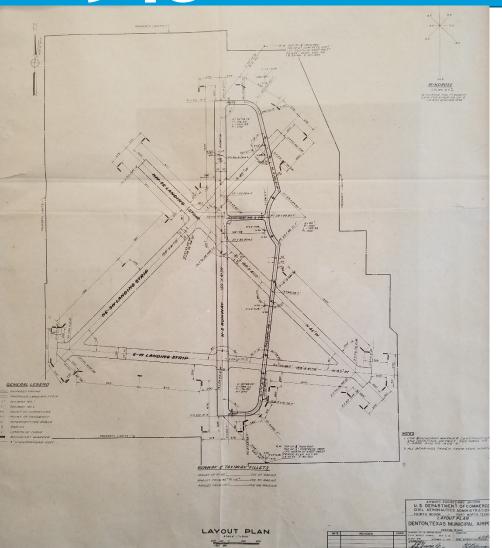
Welcome to Denton Enterprise Airport



1943







- Army Air Corp Training Field
- Waco Glider / Douglas C-47

1985



Capital Improvements



- 1990 Runway Extension (6,000' x 150')
- 2004 Air Traffic Control Tower
- 2007 Terminal Building Constructed
- 2008 Taxiway Alpha Constructed
- 2009 Terminal Ramp Expanded
- 2010 Runway Extension (7,002' x 150')
- 2011 Airport Rescue and Firefighting Vehicle
- 2011 Terminal Ramp Expanded
- 2019 West Parallel Runway Construction

2013



Denton Enterprise Airport
DFW Access... Extraordinary Business

2021



Runway 18R/36L



Economic Impact

2018 TxDOT Aviation Economic Impact Study

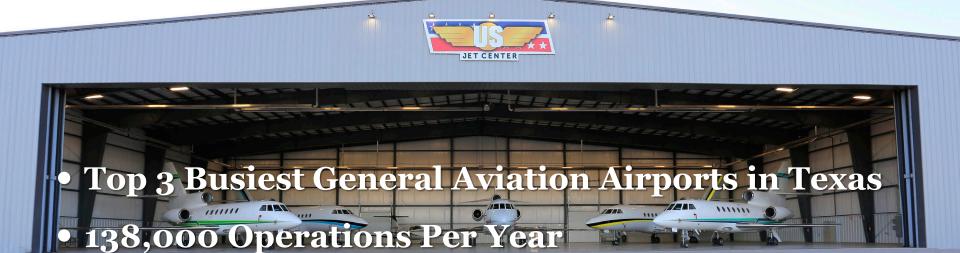
- Approximately 1,435 Jobs
- \$45.8 M Payroll
- \$146.3 M Goods/Services



DFW Access... Extraordinary Business

Top 10 - Busiest Airports In Texas





- Top 12 Busiest Contract ATCT
- Top 100 Busiest Airports in the U.S.

Service Providers



US Trinity Aviation



US Jet Center



US Aviation Academy



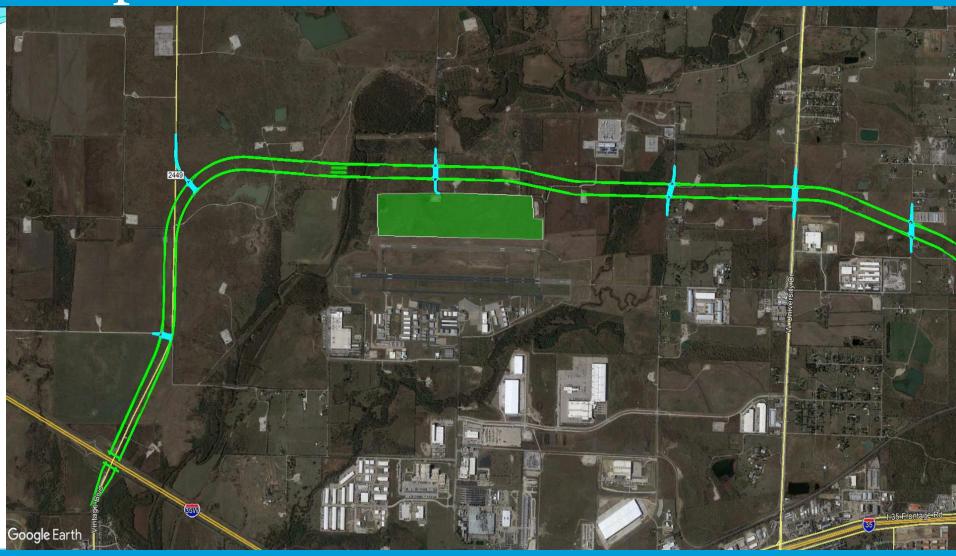
Med Trans



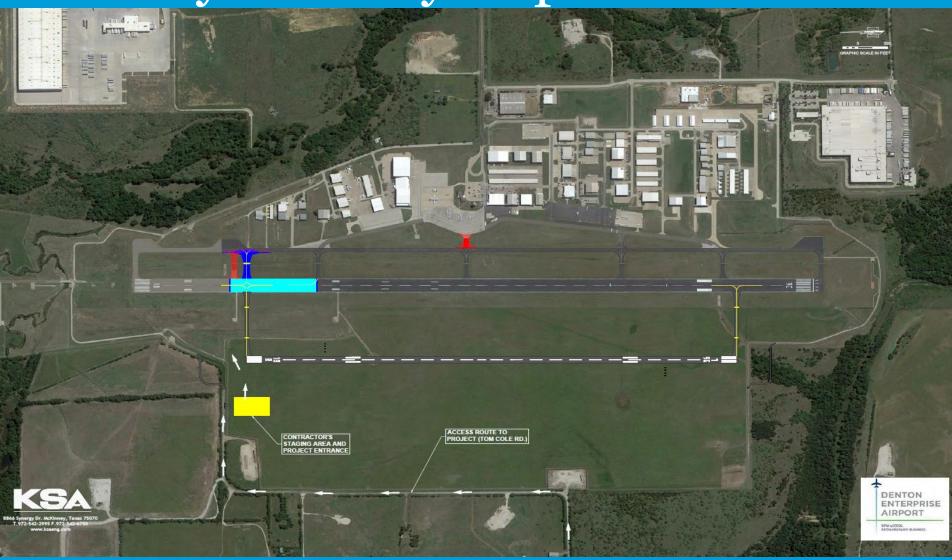
Development Opportunities



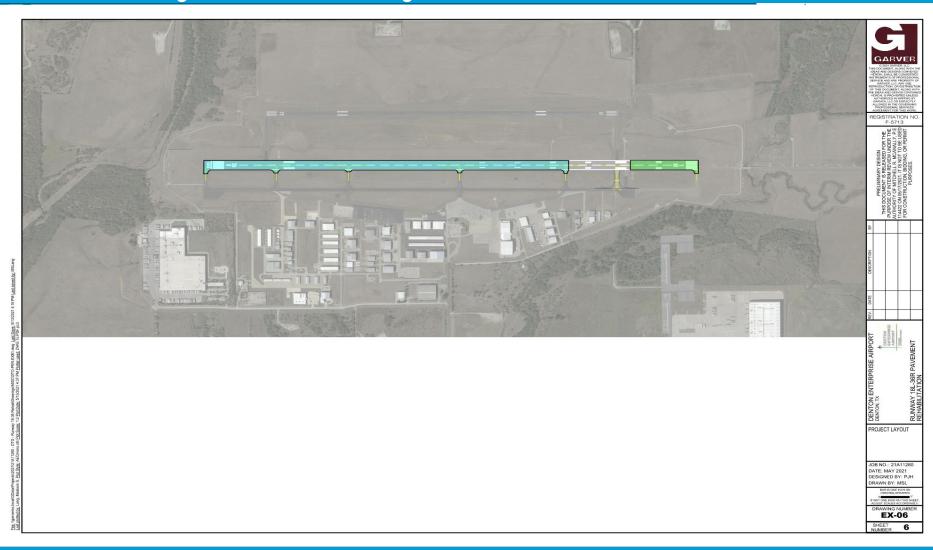
Loop 288 Extension



Primary Runway Repair



Primary Runway Reconstruction



Questions?



Denton Enterprise Airport DFW Access... Extraordinary Business



Texas Small Airport Economic Impact Estimator Tool

Jeff Borowiec, Ph.D. Brianne Glover, J.D. Jacki Kuzio

Project Team

- TxDOT Project Team
 - Jim Halley, Airport Planning and Programming Section Director, AVN
 - Katheryn Cromwell, Airport Planner, AVN
 - Joanne Steele, Research Project Manager, RTI
- Research Project Team
 - Jeff Borowiec, Research Project Supervisor
 - Brianne Glover
 - Maxwell Steadman
 - Jacqueline Kuzio
 - Daniel Wang
 - Chris Bratlien

Research Problem

The Texas Department of Transportation Aviation Division periodically conducts a statewide economic impact study to determine the economic benefits provided by the Texas airport system. However, for many airports, there is a further need to be able to determine their economic impact.

The reasons for this are:

- 1. Many airports are not included in the analysis because of their small size.
- 2. Some airports have seen activity that has sufficiently changed between studies. This renders the previously determined numbers outdated.
- 3. Some airports would like to have more detailed economic impact analysis conducted beyond that which can be provided by a study that must examine 300 airports.

Because many local officials use these numbers to justify grant-matching funds and investment in their airports, it is important to have current data available for decision-making.

Overview

Project Management and Research Coordination

Literature Review

Develop and Test Economic Impact Model

Design and Test Web-Based Economic Impact Estimator Tool

Develop and Write Small Airport Economic Impact Estimator Tool User's Guide and Administrator Guide

Literature Review

Determine the current state-of-the-practice and emerging research on economic impact models for small airports as well as innovative tools and techniques for determining economic impact of small airports.

- Literature search using Transport Research International Documentation (TRID).
- Literature search using Google Scholar
- Review economic impact studies performed by individual states
- Review airport-specific economic impact studies
- Identify/review visitor spending patterns and relationships to aviation
- Identify activity data sources
- Identify/define small airports (general aviation and non-hub commercial service)
- Identify/review web-based economic models and tools; and
- Identify the most appropriate county-level and economic sector multipliers for the model.

Develop and Test Economic Impact Model

Identify, collect, and organize airport-related economic and activity data

Airport Sponsor-Related

- Airport operations
- Employment
- Payroll (salaries/wages/benefits) of airport employees
- Operating expenditures
- Capital expenditures
- Number of enplanements (if commercial service);
- Visitor spending
- Operations mix (local/transient)
- Aircraft occupancy

- Tenant/Business-Related
 - Employment by industry/business type
 - Operating expenditures
 - Payroll (salaries/wages/benefits) of airport businesses
 - Gross sales
 - Capital expenditures.

Design and Test Web-Based Economic Impact Estimator Tool

- Design and Implement a web interface for the spreadsheet model/database
- Easy, user-friendly data input for airport sponsors
- Calculate results and display in clear and concise format
- Select 3 to 5 airports to validate results

Develop and Write Small Airport Economic Impact Estimator Tool User's Guide and Administrator Guide

- User's Guide for the Estimator Tool
 - How to use the tool and guidance on the input data
 - How to obtain the required data
 - Guidance on the results what they mean and how they can be interpreted and used
- Administrator Guide
 - Compatibility/Administration/Security/Maintenance/Backup procedures

Economic Impact Model

- Inputs
 - Airport Sponsor and Tenant Activity
 - Annual Operating Expenses
 - Employment
 - Payroll
 - Capital Improvement Expenditures
 - Number of Visitors
 - Tenant Activity is by Job Classification

Economic Impact Model

- Priority/Preferred Inputs
 - (1) Operating Expenses (2) Employment (3) Payroll
- CIP Uses 3-Year Average and includes RAMP
- Visitor Spending
 - Based on Number of Visitors
 - Texas Specific Spending Visitor Spending Data
- Employment
 - 16 Different Categories of Jobs
- Model Loads Most Current Data with Option for User Override

Economic Impact Model

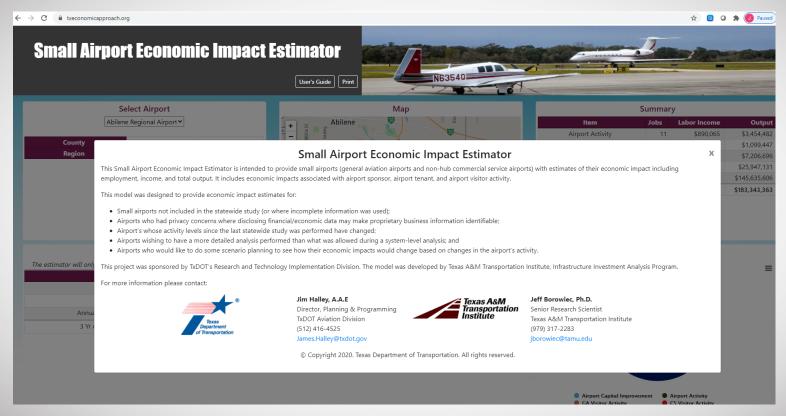
Outputs

- Total Output
- Total Employment
- Total Payroll

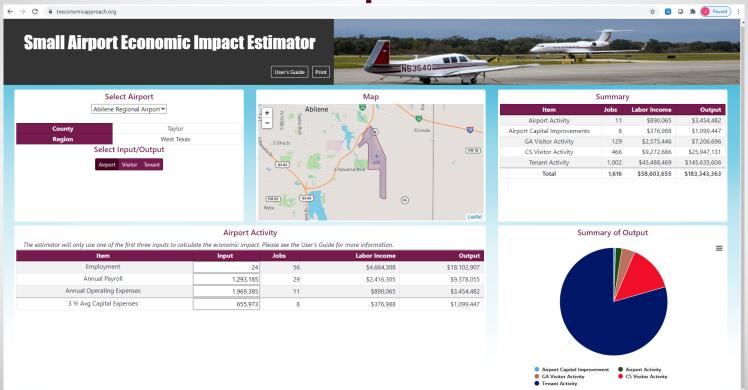
for

- Airport Sponsor
- Airport Capital Improvements
- Visitors
- Tenant Business Activity

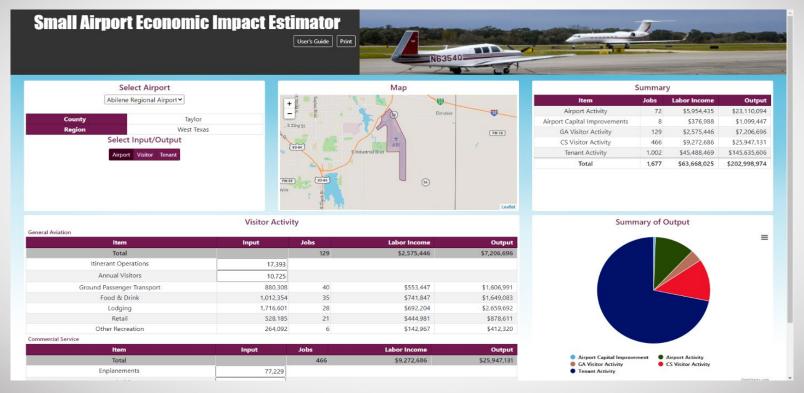
Small Airport Economic Impact Estimator



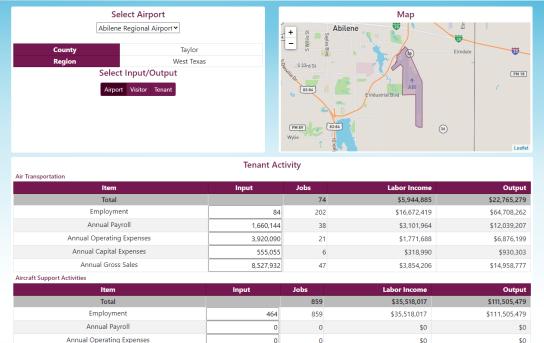
Small Airport Economic Impact Estimator - Airport



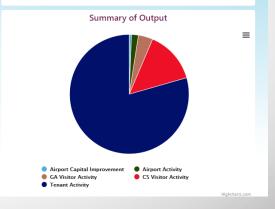
Small Airport Economic Impact Estimator - Visitor



Small Airport Economic Impact Estimator - Tenant

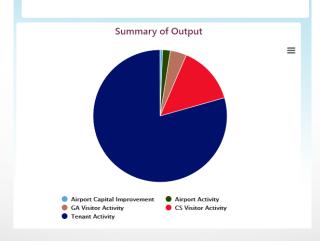


Summary				
ltem	Jobs	Labor Income	Output	
Airport Activity	11	\$890,065	\$3,454,482	
Airport Capital Improvements	8	\$376,988	\$1,099,447	
GA Visitor Activity	129	\$2,575,446	\$7,206,696	
CS Visitor Activity	466	\$9,272,686	\$25,947,131	
Tenant Activity	1,002	\$45,488,469	\$145,635,606	
Total	1,616	\$58,603,655	\$183,343,363	

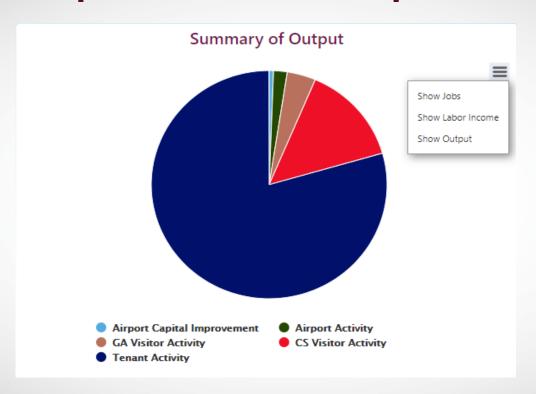


Small Airport Economic Impact Estimator - Summary

Summary				
Item	Jobs	Labor Income	Output	
Airport Activity	11	\$890,065	\$3,454,482	
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Total	1,616	\$58,603,655	\$183,343,363	



Small Airport Economic Impact Estimator



Small Airport Economic Impact Estimator

Website: https://txeconomicapproach.org/

You Tube: https://www.youtube.com/watch?v=7J2rWk7eK44



Jeff Borowiec, Ph.D.
Aviation Practice Leader
Senior Research Scientist
Infrastructure Investment Analysis Program

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Bryan, TX 77807
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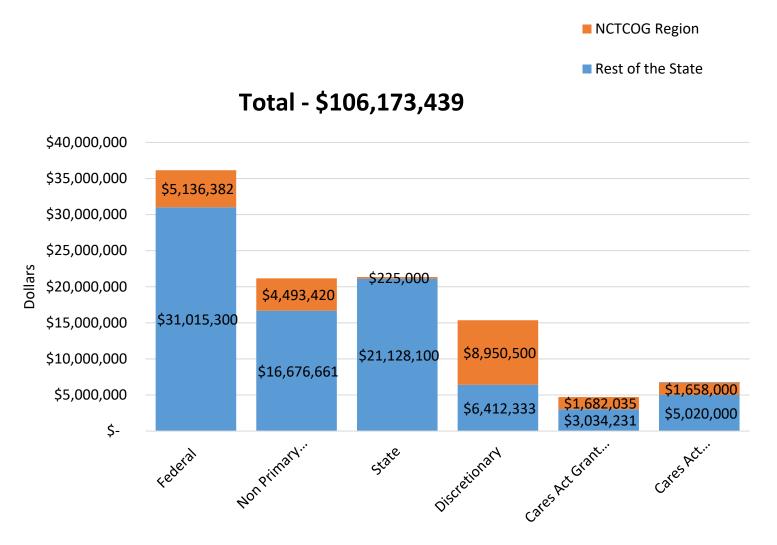
AIR TRANSPORTATION ADVISORY COMMITTEE

JUNE 3, 2021

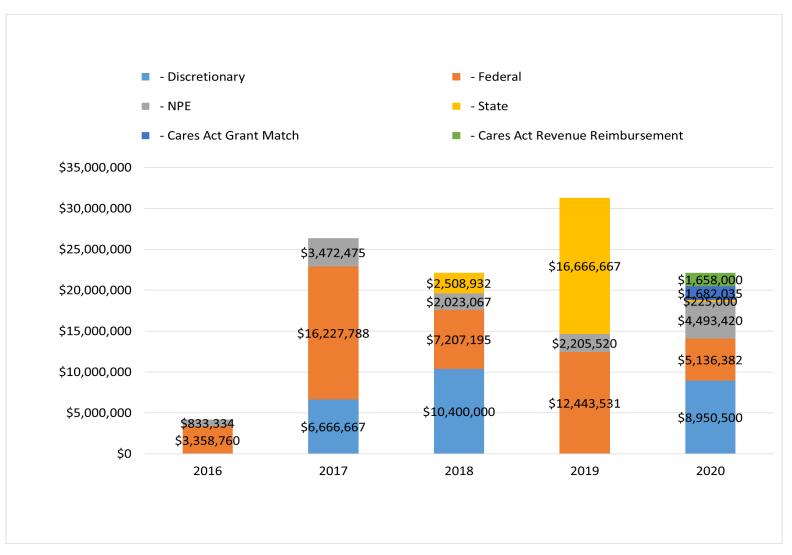


Regional Airport Funding Update Jeff Kloska

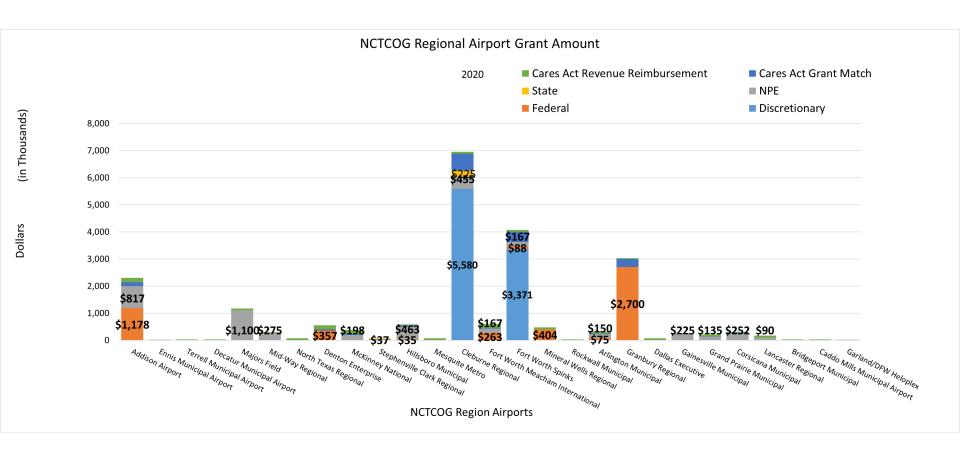
Texas Grants by Funding Source 2020



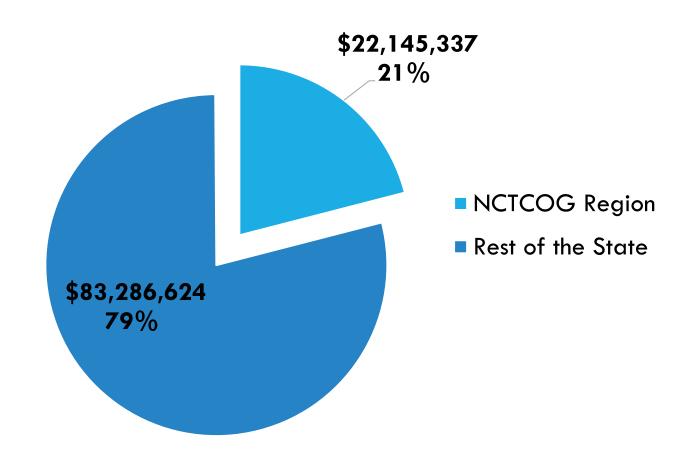
DFW Region Annual Funding Comparison



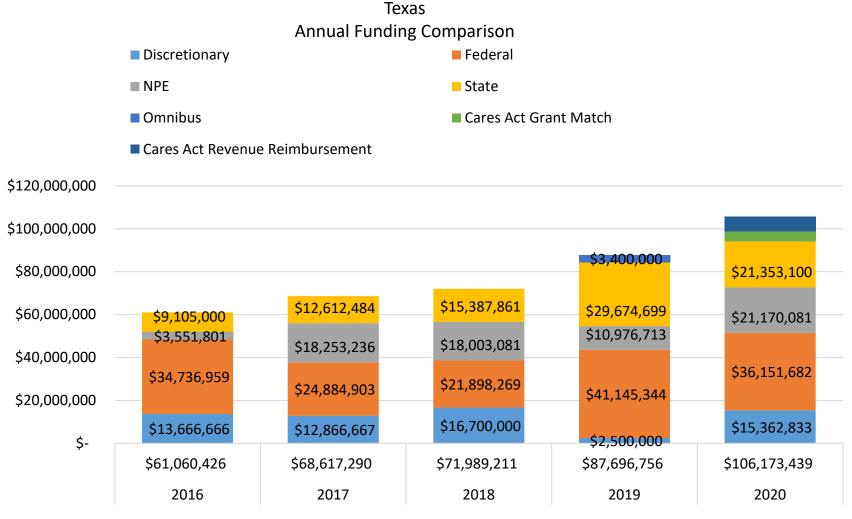
NCTCOG Regional Airport Grant Amount 2020



NCTCOG Region vs. Non-Regional Funding 2020



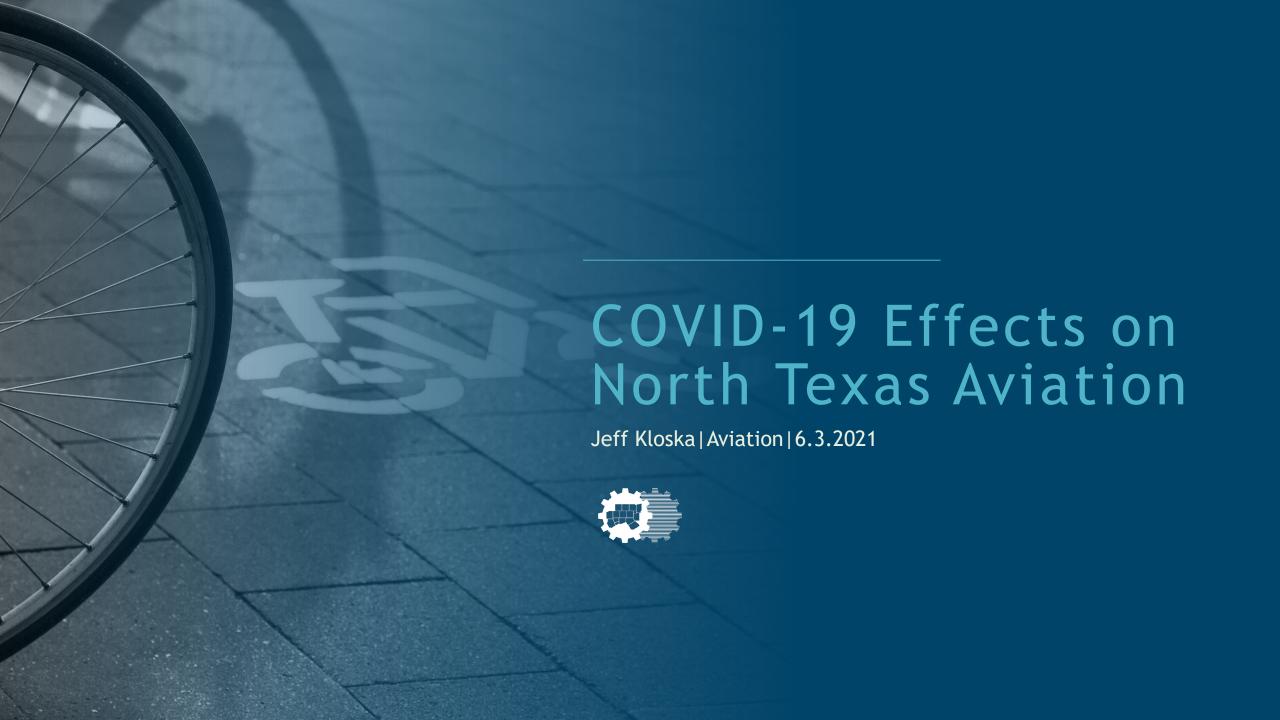
Texas Annual Funding Comparison



Questions?

Jeff Kloska A.A.E.

Jkloska@nctcog.org
(817) 640-3300

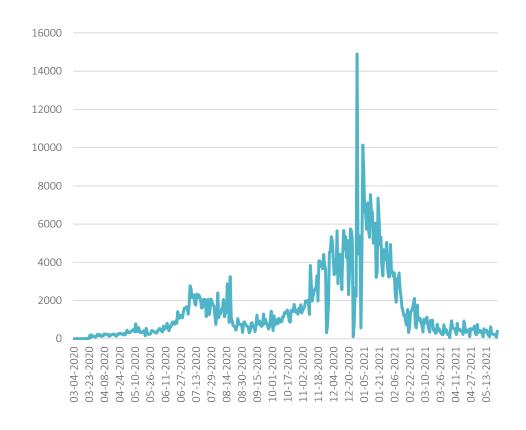


NCTCOG Region Diagnosed New COVID -19 Cases

Three distinct waves

 Graph only shows tested/diagnosed cases

 Testing was also limited early in the pandemic. Testing is now easily accessible

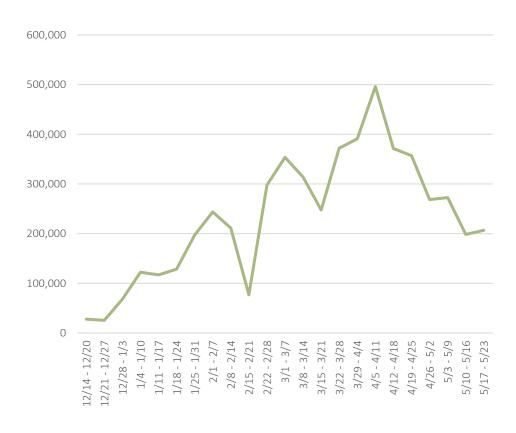


NCTCOG Weekly Vaccination Counts (NCTCOG Region)

 Three major vaccines in United States

Moderna, Pfizer and J&J

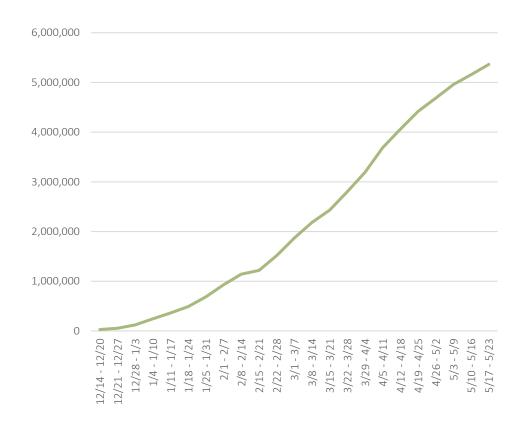
Texans 12 and older now eligible



Cumulative Vaccination Status (NCTCOG Region)

• 5.4 million doses given in the 16-county area

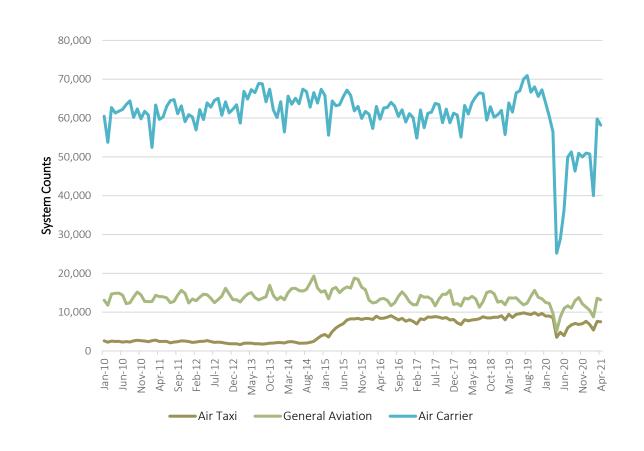
• 21.6 million doses given statewide



FAA TFMSC Data For NCTCOG Region 2010 -2021

 Cases begin to spread rapidly in March 2020 and significant restrictions take hold

 Bottom falls out for the aviation industry in April 2020 as people stop traveling



Source: FAA

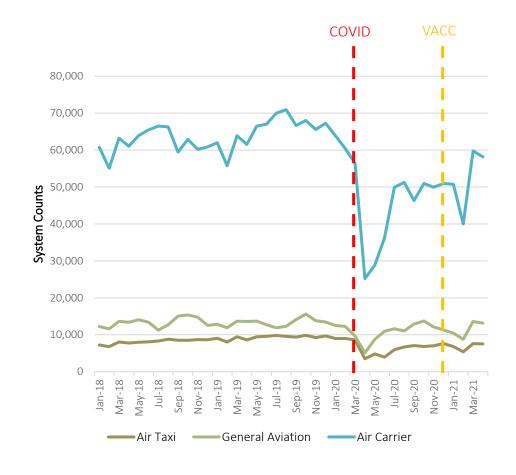
Traffic Flow Management System Counts (TFMSC)

FAA TFMSC Data For NCTCOG Region 2018 -2021

 Air Carriers responded quickly to slow their cash burn

 GA quickly recovered to near pre-pandemic levels

International travel is still highly restricted



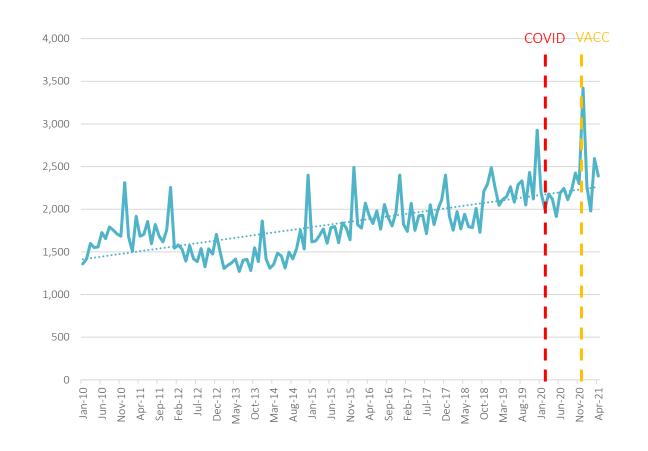
Source: FAA

Traffic Flow Management System Counts (TFMSC)

FAA TFMSC Data for NCTCOG Region 2010 -2021 (Air Freight)

 Air freight has sustained well throughout pandemic

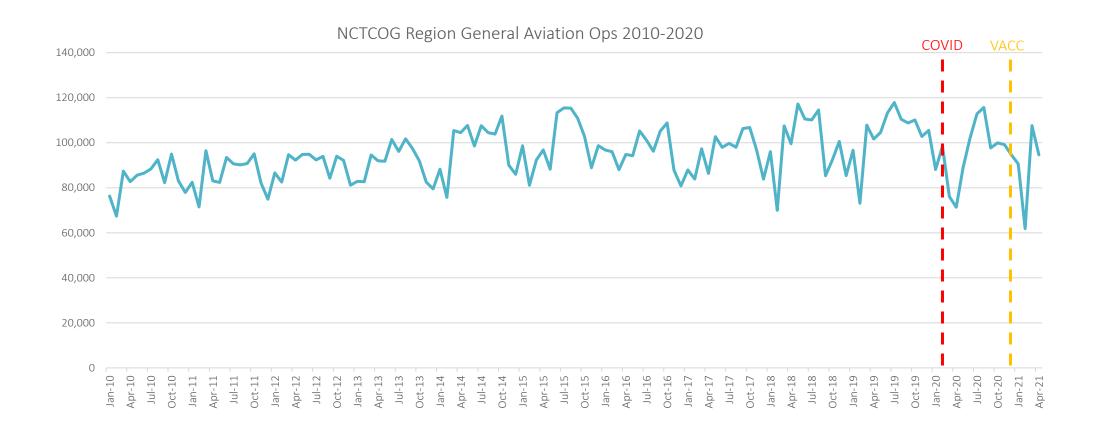
 Lockdowns encouraged online ordering/shipping



Source: FAA

Traffic Flow Management System Counts (TFMSC)

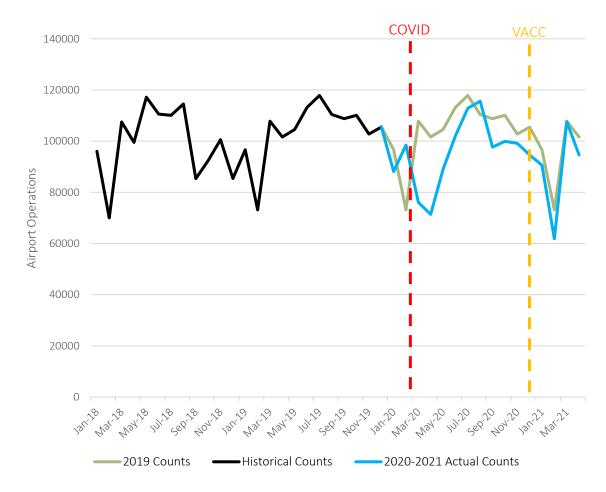
NCTCOG Region GA Operations Since 2010



NCTCOG Region GA Operations 2019 Compared to 2020

 General Aviation's recovery was quick, but COVID restrictions still have a lasting effect

 2020 numbers remained slightly below 2019 numbers

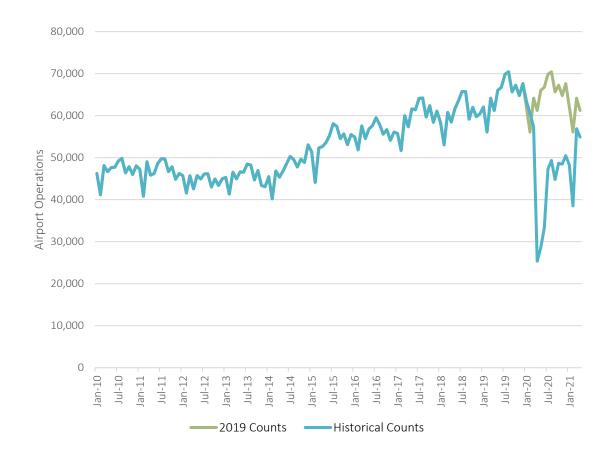


Source: FAA OPSNET

AFW – DAL – DFW Combined Commercial Operations

• Operations remain below 2019 levels but recovering quicker than anticipated.

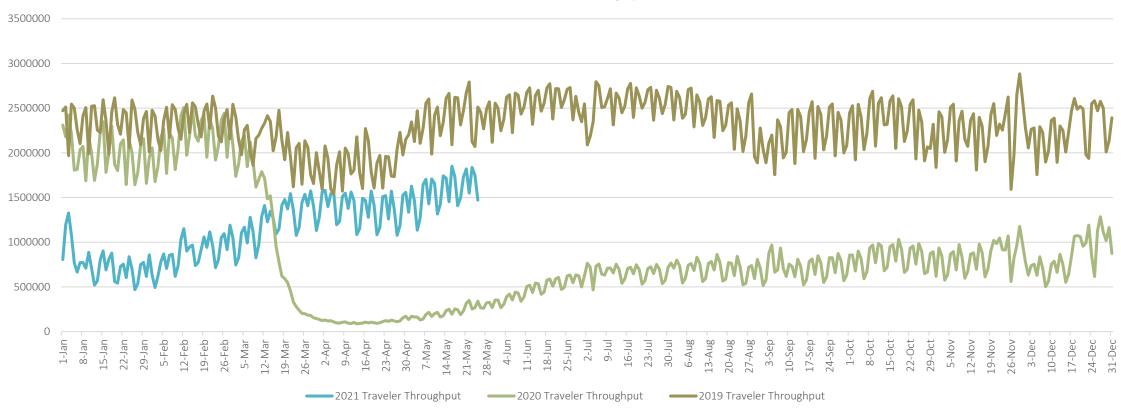
International travel still slow



Source: FAA OPSNET

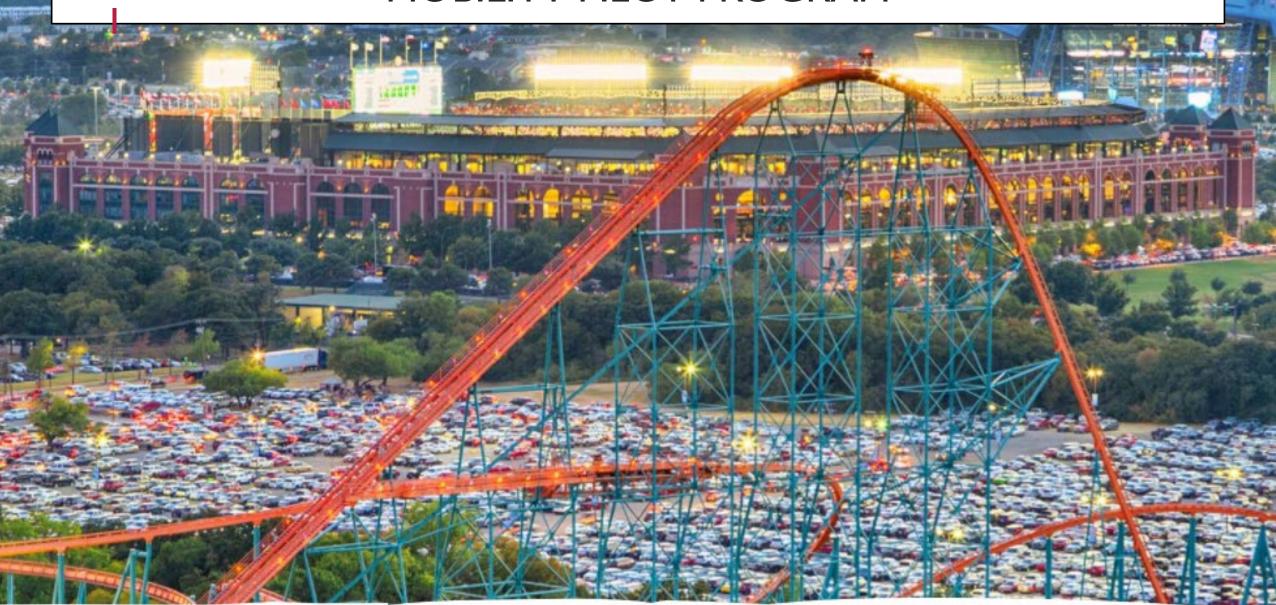
National TSA Throughput Counts



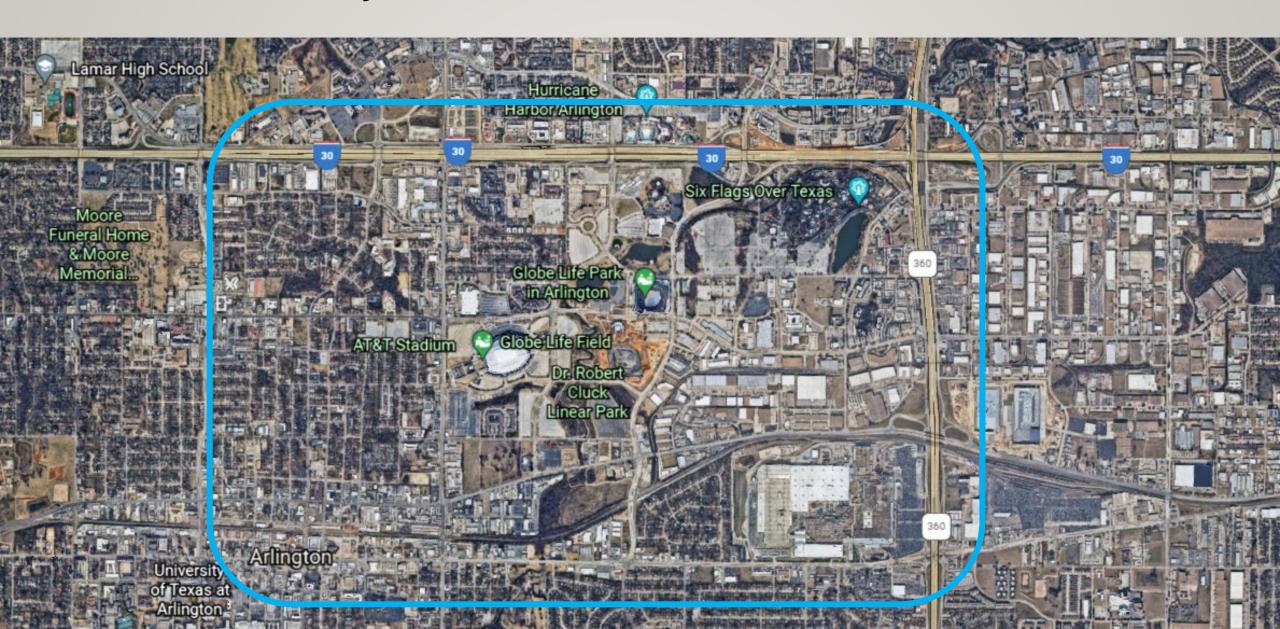


Questions/Comments?

ARLINGTON ENTERTAINMENT DISTRICT ADVANCED AIR MOBILITY PILOT PROGRAM



PILOT PROJECT FOCUS AREA



THE PROBLEM

- Reckless Drone Flights
- Lack of Routine BVLOS operations
- Lack of Institutional Know How
- Lack of Community Engagement
- Lack of Integration with Automated Vehicles

ARLINGTON ENTERTAINMENT DISTRICT ECOSYSTEM

Service Providers

- Hidden Level Drone Detection
- TruWeather Solutions Low Altitude Weather Monitoring
- Airspace Link Airspace and Operations Management
- Live Earth Situational Awareness

Operators

- City of Arlington Tactical Public Safety Operations
- NCTCOG Public Safety Unmanned Response Team (PSURT) Tactical Public Safety Operations
- University of Texas at Arlington Research
- Flytrex and Causey Aviation Small Package Delivery

Program Management

- City of Arlington
- NCTCOG
- CASA

NCTCOG/NASA ADVANCED AIR MOBILITY COMMUNITY PLANNING AND INTEGRATION AGREEMENT (NONFUNDED)

NASA has agreed to work with NCTCOG and other regional partners to:

- Address key barriers with Advanced Air Mobility (AAM) community integration towards adopting AAM services in urban areas
- Address technical barriers across vehicle design, vehicle operation, airspace design, and airspace integration that would benefit from inputs provided by local, regional and or state decision makers
- Assist NCTCOG in writing AAM related planning and integration into our Transportation Improvement Program

Next Steps

• Participate in at least four tabletop workshops to develop inputs into the local transportation plan(s). These updates would include the stakeholders, steps, and actions necessary to integrate AAM into the local or regional area multi-modal transportation systems.

NCTCOG GOALS (DRAFT)

- I. Planning for scaling the Arlington Entertainment District AAM Pilot Program to other cities (i.e. innovation zones, entertainment districts, etc.)
- 2. Planning to support synergies between the Mineral Wells Innovation Zone and Alliance/Hillwood Mobility Innovation Zone
- 3. Planning of Air Taxi and Air Cargo/Package Corridors or procedures between DFW Airport and partner cities
- 4. Use North Texas Airports for the initial Air Taxi Network for inter- and intra-city travel
- 5. The development of a best practices document for public outreach, engagement and education strategy

PROPOSAL TEAM

- NCTCOG
- Hillwood/Alliance Mobility
 Innovation Zone
- Dallas/Fort WorthInternational Airport
- The Mineral Wells Innovation
 Zone
- City of Dallas
- City of Fort Worth

- City of Frisco
- City of Richardson
- Bell Textron
- University of North Texas
- University of Texas at Arlington
- University of Texas at Dallas
- Southern Methodist University

- Transportation Research
 Alliance
- AECOM
- Swanson AviationConsultancy