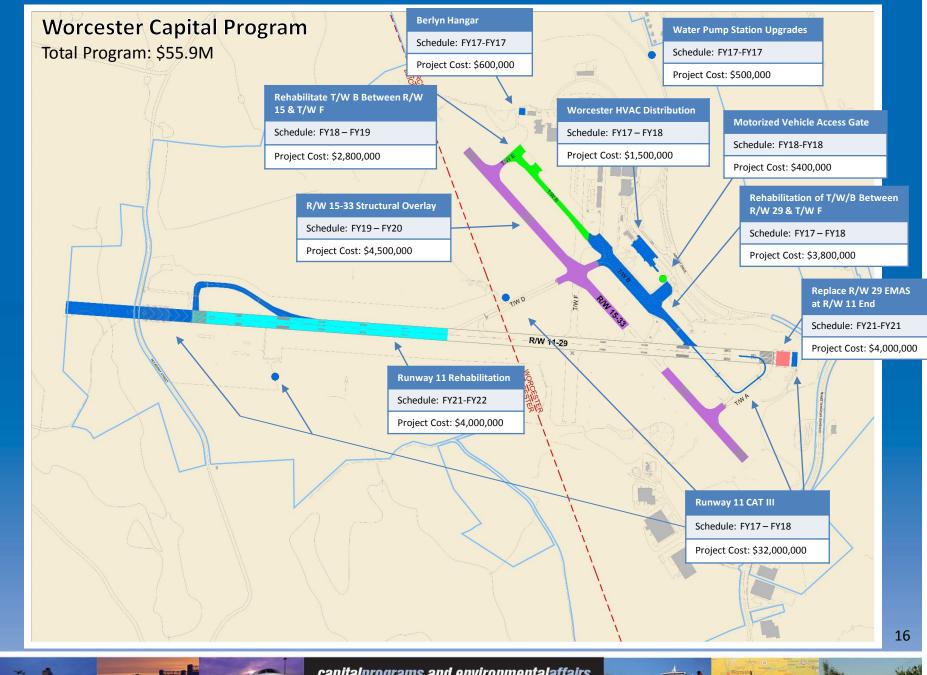


















Conley Terminal FY17-21 Capital Projects

Total Program: \$130M



Conley Terminal Dedicated Freight Corridor

Additional Conley Projects:

- RTG Drives Replacement
- Wireless Network/Terminal Lighting
- Crane Painting Program
- Tractor Replacement

17



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Black Falcon Cruise Terminal FY17-21 Capital Projects

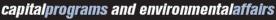
Total Program: \$19M

- New Automatic Gangway Project
- Seawall Reconstruction

- Façade Concrete Repairs and Coating/Painting
- Building Window Replacement











South Boston Waterfront FY 17-21 Major Capital Projects

Department of Army Landswap/Devens Improvements

South Boston Waterfront Transportation Center









Capital Programs & Environmental Affairs Department

Professional Services

- Design Services:
 - Building
 - ➤ Non-Building
- Term Consultants
- Environmental Services

Construction Services

- MGL c.149: Building Construction Contracts (ECC < \$5 MIL)
- MGL c.149A: CMR (Construction Management at Risk) (ECC > \$5 MIL)
- MGL c.30: Public Works (Non-Building)
- MGL c.149A s.14-21: Design-Build Public Works (ECC > \$5 MIL)

Term Construction Contracts





Capital Programs & Environmental Affairs Department

Professional Services

- Design Services:
 - ➤ Building (MGL c.7C s.44)
 - > Non-Building
- Term Consultants
- Environmental Services

The process is similar, but the Selection Panel changes by project type

RFQ - Advertised

- MPA website
- CommBUYS
- Central Register
- Newspapers

Consultants Briefing

- Supplemental Information
- Presentation
- Opportunity to be part of a team

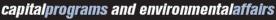
Designer Selection Panel

- Full Panel (MGL c.7C s.44)
- In-House Panel
- Environmental In-House Panel

Selection

- Qualification based by criteria in RFQ
- Interview, discretionary









Consultants Selection Criteria

- Experience of the team and communication skills of the <u>PM</u>
- Minimal disruption to airport operations
- Familiarity with Ch. 149, Ch. 149 A, Ch. 30
- Experience in using and managing BIM
- Experience in Lean Design & Construction
- Cost and Schedule management
- M/WBE proposed percentage
- Current and Past work with the Authority
- Experience with Sustainability and Resiliency
- Design Approach ... "Design Excellence"





Opportunities - 2017

- 1000 Parking Spaces
- BHS Terminal-E Discontinued Hardware Replacement
- Terminal C Roadways
- Terminal C Canopy & Upper Deck
- New Automatic Gangway
- Department of Army / Ft Devens
- Replacement of Hangar 5
- Joint Operations Center & FAA NextGen ATCT Tower





Ongoing Initiatives

- PMIS (PMWeb) Implementation
- Data Warehouse / Dashboard
- Online Bidding
- GIS/BIM Integration
- Cost Estimating Guidelines
- Mobile Apps
- Lean Implementation Guidelines
- CPM Schedules and Pull Plan Integrations
- Process Enhancements





