

Nashville International Airport



Master Plan Update Technical Advisory Committee Kick-off Meeting

September 13, 2018



Metropolitan Nashville Airport Authority™

AECOM

Agenda

- Welcome and Introductions
- Master Plan Objectives
- Master Plan Process
- BNA Vision Update
- Key Areas of Study
- Aviation Activity Forecast Summary
- Next Steps
- Project Schedule

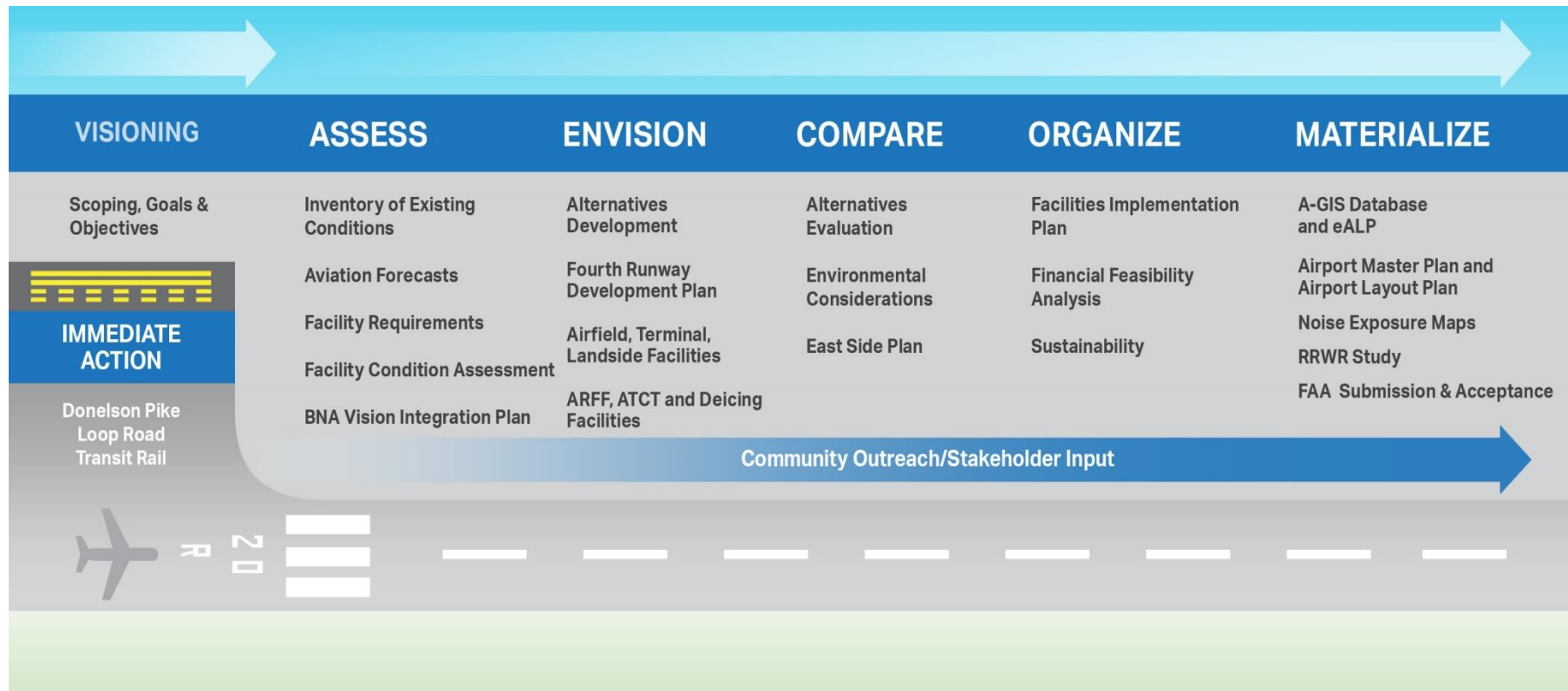


Master Plan Objectives

- To identify facility needs and prepare development plans in response to the growing aviation demand at BNA
- To structure a capital improvement program that guides MNAA implementation of the plan in an orderly, controlled and fiscally sound manner
- To prepare a plan that is sustainable, responsive, and transparent
- To keep Master Plan current in accordance with FAA requirements



Master Planning Process



Study Elements

Master Plan Update

Identify improvements needed to accommodate aviation demand for a 20-year horizon

Airports GIS (AGIS)/Electronic Airport Layout Plan (eALP)

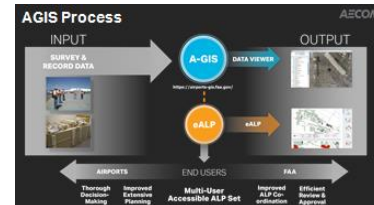
Develop an Airports-GIS (A-GIS) database and generate an electronic Airport Layout Plan (eALP) and a traditional ALP set.

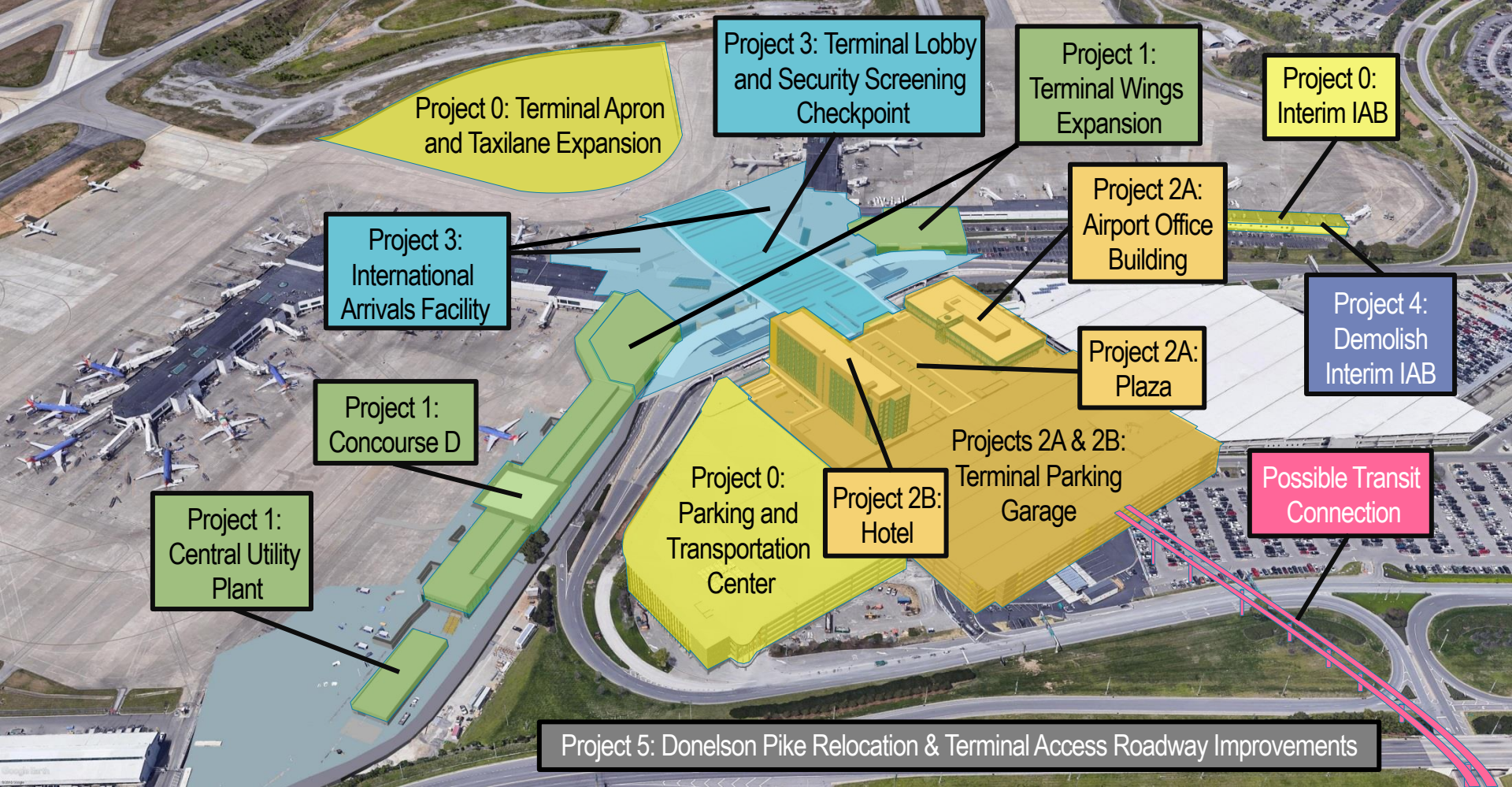
Noise Exposure Map (NEM) Update

Update Noise Exposure Maps for the 2019 existing condition and the 2024 future condition.

Reuse, Recycling, and Waste Reduction Plan (RRWR)

Prepare an RRWR Plan to serve as a basis for an enhanced waste management program





Project 0: Terminal Apron and Taxiway Expansion

Project 3: Terminal Lobby and Security Screening Checkpoint

Project 1: Terminal Wings Expansion

Project 0: Interim IAB

Project 3: International Arrivals Facility

Project 2A: Airport Office Building

Project 4: Demolish Interim IAB

Project 1: Concourse D

Project 2A: Plaza

Project 1: Central Utility Plant

Project 0: Parking and Transportation Center

Project 2B: Hotel

Projects 2A & 2B: Terminal Parking Garage

Possible Transit Connection

Project 5: Donelson Pike Relocation & Terminal Access Roadway Improvements

Key Areas of Study

- ① Airfield
- ② Landside
- ③ Terminal
- ④ Eastside Development
- ⑤ Support Facilities



Airfield

- Runway/taxiway geometrics and standards review
- Runway length and extension feasibility analysis
- Airfield capacity/delay modeling and evaluation
- Fourth parallel runway siting and configuration



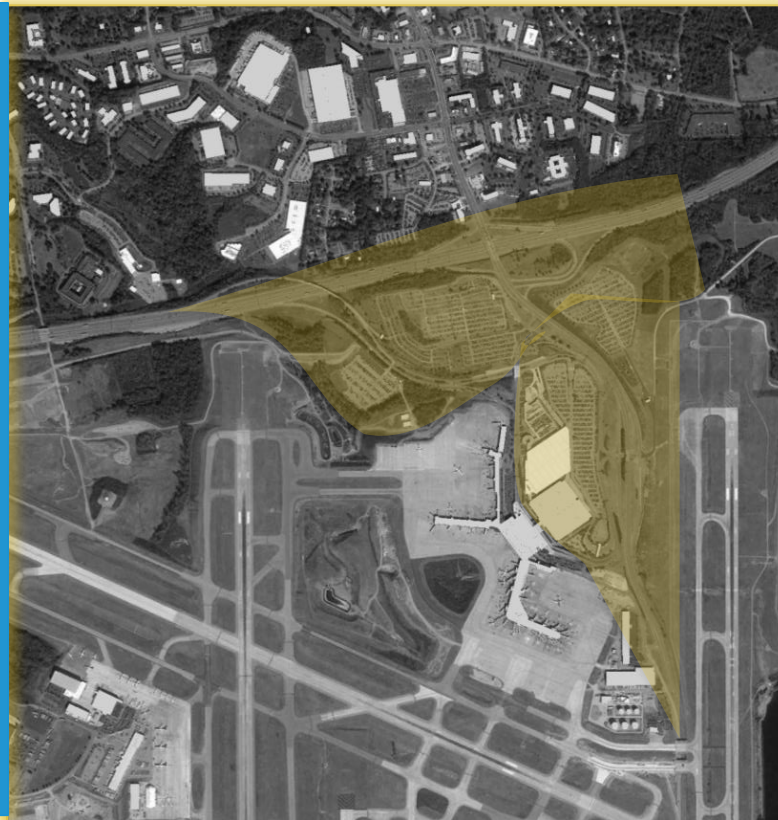
Terminal

- Build on the terminal development strategies established by BNA Vision
- Terminal capacity and passenger flow evaluation
- Functional space evaluation and terminal space program review
- Determine infrastructure needs and resiliency
- Back-up water, power, and other utilities



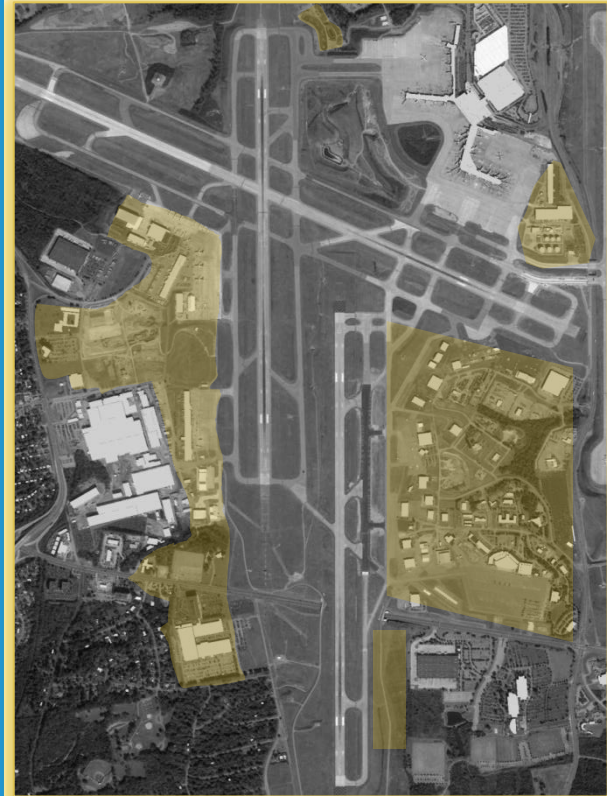
Landside

- Roadway access, curbside, vehicular circulation review
- Ongoing Donelson Pike and Terminal Roadway plan coordination
- Parking and commercial transportation evaluation
- Multi-modal and transit evaluation
- Consolidated Rental Car facility site evaluation and selection



Support Facilities

- General Aviation development configuration review
- Cargo and Aircraft Maintenance facilities review
- Airport Traffic Control Tower (ATCT) site evaluation and selection
- Airport Rescue & Fire Fighting (ARFF) site
- Deicing facilities and procedures review
- Fuel Farm Facilities review
- Tennessee Army National Guard (TANG) site

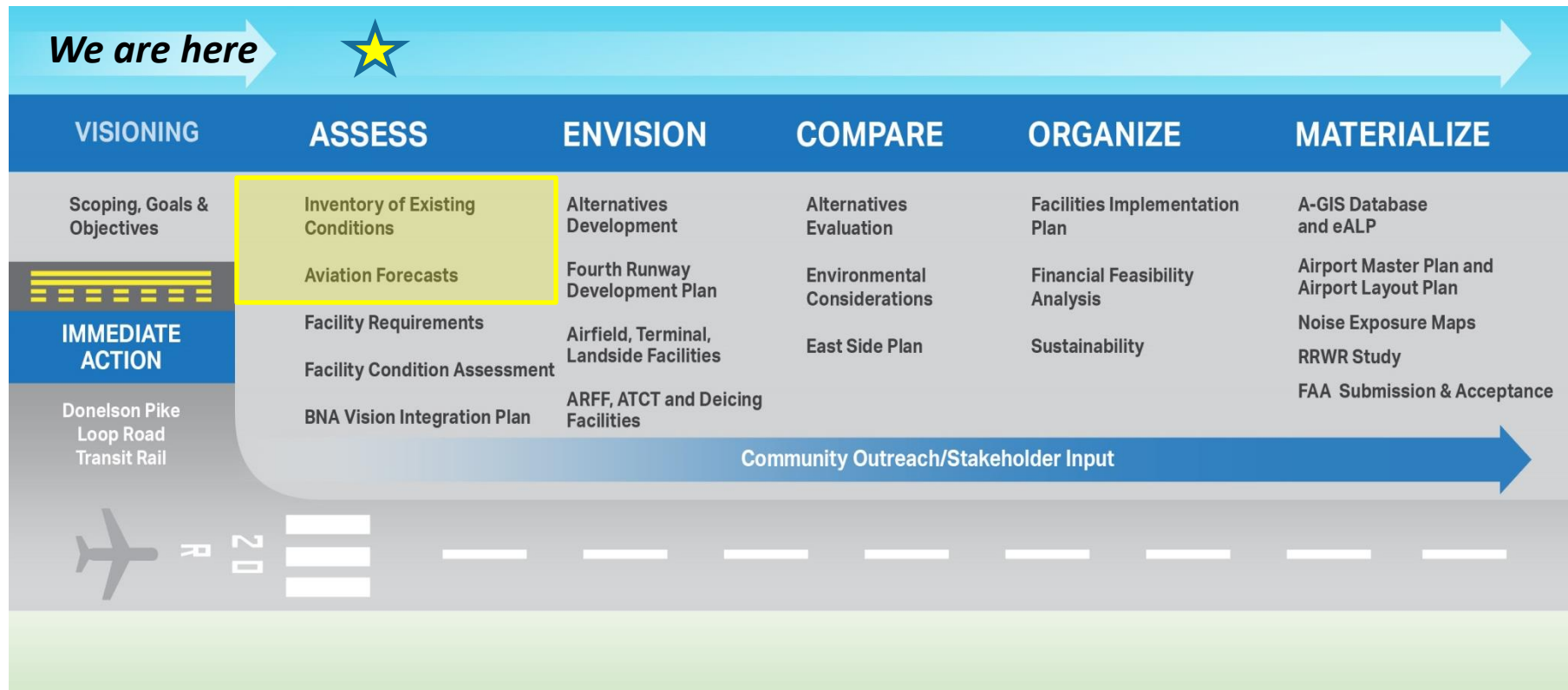


East Side Land Development

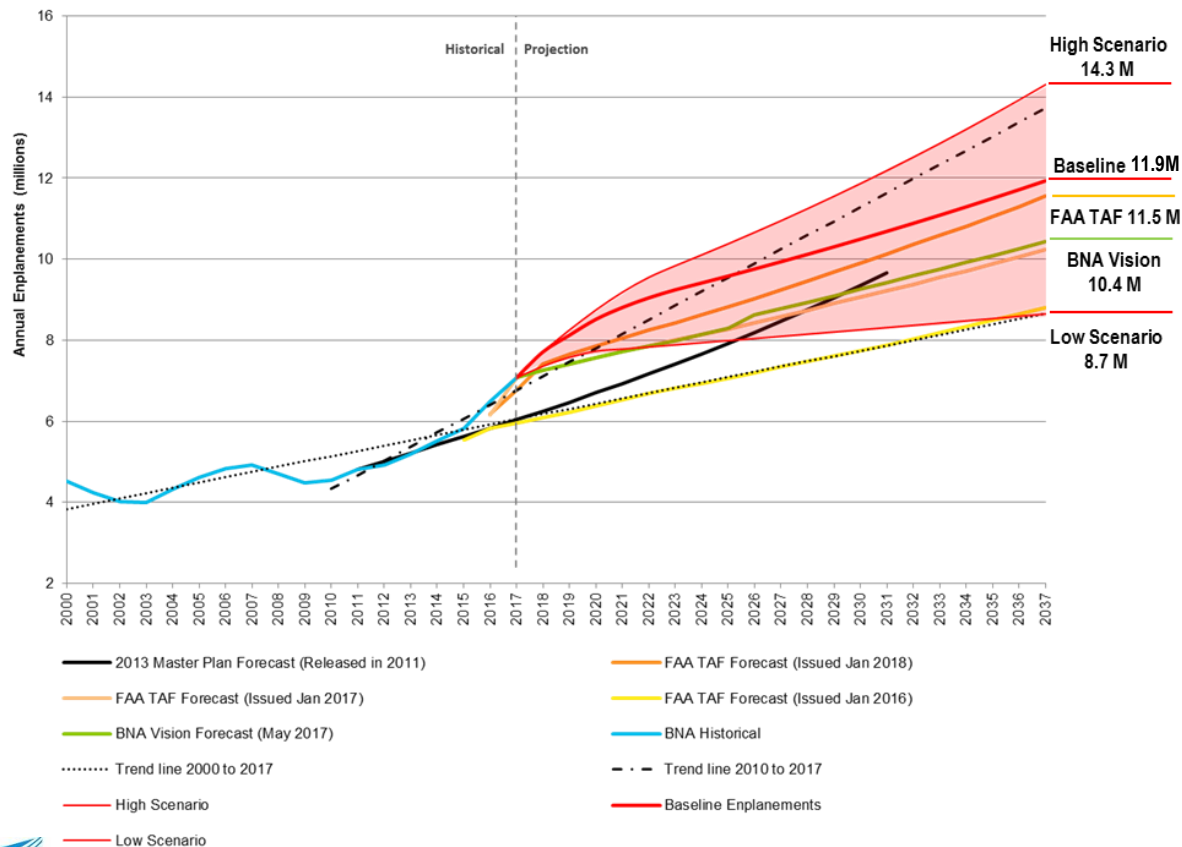
- Fourth Parallel Runway Placement
- Harding Extension and Roadway Access
- Site Preparation and earthwork
- Utility review and layout (water, sewer, electricity, gas, etc.)
- Environmental Features Review
- Highest and best aeronautical and non-aeronautical land use review
- Site development implementation plan



Study Status



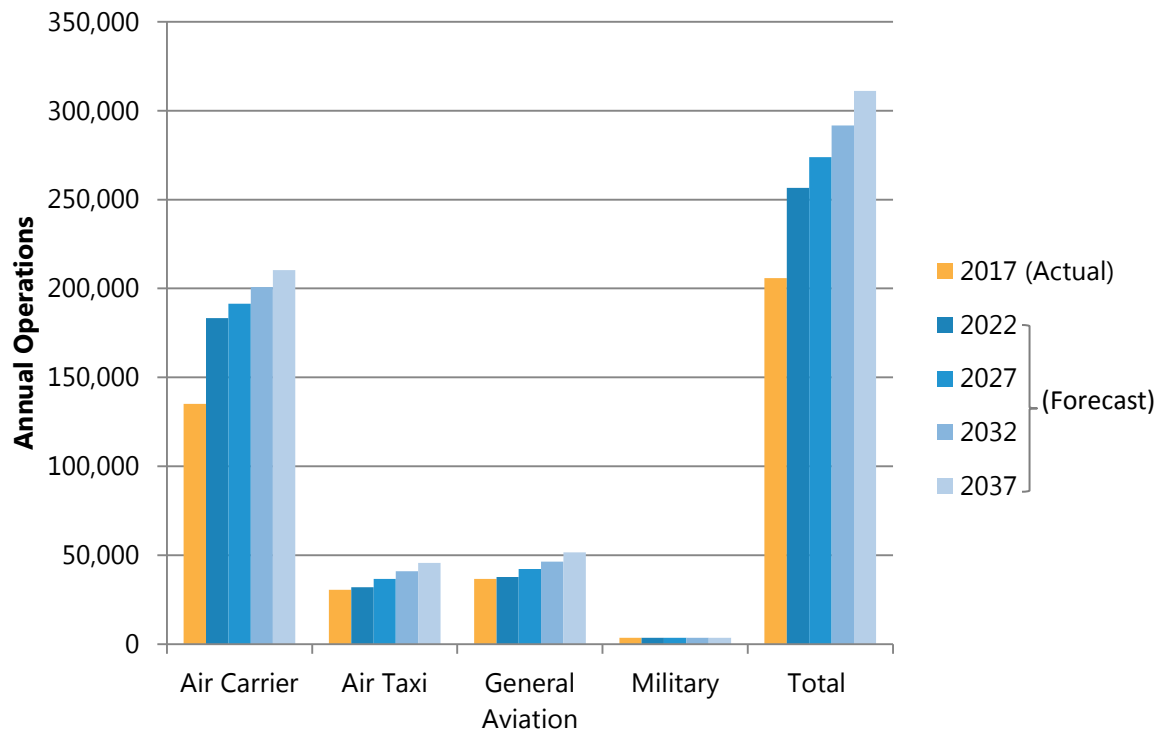
Aviation Activity Forecast – Annual Enplanements



	Baseline Scenario	FAA TAF (Jan 2018)
2017	7.1 M (Actual)	6.8 (Forecast)
2022	9.0M	8.2M
2027	9.9M	9.2M
2032	10.9M	10.4M
2037	11.9M	11.5M

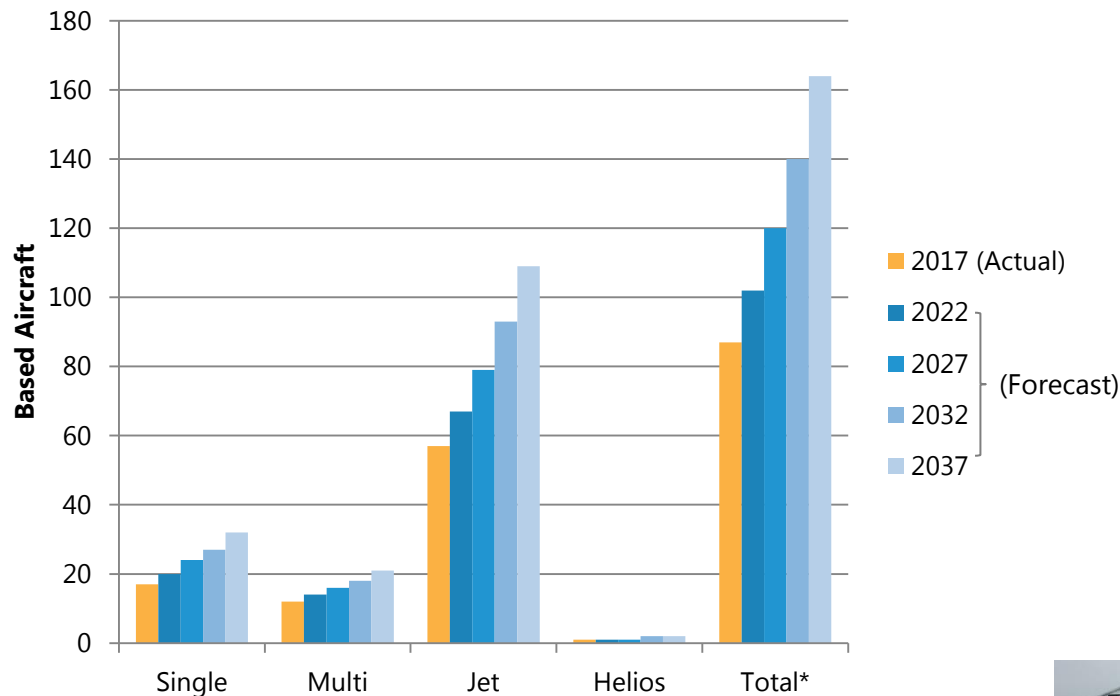


Aviation Activity Forecast – Annual Operations



	Baseline Scenario (000)	FAA TAF (Jan 2018) (000)
2017	206 (Actual)	205 (Forecast)
2022	257	232
2027	274	253
2032	292	277
2037	311	303

Aviation Activity Forecasts - Based Aircraft



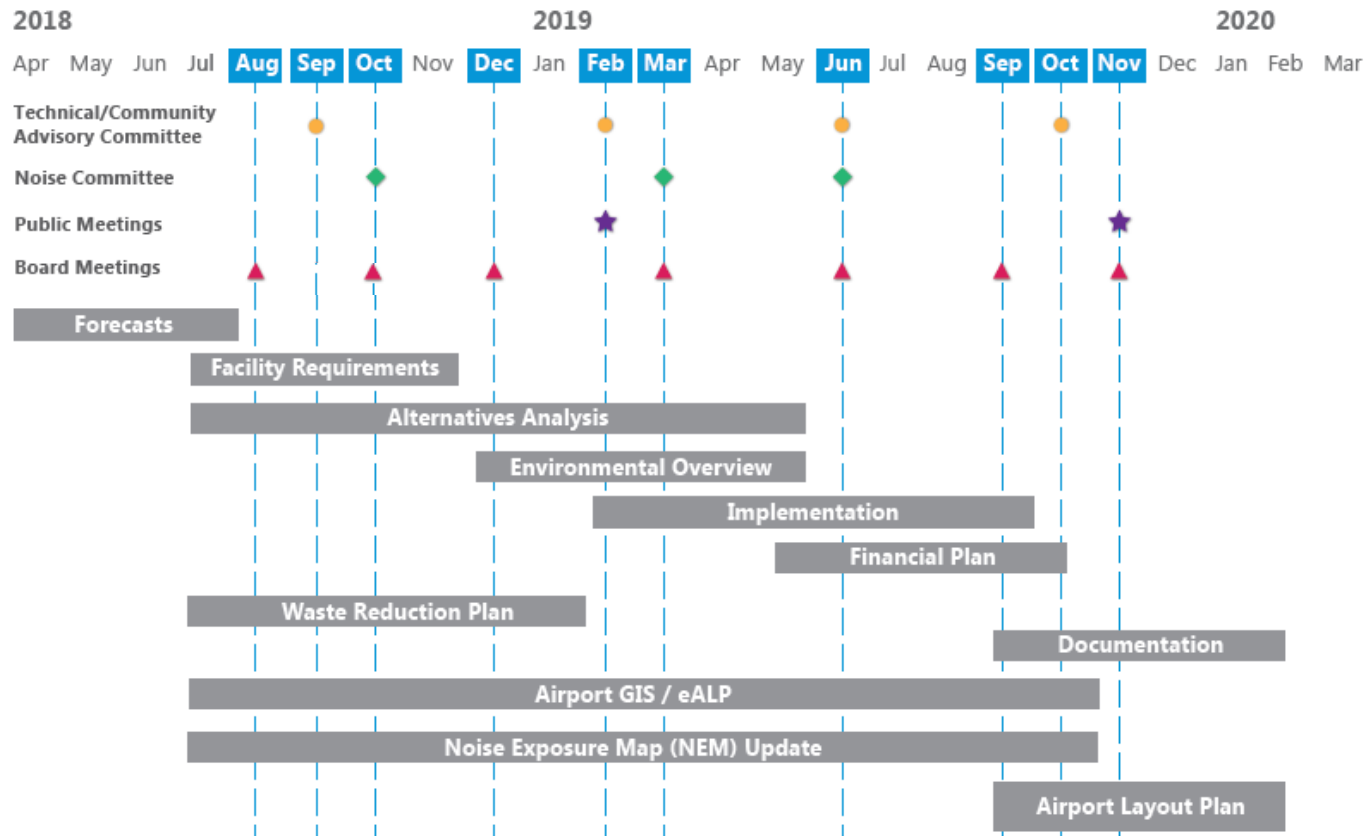
Total Based Aircraft	Baseline Scenario	FAA TAF (Jan 2018)
2017	87 (Actual)	96 (Forecast)
2022	102	111
2027	120	120
2032	140	141
2037	164	156



*Note: * The based aircraft records and projections from FAA TAF do not include the 20 based military helicopters for the Army National Guard. The baseline based aircraft forecasts shown in this table also excluded these 20 based military helicopters.*



Project Schedule



Thank You for Your Participation!

Next meeting – February 2019

Follow the Master Plan Update on

<https://www.flynashville.com/about/Pages/MasterPlan.aspx>

Comments or Questions

<https://www.flynashville.com/contact/Pages/commentsandquestions.aspx>

