

MSP Airport Long-Term Plan Stakeholder Advisory Panel



Meeting #6
April 13, 2023

Welcome Remarks



Brian Ryks

MAC Executive Director/CEO

Meeting Objective

At this meeting, we will:

- Review the MSP Long-Term Plan goals, process and engagement program
- Share progress to-date, to include the preferred airport design alternative intended to fulfill goals and projected requirements
- Invite questions, ideas and concerns from panel members about the preferred alternative



Meeting Agenda



2:00 - Welcome Remarks

Brian Ryks – MAC Executive Director/CEO

2:10 – Review LTP Purpose, Goals and Timeline

Eric Gilles, C.M., ACE - MAC Senior Airport Planner

2:20 – MSP Airport Planning Process Update

2:50 – Break

3:00 – LTP Aircraft Noise Analysis

Dana Nelson – MAC Stakeholder Engagement Director

3:15 – Panel Discussion

What questions, concerns or ideas do you have about the preferred alternative?

3:30 – Next Steps

3:45 – Comments and Announcements

4:00 – Close

Purpose of the Long-Term Plan

Evaluate existing and future facility/infrastructure requirements based on 20-year projected demand

Consider when facility improvements are required to accommodate projected demand in a manner that is:

- safe
- efficient
- orderly
- cost-effective, and
- continues to deliver a high level of customer service

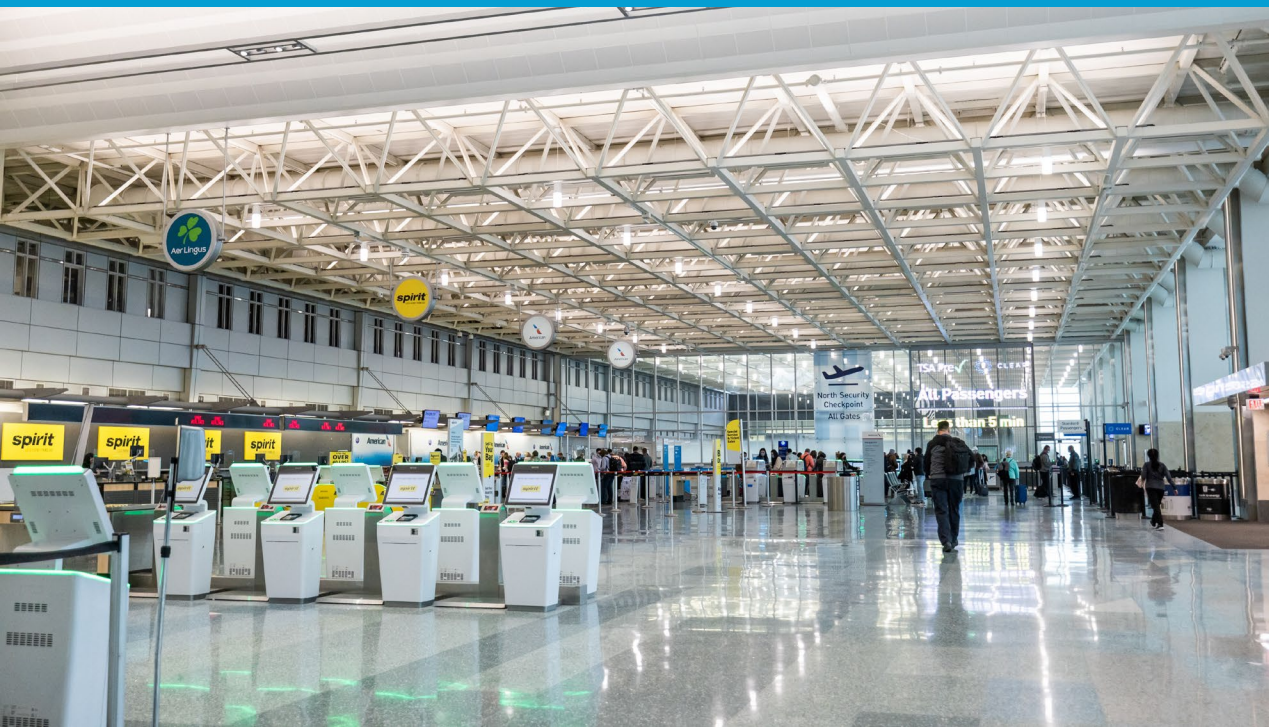


Purpose of the Long-Term Plan

The Plan does not:

Authorize construction or improvements to facilities, nor does it serve as a basis for determining eligibility for noise mitigation programs.

Rather, it is intended to help the MAC better understand and plan for future facility requirements.

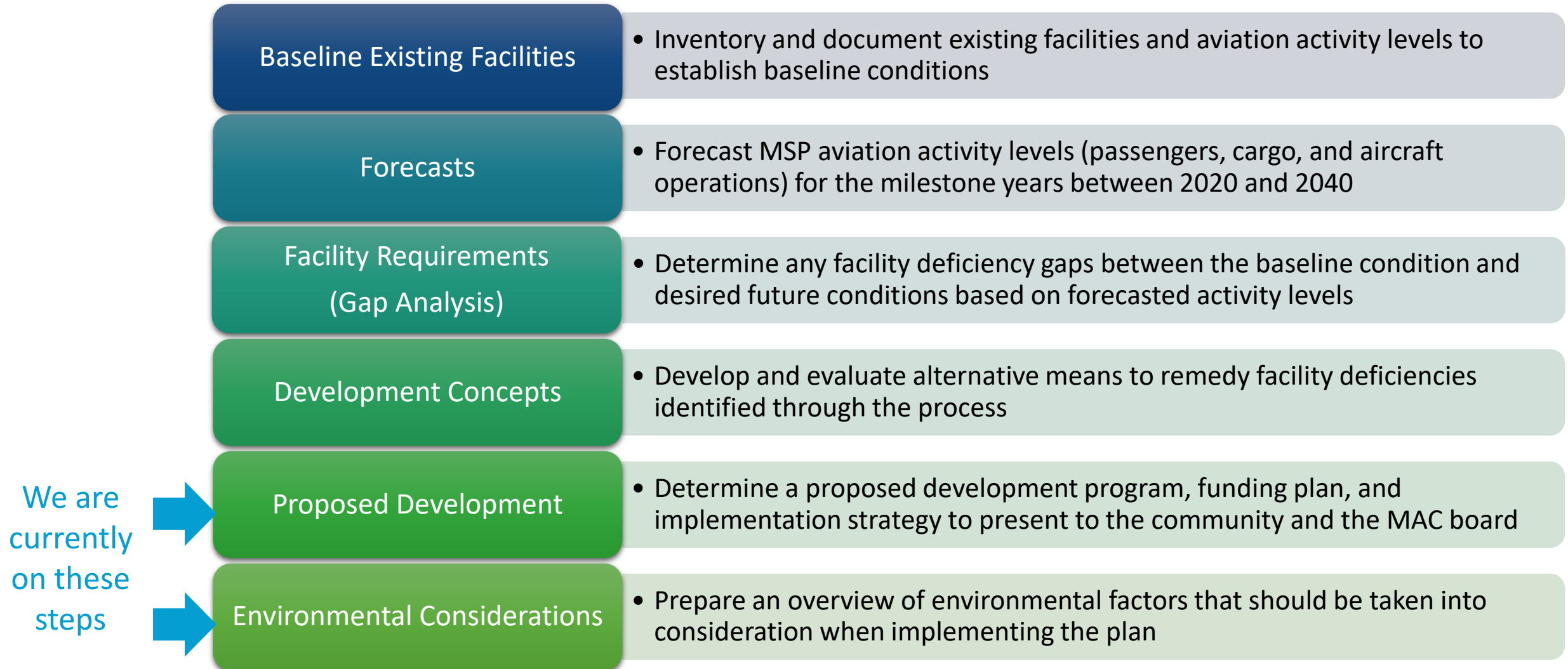


Plan Goals



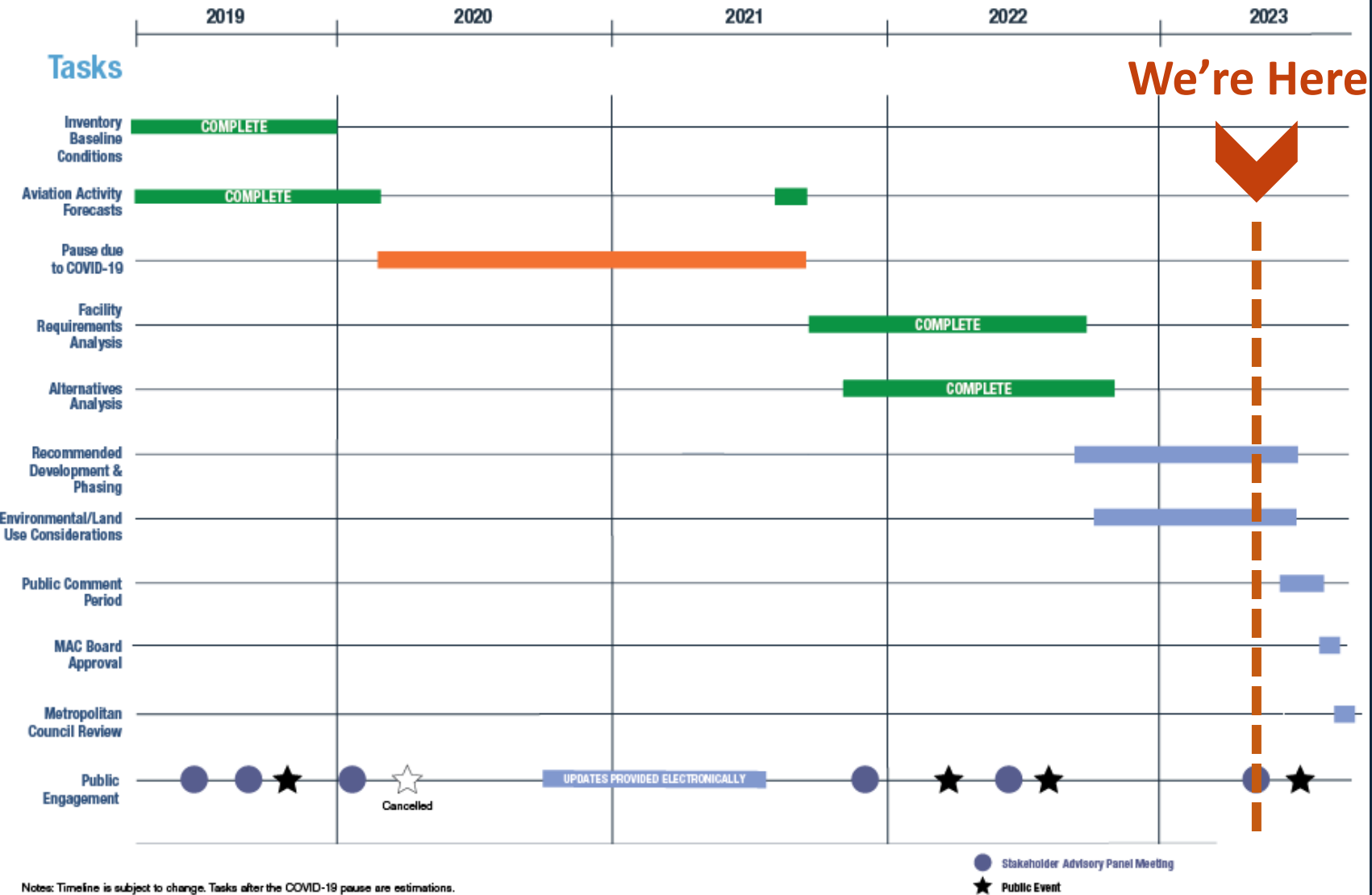
1. Plan for future facilities that will meet projected passenger activity levels in a manner that maintains and enhances customer service, while facilitating a seamless experience.
2. Produce a development plan that positions the MAC to
 - meet future demand levels
 - enhance financial strength
 - leverage environmental stewardship, and
 - infuse sustainable thinking
3. Conduct the planning process in a manner that includes meaningful stakeholder engagement.

Long-Term Planning Process



MSP Airport Long-Term Plan

Timeline + Stakeholder Engagement



Airport Planning Update

- Overview of Facility Requirements
- Preferred Alternative
- Forecast Noise Contours



Overview of Facility Requirements



- Terminal Challenges
 - Gating requirements and passenger connectivity
 - Federal Inspection Services (FIS)
- Airside Challenges
 - Maintain airfield efficiency
 - Long-term Remain Overnight (RON) aircraft parking requirements
 - Address airfield design standards
- Landside Challenges
 - Curbside and roadway congestion
 - Address long-term parking requirements (private, rental, ride-share, etc.)

Preferred Alternative



- Incorporates stakeholder feedback (Airlines, FBO, MAC Internal Workshops, Senior Leadership, SAP and Public)
- Assumes FIS at both Terminals 1 and 2
- Emphasizes the need for additional gates beyond what exists today
- Mindfulness of airside impacts
- Landside elements will continue to be refined beyond LTP scope

Preferred Alt.

Potential Project List:

1. T2 Gate Expansion
2. T1 FIS Improvements (Ex. Site)
3. Reconstruct Concourse E
4. Reconstruct Concourse F
5. Reconstruct Green/Gold Area
6. Relocate Signature FBO
7. T2 Gate Expansion (Maximize)
8. North Parallel TWY (RWY 30R)
9. Reconstruct Concourse A
10. Extend Concourse G
11. Expand Cargo Facilities
12. Construct RWY 12R EAT
13. Relocate GRE/RON Parking
14. T2 Remote Improvements
15. Construct Delta RON Expansion
16. Connect T1 to T2 (Sterile)

Legend

FUTURE TAXIWAY / APRON PAVEMENT	
FUTURE DEMO	
FUTURE BUILDING	
FUTURE VEHICLE SERVICE ROAD	
FUTURE ELEVATED LANDSIDE ROADWAY	
FUTURE LANDSIDE PAVEMENT	
FUTURE GROUND SERVICE EQUIPMENT STAGING	
RUNWAY HOLDING POSITION	
FUTURE AOA FENCE	
NON-AERONAUTICAL DEVELOPMENT	
FUTURE EXTERNAL DEVELOPMENT BOUNDARIES	
TERMINAL 1 / TERMINAL 2 CONNECTION	
REPRESENTATIVE AIRCRAFT (CRJ-200 / A321neo / B757-200W / A350-900)	

	Ex. Gates	2040 Gates	Net +/-
T1	102	95	-7
T2	16	35	+ 19
Total	118	130	+ 12

- Break – 10 minutes



LTP Aircraft Noise Analysis

Base Year - 2018 Annual Noise Contour

2040 Forecast Scenarios

- Baseline - expected outcome
- High - optimistic socioeconomic drivers
- Low - conservative financial planning forecast



2018 Actual Contour and 2040 Baseline Forecast Comparison

Total Operations

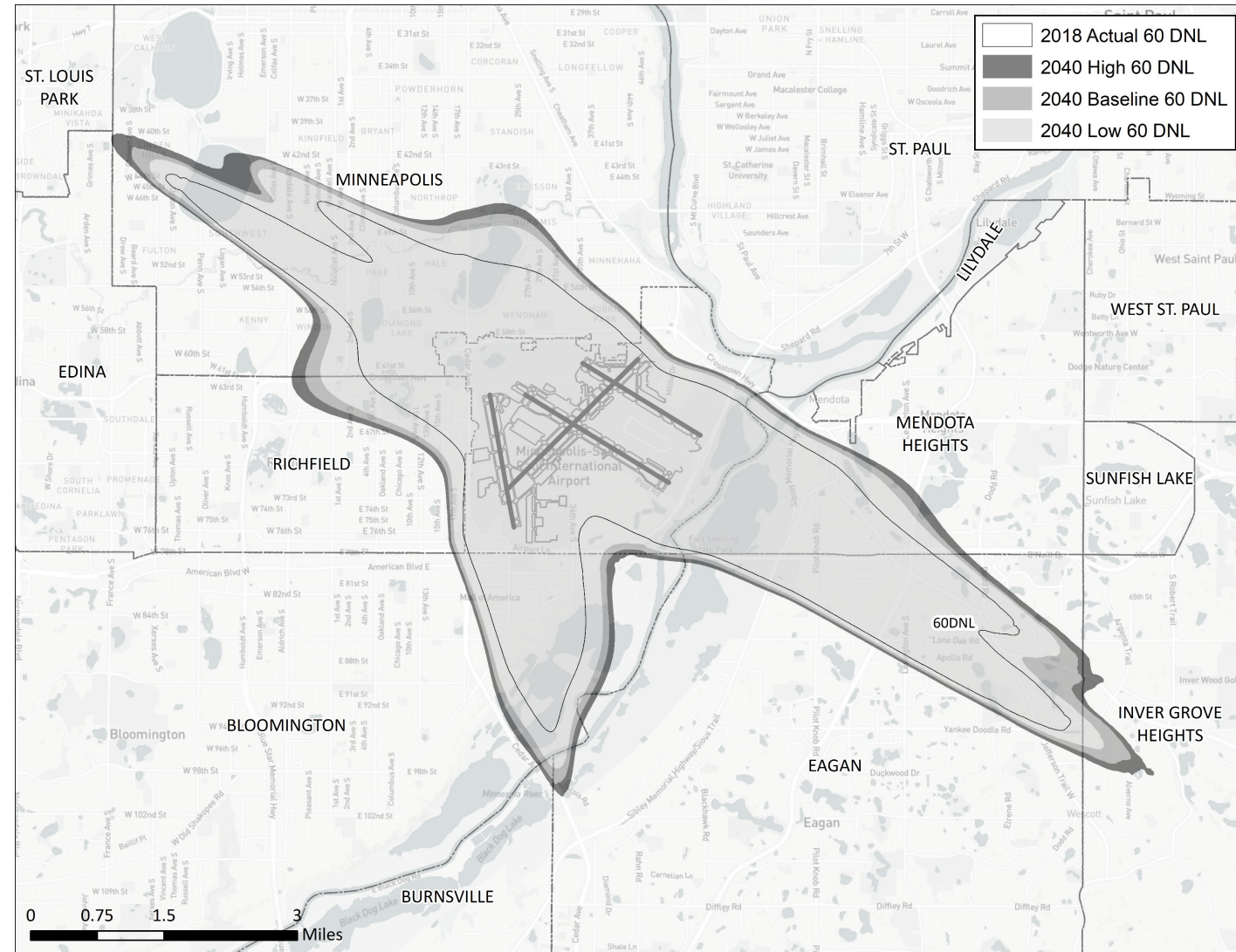
- 2018 – 406,913 Annual Operations
- 2040 – 509,700 Forecast Operations

Nighttime Operations

- 2018 – 10.8% of all operations (120 Average Daily)
- 2040 – 11.5% of all operations (161 Average Daily)

Stage 5 Operations

- 2018 – 211 Average Daily Operations
- 2040 – 874 Average Daily Operations



Updates in Aircraft Types



Airbus New Engine Option (neo)
A319, A320, A321

- 15 dB below Stage 4 noise standards
- 1.6 average daily operations in 2018
- 273 average daily operations in 2040 forecast

Source: www.airbus.com



Boeing B737 MAX
MAX 7, MAX 8, MAX 9, MAX 10*

- 40% noise reduction from B737-800
- 1.5 average daily operations in 2018
- 30 average daily operations in 2040 forecast

Source: www.boeing.com

**B737 MAX 10 does not have a noise profile in AEDT; the B737 MAX 8 was used as an FAA approved substitute.*

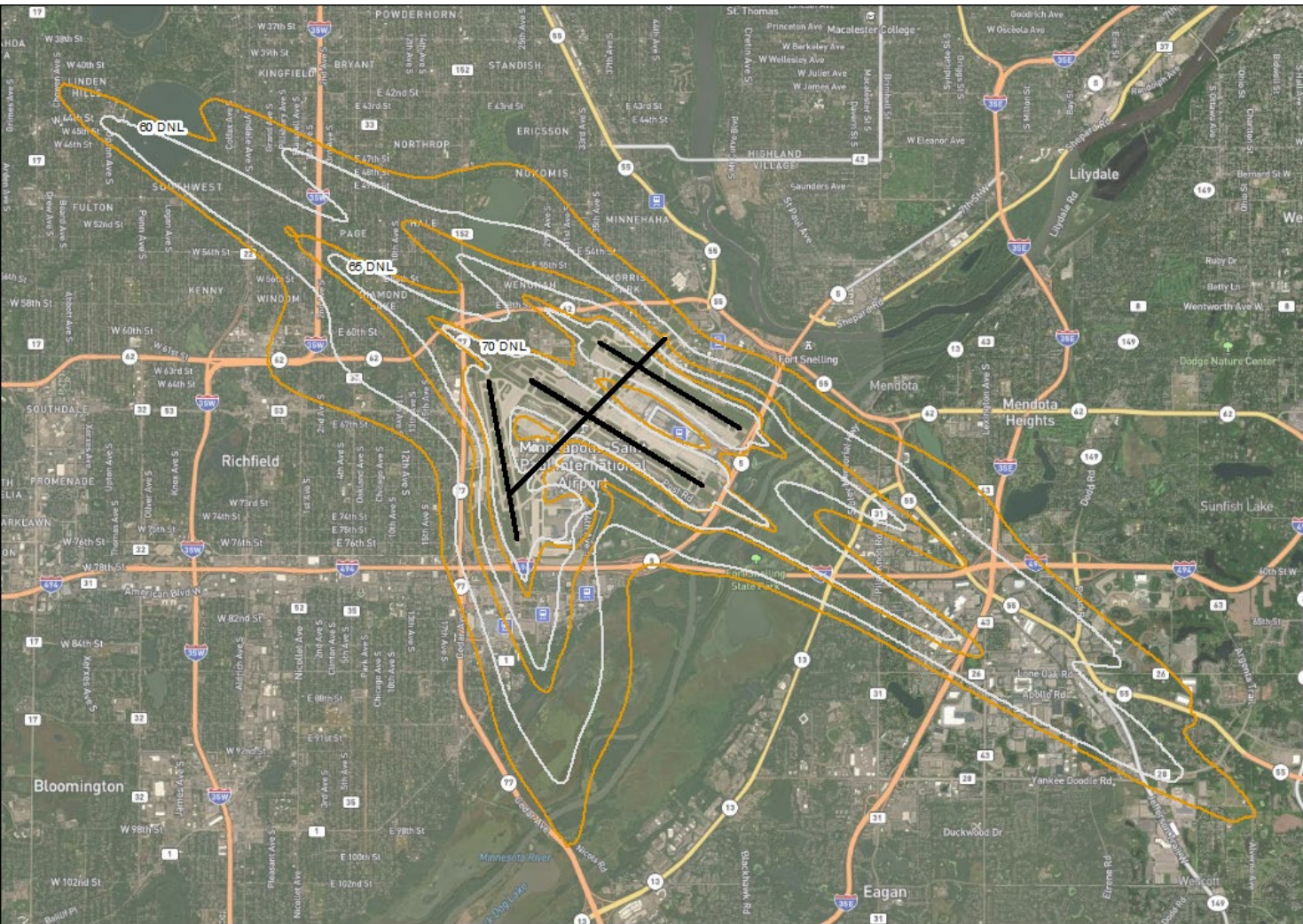


Airbus A220-100 and A220-300

- 50% noise reduction from previous generation
- 0 average daily operations in 2018
- 499 average daily operations in 2040 forecast

Source: www.airbus.com

2040 Baseline Forecast Contour vs. 2018 Actual Contour



2018 Base Year
2040 Baseline Forecast



0 0.5 1 2
Miles

65 dB DNL

5,933 acres

33.5%
increase
from 2018

60 dB DNL

15,775 acres

39.3%
increase
from 2018

Panel Discussion

What questions, concerns or ideas do you have about the preferred alternative?



Preferred Alt.

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Next Steps

Long-Term Plan Steps:

- Airfield Simulation (Base + Deicing)
- Develop Prioritization and Project Costs
- LTP Report Writing

Stakeholder Engagement Steps:

- Informational Updates to MetCouncil
 - TAC (May 3)
 - TAC Planning Sub-Committee (May 11)
 - Transportation Advisory Board (May 17)
- Publish Draft Report for Public Comment
- Hold Public Experience MSP Event (TBD)
- Review Public Comments
- Finalize Plan and Send for MetCouncil Review



Comments and Announcements



Closing Thank You





Thank you

MetroAirports.org MSPAirport.com



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