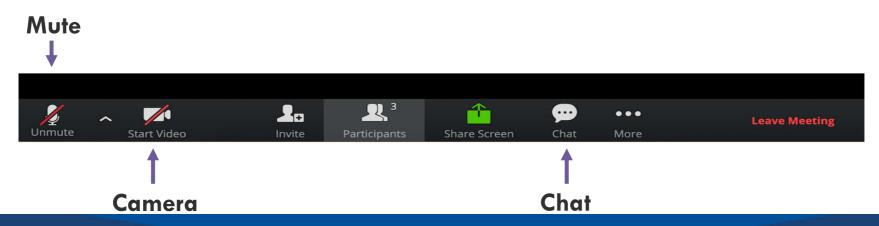
Thank you for your participation.

The meeting will begin shortly.

- During this meeting, your camera will be off and your microphone muted.
- The presenters and presentations will be featured on your screens for the duration of the meeting.
- Please submit questions and comments using the Chat function. These will be addressed during the Questions/Comments portion of the agenda.
 - Turn on the "Chat" to submit.







Agenda

Welcome/Opening Remarks

State of TPA

Master Plan Update

- 2022 Master Plan Update Overview
- Aircraft Gate Requirements
- Airside D
- Terminal Area Capabilities for Serving 35 Million Annual Passengers
- Airfield Capacity
- Next Steps









Tampa International Airport Update

2022 Master Plan Update Public Outreach



TAMPA INTERNATIONAL AIRPORT



Annual Passengers
23,448,336
(Projected for FY23)
Daily Average 64,242



Highest Traffic Month

March

2,252,769



Lowest Traffic Month September 1,336,353 4 Airsides / 58 Gates



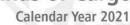


66Shops & Restaurants

23,000 Approx. Parking Spaces



436,618,673
Pounds of Cargo



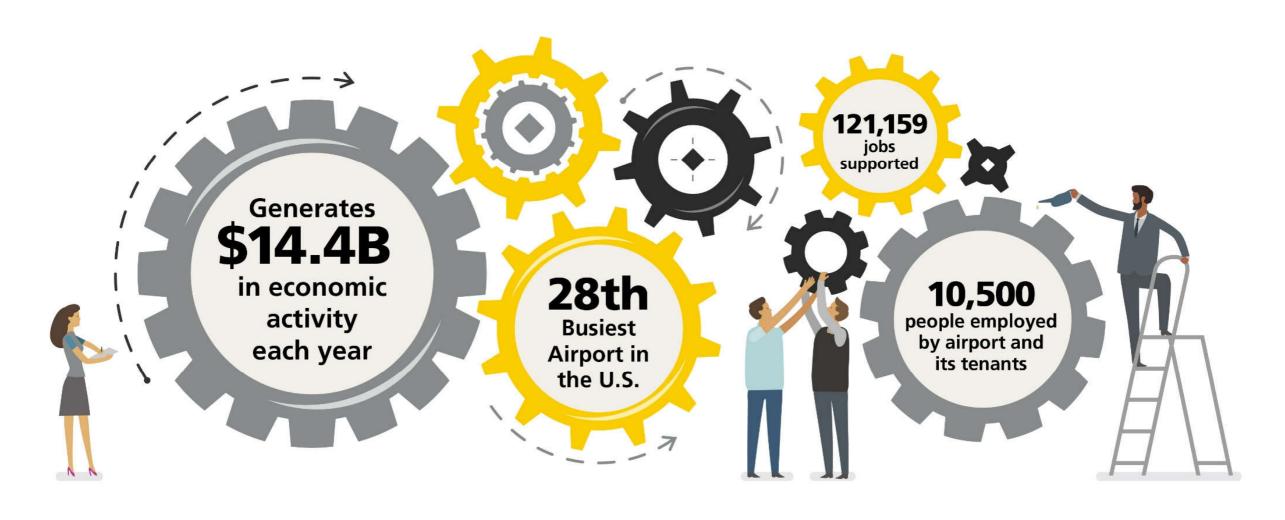


3 HCAA General Aviation Airports

Peter O. Knight, Plant City, Tampa Executive







Source: FDOT Aviation Economic Impact Study 2019

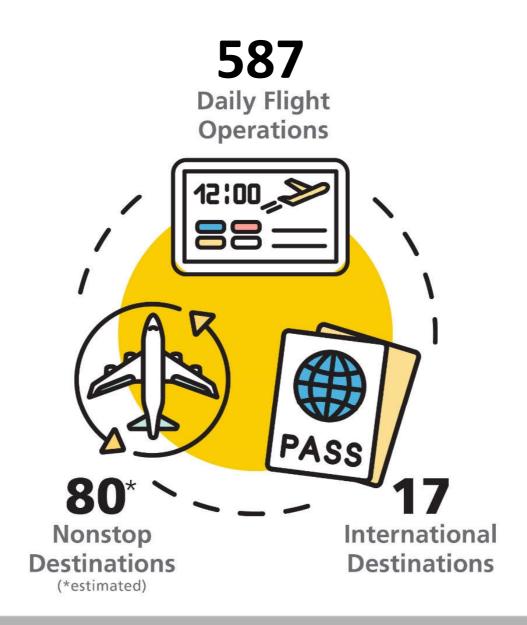


Top 3 Largest Airline Market Share by percentage









Top 10 Markets for Tampa

- 1. New York
- 2. Chicago
- 3. Detroit
- 4. Atlanta
- 5. Philadelphia
- 6. Denver
- 7. Boston
- 8. Dallas
- 9. Minneapolis
- 10. Baltimore



Fundamentals of Our Business

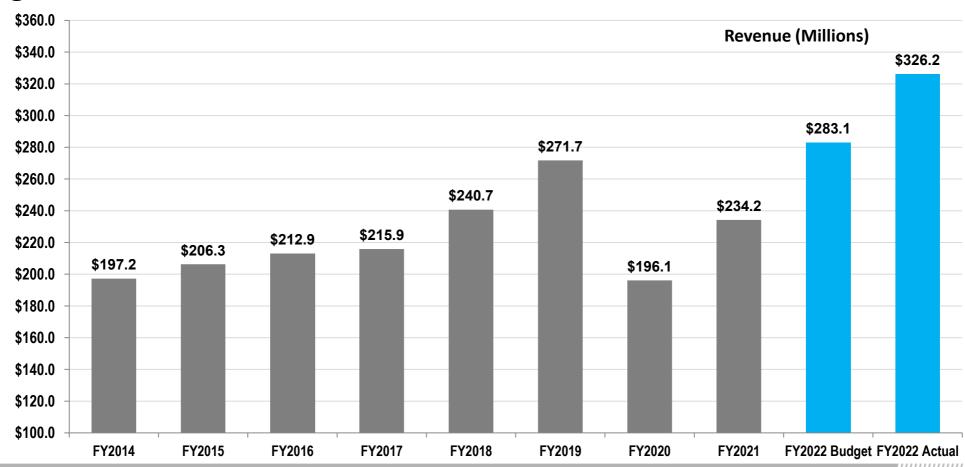
- Unique independent special district
 - Single business purpose government
 - Own, operate all public airports in the County
- Federally regulated
 - Must be self-sustaining
 - Our revenues can only be used at the airport and must be tied to airport purposes; cannot go to other community projects





FY2022 – Gross Operating Revenues

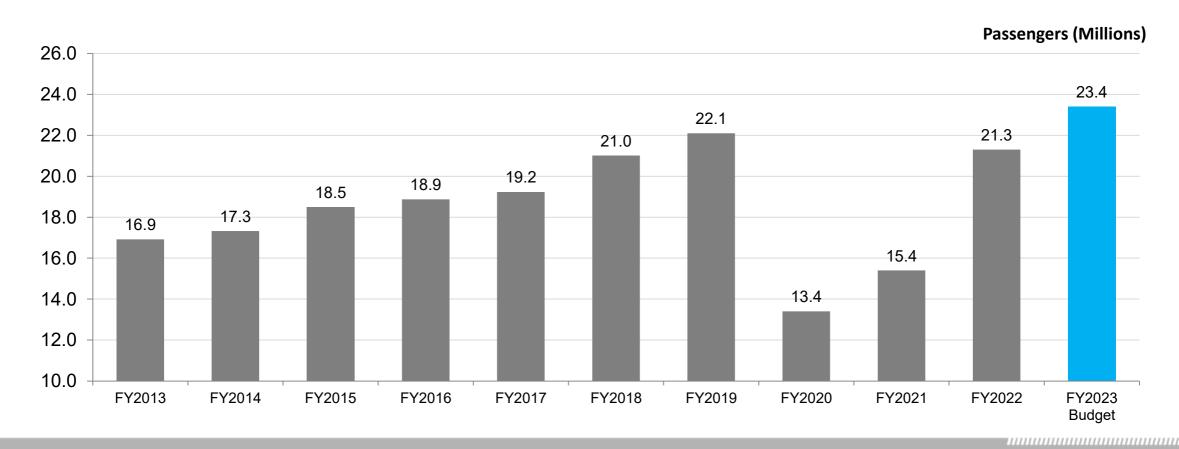
Tampa International Airport generated \$326,242,147 in operating revenues during FY2022, \$92 million higher than FY2021





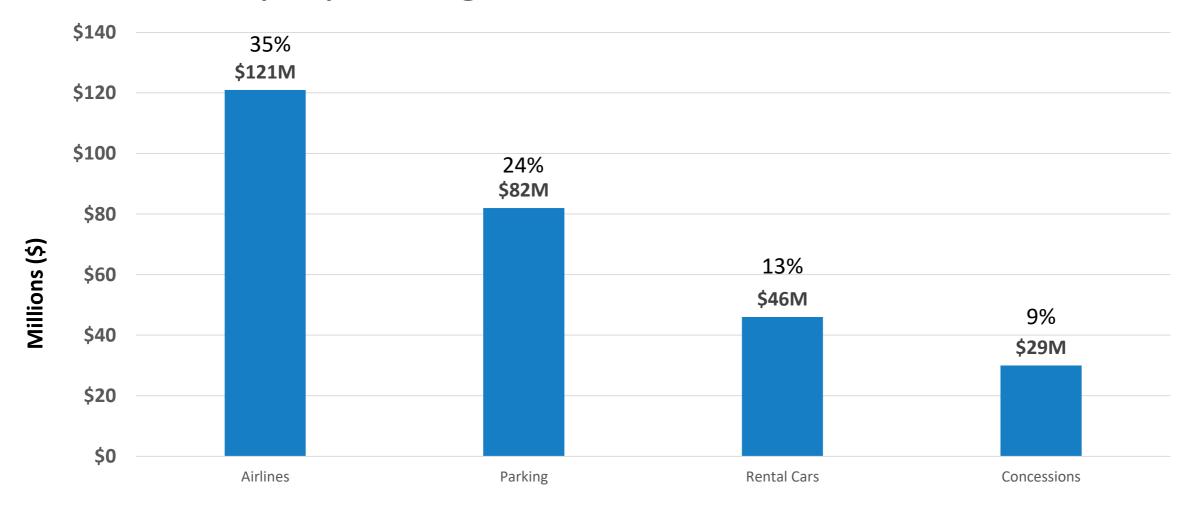
FY2023 Passenger Projection

Tampa International Airport is projected to handle 23,448,336 passengers during FY2023, an 9.7% increase versus FY2022 and 5.2% ahead of FY2019 pre-pandemic levels





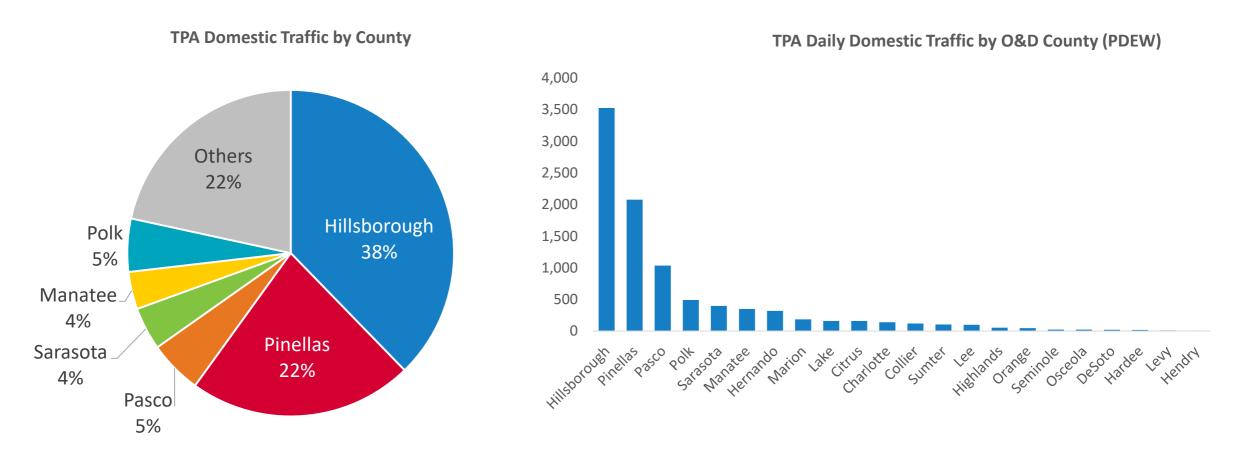
FY2023 Top Operating Revenue Sources (budgeted)





Hillsborough & Pinellas Contribute 60% of Originating Traffic

Over 3,700 daily originating passengers come from other area counties



Source: ADI Airport Catchment Analytics (YE June 2022) – TPA Primary and Secondary Catchments



New Airlines

virginatlantic









TPA Largest Unserved

Domestic	
City	2019 PDEW
SAN	202.9
SMF	80.6
SNA	66.7
SJC	62.5
GSO	60.8
ABQ	56.3
MSN	46.1
AVL	42.8
OAK	42.6
RNO	40.0
DSM	39.2

International	
City	2019 PDEW
AMS	51.7
CDG	37.4
FCO	34.2
SJO	31.2
DUB	27.7
SDQ	25.9
PUJ	25.7
MEX	23.3





Source: Diio Mi YE Dec 2019, PDEW= Passengers Daily Each Way



Air Service: Pitching TPA and Tampa Bay

October 2022 | Las Vegas

37 Airline Meetings Held

















































































Team Introduction





RICONDO TEAM



Years of Airport
Consulting Experience



Sebastien Carreau

Technical Services Lead

RICONDO®

20 Years of Airport Consulting Experience



AECOM





















What is an Airport Master Plan Update?

"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 Responds to the local and regional air transportation needs

7

Serves as a roadmap for achieving HCAA's vision and airport improvement strategies for TPA



Reflects new and emerging industry trends



Ensures compliance with ongoing changes in airport design criteria



Guides future airport development and enhancements





Why Prepare a Master Plan Update?



Anticipate and prepare for future demand



Remain proactive, given the economic value of TPA as a gateway to the West Coast of Florida



Prepare a strategy for the cohesive development of the Airport



Maintain long-term financial sustainability



Leverage state and federal funding sources

Culminates with an updated Airport Layout Plan







Federal Aviation
Administration
Airport Improvement
Program (AIP)





TPA's 2012 Master Plan Update History

Phase 1: Decongestion

Phase 2: Enabling

Phase 3: Expansion

COMPLETE

Rental Car Center



Automated People Mover



Main Terminal Expansion and Concessions Redevelopment



COMPLETE





Curbside Expansion



COMMENCING

Airside D Design and Construction (16 domestic/international swing-gates)





2022 Master Plan Update Goals



Formulate 20-year forecasts for the Airport





Revalidate Airside D plan and assess timing for the initial buildout of the North Terminal





Identify newer or emerging trends and technologies





Validate the Terminal, roadway and curbfront capabilities to serve 34-million annual passengers





Assess TPA's existing airfield capacity



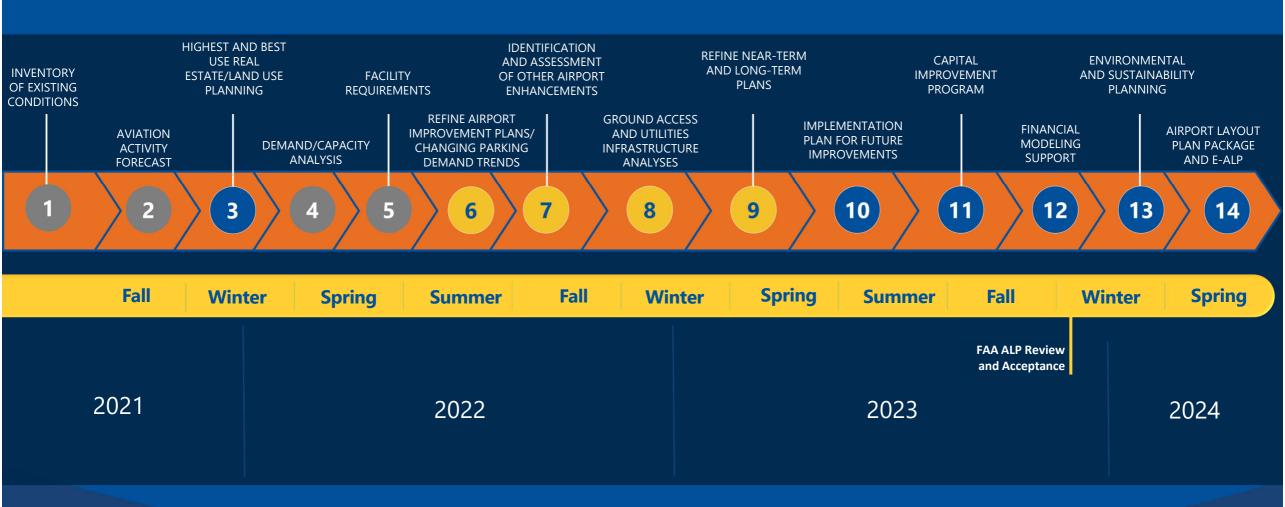


Assess needs and opportunities for additional capacity enhancements

In-Progress



2022 MPU Project Schedule







Inventory of Aircraft Gates per Airside

GATES

Domestic

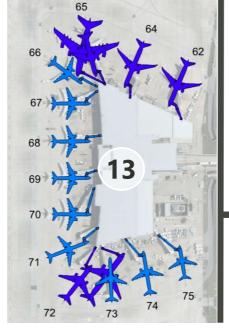
50¹

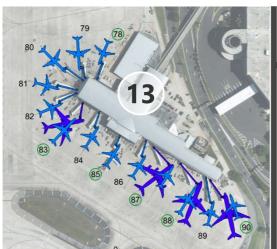
International

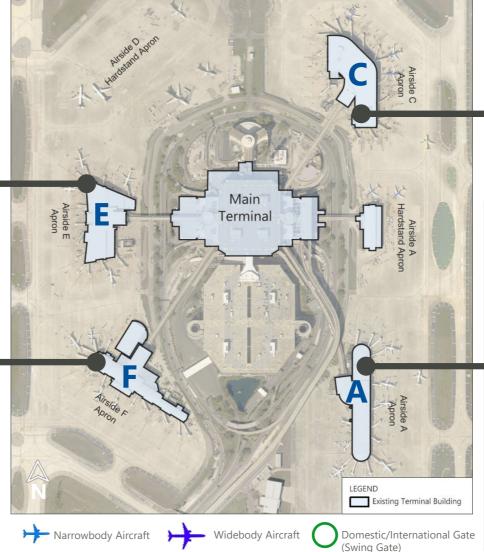
6

Total

56









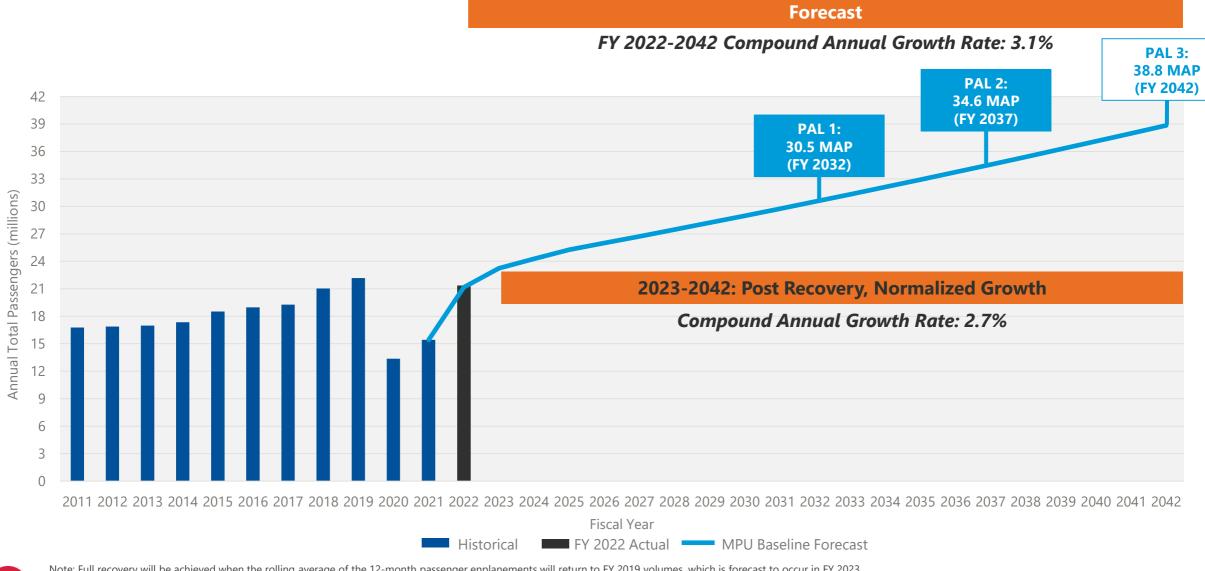


¹ Domestic Gates Only. Gates A1 and A3 are excluded from this inventory since they are used predominantly for commuter operations.



(MPU)

2022 MPU Planning Activity Levels (PALs)





FY 2032 | PAL 1 (30.5 MAP) Aircraft Gate Requirements

Airside CAdditional Gates Needed



Airside E
Additional Gates Needed

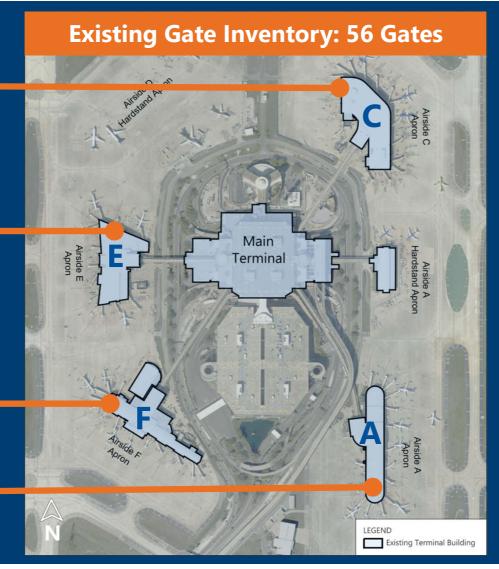


Airside F
Additional Gates Needed



Airside AAdditional Gates Needed





TOTAL GATES NEEDED

69 (Deficit of 13)



FY 2037 | PAL 2 (34.6 MAP)

Aircraft Gate Requirements











TOTAL GATES NEEDED

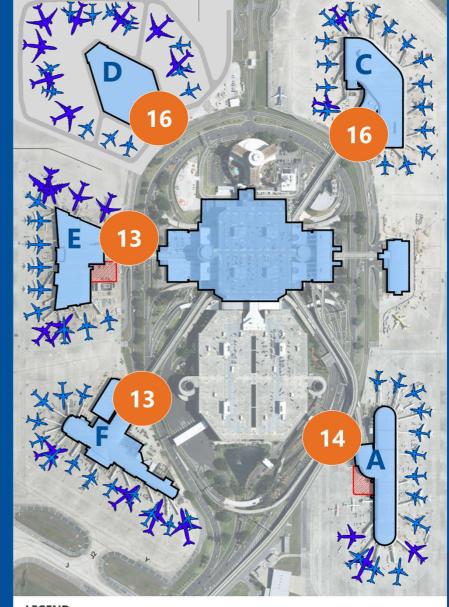
75 (Deficit of 19)



Airside D Gate Capacity Contribution

Implementation of Airside D, combined with airline relocations, adequately meets the gate needs for PAL 1 (FY 2032) and PAL 2 (FY 2037), which is when the Airport is projected to reach approximately 35 Million Annual Passenger (MAP).

Resulting Gate Inventory: 72 Gates













Airside D Program

16 Aircraft Gates

3 level domestic and international airside terminal

560,000 square feet









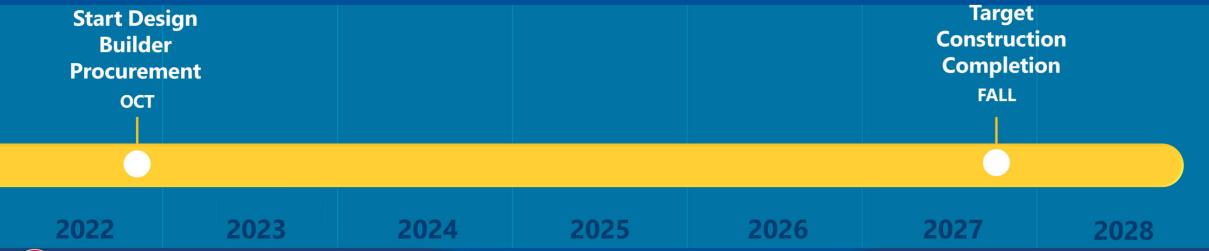




Characteristics and Timeline

The three-level facility will include, at a minimum, the following:

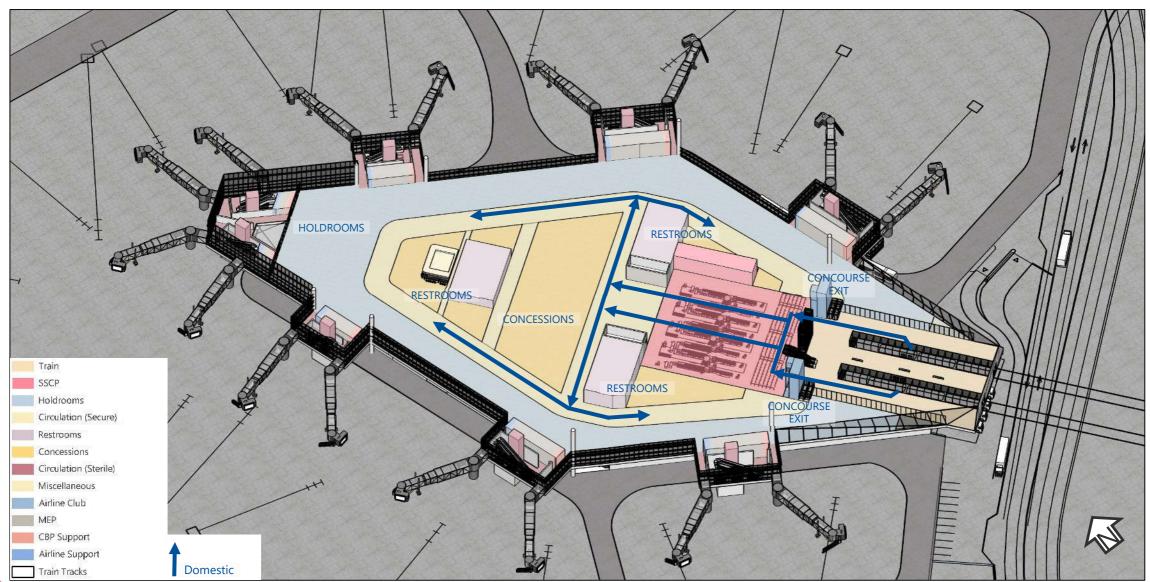
- Airline functions on all levels
- Transportation Security Administration (TSA) Security Screening Checkpoint
- TSA Checked Baggage Inspection System (CBIS) and Checked Baggage Reconciliation Area (CBRA)
- U.S. Customs and Border Protection (CBP)
- Concessions and other commercial programs
- Common building spaces, restrooms and circulation corridors
- Shuttle Station for connectivity to the Main Terminal





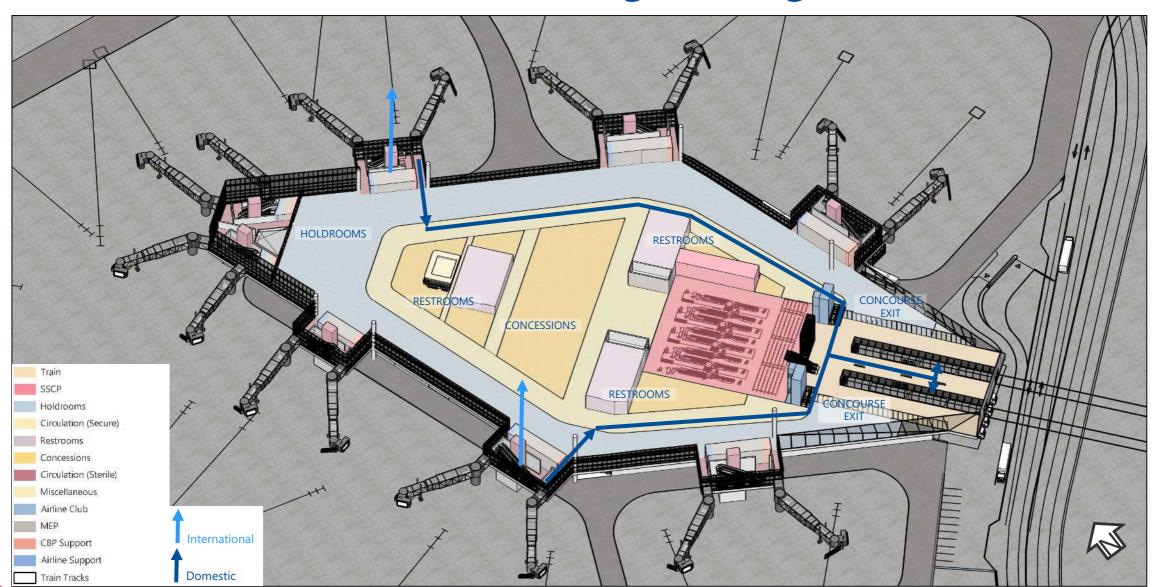


Concourse Level (Level 2) – Departing Passengers





Concourse Level (Level 2) – Arriving Passengers



Passenger Flows

Airside and Aircraft Gates

Landside and Ground Transportation



Departing Passengers

Airside and Aircraft Gates```

Landside and Ground Transportation



Arriving International Passengers

Arriving Domestic Passengers



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Airside D Funding Plan

- In September 2022 the Authority Board approved \$787,384,000 for the Authority's Airside D Development program, commonly known as Master Plan Phase 3 as part of the \$891 million FY2023 Capital Budget
- Master Plan Phase 3 will be funded by a combination of funding sources with approximately 49% of the total funded by either third-party grants or PFCs.

			•				
Federal Federal							
	Project Title	Estimated Cost	Infrastructure Funds	FDOT Grants	PFC-Backed Bonds	Bonds	
	Airside D Development	\$787,384,000	\$38,710,317	\$111,656,611	\$232,000,000	\$405,017,072	

- More than \$637 million of the Airside D Development project costs will be paid for via the issuances of two bond issuances during the fourth quarter of 2024; a \$405 million issue of revenue backed senior lien bonds and a separate issue of \$232 million of PFC-backed subordinate lien bonds
- The \$38.7 million in Federal Infrastructure Funds planned for Master Plan Phase 3 was provided to the Authority as part of the \$25 billion Bipartisan Infrastructure Law funding provided by Congress in 2021





Level of Services (LOS) Standards



OVERDESIGN



ADRM 11TH	ADRM			
EDITION	9TH EDITION	FLOWS	DELAYS	COMFORT
Over Design	A - Excellent	Free	None	Excellent
Over Design	B - High	Stable	Very Few	High
Optimum	C - Good	Stable	Acceptable	Good
Suboptimum	D - Adequate	Unstable	Passable	Adequate
Suboptimum	E - Inadequate	Unstable	Unacceptable	Inadequate
Under-Provided	F - Failure	System Breakdown	System Breakdown	Unacceptable





Conditions of stable flow, acceptable or very few delays and good or high levels of comfort.)

Source: International Air Transport Association (IATA).

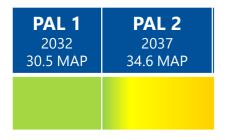


2022 Tampa International Airport Master Plan Update (MPU)

Facility Capacity Performance – Arrival Level

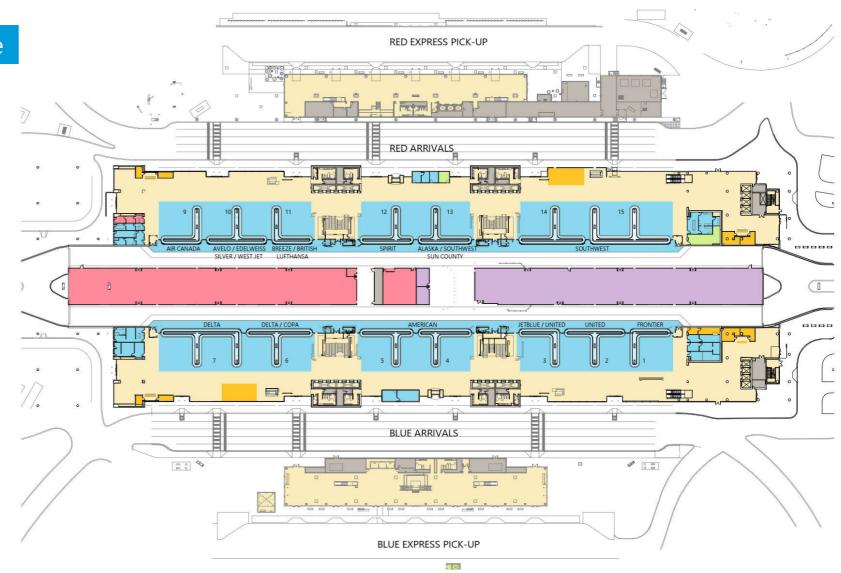
Arrival Level – Baggage Claims Device

Existing Units on Blue: 7 Existing Units on Red: 7



Optimum
Suboptimum
Under-Provided







2022 Tampa International Airport Master Plan Update (MPU)

Facility Capacity Performance – Departure Level

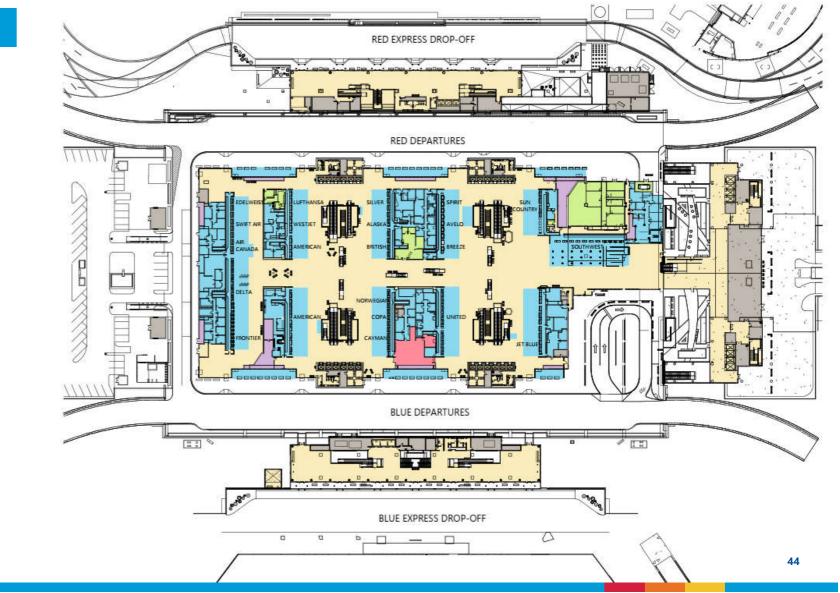
Departure Level - Check-in Counters

Existing Counters: 182

PAL 1	PAL 2
2032	2037
30.5 MAP	34.6 MAP

Optimum
Suboptimum
Under-Provided







Facility Capacity Performance – Transfer Level

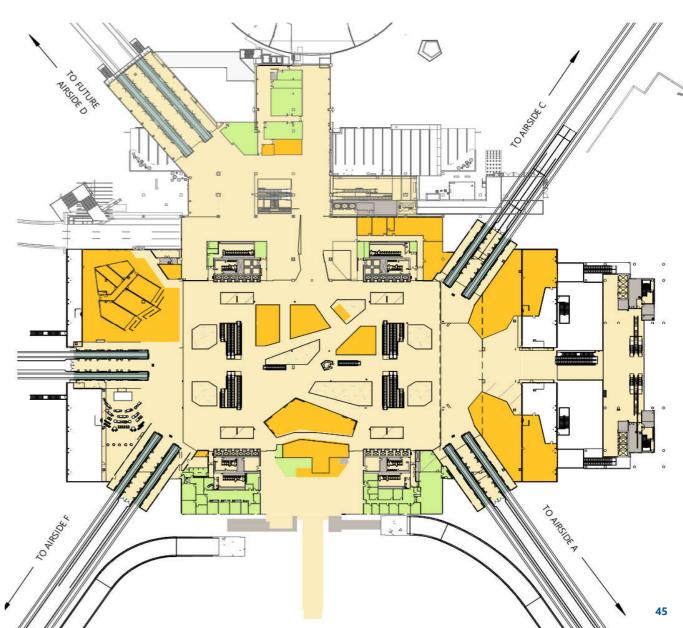
Transfer Level

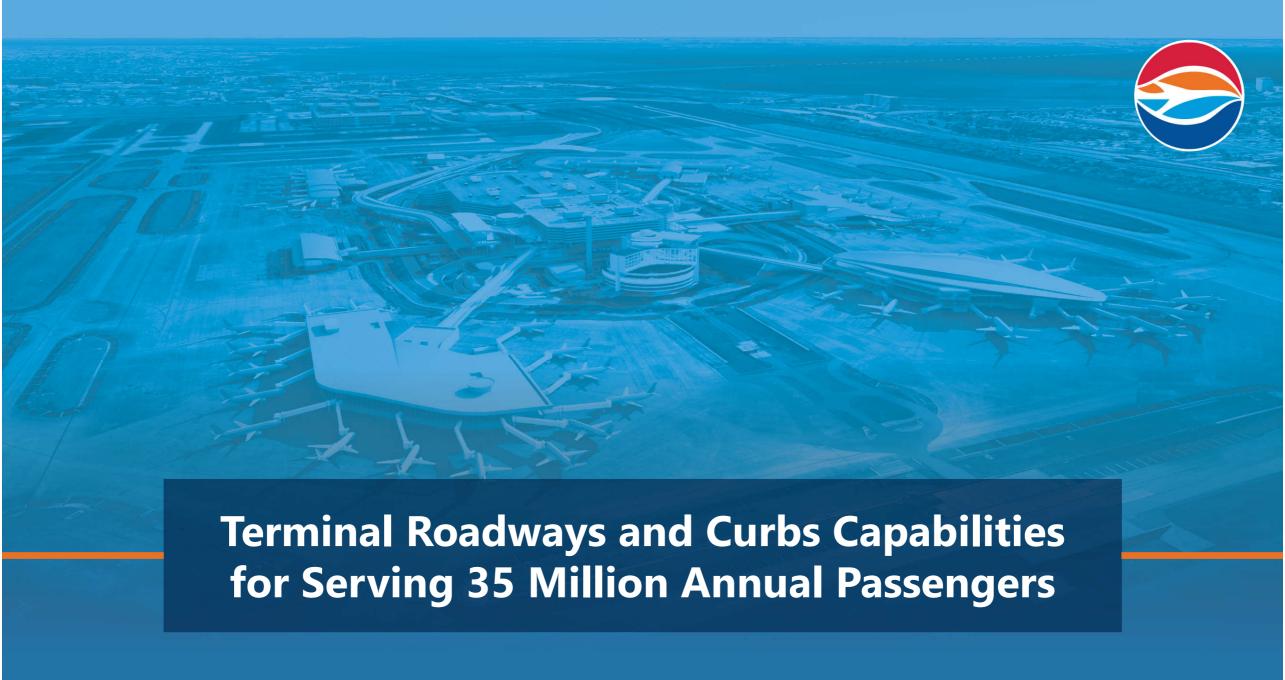
PAL 1 2032 30.5 MAP 2037 34.6 MAP

Optimum
Suboptimum
Under-Provided

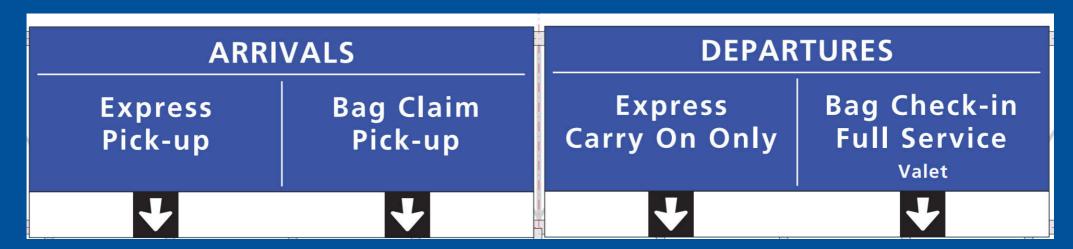








Tested Scenarios – Full Service vs. Express Curb Utilization



Scenario	Full-Service Curb	Express Curb
Scenario 1	70%	30%
Scenario 2	62%	38%
Scenario 3	52%	48%

- Since opening in Nov. 2021, the Blue Express curbs have seen differing utilization rates:
 - Blue Express Departures traffic has continued to steadily increase and has reached approx. 28%
 - Blue Express Arrivals traffic had leveled off at approx. 19.5% in the summer but has grown slightly since, reaching 21% in Sept/Oct

Performance Requirements - Curbside

- Curbside LOS were defined based on the utilization ranges for curbsides.
- LOS D or better is generally a desirable condition during peak activity periods.
- The "point of failure" for this analysis was LOS E (curb utilization of 170 percent or through lane v/c of 0.9).
- Utilization at 170 percent signifies double parking in available areas and some vehicle maneuverability restrictions.

Point of Failure

Level of Service and Utilization Ranges for Curbsides with Multiple-Lane Passenger Loading/Unloading

LOS	CURB LANE UTILIZATION RANGE	THROUGH LANE VOLUME/ CAPACITY	DESCRIPTION
А	0% - 90%	0.0-0.6	Excellent: Drivers experience no interference from pedestrians or other motorists
В	91% - 110%	0.6-0.7	Very Good: Relatively free-flow conditions with limited double parking
С	111% - 130%	0.7-0.8	Good: Double parking near doors is common with some intermittent triple parking
D	131% - 170%	0.8-0.9	Fair: Vehicle maneuverability is restricted due to frequent double/triple parking
Е	171% - 200%	0.9-1.0	Poor: Significant delays and queues; double/triple parking throughout curbside
F	> 200% 1.0+		Failure: Motorists unable to access/depart curbside; significant queuing along entry road



Curbside LOS Summary Results

Red (7:00 p.m. – 8:00 p.m.)							Blue (10:00 a.m. – 11:00 a.m.)							
		Scena	ario 1	Scena	Scenario 2		Scenario 3		Scenario 1		Scenario 2		Scenario 3	
		Full Service (70%)	Express (30%)	Full Service (62%)	Express (38%)	Full Service (52%)	Express (48%)	Full Service (70%)	Express (30%)	Full Service (62%)	Express (38%)	Full Service (52%)	Express (48%)	
PAL 1 2032	Curbside Level of Service	D	А	С	Α	С	В	D	Α	С	Α	С	В	
30.5 MAP	Thru Lane Level of Service	D	А	С	Α	С	В	С	Α	В	Α	Α	Α	
PAL 2 2037	Curbside Level of Service	D	Α	D	В	С	С	D	Α	D	В	С	С	
34.6 MAP	Thru Lane Level of Service	F	Α	D	Α	Α	Α	F	А	С	Α	Α	Α	

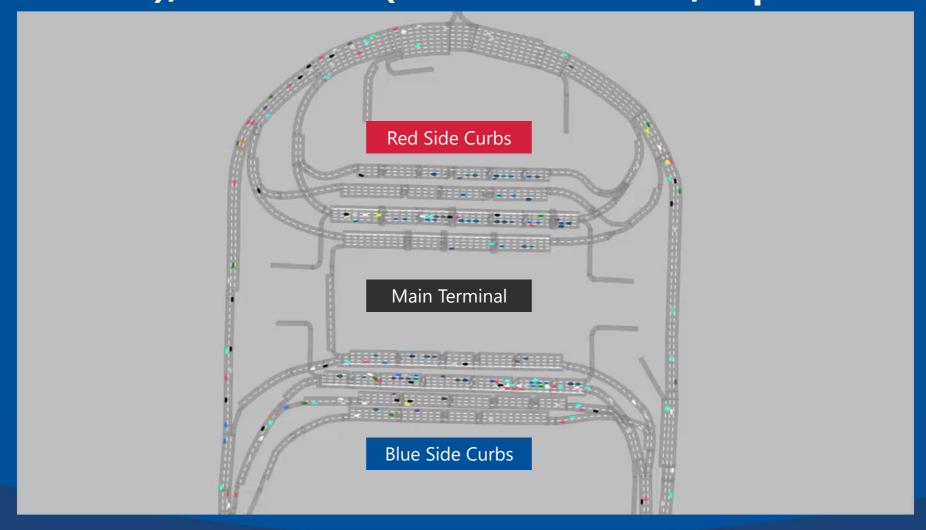
AIRSIDE D REACHES FULL UTILIZATION AT PAL 2 (34.6 MAP)

- More curb length/width is required when <u>either</u> curb LOS <u>or</u> thru lane LOS reaches LOS E/F
- PAL 2 (34.6 MAP, full utilization of Airside D) LOS is acceptable at 62/38 split

NOTES:

- 1 Individual Red/Blue Arrivals peaks shown.
- 2 Further lengthening of curb to meet LOS B/C can remove the added through lane requirement.
- 3 Assumes recirculation percentage decreases to 2018 levels as drivers/passengers become accustomed to the Express curbs. SOURCES: Hillsborough County Aviation Authority, March 2022 (data), AECOM, April 2022 (data collection and analysis); Ricondo and Associates, Inc. (analysis), August 2022.

Landside Roadway Simulation PAL 2 (34.6 MAP); Scenario 2 (Full Service: 62%, Express: 38%)



Demand/Capacity Results

	PAL 1 (2032	2, 30.5 MAP)	PAL 2 (2037, 34.6 MAP) Coincides with Airside D Full Utilization		
Full Service vs. Express Volume Split	62% Full Service 38% Express	52% Full Service 48% Express	62% Full Service 38% Express	52% Full Service 48% Express	
Terminal Curb		√	√	√	

Legend:

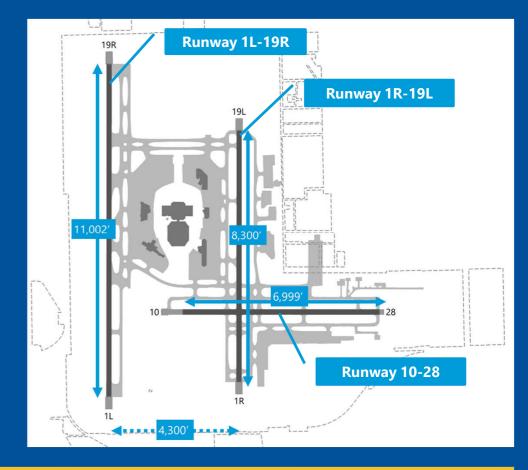
- ✓ LOS A, B, or C
- ✓ LOS D
- LOS E or F





Existing Airfield

- Runway 1L-19R
 - 11,002 feet
 - Visibility Min.: 1L: CAT III; 19R: CAT I
- Runway 1R-19L
 - 8,300 feet
 - Visibility Min.: 19L: CAT II
- Runway 10-28
 - 6,999 feet









Existing Airfield Capacity

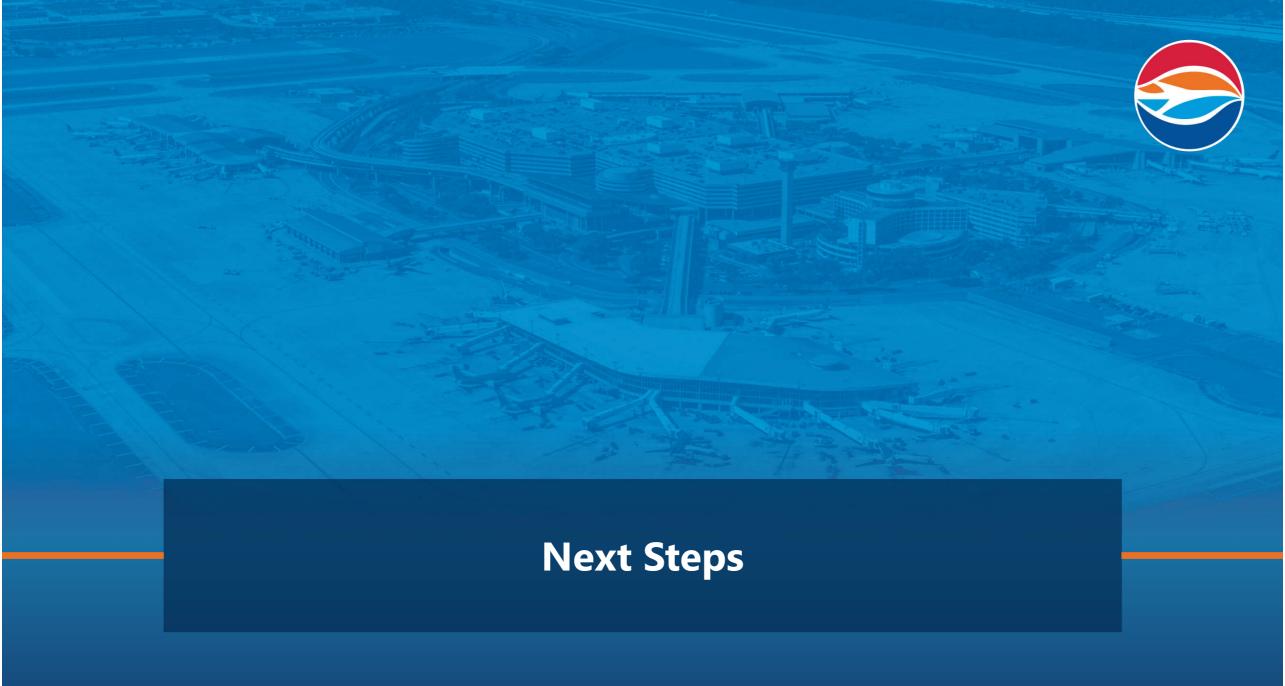
Annual Service Volume (ASV) Definition:

- Estimate of annual capacity with consideration for seasonal and daily peaking characteristics of demand.
- ASV is not static (varies in accordance with seasonal/daily fluctuations in demand patterns).









Next Steps

- Next Stakeholder Meeting
 - Spring 2023
- Master Plan Tasks:
 - Finalize Alternatives (landside, airside, terminal)
 - Formulate Capital Improvement Program
 - Complete Environmental Review
 - Prepare Final Documentation

2022 TPA Master Plan Update Webpage/Comment Form



https://www.tampaairport.com/master-plan/2022-update



