



DEN FUTURE RUNWAY

SEPTEMBER 15, 2021

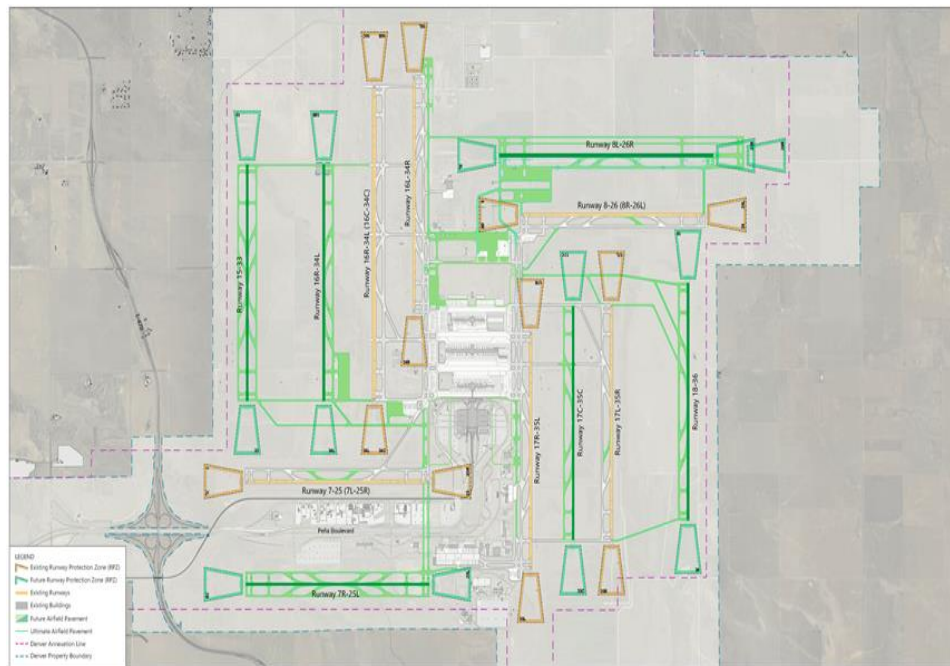
PHIL WASHINGTON, CHIEF EXECUTIVE OFFICER

MICHAEL CLOUD, PRINCIPAL PROGRAM MANAGER
AIM DEVELOPMENT



DEN Master Plan & History

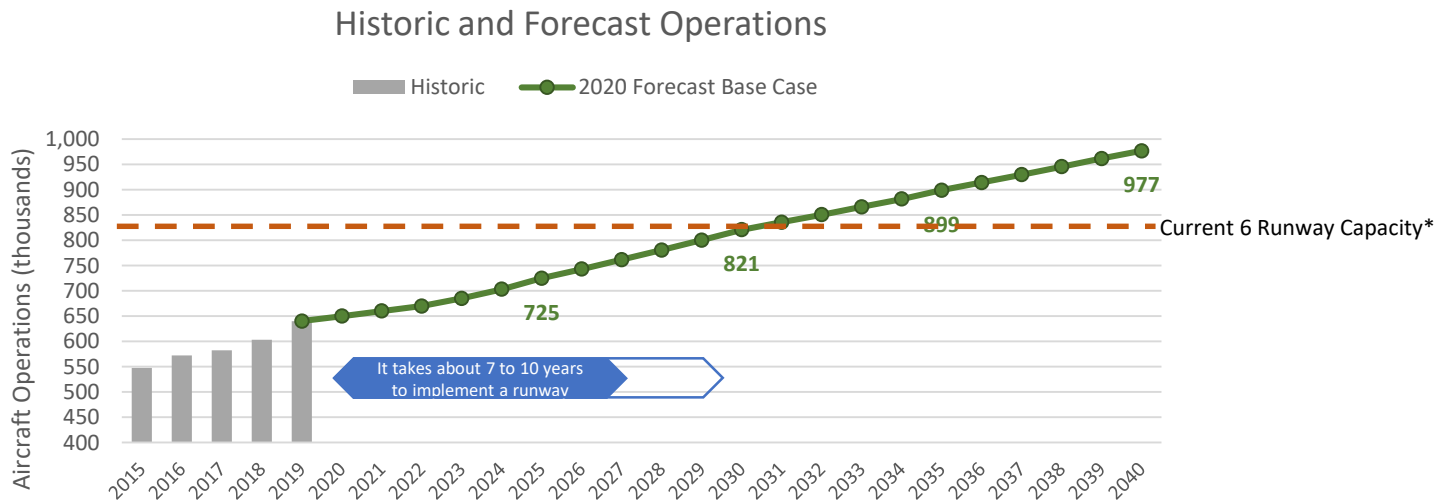
- DEN's 53 square miles of land can accommodate up to **12 runways** with an estimated capacity of about **1.25 million aircraft landings and takeoffs**
- In 1989, DEN conducted an Environmental Impact Statement on the initial 6 runways, with the intent to perform additional reviews for future buildout
- DEN's land was purchased to accommodate these 12 runways and additional property to **protect the Airport and its neighbors** from noise, and other environmental impacts



PREVIOUS PLANNING/FUTURE NEED



- Current six runway capacity is being evaluated to identify the timing for construction of the 7th Runway
- Recent forecasts indicate that a runway could be justified in as soon as 6 years, depending on COVID-19 recovery
- A new runway can take 10 years for environmental review, planning, design, and construction

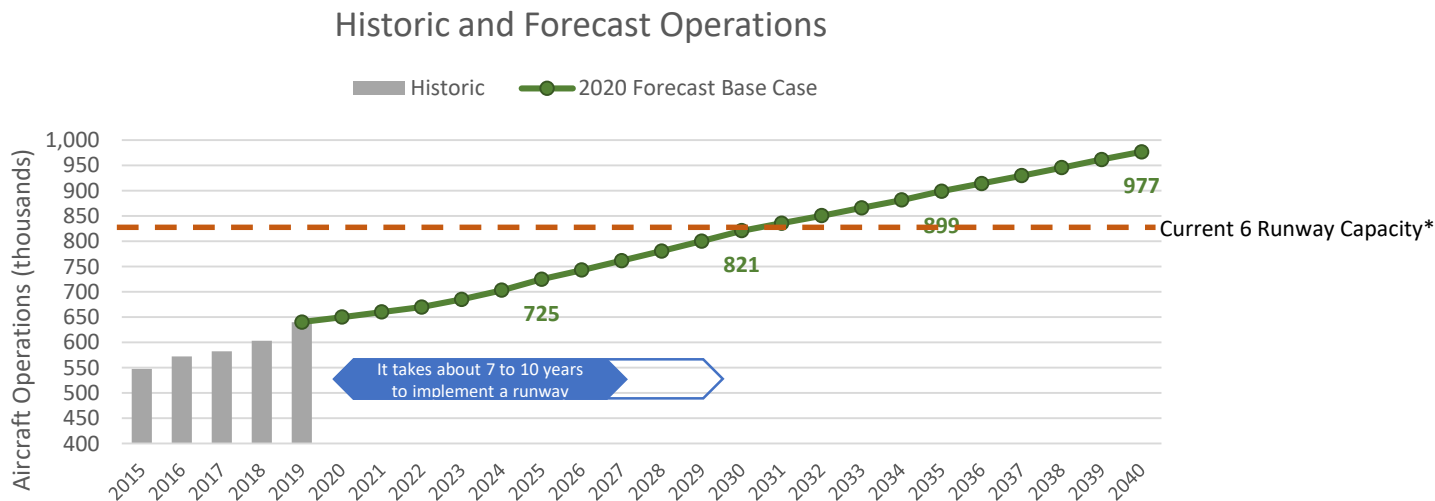


SOURCES: InterVISTAS, Denver International Airport Aviation Activity Forecast, August 2020 (forecast); City and County of Denver, Department of Aviation, April 2019 (Historical); *FAA Annual Service Volume Study for DEN, December 2016 (ASV), 4-minute average delay

PREVIOUS PLANNING/FUTURE NEED



- DEN has coordinated with the FAA over the past 24 months to discuss the future runway need and study requirements
- Critical that DEN takes action to maintain its level of service for the airspace system
- Economic benefit study of all programmed projects at DEN and includes the future Runway



SOURCES: InterVISTAS, Denver International Airport Aviation Activity Forecast, August 2020 (forecast); City and County of Denver, Department of Aviation, April 2019 (Historical); *FAA Annual Service Volume Study for DEN, December 2016 (ASV), 4-minute average delay

Current 7th Runway Planning Studies

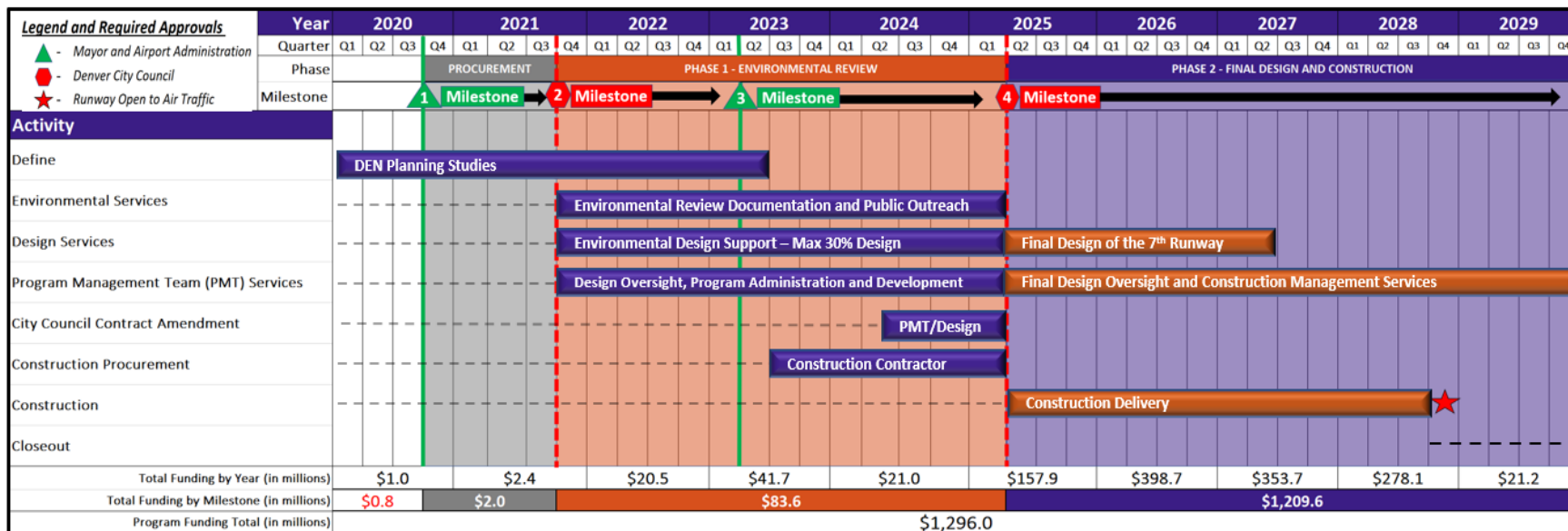
- Airfield planning studies and analyses to inform the subsequent environmental review:
 - Surrounding airspace and DEN airfield simulation modeling
 - Airfield and runway system demand and capacity analysis
 - Runway system configuration and length analysis

Future 7th Runway Environmental Review

- Current planning studies will provide data for the National Environmental Policy Act (NEPA) process
- Purpose and need, runway alternatives, affected environment, and environmental consequences review
- FAA, DEN, and the environmental consultant will execute a robust Public Involvement Plan (PIP)
- NEPA Environmental Review will guide federal approval of the future 7th Runway

- Built-in off-ramps for DEN, City and County of Denver, and FAA
 - Phase 1 (Milestone 2 & 3) – Environmental Review, up to 30% design
 - Phase 2 (Milestone 4) – Final design and construction
- DEN is procuring three professional services consultants for the program:
 - Environmental - HNTB
 - Design - Jacobs
 - Program Management Team (PMT) - AECOM
- Current contract request is only for Phase 1, Environmental Review or “Due Diligence” phase
- To complete Phase 2, DEN must obtain City Council approval to amend the PMT and Design contracts, and to execute a construction contract

CONCEPTUAL SCHEDULE AND BUDGET



- Program funding and schedule assumes most complex runway out of the six (6) alternatives

Due Diligence Phase – Environmental Review Only

- Program Management Team Services (AECOM) – Phase 1 only
 - Budget: \$22.6M
 - Scope of Work: Program Management Services; oversight of Designer and Environmental Consultants
 - DBE Assigned Goal 25%; Committed to 25%; Projected 30%
- Design Services (Jacobs) – Phase 1 only
 - Budget: \$46.0M
 - Scope of Work: Up to 30% design and engineering analysis to support Environmental Review
 - DBE Assigned Goal 23%; Committed to 23%; Projected 23.7%
- Environmental Services (HNTB) – Phase 1 only
 - Budget \$15M
 - Scope of Work: Environmental Assessment and, if required Environmental Impact Statement
 - DBE Assigned Goal 15%; Committed to 15%; Projected 22.75%

Civic Outreach

- DEN will continue a robust community engagement process to provide:
 - Overview of the 7th Runway and why it is needed
 - Conceptual schedule for implementation
 - Phasing of the Program and Environmental Review process
 - Commitment to future outreaches for transparency with the Environmental Review process
- City Council Study Session Outreach
 - Aurora Study Session – May 17th
 - Adams County Study Session – May 25th
 - Commerce City Study Session – July 26th
 - Brighton Study Session – August 10th
- Denver City Council member briefings
- Community presentations

Environmental Review – Phase 1

- Public Involvement Plan (PIP) Framework and Outreach Approach
 - Promote understanding of the National Environmental Policy Act (NEPA) process
 - Provide public access to information during the environmental review process
 - Educate the public about the project
 - Encourage the public to become involved in the environmental review process
 - Provide roles of government agencies and the public, schedule, coordination, and communication throughout the NEPA process
- FAA and Environmental Consultant will be responsible for conducting public meetings/hearings
- DEN will serve as a liaison between FAA and the community, providing informational briefings as needed

Questions?

DEN Airport Facts

- 5th busiest airfield in the world in 2019 in terms of aircraft operations (~640,000 landings/takeoffs)
- DEN is a major hub for 3 airlines
- \$33.5 billion annual economic impact to Colorado (2020 Colorado Economic Impact Study)
- 39 additional gates will increase DEN's capacity by 30 percent by 2022
- Unique weather and wind patterns can limit the airfield capacity
- Growth forecast of aircraft operations (2020) shows a need for additional airfield capacity:
 - ~821,000 operations in 2030
 - ~977,000 operations in 2040

DBE PARTICIPATION



- Environmental Services

DBE Firm	Role on This Project	Targeted % of Work	Contact Name	Phone Number	Email
CIG (<i>DBE, SBE, MWBE</i>)	Subconsultant: Public involvement; socioeconomics, EJ, and children's env. health and safety risks	8%	Julie Skeen	303.905.4108	julie@cig-pr.com
Pinyon (<i>DBE, SBE, MWBE</i>)	Subconsultant: Biological resources; water analysis; natural and historic, archaeological and cultural resources assessment; quality control	4%	Robyn Kullas	303.980.5200	kullas@pinyon-env.com
Entitlement and Engineering Solutions (EES) (<i>DBE, SBE, MWBE</i>)	Subconsultant: Water quality review; land entitlements	3%	Amanda O'Connor	303.210.0222	amanda.oconnor@ees.us.com
Subtotal		15%			

DBE PARTICIPATION



- Design Services

DBE Firm	Roles & Responsibilities	Utilization Plan Commitment*	Point Of Contact	Phone Number	Email
105 West	Survey support	1.0%	Robert Maestas	303-859-4491	rmaestas@105west.com
EES	Drainage support, erosion control, permitting	3.0%	Amanda O'Connor	303-210-0222	amanda.oconnor@ees.us.com
Geocal	Geotechnical Investigations and Design	1.0%	Nur Hossain	303-337-0338	nurhossain@geocal.us
SAN Engineering	Structural support	1.0%	John Migliaccio	303-503-2593	john@sanstructural.com
Shrewsberry	Stakeholder management, process management, FAA coordination, and airfield design support	11.0%	Matthew Nutter	720-235-0605	mnutter@shrewsusa.com
Smoky Hill Engineering	Bridge and road structural support	1.0%	Demeke Ashebo	720-301-9423	dashebo@smokyhilleng.com
Trace	Airfield design and survey support	2.0%	Chintan Jhaveri	602-680-8264	cjhaveri@traceconsulting.us
Walls Engineering	Airfield electrical support	1.0%	Richard Walls	919-522-0628	rjwalls@we-engineering.com
West Coast Civil	Airfield/landside drainage support	2.5%	Erik McKnight	303-390-0172	eric_m@wccivil.com
ZANN	DBE plan/outreach/tracking	0.2%	Suzanne Arkle	720-324-8580	suzanne@zanninc.com
Sub Total		23.7%			

*Jacobs is committed to meeting the 23% DBE Participation goal. Above is the percentage we have assigned to each of our subs towards achieving the goal as presented in our DBE Utilization Plan.

DBE PARTICIPATION



- Program Management Team

DBE Firm	Role on this Project	Targeted % of Work	Contact Name	Phone Number	Email
LS Gallegos (<i>DBE, SBE, MWBE</i>)	Subconsultant: Program Controls; Document Controls	14%	Larry Gallegos	303.790.8474	lgallegos@lsgallegos.com
CIG (<i>DBE, SBE, MWBE</i>)	Subconsultant: Public involvement; socioeconomics, EJ, and children's env. health and safety risks	9%	Laurie Meza	303.670.2537	laurie@cig-pr.com
ZANN (<i>DBE, MWBE, EBE, SBE</i>)	Subconsultant: DBE Compliance	2%	Suzanne Arkle	720.324.8580	suzanne@zanninc.com
Subtotal		25%			

DEN BY THE NUMBERS



Airport Ranking
In the U.S.

5th

Annual Economic
Impact

\$33.5B

Airlines Serving
DEN

24

Non-stop
Destinations

216

Passenger Traffic Growth

54M



2015

69M



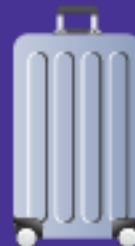
2019

81M



2025*

94M



2030*

108M



2035*

122M



2040*