



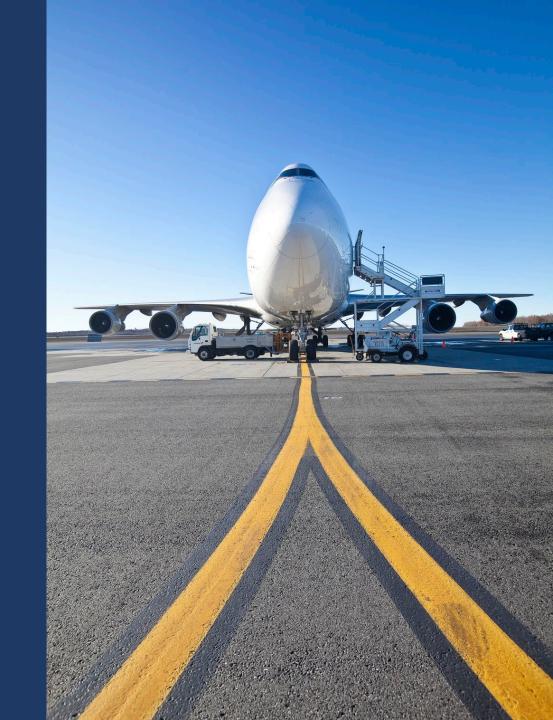
TED STEVENS ANCHORAGE INTERNATIONAL AIRPORT

- What is an Airport Master Plan
- Master Plan Process and Schedule Overview
- Goals and Objectives Update
- Forecast of Aviation Activity
- Facility Requirements
- Next Steps / Meetings



- What is an Airport Master Plan

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ANC MASTER PLAN

WHAT IS AN AIRPORT MASTER PLAN?

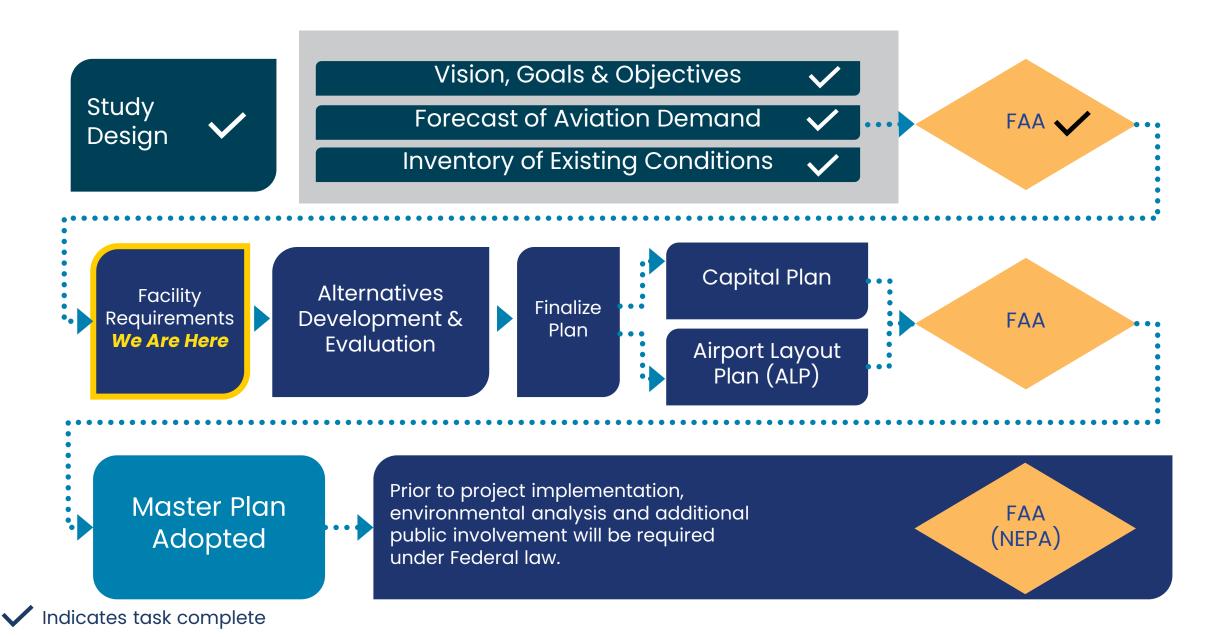
"An airport master plan is a comprehensive study of an airport and usually describes the short-, medium-, and long-term development plans to meet future aviation demand."

-FAA Advisory Circular 150/5070-6B Airport Master Plans

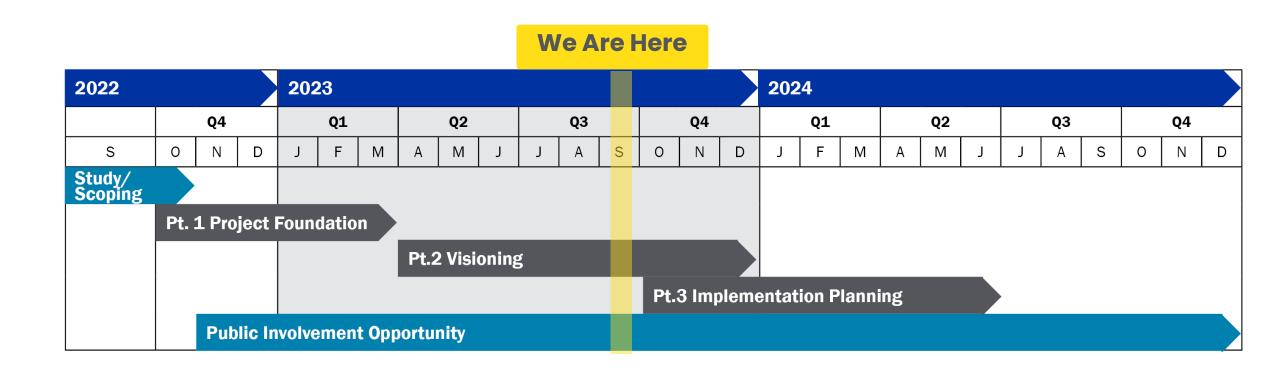
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MASTER PLAN PROCESS OVERVIEW



PROJECT SCHEDULE OVERVIEW



The Master Plan Update will take about 28 months to complete, from September 2022 to December 2024.

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GOALS AND OBJECTIVES



Maintain or enhance the safe operation of the Airport

Efficiency

Maintain or enhance the efficient operation of the Airport

Environmental Sustainability

Minimize the impact of airport development through environmental awareness

Fiscal Sustainability

Maintain the long-term fiscal sustainability of the Airport

Land Management

Facilitate long-term Airport development through strategic land management planning

Communication

Engage stakeholders through open communication

Resilience

Minimize impact of operational interruptions and disruptions







ANC MASTER PLAN

Comment Highlights To Date

Things to Consider

- Noise
- Smell
- Air quality
- Nearby neighbors
- Accommodate freight growth
- Flight path management
- Transportation options to/from airport
- Improved IT solutions to track carbon emissions
- Development close to residential areas, schools, and parks
- Need for additional runway capacity either at ANC or another location

Ideas

- On-site hotel
- Quiet hours at the airport
- Mini movie theatre similar to Portland's Airport
- Rail connection
- Cargo airport on Fire Island (or new airport elsewhere)
- Roundabout at Sand Lake Road & Raspberry



In support of

- Refrigeration building
- Updating master plan in general Growth/expansion (facility improvements)
- Bringing in more airlines
- Improve NAVAIDs & Air Traffic sequencing to use

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ANC MASTER PLAN

Projections of future levels of aviation activity

How will future activity change?

Determine the need for future facilities
 What facility changes would be needed to meet future activity?

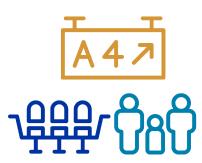
Forecast Focus

WHAT IS A FORECAST?

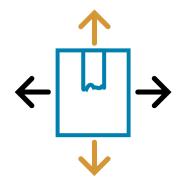
Aircraft Operations



Passengers



Cargo



General Aviation



METHODOLOGY

1. Alaska Economics

- State and Anchorage population growth
- State and Anchorage economic and job growth



2. U.S. Economics

• Alaska as a tourist destination



3. Global Economics and Trade Asia-Americas trade



4. FAA Terminal Area Forecast (TAF) Benchmark

 FAA produces an annual forecast of passenger enplanements and operations for all U.S. Airports



Aircraft Operations

Anticipated Growth

226K Operations in 2022

276K Operations in 2032

326K Operations in 2042

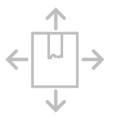


Operations

- Forecast of Operations
 One plane landing or taking off is an operation
- Drivers of Operations Growth
 International trade and economics (cargo)
 Changes in aircraft types (airplane size)
 Changes in airplane use (load factors)
- Anticipated Rate of Growth:
 1.8% per year over the 20-year planning period

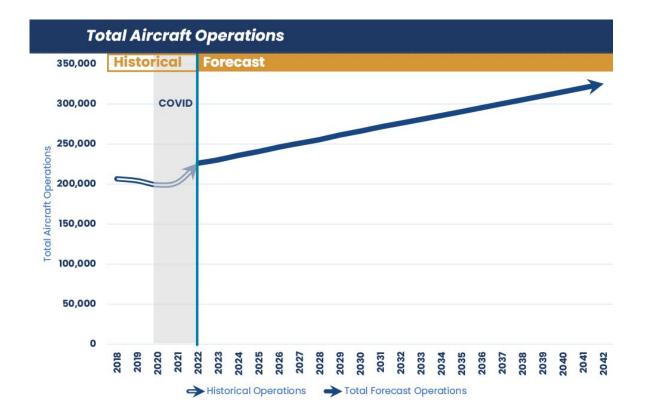








Aircraft Operations







ANC MASTER PLAN

What Does This Mean?

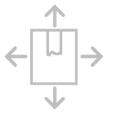
How busy is ANC today?

2022 was ANC's busiest recent year
226,346 operations
26th Busiest US Airport (Source: ACI-NA)

Who is the busiest?

Atlanta ranks 1st – 707,000 ops Seattle ranks 11th – 375,000 ops

- Who are ANC's peer airports (in 2022)?
 A little smaller MEM (Memphis, TN) 215,000 ops
 A little larger SFO (San Francisco, CA) 266,000 ops
- How busy might ANC be in 10 years?
 About as busy as SFO is today





Anticipated Growth

2.6 million enplanements in 2022

3.4 million enplanements in 2032

4.1 million enplanements in 2042

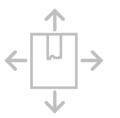


Passenger Activity

- Forecast of Enplanements
 One person boarding a plane at ANC is a passenger enplanement
- Drivers of Passenger Growth
 Alaska population and job growth
 U.S. tourism demand for Alaska
 International tourism demand for Alaska
- Anticipated Rate of Growth
 2.3% per year over the 20-year planning period

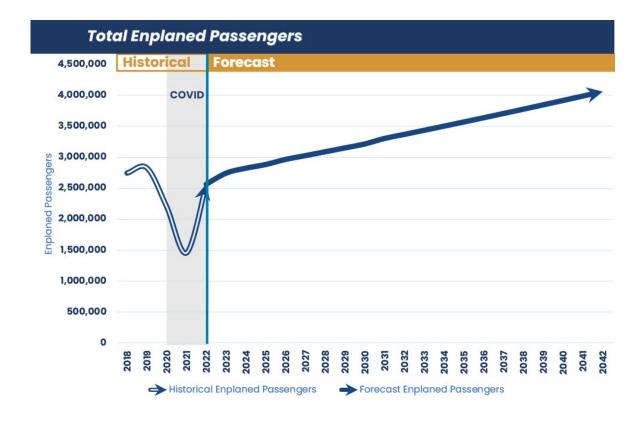








Passengers





What does this mean?

How busy is ANC today?

2019 was ANC's busiest year
2.8 million enplanements
59th Busiest US Airport

Who is the busiest?

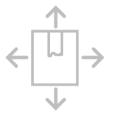
Atlanta ranks 1st – 54 million enplanements (2019) Seattle ranks 11th – 25 million enplanements (2019)

• Who are ANC's peer airports?

MKE in Milwaukee, WI is a little busier than ANC









Passengers



Comparing ANC to MKE

ANC 2019

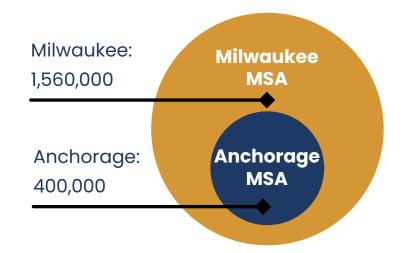
ANC 2032

2.8 Million
Enplanements

3.4 Million
Enplanements

MKE 2019

MSA Population Comparison





Cargo

Anticipated Growth

3.6 million tonnes in 2022

4.9 million tonnes in 2032

6.2 million tonnes in 2042





ANC MASTER PLAN

Cargo

Forecast of Air Cargo (Tonnes)

The forecast considers cargo that is moving to and from Alaska and within Alaska

International cargo moves between Asia and the Americas but transits through ANC

Drivers of Cargo Growth:

Alaska's economy and international economics

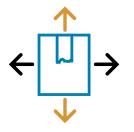
Alaska has a high demand for air cargo

ANC is a key stop for Asia-America air cargo trade

Cargo growth at ANC is primarily driven by global economic forces, not local or state economics

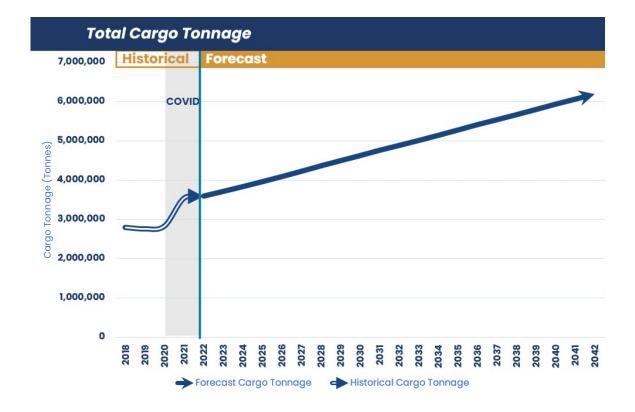
Anticipated Rate of Growth:

2.8% per year over the 20-year planning period





Cargo





What does this mean?

How busy is ANC today?

ANC was the world's 3rd busiest cargo airport in 2022 at 3.6 million tonnes

Who is the busiest?

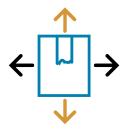
Hong Kong – 1st globally at 4.2 million tonnes Memphis – 2nd globally at 4.1 million tonnes

Who are ANC's peer airports (in 2022)?

ANC does not have a cargo peer – ANC is a unique cargo facility with significant landed weight but relatively limited cargo handling and processing.









General Aviation

Anticipated Growth

29,000 operations in 2022

32,000 operations in 2032

35,000 operations in 2042



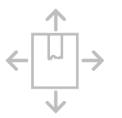
General Aviation

- General Aviation Operations
 Includes business jets and other small aircraft
 GA is about 13% of all ANC operations
 Lake Hood activity is not included in the forecast
- Drivers of General Aviation Growth:
 Local, state, and national economic forecasts
- Anticipated Rate of Growth
 1.0% per year over the 20-year planning period
 ANC GA activity will grow slightly and follow U.S. trends

GA operations are expected to decrease to about 11% of operations in 2042.



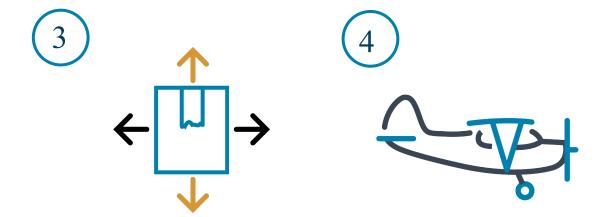






Forecast Summary





ANC MASTER PLAN

Forecast Summary

1. More takeoffs and landings:

ANC is a busy airport with about 226,000 operations per year.

The forecast anticipates 100,000 additional operations in 20 years.

2. More passengers:

ANC is expected to grow from 2.6 million enplanements in 2022 to 4.1 million enplanements in 2042.

3. ANC will continue to be critical cargo stop:

ANC has an essential role in the Asia-America air cargo market that is unlikely to change in the future.

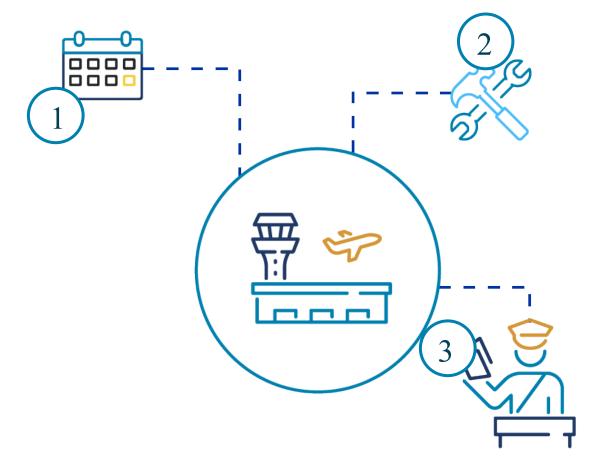
4. General Aviation will grow slowly:

ANC is expected to see modest general aviation growth in line with other U.S. airports.

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Facility Requirements



ANC MASTER PLAN

Facility Requirements

1. Projections of future facility needs

 What facility improvements are needed for ANC to accommodate forecast growth

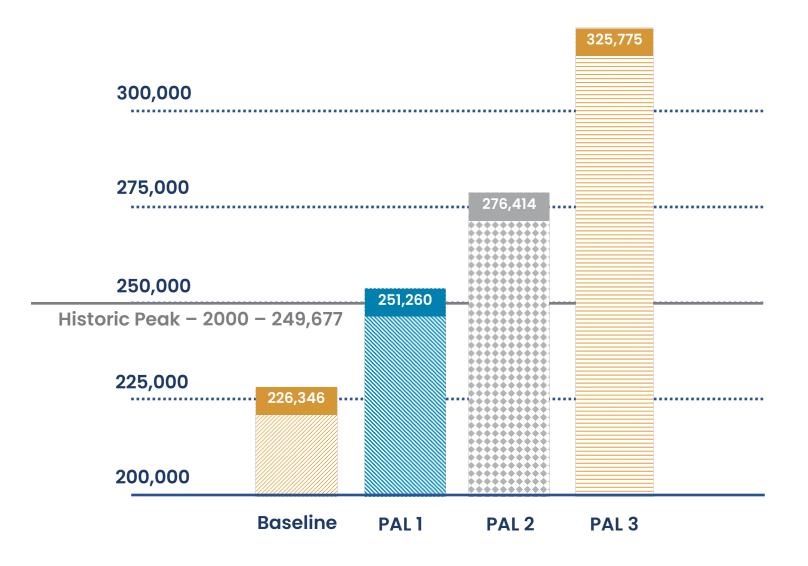
2. How Are Facility Requirements Derived?

- Analysis based on projected growth in operations, passengers, cargo, and general aviation
- Input from airport staff, tenants, and FAA
- Input from airline personnel and operators
- Facility observations by the technical team
- Consultant analysis based on experience at similar airports

3. Projects when improvements are needed

 Need for future facilities are tied to Planning Activity Levels, not years

PALs - Operations

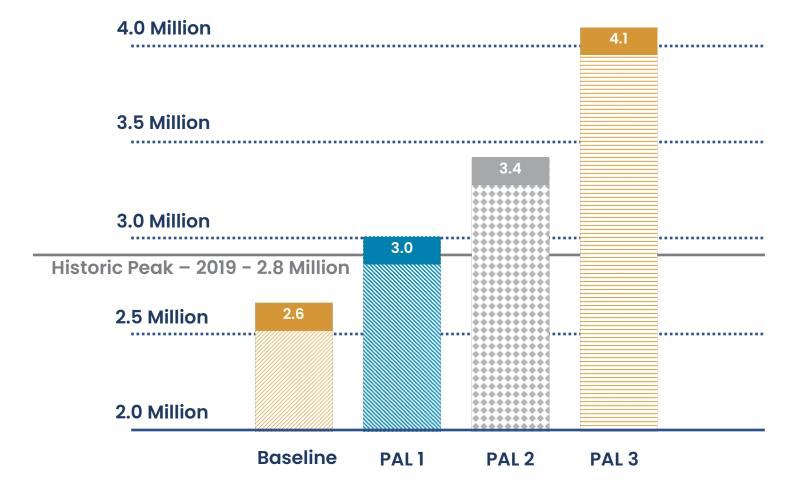


Future Aviation Activity

Annual Operations
 1.8% Average Annual
 Growth Rate



PALs - Enplaned Passengers

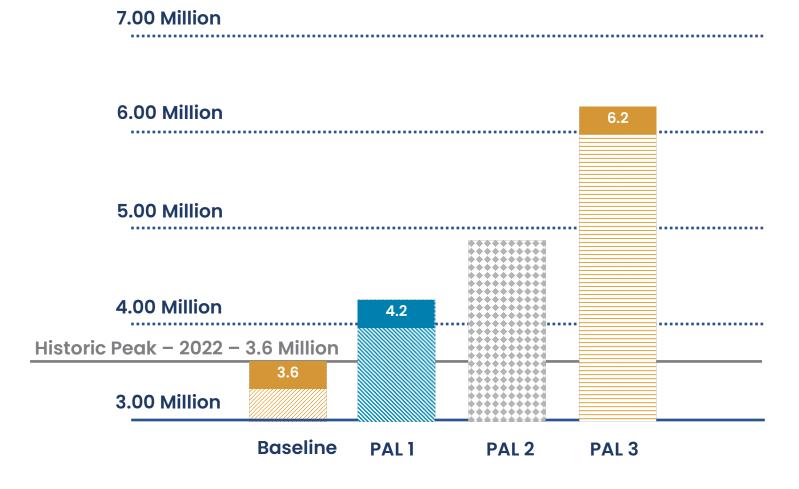


Future Aviation Activity

Annual Enplaned
 Passengers
 2.3% Average Annual
 Growth Rate



PALs - Cargo Tonnes



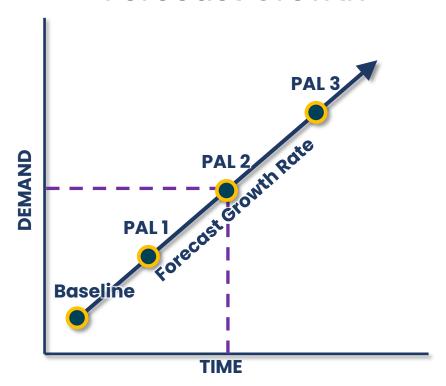
Future Aviation Activity

 Annual Cargo Tonnes 2.8% Average Annual Growth Rate



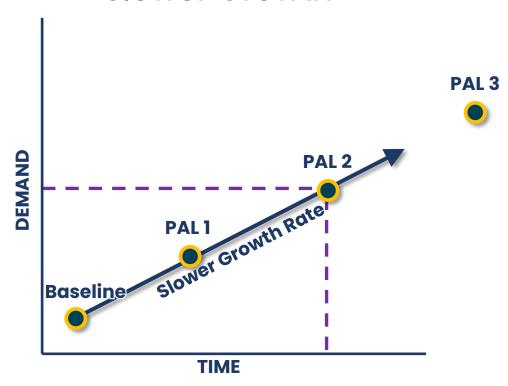
Facility Requirements

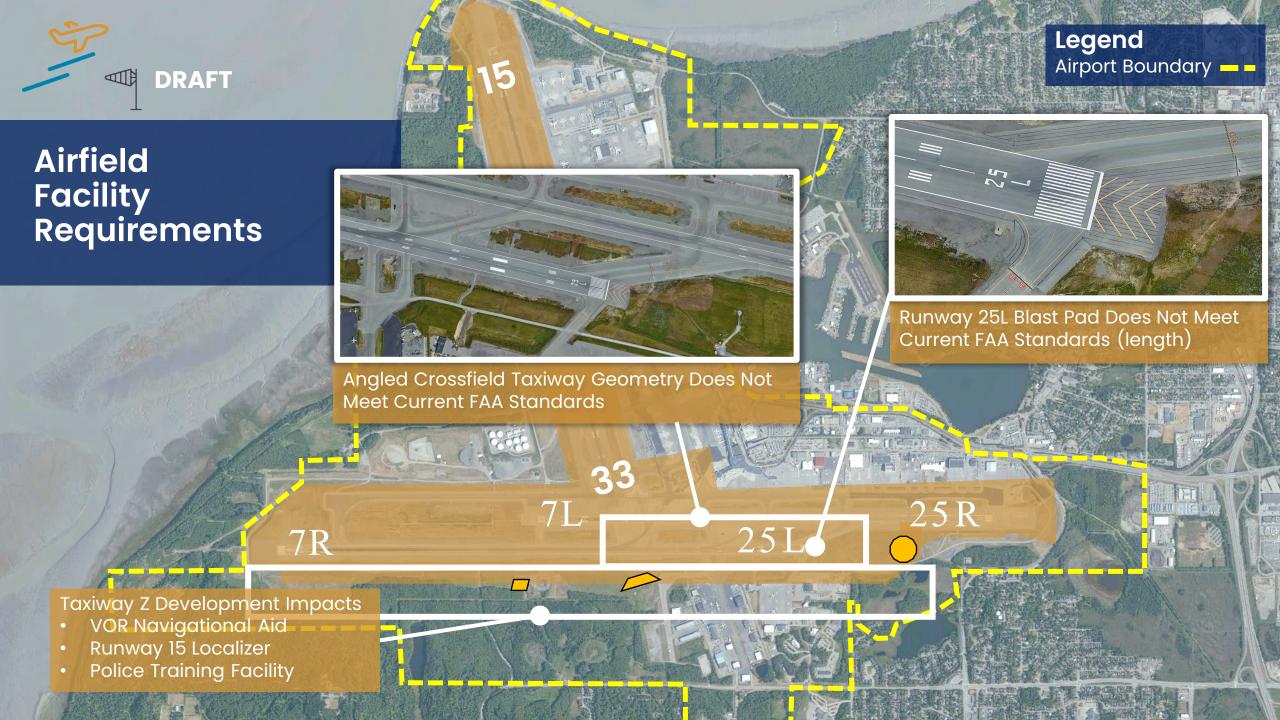
Forecast Growth



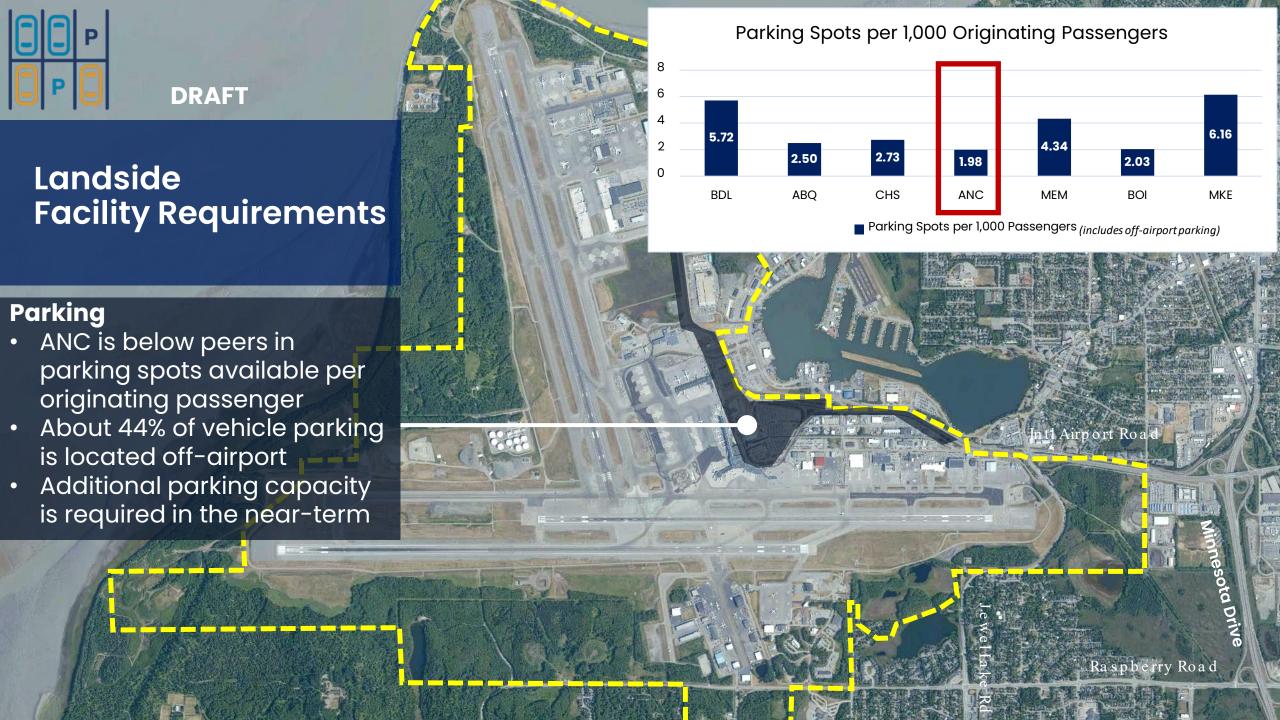
Planning Activity Levels (PALs)

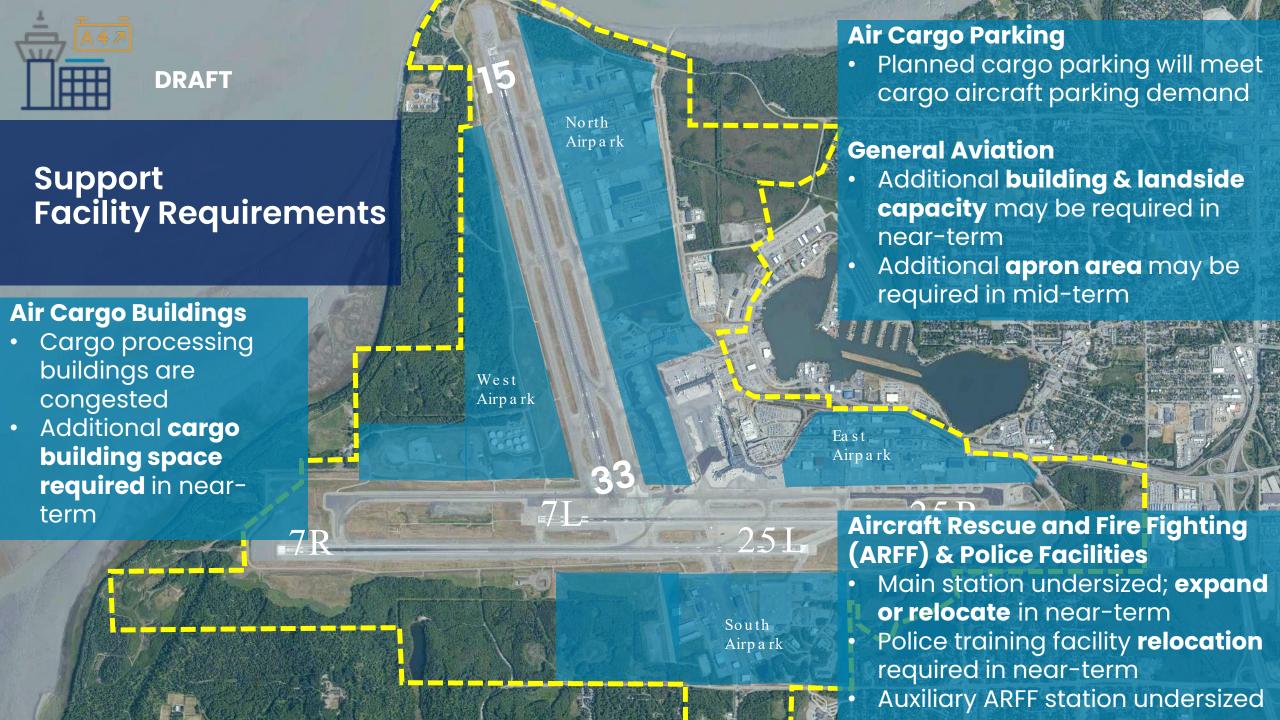












Facility Requirements





ANC MASTER PLAN

Facility Requirements Summary

Airside

Modest taxiway and runway improvements are required to meet FAA airfield design standards.

Terminal

Expand the South Terminal or increase use of the North Terminal to meet future demand for passenger flights and add gates.

Landside

Airport parking supply does not meet demand and should be increased to provide more on-airport parking.

Cargo handling

Additional warehousing and cargo processing infrastructure is anticipated. Cargo plane parking currently in development will meet projected demand.

Support Facilities

Aircraft Rescue and Fire Fighting (ARFF) expansion and modernization will be required.

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