

PDX 2045

Interagency Advisory Committee

Meeting #2

May 22, 2025

Meeting goals

- Discuss recent community outreach and open houses
- Review and discuss preliminary terminal gate expansion alternatives
- Discuss preliminary landside facility needs and planning approaches

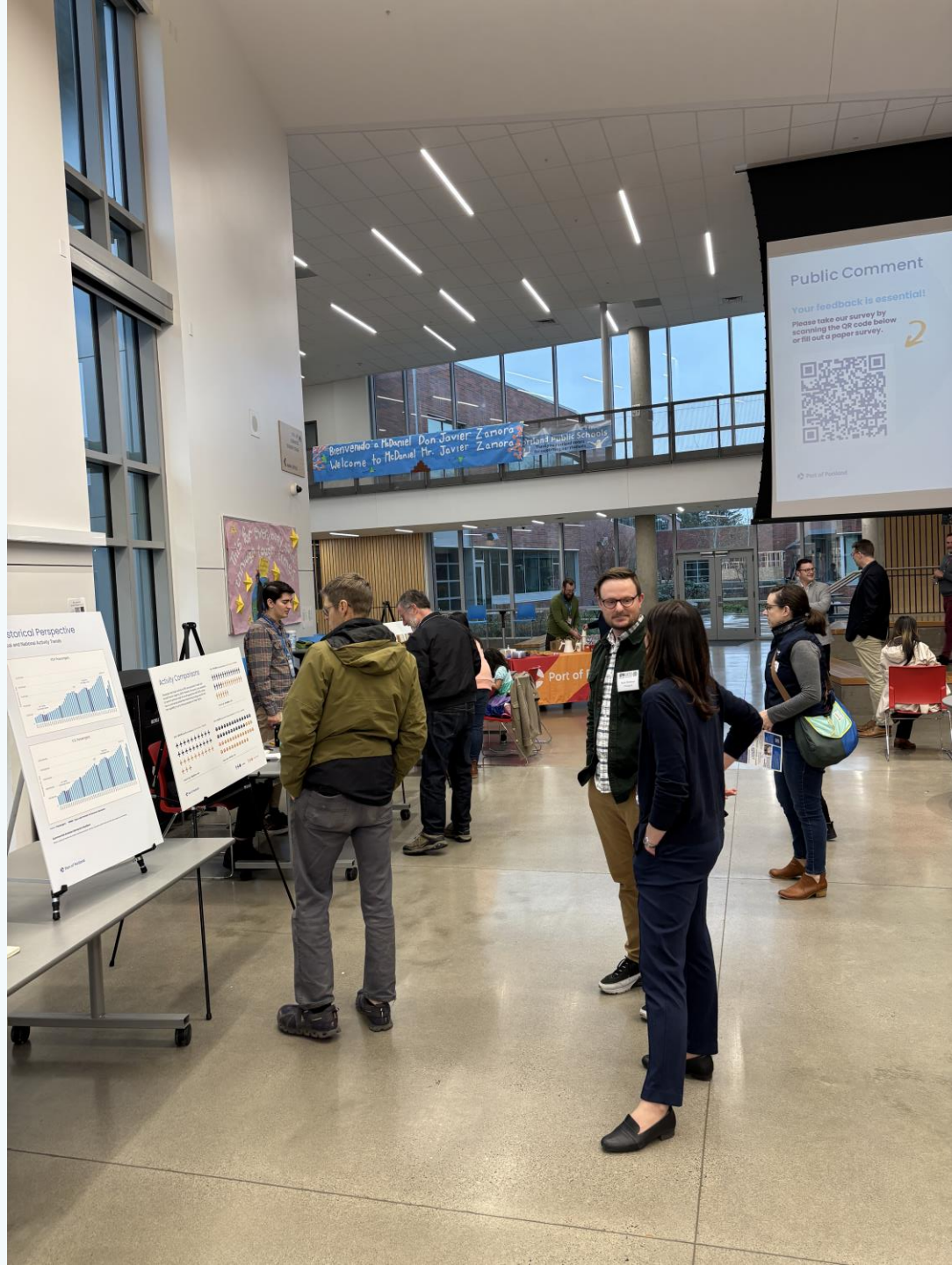
Agenda

Time	Topic
10:30 AM	Welcome and Introductions
10:40 AM	Open House & Community Outreach Updates
10:50 AM	Preliminary Terminal Gate Expansion Alternatives
11:20 AM	Preliminary Landside Facility Needs and Planning Approaches
11:45 AM	Next Steps, Q&A, and Open Discussion
12:00 PM	Adjourn

PDX 2045 IAC Invited Participant Agencies

- City of Portland
 - Bureau of Environmental Services
 - Bureau of Planning & Sustainability
 - Bureau of Transportation
 - Parks & Recreation
 - Permitting & Development
- City of Vancouver
- Clackamas County
- Clark County
- C-TRAN
- Metro
- Multnomah County
- Oregon Air National Guard
- State of Oregon
 - Department of Aviation
 - Department of Environmental Quality
 - Department of Transportation
- TriMet
- Urban Flood Safety & Water Quality District
- Washington County

Open House & Community Outreach



Outreach summary since IAC 1

Outreach Completed

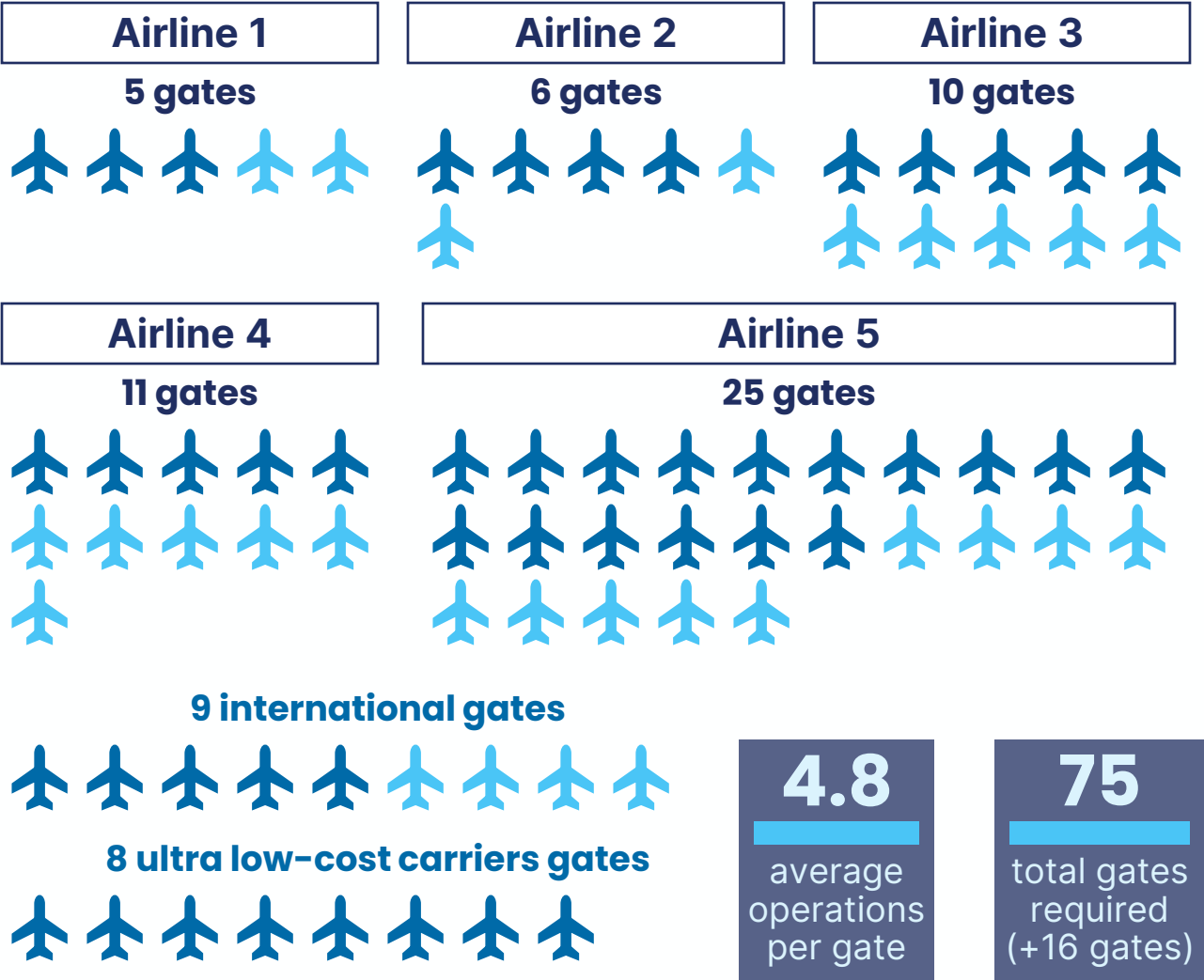
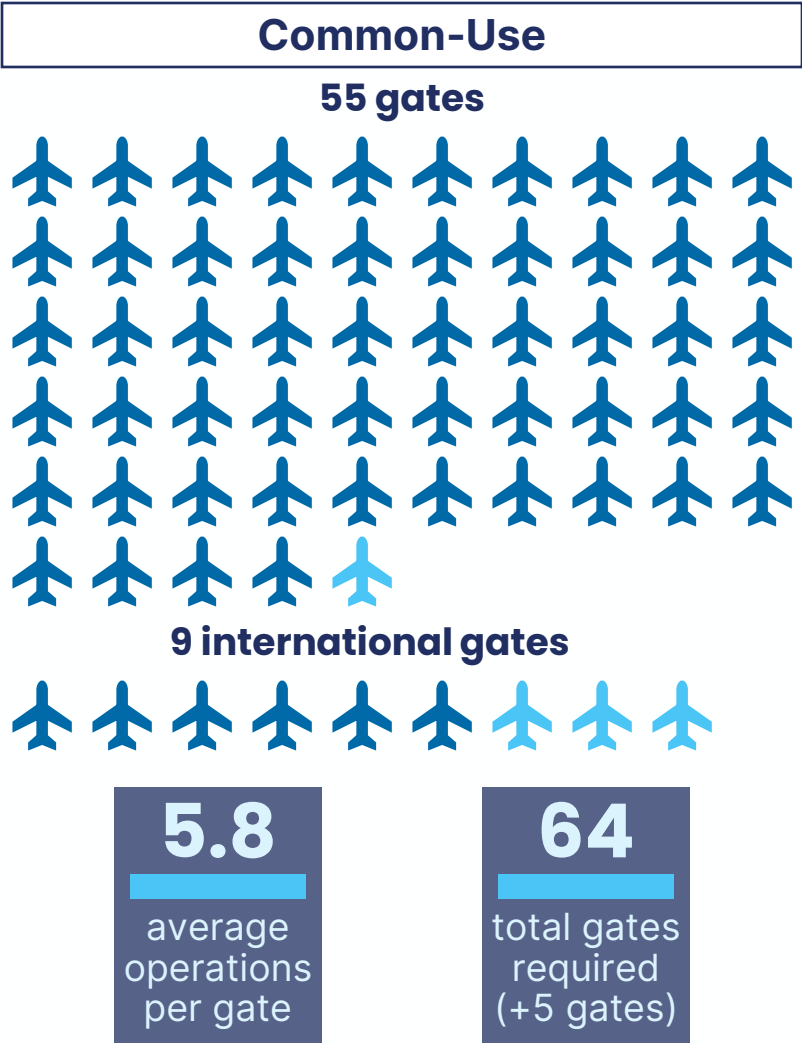
- March 2025
 - In-person Open House
- April 2025
 - Zoom & Online Open Houses
- May 2025
 - International Air Service Committee
 - Portland Freight Advisory Committee
 - PDX Community Advisory Committee
 - PDX 2045 Planning Advisory Committee

Themes We've Heard

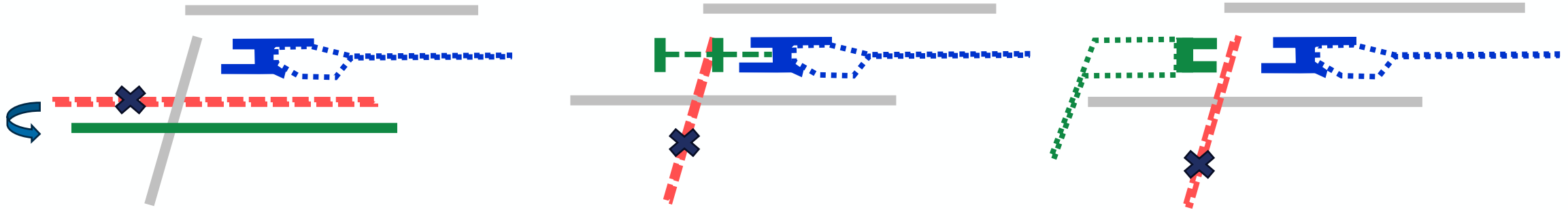
- International experience & service needs to be improved.
- Multimodal access is key, especially walking, rolling, and transit.
- Need to incorporate universal design and usability for everyone.

Preliminary Terminal Gate Expansion Alternatives

2045 gate requirements

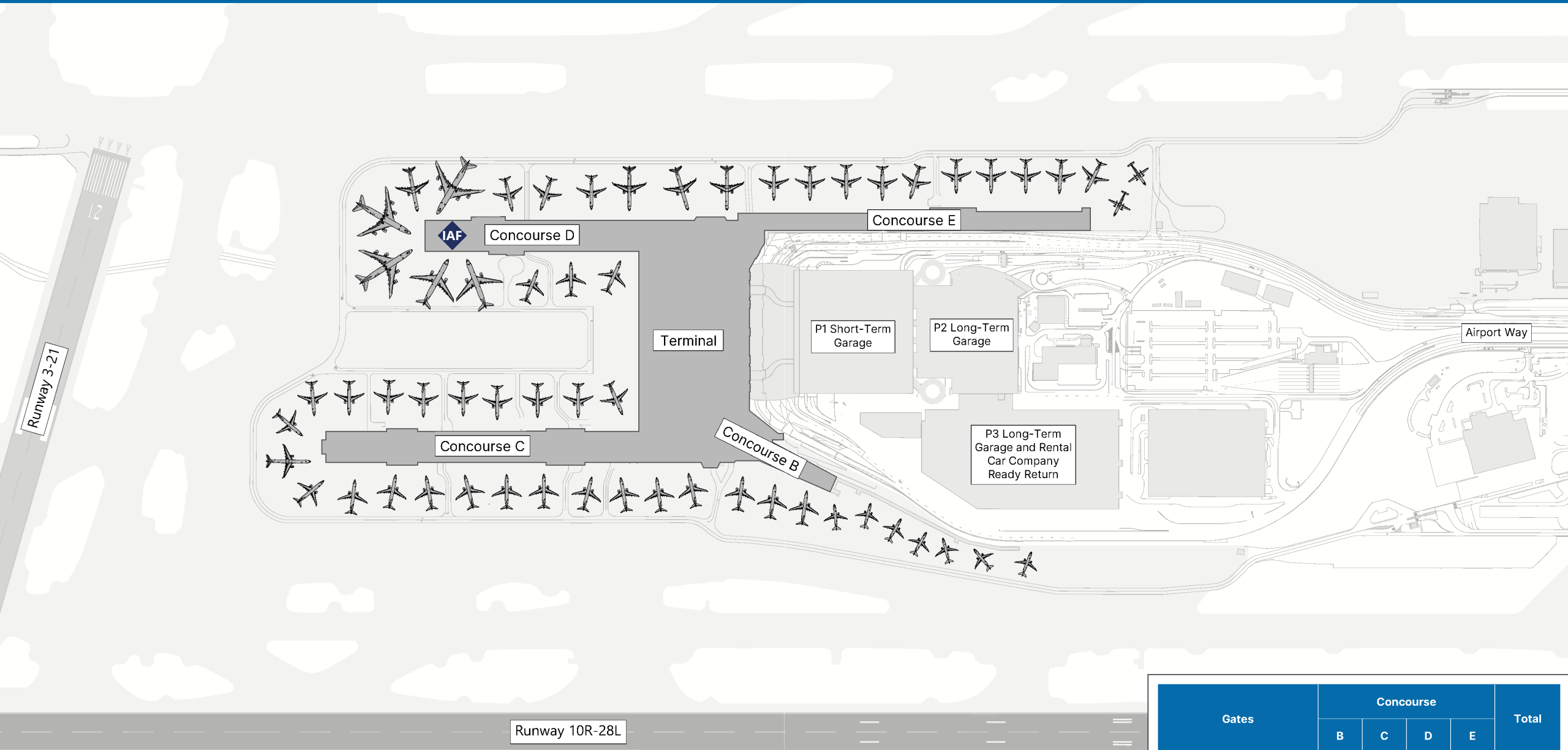


Discarded concepts



Concept	Relocating the south runway and/or realigning MAX	Remote concourse(s) connected by automated people mover (APM)	New unit terminal(s) served by new airport access roadways
Reasons not advanced	Cost, noise, facility impacts, limited anticipated benefit	Cost, PDX Strategy guidance, limited anticipated benefit	Cost, PDX Strategy guidance, feasibility, passenger experience

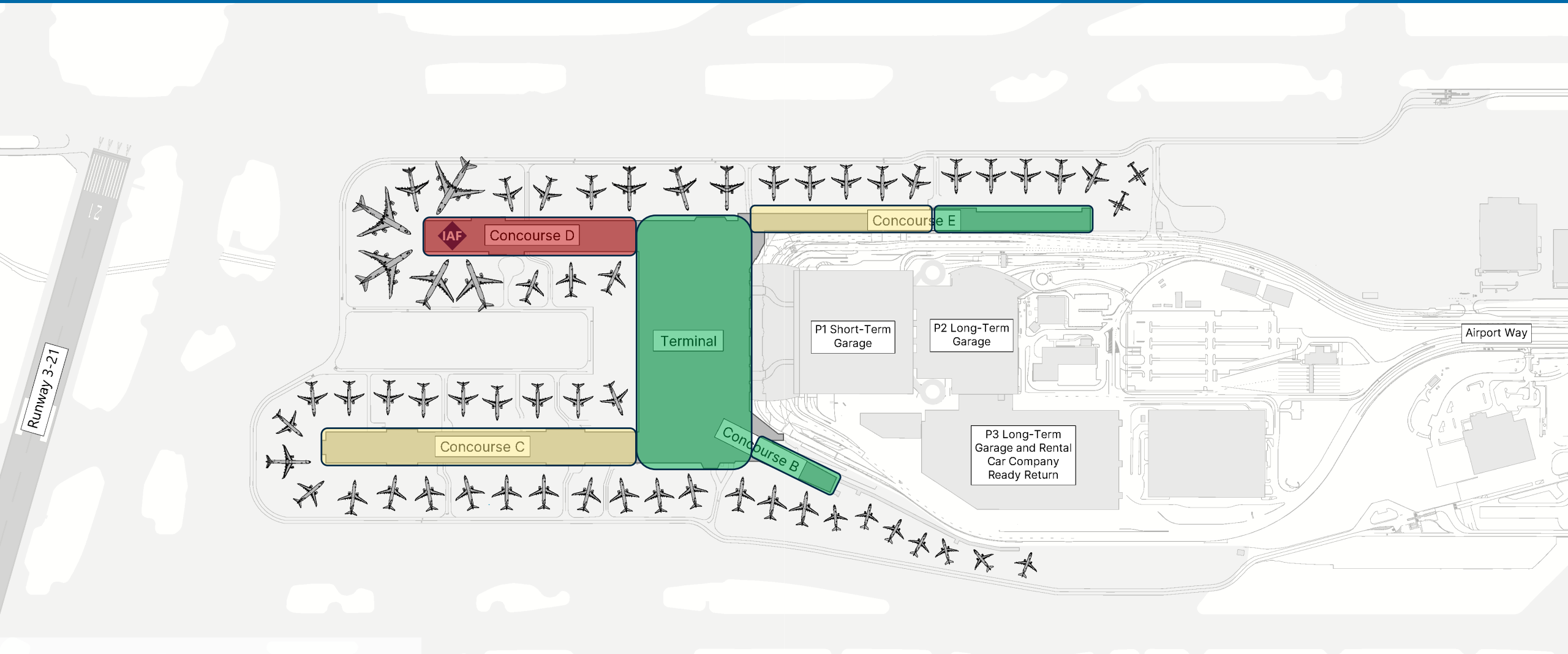
Existing conditions



Gates	Concourse				Total
	B	C	D	E	
Total Existing	11	21	13	14	59

IAF = International Arrivals Facility

Existing conditions



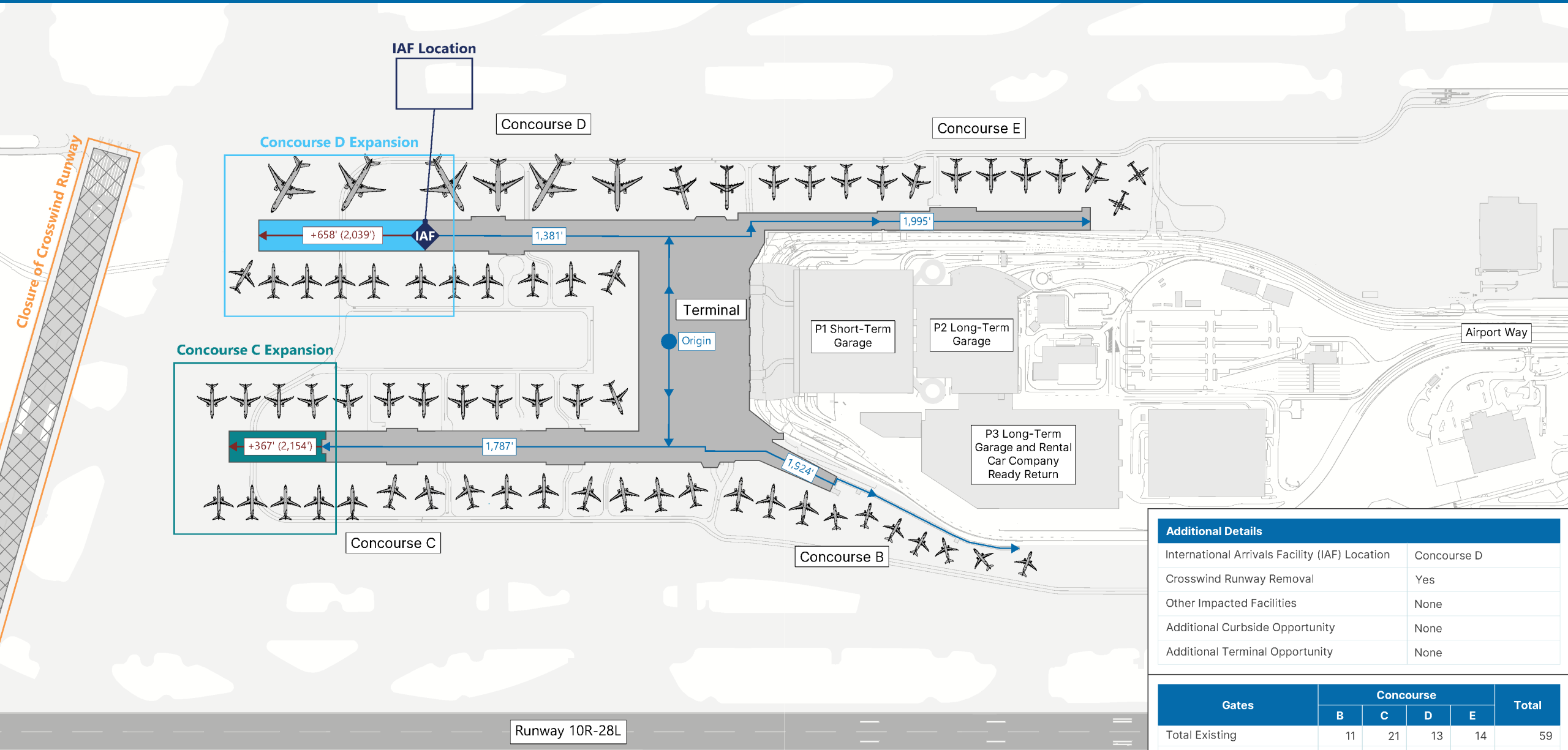
- New Facility / High Resiliency
- Aging Facility / Less Resilient
- Old Facility / No Resiliency

Gates	Concourse				Total
	B	C	D	E	
Total Existing	11	21	13	14	59

Preliminary observations

- Location of the international arrivals facility (IAF) is a key driver of future alternatives
 - Airfield: Large aircraft gate and access requirements
 - Terminal: International inspection spaces, sterile circulation, holdroom, and amenities requirements
 - Landside: Non-secure access
- North terminal areas provide greater opportunity for accommodating growth
 - Most available area for growth
 - Most significant deficiencies of existing facilities
 - Least resilient / oldest infrastructure
- South terminal areas provide opportunity for enhancement of existing facilities

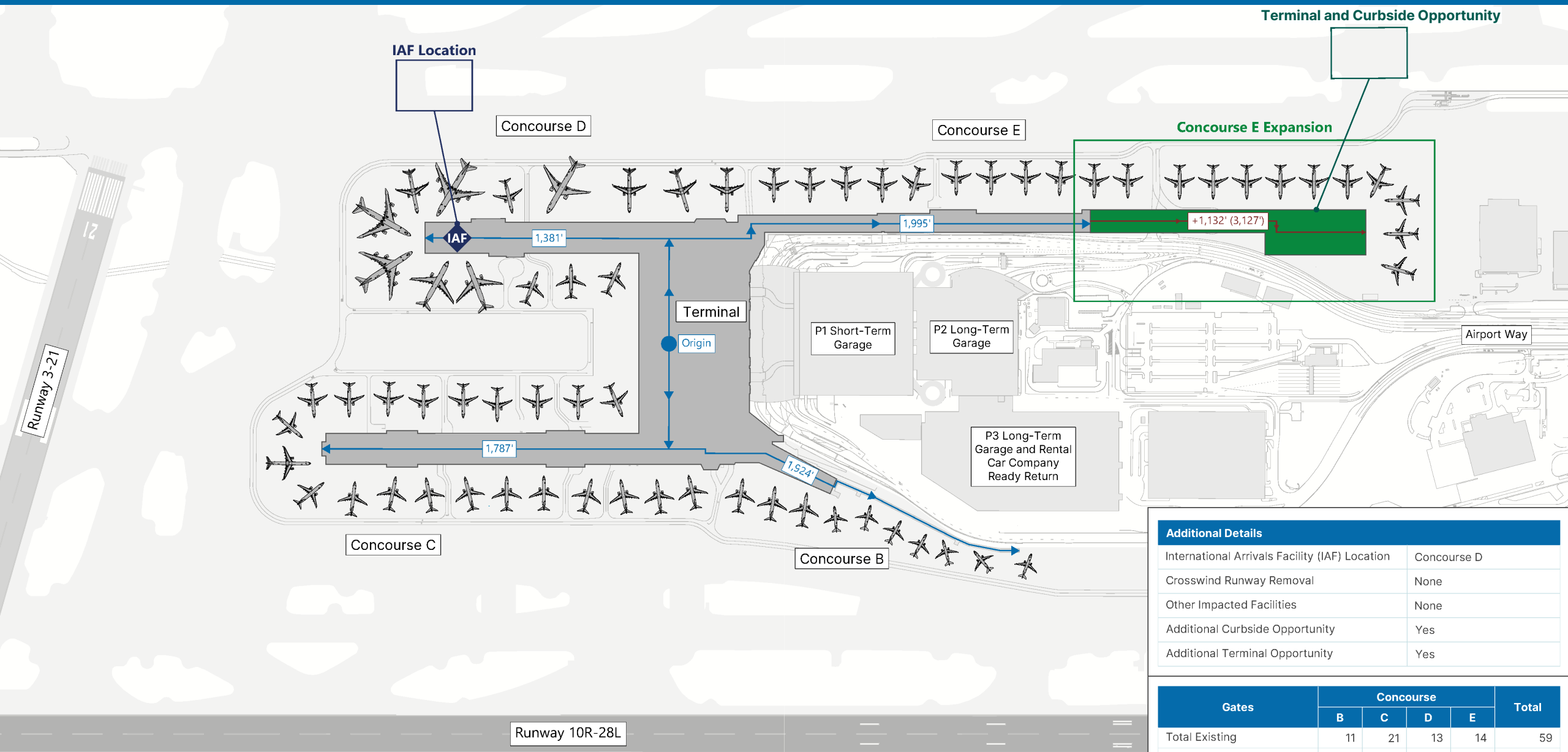
Concourses C and D expansion



Additional Details	
International Arrivals Facility (IAF) Location	Concourse D
Crosswind Runway Removal	Yes
Other Impacted Facilities	None
Additional Curbside Opportunity	None
Additional Terminal Opportunity	None

Gates	Concourse				Total
	B	C	D	E	
Total Existing	11	21	13	14	59
Total Proposed	11	25	17	14	67
NET CHANGE	0	+4	+4	0	+8

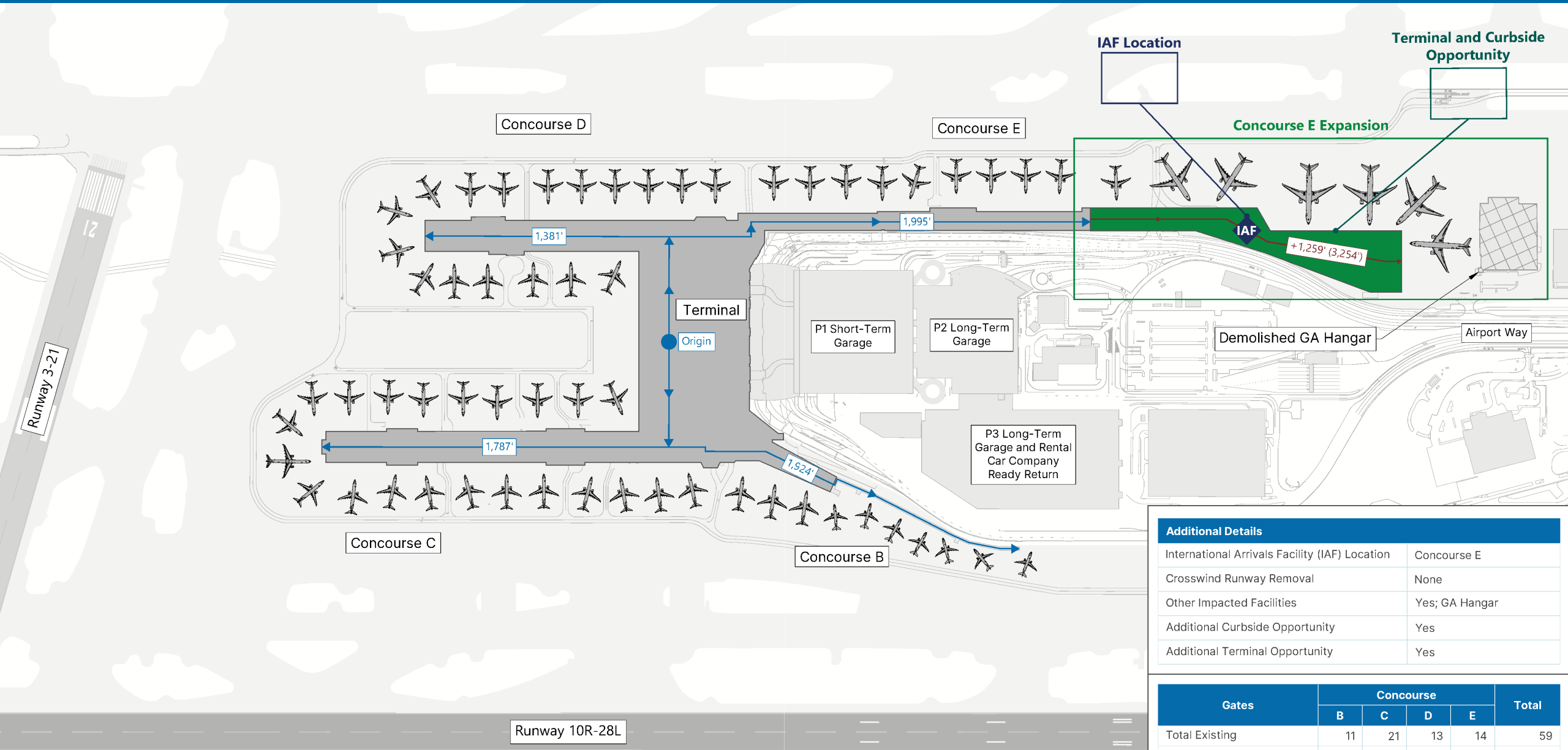
Concourse E expansion



Additional Details	
International Arrivals Facility (IAF) Location	Concourse D
Crosswind Runway Removal	None
Other Impacted Facilities	None
Additional Curbside Opportunity	Yes
Additional Terminal Opportunity	Yes

Gates	Concourse				Total
	B	C	D	E	
Total Existing	11	21	13	14	59
Total Proposed	11	21	12	23	67
NET CHANGE	0	0	-1	+9	+8

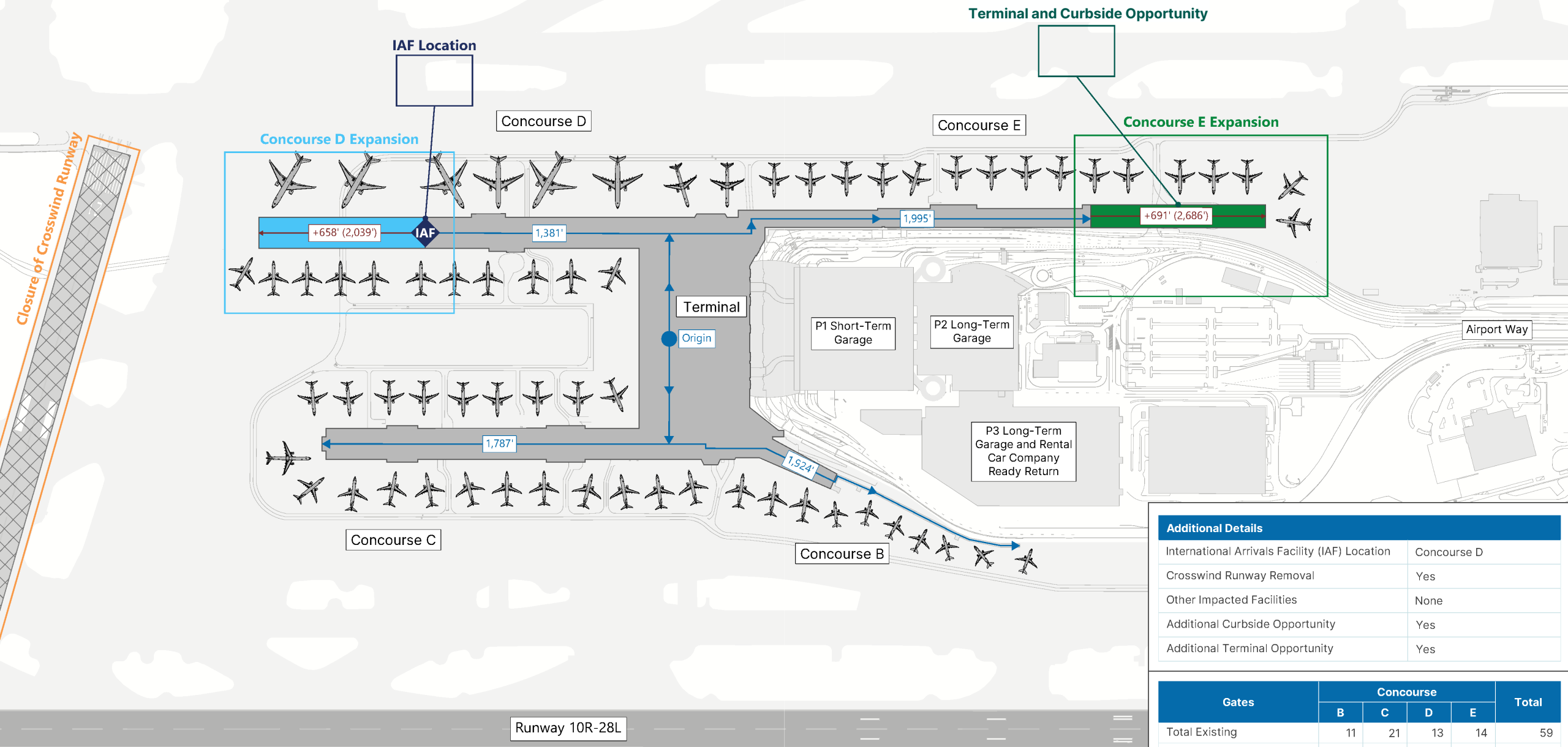
Concourse E expansion with IAF



Additional Details	
International Arrivals Facility (IAF) Location	Concourse E
Crosswind Runway Removal	None
Other Impacted Facilities	Yes; GA Hangar
Additional Curbside Opportunity	Yes
Additional Terminal Opportunity	Yes

Gates	Concourse				Total
	B	C	D	E	
Total Existing	11	21	13	14	59
Total Proposed	11	21	15	18	65
NET CHANGE	0	0	+2	+4	+6

Concourses D and E expansion



Additional Details	
International Arrivals Facility (IAF) Location	Concourse D
Crosswind Runway Removal	Yes
Other Impacted Facilities	None
Additional Curbside Opportunity	Yes
Additional Terminal Opportunity	Yes

Gates	Concourse				Total
	B	C	D	E	
Total Existing	11	21	13	14	59
Total Proposed	11	21	17	18	67
NET CHANGE	0	0	+4	+4	+8

Preliminary Landside Facility Needs and Planning Approaches

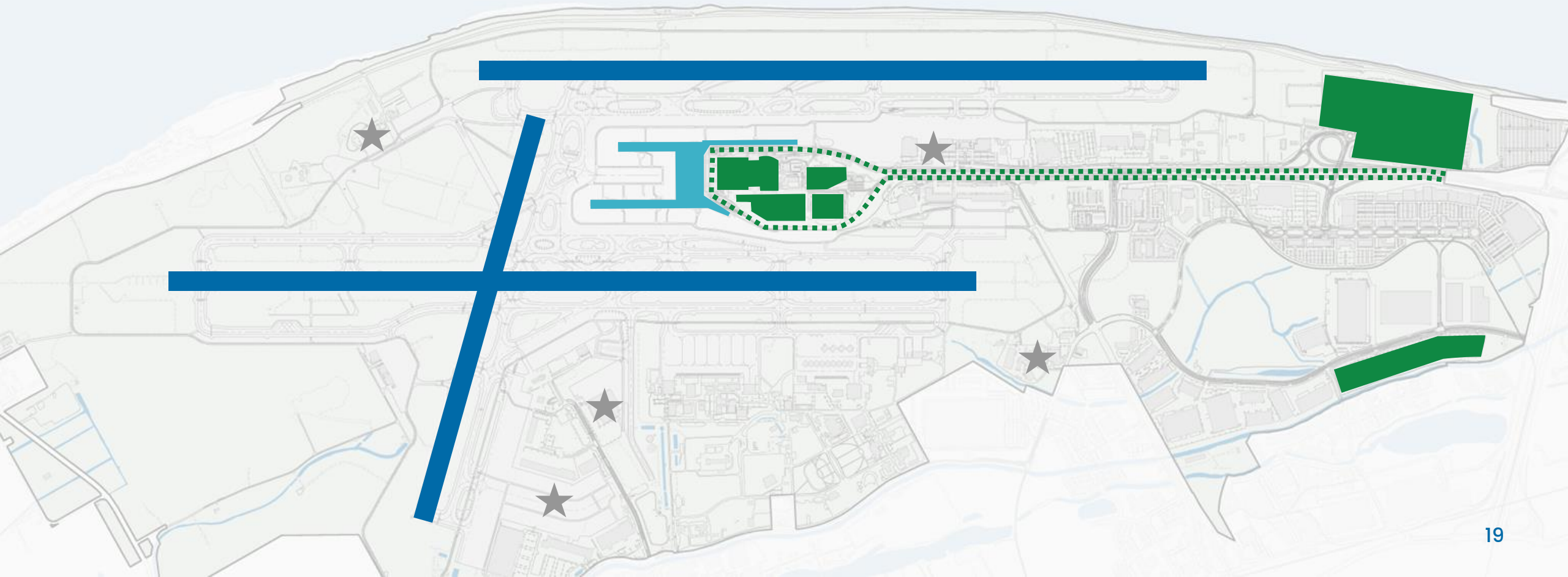
Requirements summary

Airfield Requirements

Terminal Requirements

Landside Requirements

Other Requirements



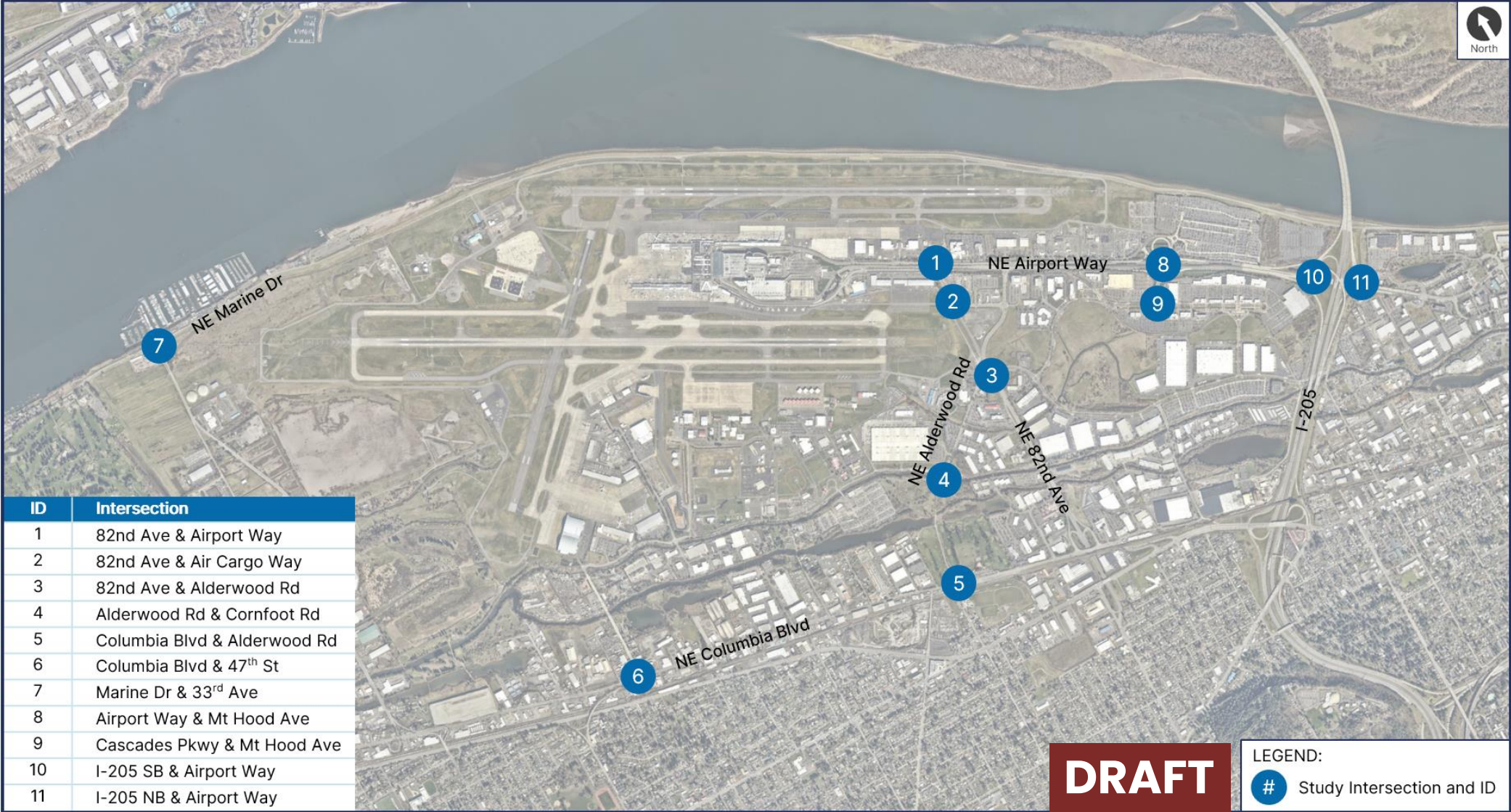
Landside roadways

PRIMARY ACCESS

OTHER ACCESS



Study Intersections

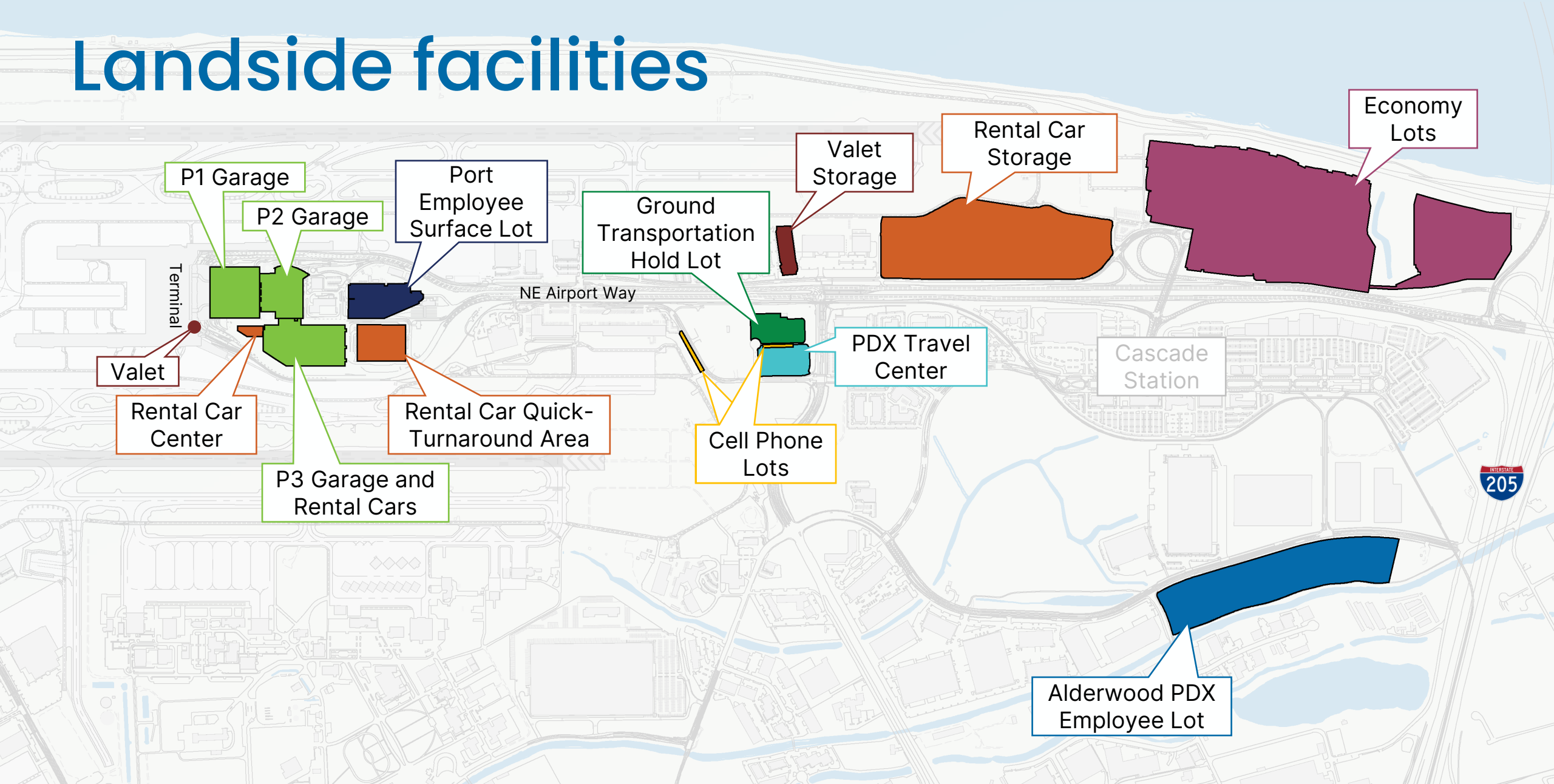


Off-Airport Facility Planning Approach

- PDX 2045 will identify forecast demand so that we can collaborate with agency partners on long-term capacity solutions.
- **PDX 2045 will not attempt to design solutions for non-Port facilities to meet projected demand.** Instead, we'll identify the Airport's needs to provide planning-level input to future projects on non-Port facilities.
- Level of Service (LOS) will be projected at study intersections based on forecasted aviation demand.
- As always, the Port will collaborate with agency peers as future projects are planned and designed.

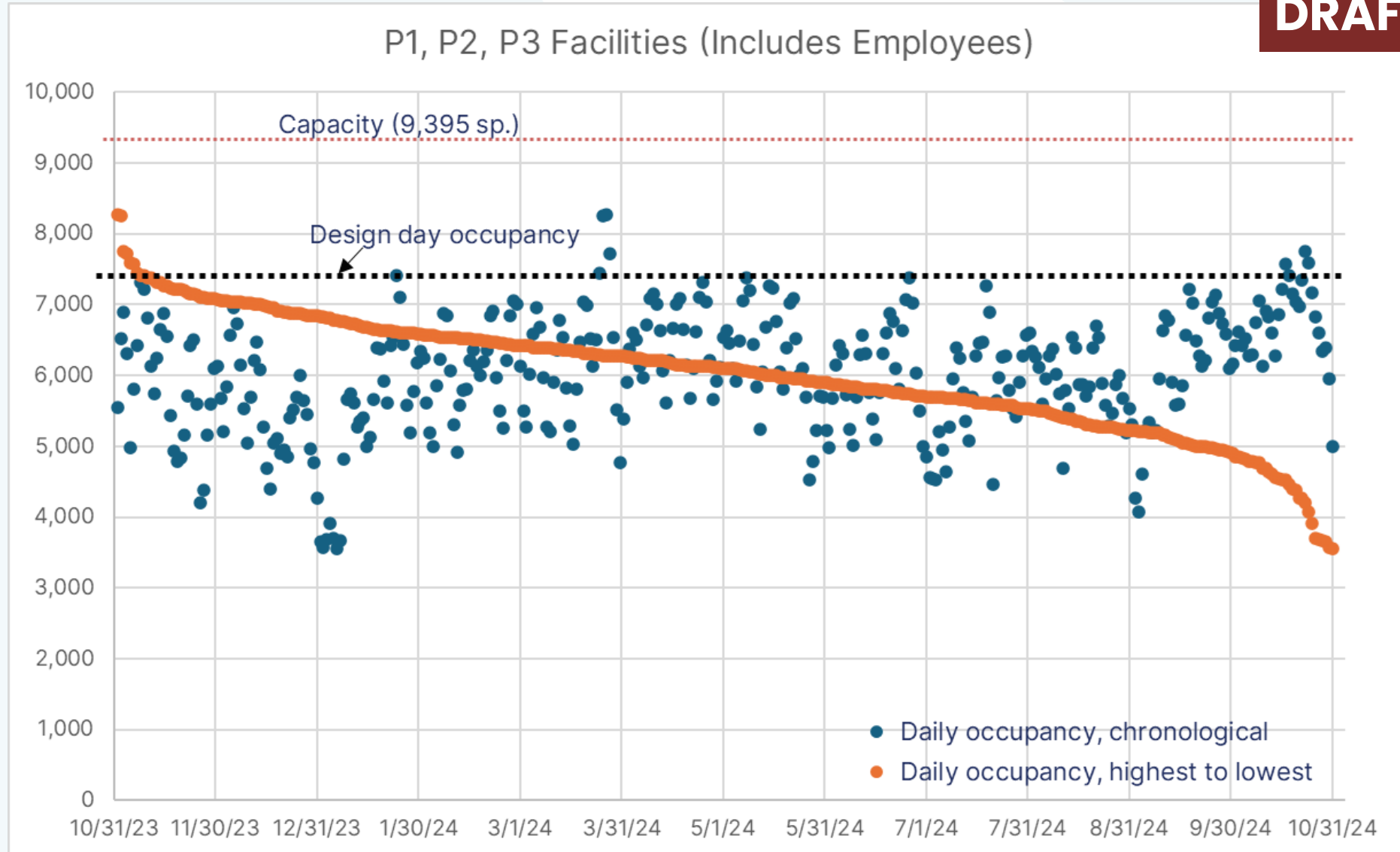
OVERVIEW OF LANDSIDE REQUIREMENTS

Landside facilities



Demand Curve: Garage Facilities

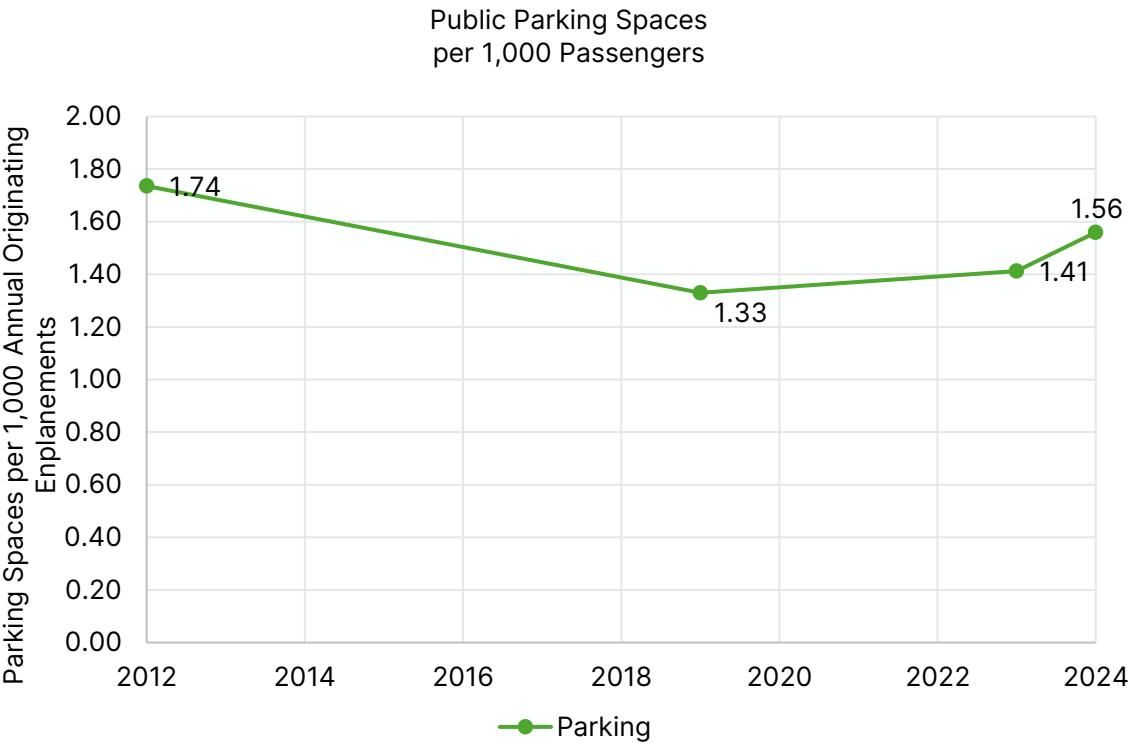
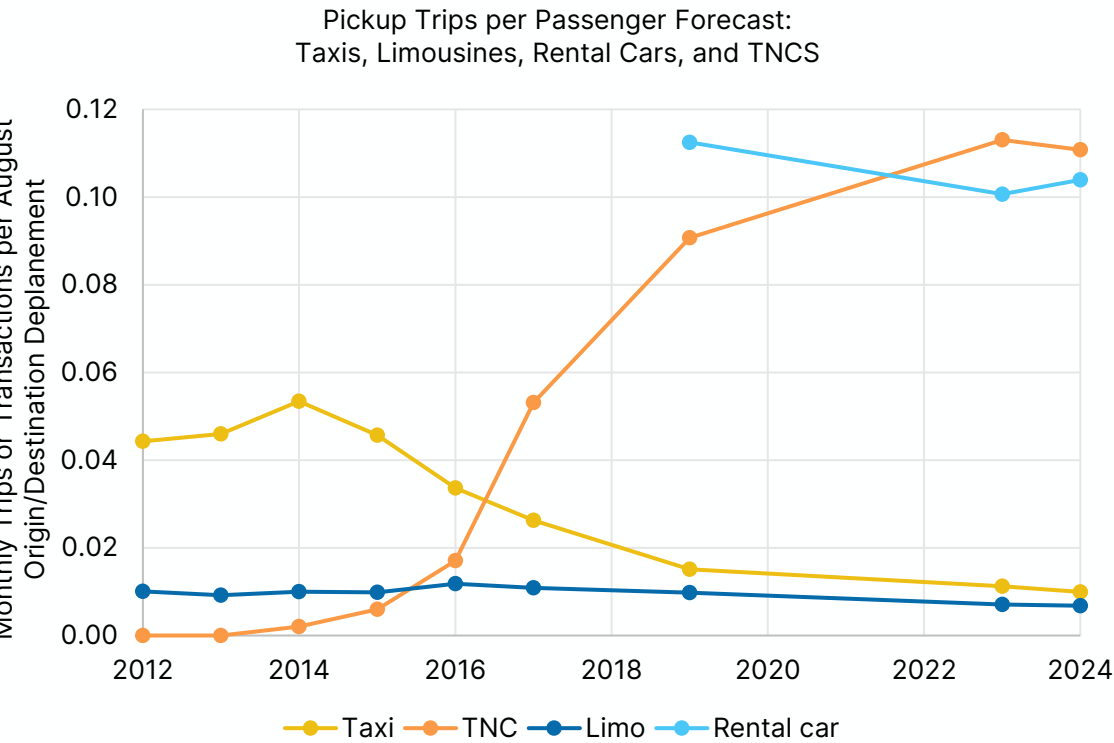
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Preliminary requirements summary

Landside Facilities	Preliminary Assessment			
	2030	2035	2040	2045
Airport Way westbound, west of 82nd				
Airport Way eastbound, west of 82nd				
Curbsides				
Commercial vehicle facilities				
Public parking				
Employee parking				
Rental car area				
Optimum				Sub-Optimum
LEGEND				

Historical activity per passenger, selected modes



SOURCE:
InterVISTAS, April 2025

NOTES:
1. TNC = Transportation Network Company (rideshare company such as Uber and Lyft)
2. TNC monthly trips or transactions between 2012 and 2015 are estimated..

TNC Scenarios

Existing

TNC's take **11%** of
originating enplanements
to PDX in **2024**

High Impact Scenario

TNC's take **22%** of
originating enplanements
to PDX in **2045**

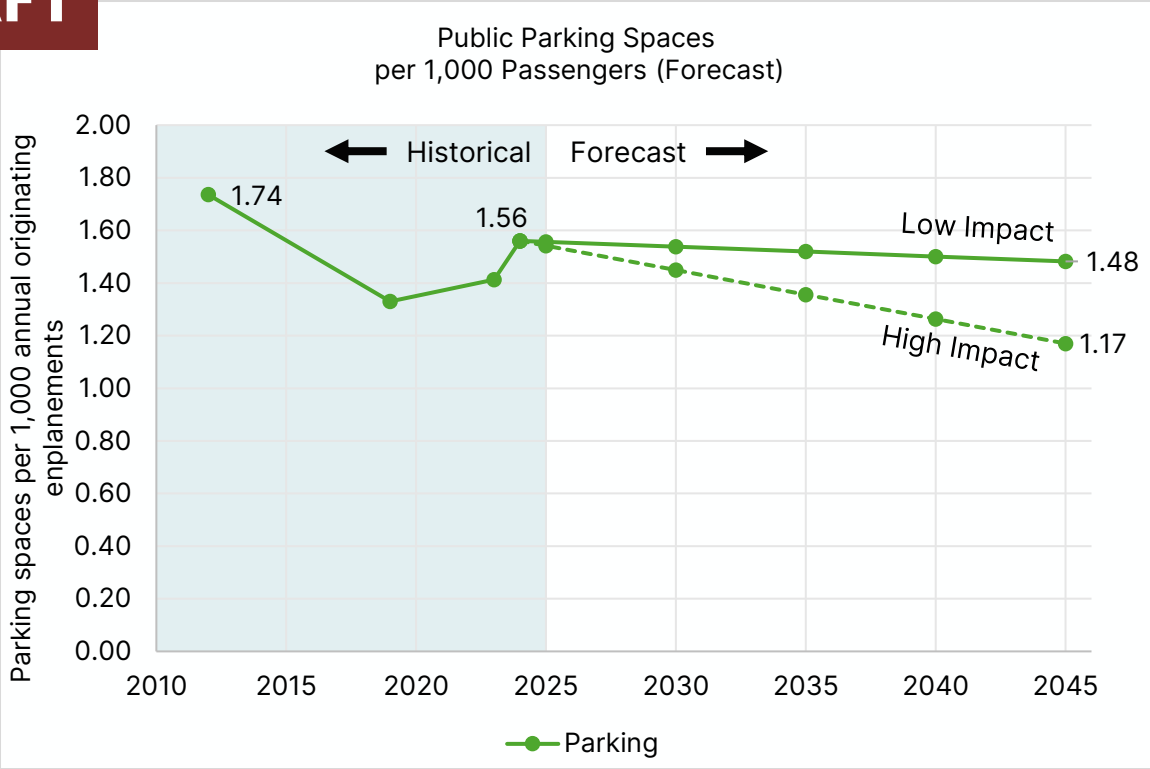
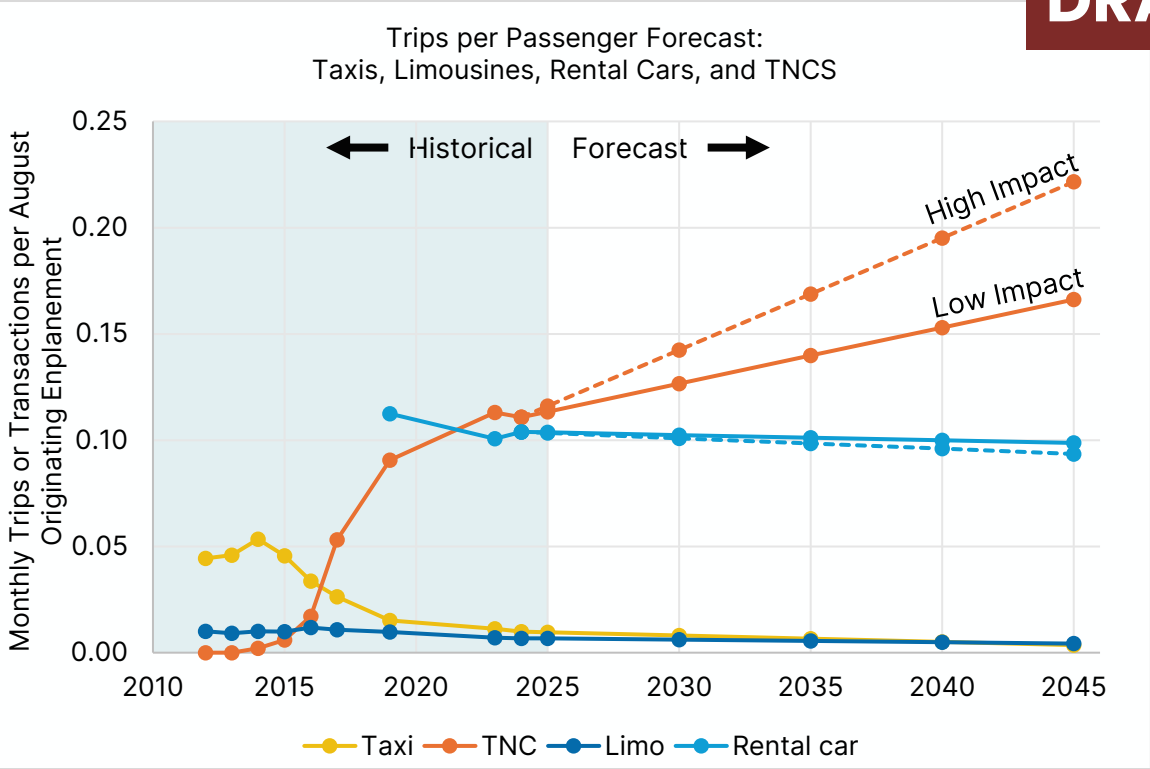
Low Impact Scenario

TNC's take **17%** of
originating enplanements
to PDX in **2045**

- The difference between the “high” and “low” TNC impact scenarios reflects uncertainty:
 - extent to which the TNC market at the Airport is approaching maturity
 - future adoption rate of car sharing services and connected/autonomous vehicles
- The high and low scenarios are used to conservatively estimate potential facility needs

Forecast activity per passenger, selected modes

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SOURCE:
InterVISTAS, April 2025

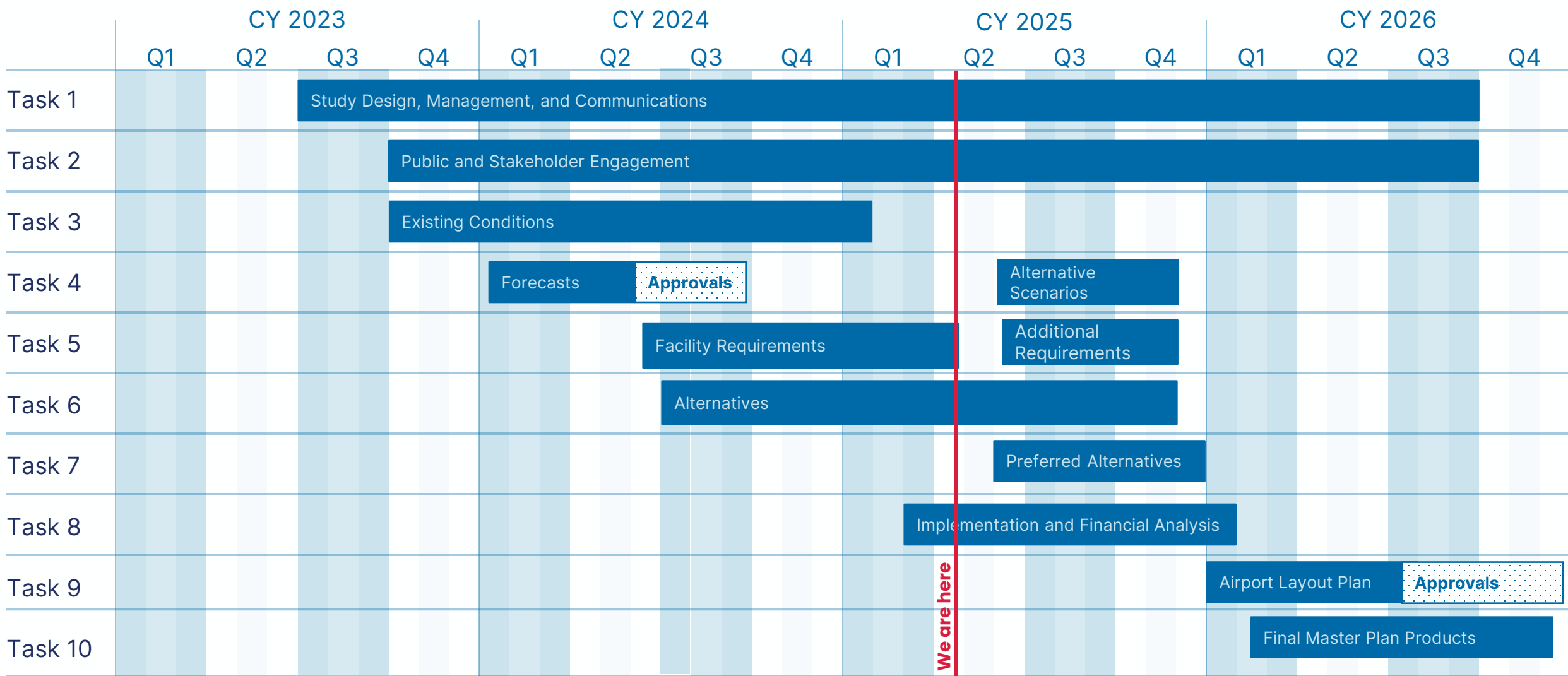
NOTES:
1. TNC = Transportation Network Company (rideshare company such as Uber and Lyft)

Landside Requirements Next Steps

- As Airfield and Terminal requirements are refined, detailed Landside facility requirements will be prepared for:
 - Airport Way vehicle capacity (lanes)
 - Terminal curbside (linear feet, both arrivals and departures roadways)
 - Commercial vehicle loading and staging (positions)
 - Public and employee parking (spaces)
 - Rental Car area (square feet)
- LOS projections will be developed for select intersections.
- Detailed volume to capacity (V/C) analysis will be prepared for on-Airport facilities.
- Functional requirements will be identified to accommodate:
 - Future bus service
 - Pedestrian/bike network enhancements

Upcoming Steps

Overall project timeline



IAC Upcoming Steps

Today's meeting follow-ups:

- Annotated agenda and meeting slides to be posted to pdx2045.org (link will be e-mailed)
- Existing Conditions report available soon at pdx2045.org

Next IAC meeting (tentatively late July/early August):

- Refined terminal and airfield alternatives
- Preliminary landside alternatives
- Late summer Open House and community outreach plans

Q&A and Thank You!

For more information: **pdx2045.org**

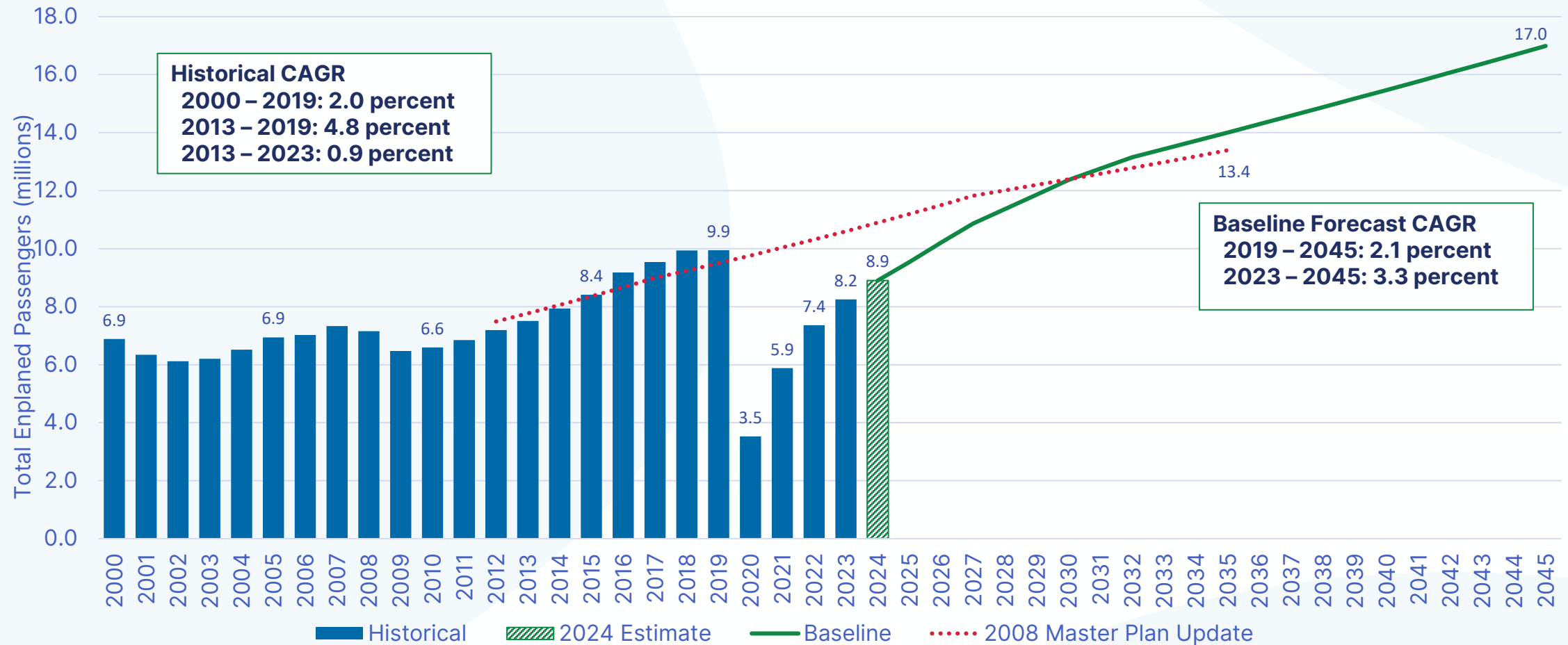
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Passenger Forecast Summary

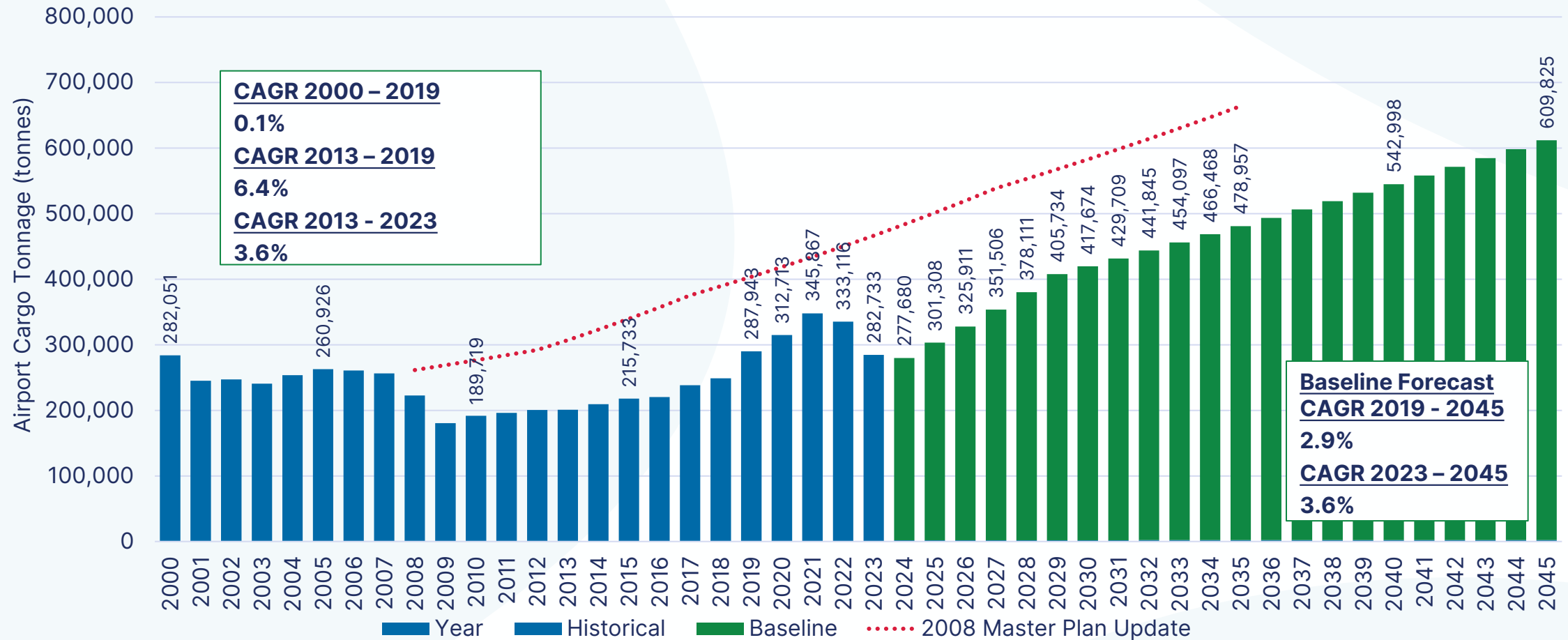
- Enplaned passengers are forecast to increase to 17 million in 2045



Sources: Port of Portland, March 2024; Cirium Diio, April 2024; Jacobs Consultancy, Master Plan Update, technical Memorandum No. 2 – Aviation Demand Forecast, September 2008; Ricondo & Associates, Inc., April 2024.

Cargo Forecast Summary

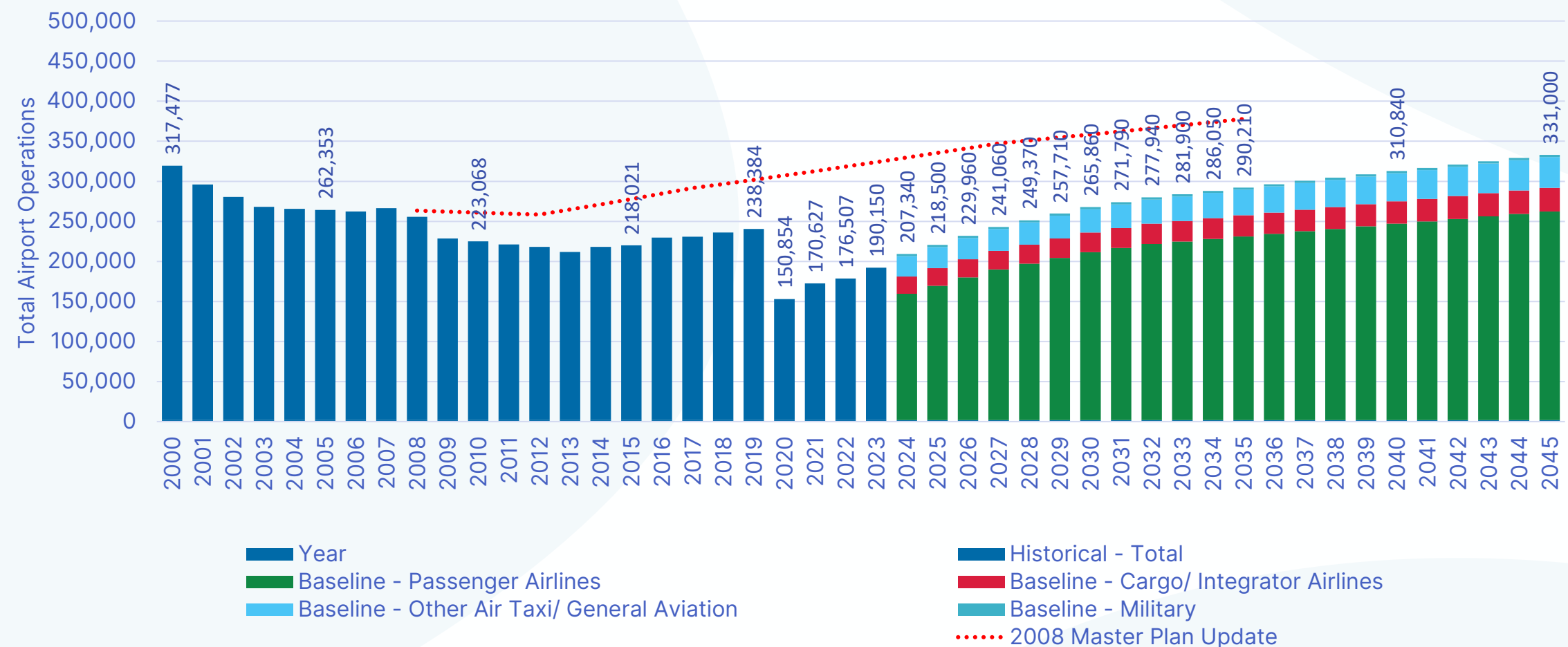
- Cargo tonnage is forecast to approximately 610,000 metric tonnes in 2045



Sources: Port of Portland, March 2024; Boeing World Air Cargo Forecast 2022 – 2041 & Commercial Market Outlook 2023 - 2042; Jacobs Consultancy, Master Plan Update, technical Memorandum No. 2 – Aviation Demand Forecast, September 2008;Ricondo & Associates, Inc., April 2024.

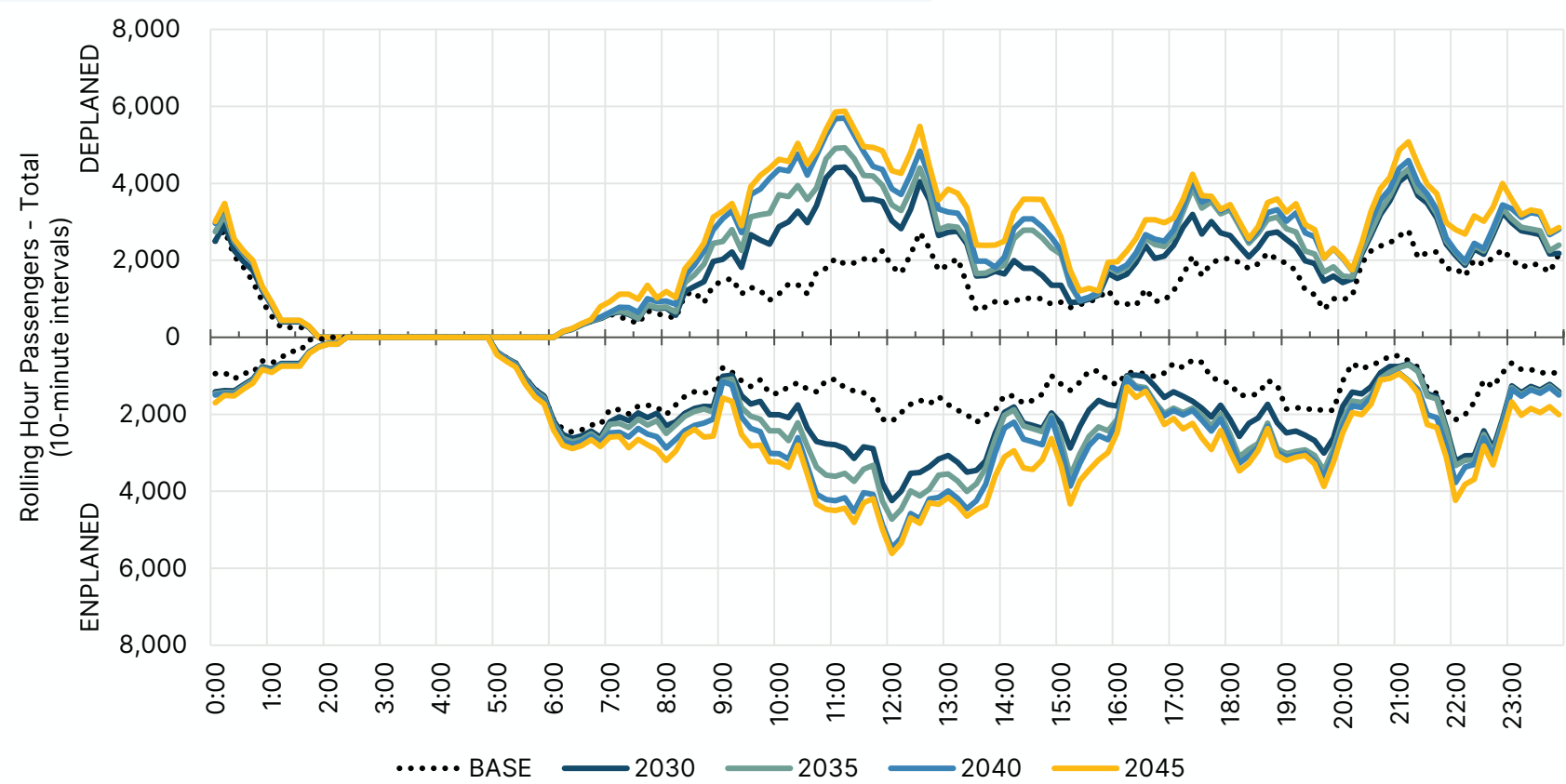
Operations Forecast Summary

- Total airport operations are forecast to 331,000 operations in 2045



Sources: : Port of Portland, March 2024; Federal Aviation Operations Network, *Air Traffic Activity Data System and Traffic Flow Management System Counts*, March 2024; Jacobs Consultancy, Master Plan Update, technical Memorandum No. 2 – Aviation Demand Forecast, September 2008; Ricondo & Associates, Inc., April 2024.

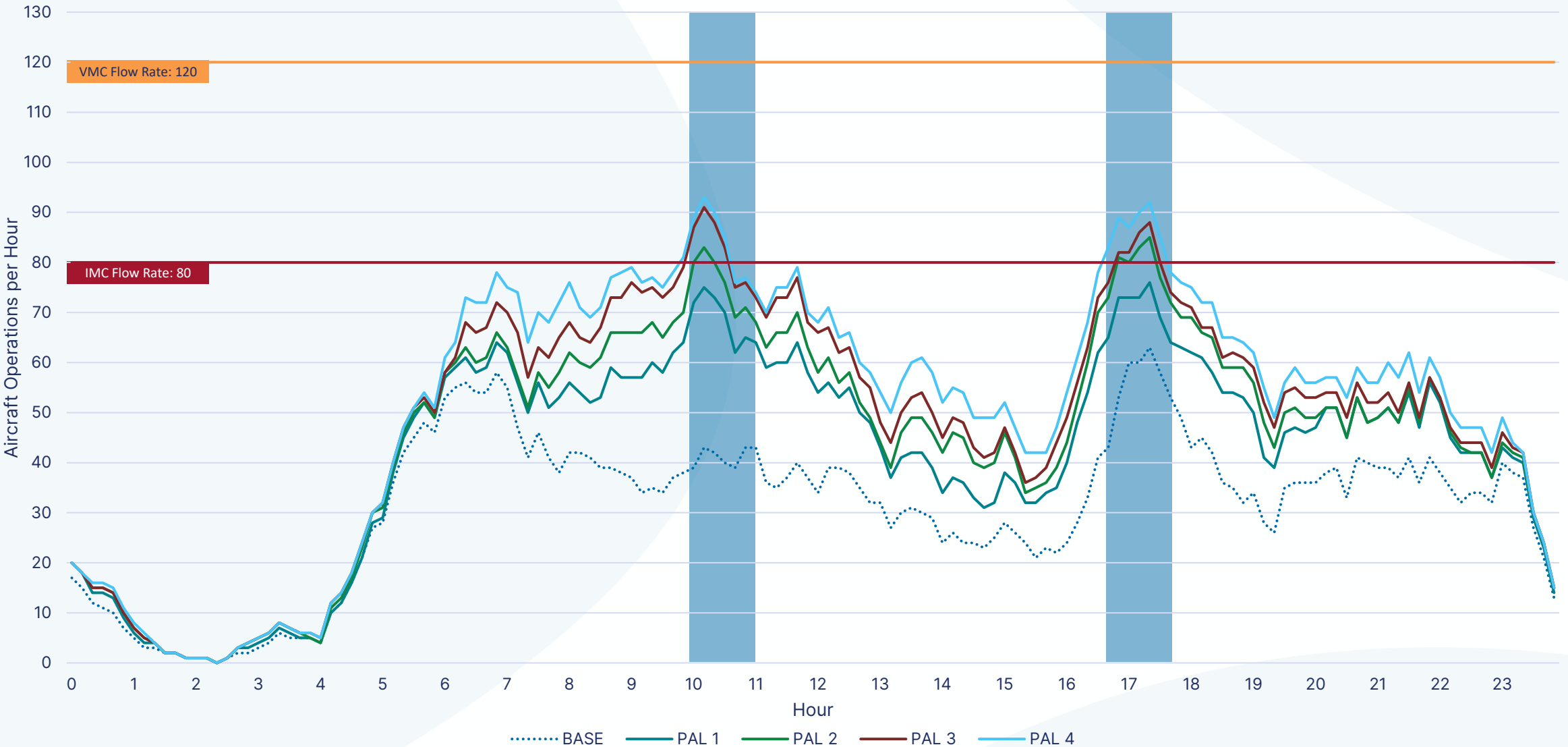
Rolling Hour Passengers – Total



DEPLANED PASSENGERS			
YEAR	PEAK HOUR	DDFS	PEAK HOUR %
2023	2,787	27,843	10.0%
2030	4,422	42,431	10.4%
2035	4,924	47,988	10.3%
2040	5,695	53,019	10.7%
2045	5,874	58,140	10.1%

ENPLANED PASSENGERS			
YEAR	PEAK HOUR	DDFS	PEAK HOUR %
2023	2,463	27,428	9.0%
2030	4,243	41,620	10.2%
2035	4,725	47,103	10.0%
2040	5,473	52,007	10.5%
2045	5,616	57,080	9.8%

Design Day Hourly Runway Demand/Capacity



Annual Service Volume

- FAA Advisory Circular 150/5060-5 – *Airport Capacity and Delay* capacity benchmarks:
 - 60% of ASV – begin planning for additional capacity
 - 80% of ASV – begin implementing additional capacity
- Potential capacity enhancements
 - Additional airfield facilities (taxiways, runways)
 - Airspace improvements
 - Better navigation technology

	Base	2030	2035	2040	2045
Weighted Hourly Capacity	114	114	114	114	114
Annual Operations	190,150	264,740	288,270	308,780	328,930
Average Daily Ops (Peak Month)	603	850	924	990	1,060
Average Peak Hour Ops (Peak Month)	48	71	78	86	88
ASV	452,000	426,000	422,000	410,000	427,000
Percent ASV	42%	62%	68%	75%	77%