

City of Austin

ABIA 2040 Master Plan

Project Advisory Committee

June 26, 2017



Austin-Bergstrom
International Airport

WELCOME!

Your success is
Dell gives 98% of For
companies the power to

BARBARA JORDAN TERMINAL

GATES 1-11 GATES 12-25

Purpose

- Educate and inform Stakeholders on ABIA 2040 Master Plan
- Solicit input on the “Vision for the Future” at ABIA



Introductions

- Name
- Affiliation
- At what age did you take your first flight?
- Where did you go on your first flight?



What makes Austin special?

We think ABIA has something to do with that!



Click [here](#) to watch a video on ABIA, or copy and paste the following link into your browser:

<https://www.youtube.com/watch?v=eLdN6WodA1o&t=4s>

Current Project Updates

Perspective
View
Looking NW



Austin-Bergstrom
International Airport



HENSEL PHELPS
Plan. Build. Manage.

**ABIA Term/Apron
Expansion and Improvements**

Image # 01
Date : 05.24.2017
Photo 888.542.0231



**Austin-Bergstrom
International Airport**

ABIA PARKING GARAGE AND ADMINISTRATION BUILDING PRE-BID MEETING

MAY 17, 2017



NORTHWEST



Austin-Bergstrom
International Airport

New Consolidated Maintenance Complex



About the ABIA 2040 Master Plan

- Guiding vision for Airport's future, next 20 years
- Address emerging technologies and future growth



Topics

- About the ABIA Master Plan Need and Schedule
- ABIA Critical Issues
- Airport Benchmarking Study (20-30 MAP)
- New Technology
- “Vision for the Future” Discussion



Project Advisory Committee (PAC) Roles

- Act as a sounding board
- Information exchange to the surrounding communities and stakeholders
- Review the planning team's plans and
- Interact with the planning team members
- Make consensus recommendations
- Provide recommendations on the final development plan
- Weight final plan against community goals, values, and needs



ABIA 2040 Master Plan is a Strategic Roadmap

- Provides a financially feasible, environmentally compatible, and sustainable development plan.
- Support the financial health of the region's most valuable economic engine.



Existing ABIA Layout

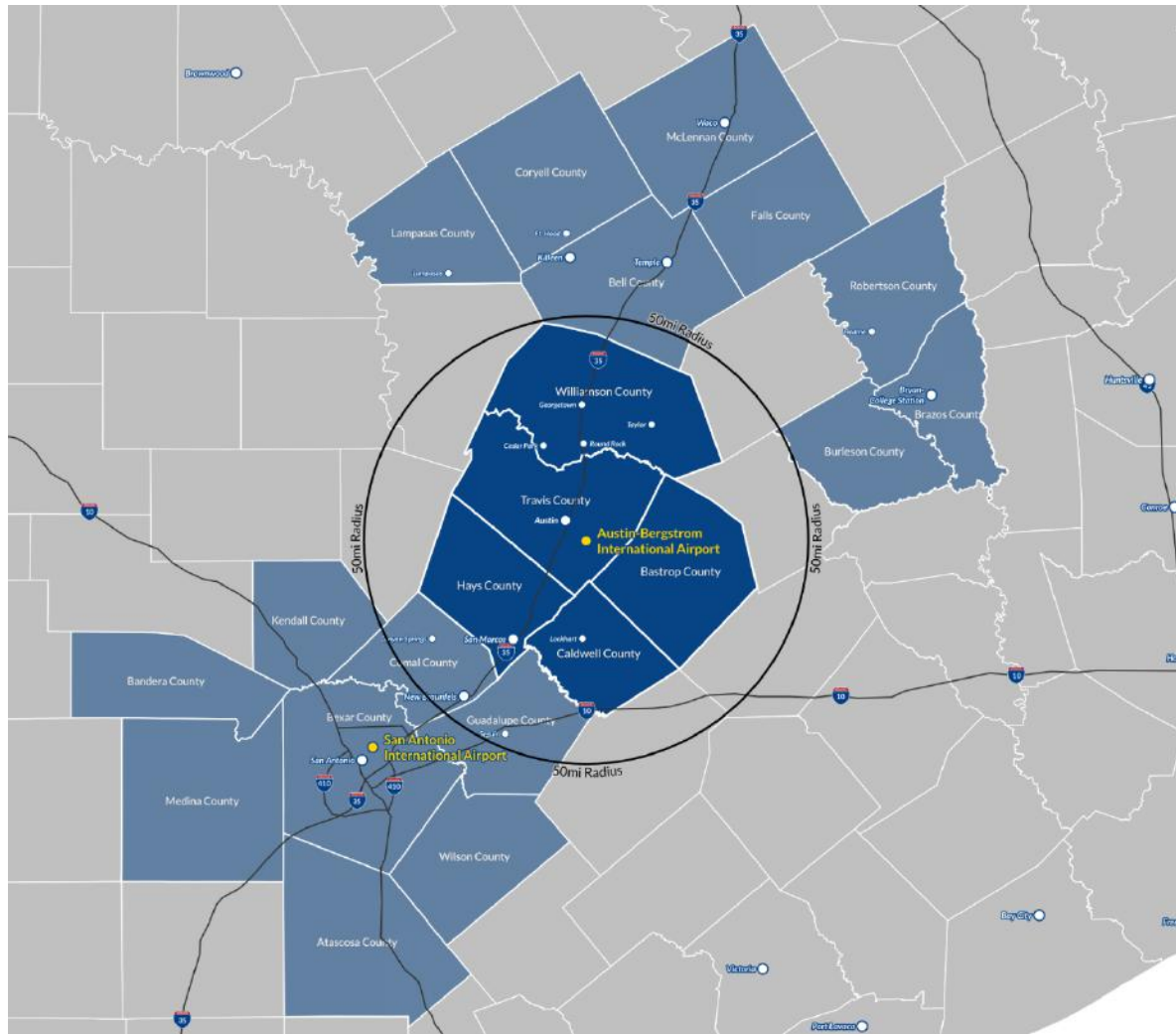
- 4,200 acres
- 2 all-weather runways
- 34 aircraft gates
- 12.4 MAP in 2016
- 13,882 parking spaces
- 2 FBO's (Atlantic & Signature)
- New 49 acre Million Air FBO in 2019
- 27 acre Cargo facility (227,000 s.f. build)



KEY

- Hotel
- Parking
- National Guard
- Rental Car
- Firestation
- Cell Phone Lot
- Gas Station
- Terminals
- Air Cargo
- Fixed Based Operators (Charter)

ABIA Serves 21 Counties

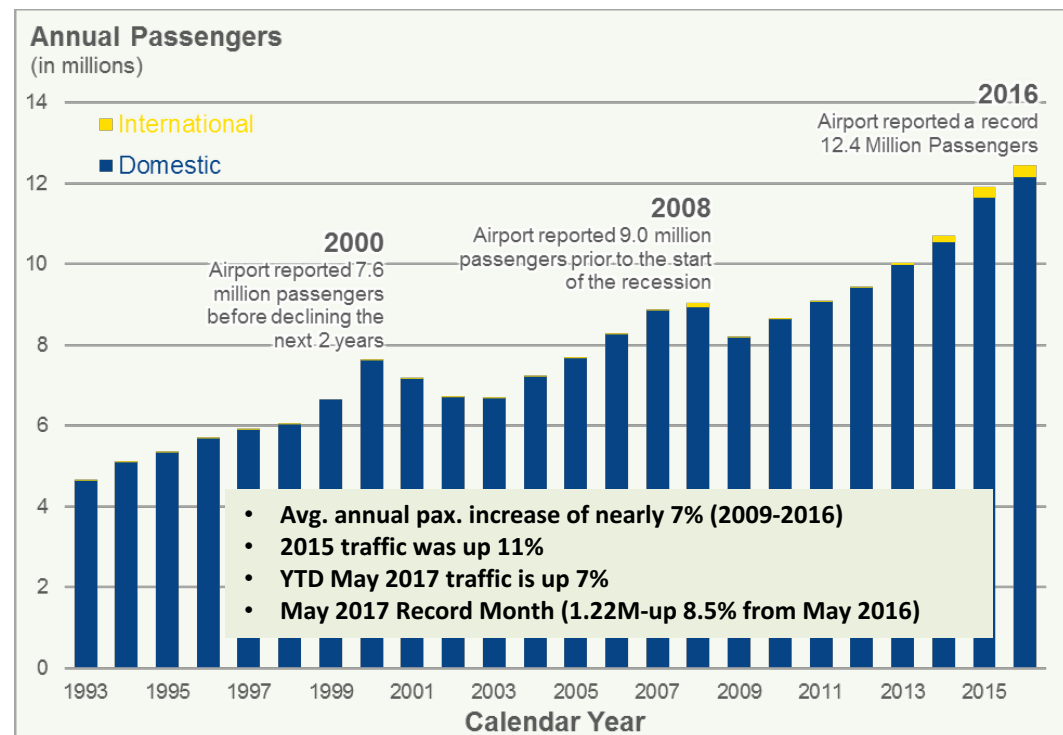


Why is a Master Plan needed?



Why is the ABIA 2040 Master Plan Needed Now?

- Since 1993 passenger growth has tripled with avg. annual growth rate of 4.4%
- Current 2003 Master Plan projects completed ahead of schedule due to rapid growth
- Anticipated doubling passenger growth from 12.4 MAP to 20+ MAP over next 20 years



Key Master Plan Issues

- Terminal Development
- Roadway Access
- Vehicle Parking
- Commercial Development
- Land Acquisition
- 3rd Runway
- Safety/Security
- Sustainability



What Does An Airport Serving 20-30 Million Annual Passengers (MAP) Look Like?

- Benchmarking performed to identify key attributes that should be considered in the long-term development of ABIA
 - U.S. hub airports (20-30 MAP)



U.S. Airports




U.S. Airport Benchmark Data	AUS	PHL	SLC	TPA	BWI	DCA	FLL
MAP (2016)	12.4	30.1	23.2	18.9	25.2	23.6	29.2
No. of Runways	2	4	3	3	4	3	2
Parallel Runway Separation (ft.)	6,700	1,400	6,150	4,300	4,670	n.a.	4,000
No. of Terminal Buildings	2	4	1	1	3	2	4
Terminal Footprint (sq. ft.)	70,250	473,795	350,000	259,000	362,450	271,350	451,640
Concourse Footprint (sq. ft.)	374,750	623,446	566,550	680,050	566,105	291,150	397,650
Number of Gates	34	121	75	65	68+6	55	57
Total Terminal Land Area (acres)	102	215	260	245	130	95	126
Total Airport Area (acres)	4,242	2,410	7,700	3,300	3,600	860	1,380



MAP = Million Annual Passengers

SLC data reflects the future terminal layout

How ABIA Compares to 20-30 MAP US Airports

U.S. Airports	NUMBER OF TERMINALS	2-3 RUNWAYS	SINGLE ROADWAY ACCESS	TERMINALS BETWEEN RUNWAYS	SUPPORT FACILITIES BETWEEN RUNWAYS
 Philadelphia	4	✓	✓		
 Salt Lake City	1	✓	✓	✓	✓
 Tampa	1	✓	✓	✓	✓

U.S. Airports

U.S. Airport Benchmark Data	AUS	PHL	SLC	TPA	BWI	DCA	FLL
MAP (2016)	12.4	30.1	23.2	18.9	25.2	23.6	29.2
No. of Runways	2	4	3	3	4	3	2
Parallel Runway Separation (ft.)	6,700	1,400	6,150	4,300	4,670	n.a.	4,000
No. of Terminal Buildings	2	4	1	1	3	2	4
Terminal Footprint (sq. ft.)	70,250	473,795	350,000	259,000	362,450	271,350	451,640
Concourse Footprint (sq. ft.)	374,750	623,446	566,550	680,050	566,105	291,150	397,650
Number of Gates	34	121	75	65	68+6	55	57
Total Terminal Land Area (acres)	102	215	260	245	130	95	126
Total Airport Area (acres)	4,242	2,410	7,700	3,300	3,600	860	1,380






MAP = Million Annual Passengers



Austin-Bergstrom
International Airport

How ABIA Compares to 20-30 MAP US Airports

U.S. Airports	NUMBER OF TERMINALS	2-3 RUNWAYS	SINGLE ROADWAY ACCESS	TERMINALS BETWEEN RUNWAYS	SUPPORT FACILITIES BETWEEN RUNWAYS
 Baltimore	3	✓	✓	✓	✓
 Washington, DC	2	✓	✓		
 Ft Lauderdale	4	✓	✓	✓	✓

Key Characteristics of 20-30 MAP Airports

- Widely spaced runways
- Single roadway access
- Terminal between runways
- Support facilities between runways

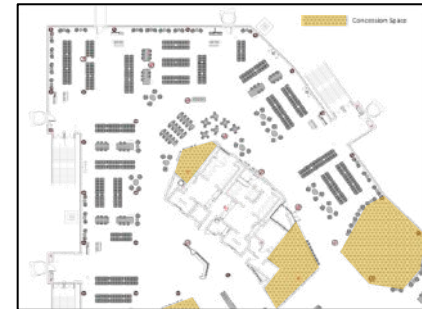


New Technologies – Airport Terminal

- Pre-Arrival
- Check-in/Ticketing
- Security
- Navigation to Gate
- Holdroom & Concessions
- Restrooms
- Bag Claim/Meet & Greet



Flip Flow – Three Doors - Detection



Co-located Concessions & Holdrooms



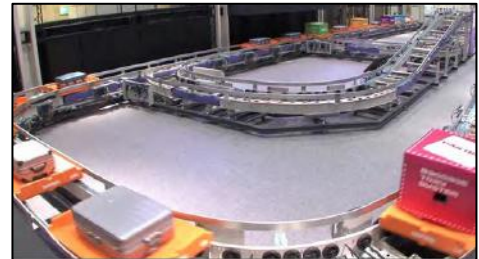
Self-Service Bag Drop Facility



Enhanced Restroom Facilities

New Technologies – Baggage Handling System (BHS)

- **Individual Carrier Systems (ICS)** utilize trays and high-speed rails to move bags within and between airport terminals with consistency and reliability
- **Early Baggage Storage (EBS)** systems provide alternatives for retaining checked bags until they are needed for makeup
- **High Speed Explosive Detection Systems (EDS)** offer the ability to minimize the number of machines with higher processing capacity



New Technologies – Capacity Improvements



- Increased airfield capacity



- Reduced delays could reduce emissions



- More predictable flight paths

New Technologies –Innovative & Autonomous Ground Transportation

- Potential Automated Transit Networks applications at ABIA includes:
 - Terminal to parking lots
 - Terminal to hotels
 - Terminal to intermodal facilities
 - Terminal to downtown



Modutram



Vectus



2getthere

What new technologies
are you interested in
having at ABIA?



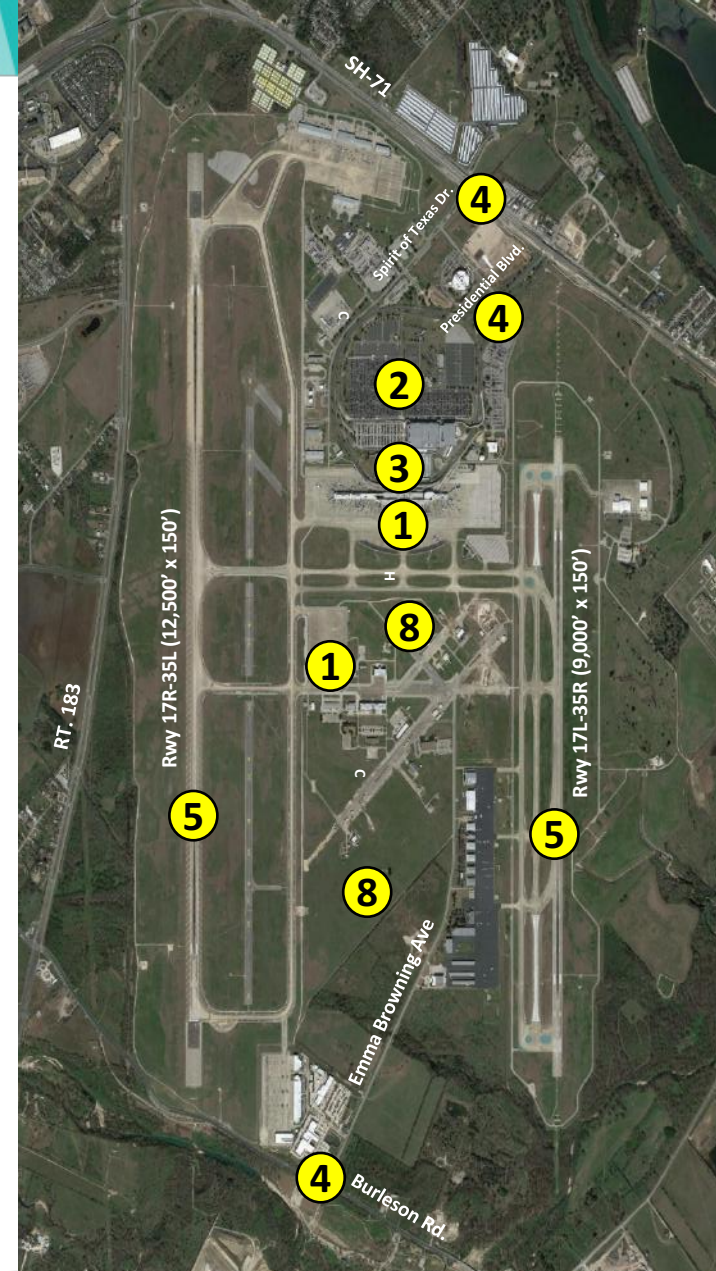
Breakout Groups

- Goal is to solicit feedback on the “Future Long-term Vision” for ABIA through a series of questions
 - Uniqueness
 - Strengths & Weaknesses
 - Competition
 - Values



ABIA Identified Issues

1. Terminal Needs
 - Passengers
 - Baggage
 - Safety/Security
 - Concessions
2. Vehicle Parking
3. Curbside Pick-up/Drop-off
4. Landside Roadways
5. Airfield Operations (NextGen)
6. Sustainability Initiatives
7. Environmental (noise, land acquisition, etc.)
8. Support Facilities Development



Top 5 Highlights of Breakout Group Discussions



Public Information and Education

- www.ABIAMasterPlan.com
- Linked to the Airports website
www.austintexas.gov/department/airport
- Public access to Master Plan materials and status updates
- Ability for public to provide feedback via form on website
- Interactive



Next Steps

- PAC Meetings
 - Aviation Forecasts – August 17, 2017
 - Facility Requirements & Alternatives Analysis – December 20, 2017
 - Environmental, Financial, Final Implementation Plan – June 20, 2018
- Airport Tour (2-3 hrs.)



Next Steps

- Three more (3) PAC Meetings
- Four (4) Public Workshop Meetings:
 - Visioning and Aviation Forecasts
 - Demand/Capacity, Facility Requirements, and Alternatives Analysis
 - Environmental, Financial, Final Development Implementation Plan
- Provide platform for public feedback and suggestions

THANK YOU!



Austin-Bergstrom
International Airport