



PALM BEACH COUNTY PARK (LANTANA) AIRPORT

# LNA Safety Assessment Community/Technical Stakeholder Briefing

July 18, 2023 (6:30 p.m. – 8:30 p.m.)

Task : I-23-LNA-R-010

# Agenda

- Introductions and Meeting Overview
- Background
- Aviation Safety Roles and Responsibilities
- Study Overview
- Public/Stakeholder Comments
- Next Steps



# INTRODUCTIONS AND MEETING OVERVIEW

# Introductions

- **Palm Beach County Department of Airports**

- Laura Beebe (Director of Airports)
- Gary Sypek (Senior Deputy Director of Airports)
- Michael Giambone (Director of Airports Planning)
- Joe Harrington (Director of Marketing & Communications)
- Andrew Gamboa (Airports Development Planner)
- Craig Delegato (Noise Abatement and Community Affairs Manager)
- Brian Avery (General Aviation Airports Manager)

- **Ricondo & Associates, Inc.**

- Dave Ramacorti (Project Manager)
- Kevin Markwell (Air Traffic Specialist)

## Airport Sponsor and Consultant Team



- PBDOA (Airport Sponsor)



- Prime Consultant
- Overall Task Management
- Safety Assessment



- Airfield Pavement Strength Analysis
- Obstruction Evaluations
- Cost Estimates



- Federal Contract Tower – Safety Benefit Cost Analysis



- Stakeholder Meetings
- Logistical Support

# Meeting Overview

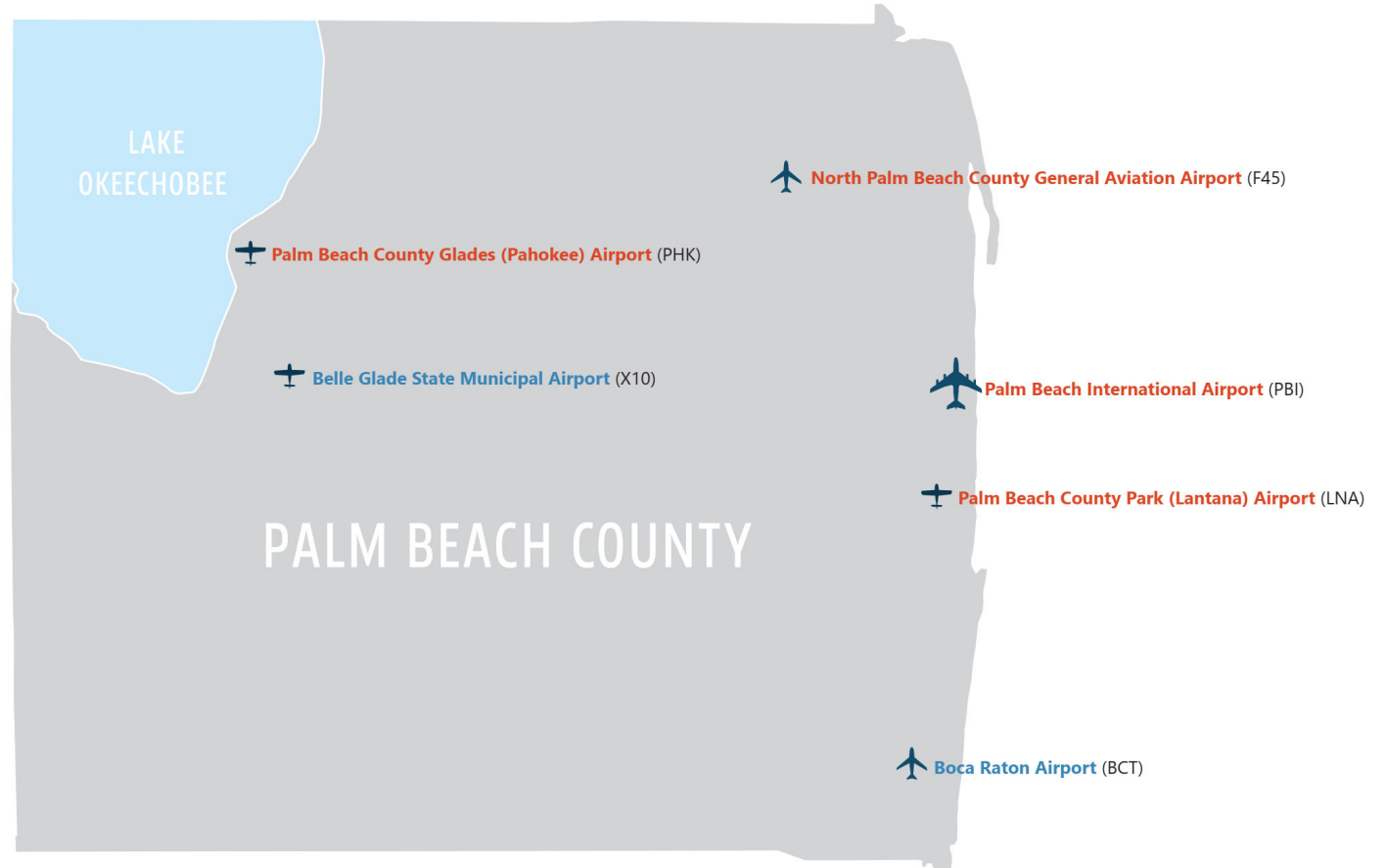
- **Meeting Purpose:**
  - Brief stakeholders/community and solicit input that could inform the LNA Safety Assessment
- **LNA Safety Assessment Objectives:**
  - Examine potential implications associated with the introduction of jet operations at LNA
  - Examine interaction of jet operations at LNA and nearby airports
  - Provide recommendations regarding possible measures to enhance operational safety








**BACKGROUND**

# Palm Beach County Airports



## LEGEND

-  Commercial Service Airport
-  Corporate General Aviation Airport
-  Small General Aviation Airport



# Airport Overview



Source: GoogleEarth Pro Imagery, June 2023. Palm Beach County Department of Airports, LNA Airport Layout Plan, 2010.

## Palm Beach County Park (Lantana) Airport (LNA)

- Owned/Operated by Palm Beach County Department of Airports
- Located in Unincorporated Palm Beach County
- FAA Role: General Aviation Reliever Airport
- Three Runways & Taxiways
- Primary Tenant: Stellar Aviation (Fixed Base Operator)
- Other County Operated Airports:
  - Palm Beach International Airport (PBI)
  - North Palm Beach County Airport (F45)
  - Palm Beach County Glades Airport (PHK)



# Airport Tenant Facilities

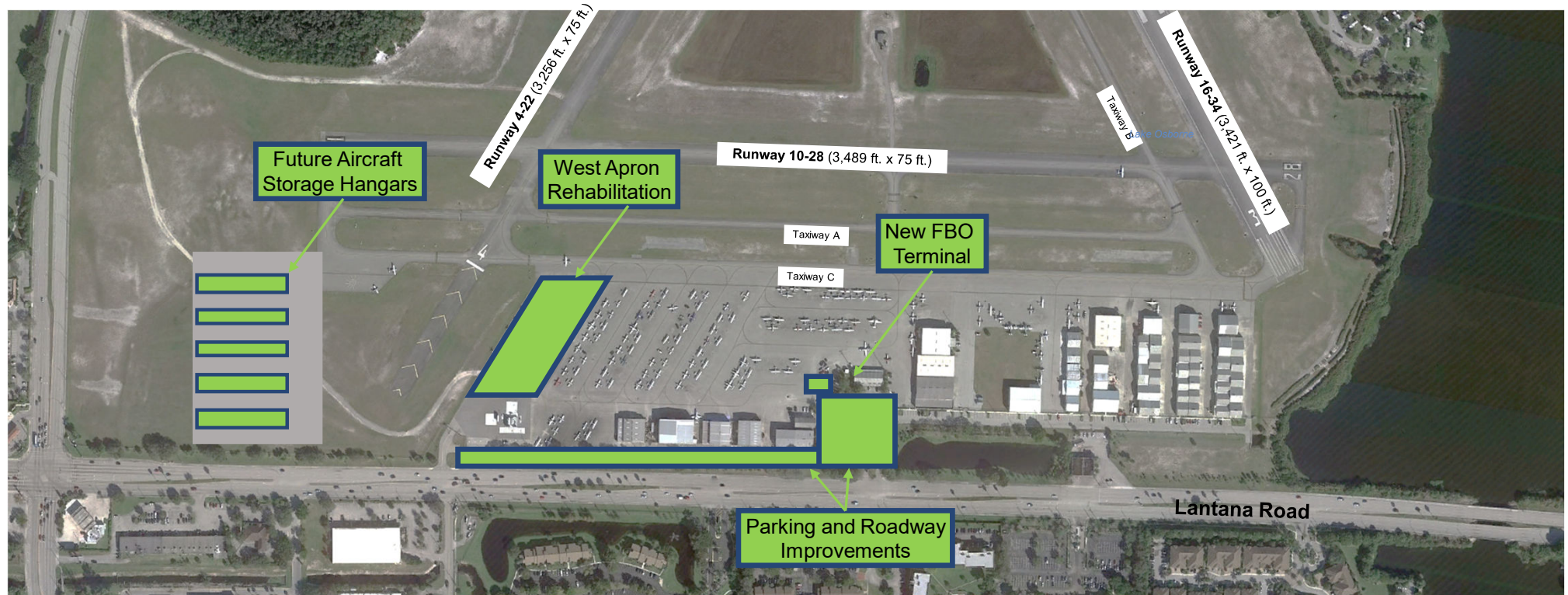


Source: GoogleEarth Pro Imagery, June 2023.

## Primary Tenant: Stellar Aviation

- Fixed Base Operator:
  - Aircraft parking and storage
  - Aviation fueling
  - Ground handling & servicing
  - Pilot & passenger amenities
- Sub-tenants:
  - Aircraft maintenance & repair
  - Aircraft refurbishment
  - Avionics repair
  - Flight training centers
  - Helicopter tours

# Planned Airport Improvements



Source: GoogleEarth Pro Imagery, June 2023.



## LNA's Economic Impact



**Jobs**

**772**

**Employed**



**Payroll**

**\$41.7**

**Million**



**Value  
Added**

**\$67.7**

**Million**



**Economic  
Impact (*Output*)**

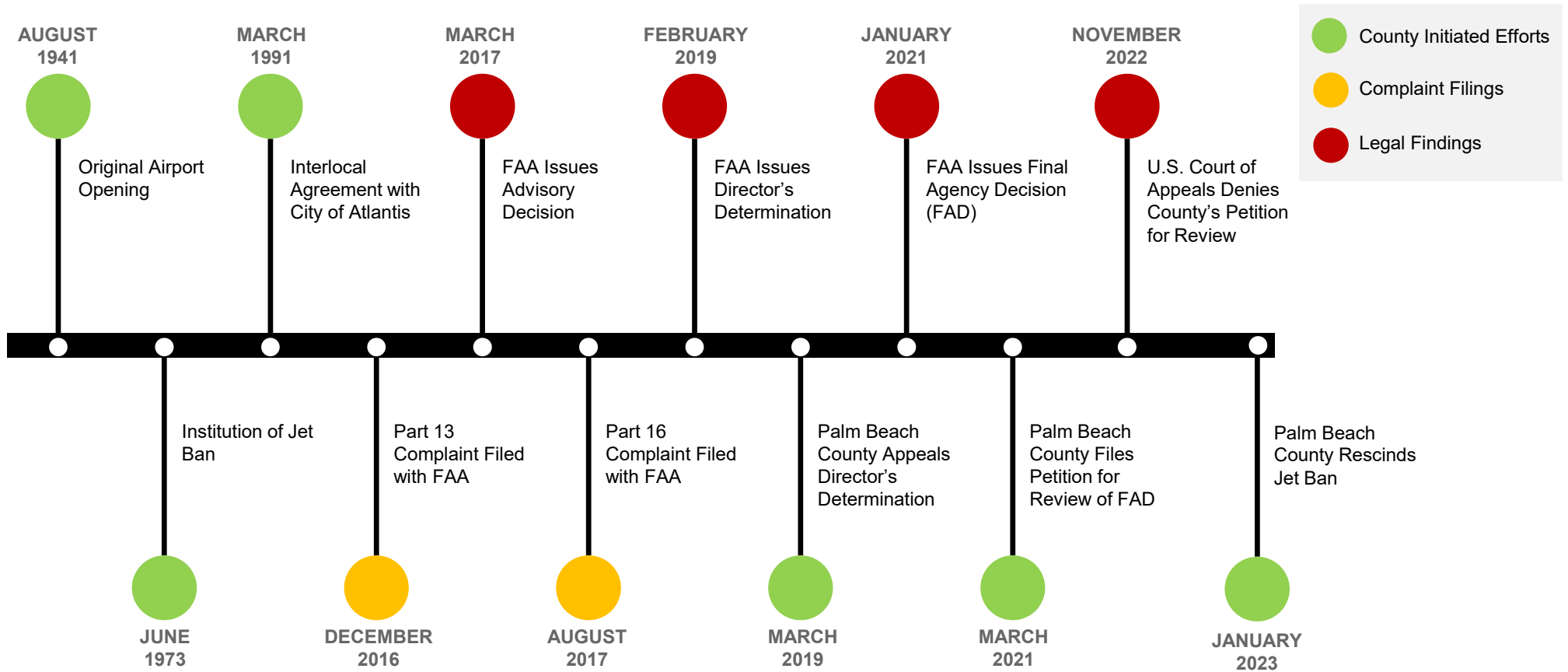
**\$144**

**Million**

Source: Florida Department of Transportation, Florida Aviation Economic Impact Study, Palm Beach County Park Airport, 2022.



# Historical Overview of Jet Restrictions at LNA



# LNA Jet Ban Recission – Final FAA Agency Decision

## Grant Assurance #22: Economic Nondiscrimination

### Grant Assurance 22(a):

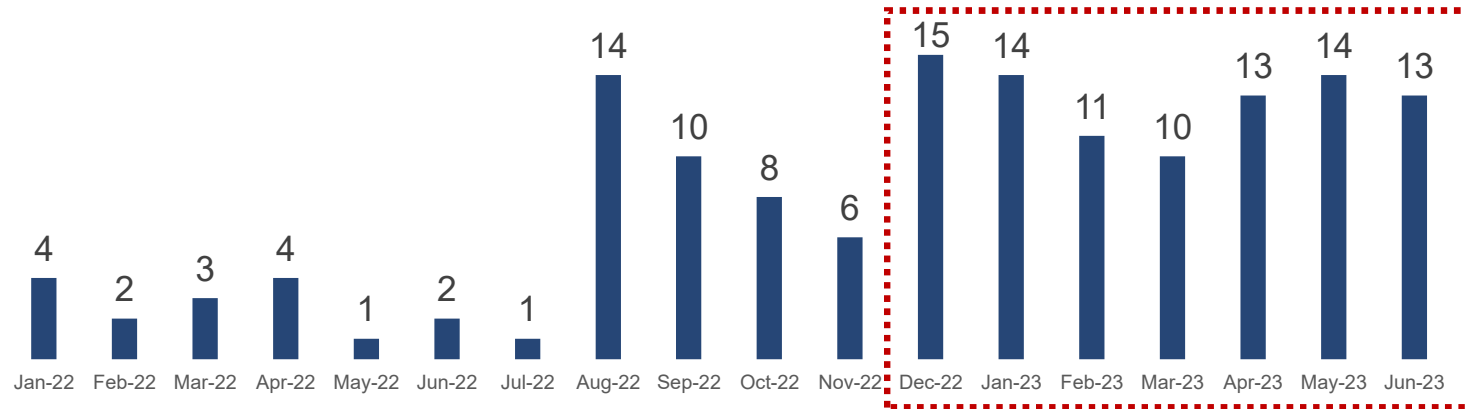
- County must make the airport available or public use on reasonable terms and without unjust discrimination to all types, kinds and classes of aeronautical activities”
- Jet ban was unjustly discriminatory because it allowed aircraft equally noisy or nosier than the aircraft it restricts, and not justified by:
  - noise,
  - aircraft weight
  - cargo operations
  - safety and efficiency
  - environmental impacts

### Grant Assurance 22(i):

- County may limit any given type, kind, or class of aeronautical use of the airport if such action is necessary for the safe operation or the airport or necessary to serve the civil aviation needs of the public.
  - County may not impose restrictions based on airport design standards (weight, wingspan, height or speed)
  - FAA is the “final arbiter” of where a restriction is necessary.



# Monthly Jet Aircraft Operations: January 2022 – June 2023



Operations Since  
Denial of Appeal

## Jet Operations at LNA:

- 2022: 70 operations
- 2023: 75 operations (YTD)
- Total: 145 operations

## Notes:

One operation = one landing or one takeoff

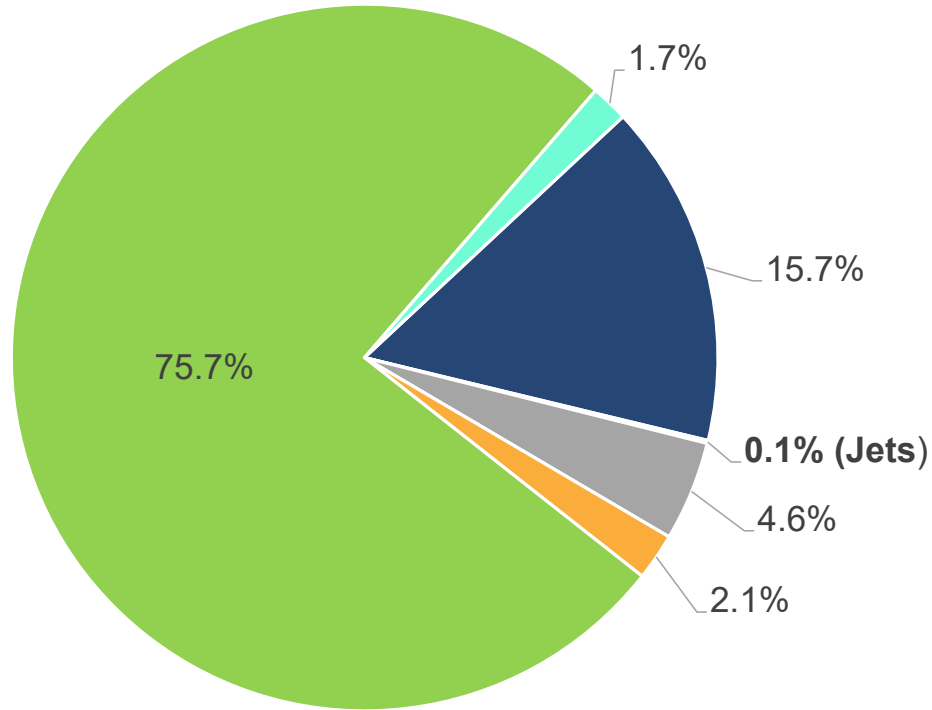
2023 operations through June 30, 2023.

Since the issuance Denial of Appeal of the jet ban in November 2022, there have been an average of approximately 13 jet operations per month at LNA.

Source: Palm Beach County Department of Airports, Airport Noise Monitoring System, January 1, 2022, through June 30, 2023.



# Aircraft Fleet Composition Since Denial of Appeal (November 18, 2022)



## Notes:

Includes touch-and-go operations

As of June 30, 2023, there had been 90 jet operations at LNA since the Denial of Appeal of the jet ban at LNA.

- Helicopter
- Jet
- Multi Engine Piston
- Other/Unknown
- Single Engine Piston
- Turboprop

Source: Palm Beach County Department of Airports, Airport Noise Monitoring System, November 18, 2022, through June 30, 2023.





# AVIATION SAFETY ROLES AND RESPONSIBILITIES

# Aviation Safety Roles and Responsibilities

## Federal Aviation Administration (FAA)



### Develop/Enforce

#### Responsibility:

Regulatory and, Enforcement

Aircraft Registration & Certification  
Aircraft Maintenance and Repair  
Aircraft Operating Flight Rules  
Airport Capital Funding Programs  
Airport Design Standards  
Air Traffic Control (ATC)  
Airspace Reviews  
Charting and Publications  
Flight Training Center Certification  
Pilot Certification and Medical Exams  
Safety Management

## Palm Beach County Department of Airports (DOA)



### Implement/Maintain

#### Responsibility:

Airport Operations & Compliance

Access Control & Security  
Airport Policies and Procedures  
Capital Improvement Program  
Facilities Inspections and Maintenance  
FAA & FDOT Grant Assurances  
Land Use Compatibility & Zoning  
Regulatory Compliance  
Wildlife Hazard Management

## Aircraft Owners, Pilots/Operators, Tenants, and Service Providers



### Operate/Maintain

#### Responsibility:

Aircraft Operations and Facilities

Adhere to Federal Aviation Regulations  
Aircraft Fueling Activities  
Aircraft Operational Safety  
Aircraft Maintenance & Airworthiness  
Concurrent Training  
Comply with ATC Procedures  
Medical and Physiology

## National Transportation Safety Board (NTSB)



### Accident Investigations

#### Responsibility:

Aviation and Surface Transportation

Independent Accident Investigations  
Advocating Safety Improvements  
Deciding Pilots' Certification Appeals

# FAA Regulatory Structure

## Headquarters

- Airports
- Air Traffic Organization
- Audit and Evaluation
- Aviation Safety
- Chief Counsel
- Civil Rights
- Communications
- Finance and Management
- Government and Industry Affairs
- Human Resources Management
- NextGen
- Policy, International Affairs and Environment
- Security and Hazardous Materials Safety

## Field and Regional Offices

### Airports Regional Offices

- Regional management of airport planning, environmental, compliance, design, and safety programs
- LNA in Southern Region

### Airport District Offices (ADO)

- Local management of regional initiatives
- LNA in Orlando ADO

### Flight Standards District Offices (FSDO)

- Oversees aviation operations within its jurisdiction, ensuring that they comply with federal aviation regulations.
- LNA in South Florida FSDO Service Area





## STUDY OVERVIEW

## Other Ongoing LNA Studies

### LNA Part 150 Noise Study ([www.lnapart150.com](http://www.lnapart150.com))

Estimated Completion: Spring 2024

- Title 14 CFR Part 150, *Airport Noise Compatibility Planning*
- Provides a formal process for addressing airport noise and incompatible land uses
- Designed to identify significant existing and future noise impacts from aircraft operations within areas surrounding the airport
- Proposes steps for consideration by FAA to address impacts
- Voluntary effort undertaken by the airport sponsor under FAA guidelines
- Two elements:
  - Noise Exposure Map Report – Shows existing and future aircraft sound exposure levels
  - Noise Compatibility Program – Recommends measures to address aircraft noise

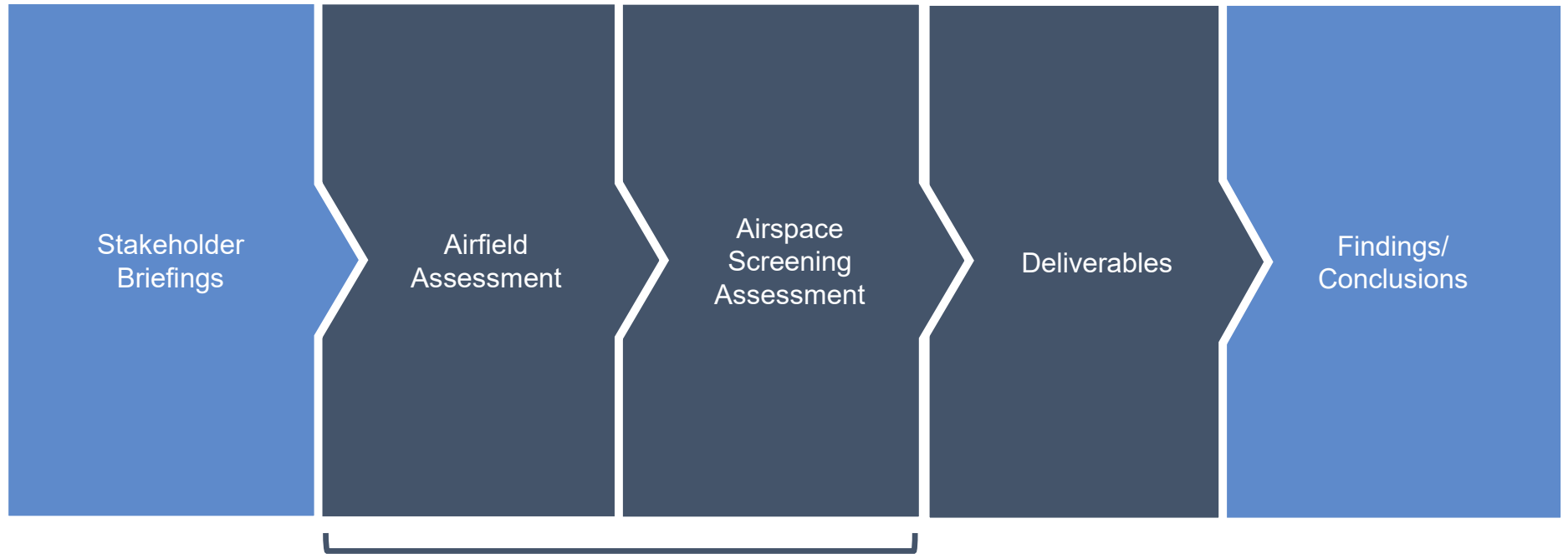
### LNA Master Plan Update

Estimated Completion: Fall 2024

- **Definition:** Comprehensive study of the airport describing development plans to meet future aviation demand
- **Function:** Support the modernization or expansion of the airport; serves as the sponsor's strategy and 'blueprint' for development of the airport
- **Goal:** Provide the framework to guide future airport development that will cost-effectively satisfy aviation demand, while considering potential environmental impacts
- **Objectives:**
  - Justify proposed development through evaluation of concepts and alternatives
  - Provide a graphic representation of future airport development
  - Establish a realistic implementation and financial plan



# LNA Safety Assessment Elements

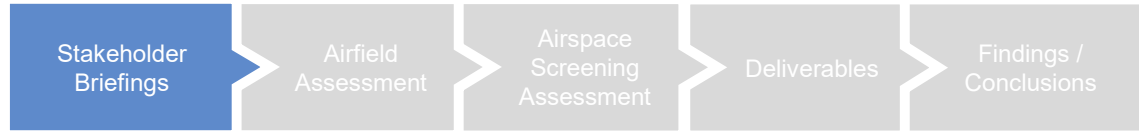


Technical Analyses

## Legend

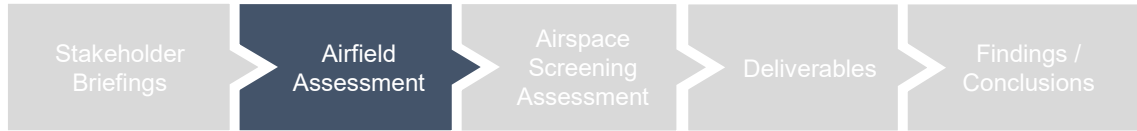
- Technical Analyses and Documentation
- Stakeholder Coordination

# LNA Safety Assessment Elements



Subtask	Elements
Initial Community/Technical Stakeholder Briefing	<ul style="list-style-type: none"><li>▪ Background information</li><li>▪ Study overview/approach</li><li>▪ Solicit feedback</li></ul>
FAA Consultation	<ul style="list-style-type: none"><li>▪ Study overview/approach</li><li>▪ Solicit feedback</li></ul>

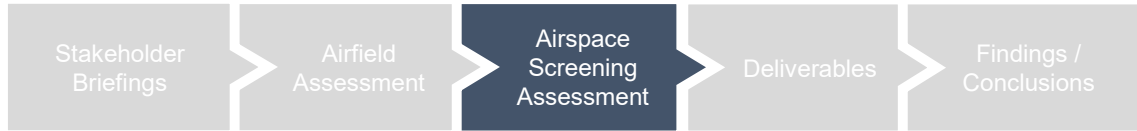
# LNA Safety Assessment Elements



Subtask	Elements
Jet Aircraft Fleet Mix Analysis	<ul style="list-style-type: none"> <li>Identify jet aircraft that could operate at LNA over 20-year period</li> <li>Aircraft performance evaluation (runway length requirements)</li> </ul>
Airfield Design Standards Review	<ul style="list-style-type: none"> <li>Verify compliance of existing runways and taxiways with FAA design standards</li> </ul>
Airfield Pavement Strength Analysis	<ul style="list-style-type: none"> <li>Determine ability of existing pavement to accommodate current/projected jet fleet</li> </ul>
Runway Protection Zone (RPZ) and Land Use Compatibility	<ul style="list-style-type: none"> <li>Existing and future RPZs evaluated to identify potential incompatible land uses</li> <li>Identify mitigation measures to reduce/eliminate incompatible land uses within the RPZs</li> </ul>

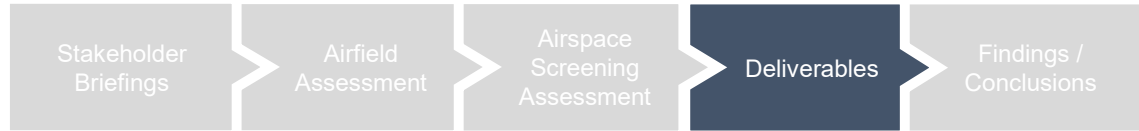
Subtask	Elements
Intersecting Runway Interactions	<ul style="list-style-type: none"> <li>Evaluate runway use for jet aircraft</li> <li>Interaction of jet aircraft with non-jet aircraft traffic patterns</li> </ul>
Obstruction Hazard Analysis	<ul style="list-style-type: none"> <li>Obstruction surveys conducted for LNA Master Plan Update</li> <li>Airspace surfaces evaluated for potential penetrations by obstacles</li> </ul>
Cost Estimates	<ul style="list-style-type: none"> <li>Capital expenditures associated with mitigation</li> <li>Potential acquisition of incompatible properties within RPZs</li> </ul>

# LNA Safety Assessment Elements



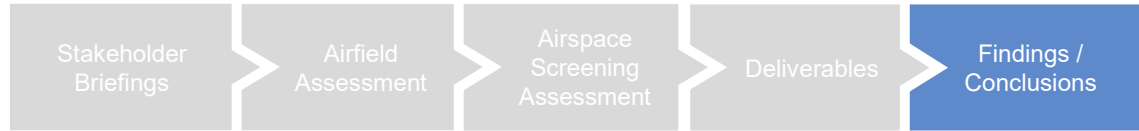
Subtask	Elements
Jet Aircraft Fleet Mix Implications	<ul style="list-style-type: none"><li>▪ Impact of jet operations on local traffic flow and traffic patterns</li></ul>
Interactions with PBI and BCT Airspace	<ul style="list-style-type: none"><li>▪ Evaluate existing traffic patterns at PBI and BCT</li><li>▪ Implications of potential Class D airspace for LNA</li></ul>
Federal Contract Tower – Safety Benefit Cost Analysis	<ul style="list-style-type: none"><li>▪ Process follows FAA guidance</li><li>▪ Determine value of establishing control tower at LNA</li><li>▪ Quantify and compare benefits and costs</li></ul>

# LNA Safety Assessment Elements



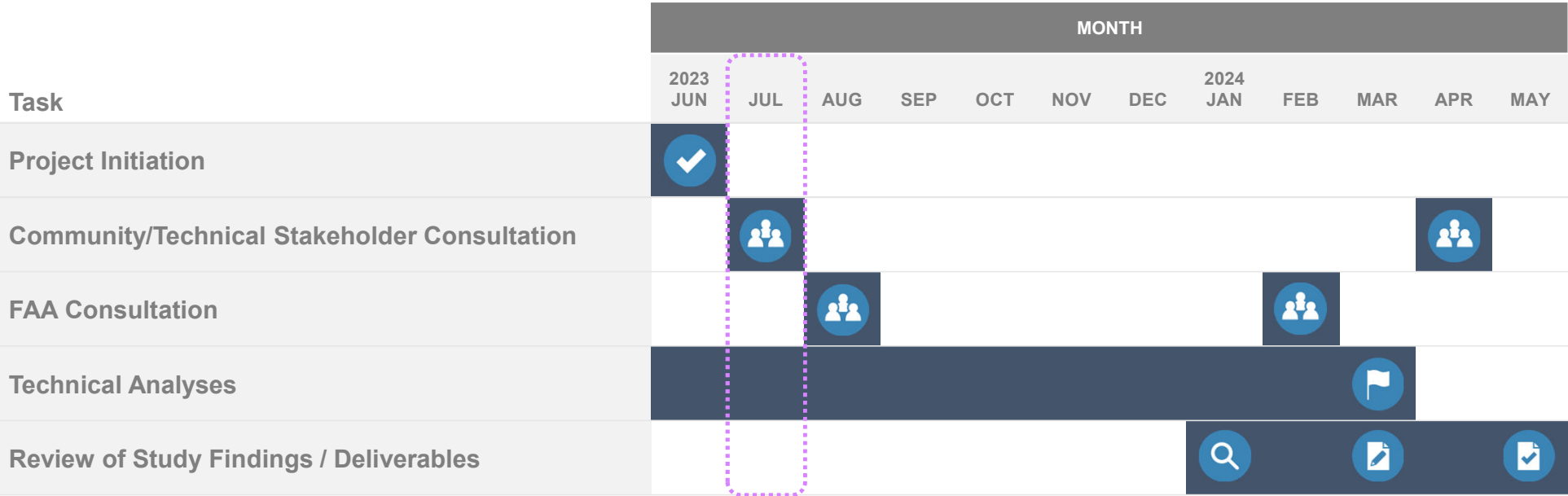
Subtask	Elements
Summary Presentation	<ul style="list-style-type: none"><li>▪ Goals, objectives, approach, methodology, results, recommendations</li></ul>
Technical Report	<ul style="list-style-type: none"><li>▪ Draft and Final technical report submitted to PBDOA</li></ul>

# LNA Safety Assessment Elements



Subtask	Elements
Final FAA Consultation	<ul style="list-style-type: none"><li>▪ Solicit input to obtain consensus on findings of Airfield and Airspace Screening Assessments</li></ul>
Final Community/Technical Stakeholder Meeting	<ul style="list-style-type: none"><li>▪ Review findings of study</li><li>▪ Answer questions prior to finalizing report</li><li>▪ Information purposes and Q&amp;A only</li></ul>

# Preliminary Study Schedule



KEY Notice to proceed Milestone Draft Final Meeting Review





## **PUBLIC/STAKEHOLDER COMMENTS**

# Public Comments

- **Written Comments:**

- Comment cards
- Email submissions ([LNASafetyAssessment@pbia.org](mailto:LNASafetyAssessment@pbia.org))
- No later than August 1, 2023

- **Oral Comments:**

- Register at comment table
- Order of speakers will be in accordance with the order in which attendees have signed up
- 3 minutes to speak
- Audio recording



A blue-tinted landscape photograph of an airfield. In the foreground, there is a grassy field. In the middle ground, a runway or taxiway stretches across the frame. In the background, a line of trees is visible under a sky with scattered clouds. A small airplane is flying in the sky, positioned to the left of the center. A solid blue rectangular box is overlaid on the lower half of the image, containing the text "NEXT STEPS" in white, bold, sans-serif capital letters.

**NEXT STEPS**

## Next Steps

- Public/stakeholder comment period: July 18 – August 1
- Compile public/stakeholder comments
- Make any required modifications or amendments to the scope of services
- Conduct FAA consultations
- Complete technical tasks





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Thank you for your participation