



# Airport Master Plan Update

Technical Advisory Committee (TAC)

Meeting #1

*February 9, 2021*

*1:30 PM to 3:00 PM*

[www.ALB-Master-Plan.com](http://www.ALB-Master-Plan.com)



1



## Opening Remarks

**STEVE IACHETTA, AICP**

Airport Planner

**MATT CANNON**

Director of Development & Government Affairs

**PHILIP CALDERONE, ESQ.**

Chief Executive Officer



ALBANY INTERNATIONAL AIRPORT MASTER PLAN UPDATE



2



## Introductions – CHA Study Team

**PAUL MCDONNELL, AICP**

Project Manager / Lead Planner

**ANDREW BLAISDELL**

Forecasting/Facility Requirements

**CHARLES MORLEY, AIA, LEED AP**

Terminal Architect/Planner



ALBANY INTERNATIONAL AIRPORT MASTER PLAN UPDATE

3



## TAC Meeting Agenda

1. Introductions
2. Role of Technical Advisory Committee (TAC)
3. Overview of Airport Master Plan Process
4. Study Considerations/Key Issues
  - Forecasts
  - Terminal Complex
  - Design Standard
  - Facility Needs
5. Get Your Input & Ideas
6. Next Steps



ALBANY INTERNATIONAL AIRPORT MASTER PLAN UPDATE



4

## Introductions

- ACAA / Airport Staff
- CHA Consulting Team
- Technical Advisory Committee Members



5

## Technical Advisory Committee

- Albany County Airport Authority
- AvPORTS
  - Airport Operations & Management
- Federal Aviation Administration
- Transportation Security Agency
- Fixed Base Operators
  - Million Air
- Airlines
  - American
  - Delta
  - Southwest
- Air Cargo
  - FedEx
  - UPS
- Tenants
  - Pilots & Hangar Tenants
  - Flying Clubs
- New York State
  - Department of Transportation
  - Division of Military and Naval Affairs
  - NYS Police - Aviation
- Others, etc.



6



## Purpose of the TAC:

- Valued stakeholders are integral to the planning process
- Provide insight on your needs and facilities
- Direct input on Master Plan findings/recommendations

**Four TAC meetings planned for 2021/2022**



ALBANY INTERNATIONAL AIRPORT MASTER PLAN UPDATE



7



## What Is An Airport Master Plan?

- Follows FAA guidance and standards
- Support future aviation demand
- Guides the airport's development and modernization
- Promote customer convenience & competitive advantage
- Covers 5, 10, and 20-year horizons
- Updated every 10 years (Recommended)
- Plan & facilitate airport modernization



1979

Last Master Plan and ALP completed in 1990's



2021

ALBANY INTERNATIONAL AIRPORT MASTER PLAN UPDATE



8



# Study Website

www.ALB-Master-Plan.com

ALB Master Plan Home Components & Process Schedule Meetings Study Materials Contact Us / Comment

**Recent Updates**  
 Technical Advisory Committee (TAC) membership "New"  
 Regional Advisory Committee (RAC) membership "New"

The Albany County Airport Authority (ACAA) is commencing a Master Plan Update for Albany International Airport (ALB) to address for changes at the Airport and in the aviation industry, and plans for the future. The Master Plan Update (MPU) will identify potential projects that will improve the value of the Airport to meet the air transportation needs of the region over the next 20 years. Airport Master Plans are typically updated every 10 years to analyze market trends, assess facility requirements to accommodate anticipated growth, and guide future airport development. Community input is an important component.



ALBANY INTERNATIONAL AIRPORT MASTER PLAN UPDATE



9



# Study Website

- Collection and Record study comments
  - Study committee
  - Airport tenants
  - General public
- Distribution of reports
- Meetings:
  - Announcements
  - Agendas & Minutes

Contact Us / Comment

Please use this form to offer your comments and questions about the Master Plan.

First Name  
 Last Name  
 Street Address  
 City  
 State  
 Zip Code  
 Phone Number  
 Email Address  
 Comment  
 File  
 Choose File No file chosen  
 Submit Comment

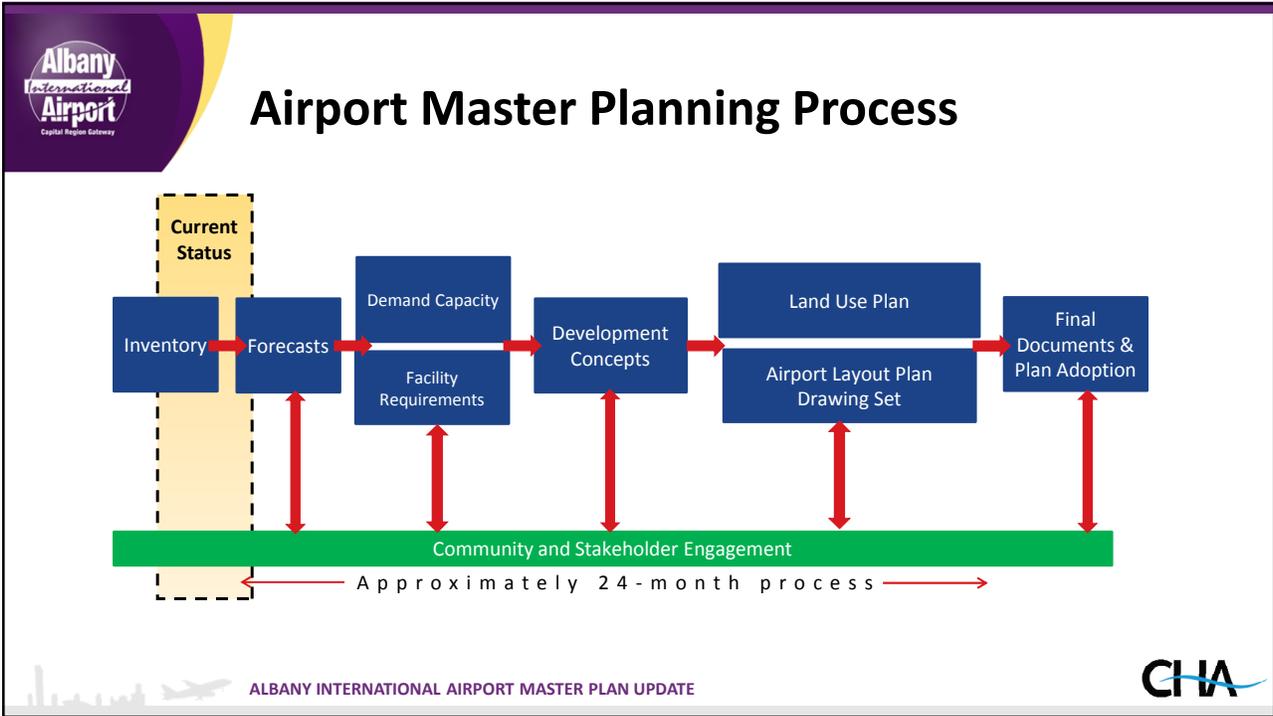
[www.alb-master-plan.com/content/contact/](http://www.alb-master-plan.com/content/contact/)



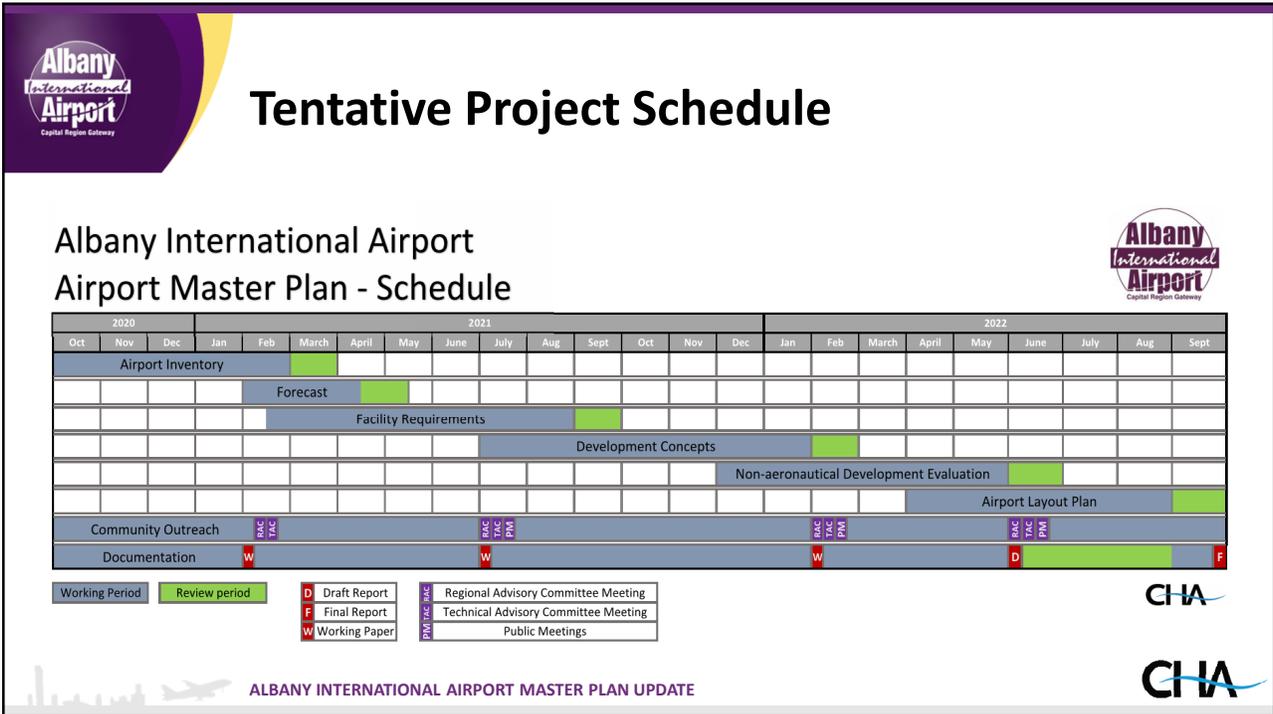
ALBANY INTERNATIONAL AIRPORT MASTER PLAN UPDATE



10



11



12



## ALB Master Plan Components

- **Airport Inventory\***
  - Collection of available information and studies, field review of airport facilities, and interviews with airport operators
- **Forecasts of Aviation Demand\***
  - Projections of expected airport activity (aircraft operations, passenger enplanements, etc.) within the 20-year planning period
- **Facility Requirements\***
  - Identifies existing and future demands and provides a comprehensive determination of airport facility requirements

**\*Strategic  
input from  
TAC  
Members**



ALBANY INTERNATIONAL AIRPORT MASTER PLAN UPDATE



13



## ALB Master Plan Components

- **Airport Development Concepts\***
  - Development alternatives for each component of the airport: Airfield, Terminal Area, Cargo, General Aviation, etc.
- **Land Use Plan & Development Evaluation\***
  - Land use planning for airport and surrounding area, addressing overall development compatibility.
- **Airport Layout Plans (ALP)**
  - Preparation of the formal ALP, the official documentation of potential projects (requires FAA approval)

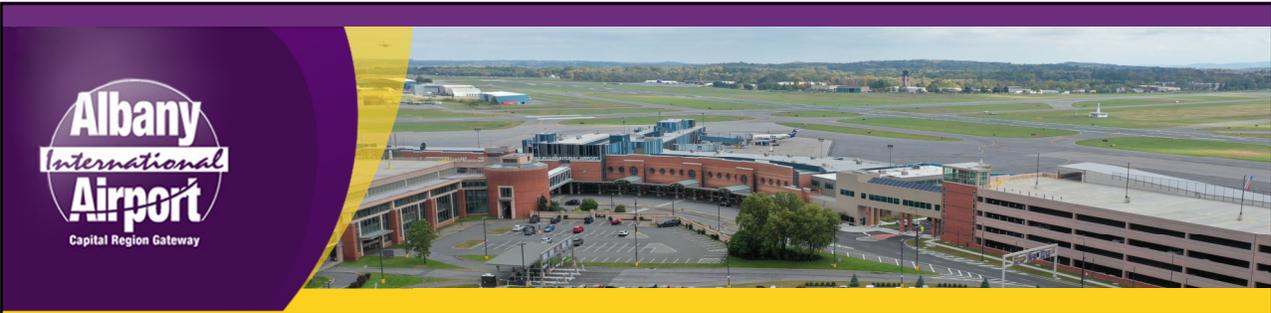
**\*Strategic  
input from  
TAC  
Members**



ALBANY INTERNATIONAL AIRPORT MASTER PLAN UPDATE



14



# Airport Activity Forecasts



15



## COVID-19 Impacts & Forecasts

- Passenger Activity dropped over 80% in April 2020
- Total 2020 & 2021 Enplanements Approximately 50% of 2019

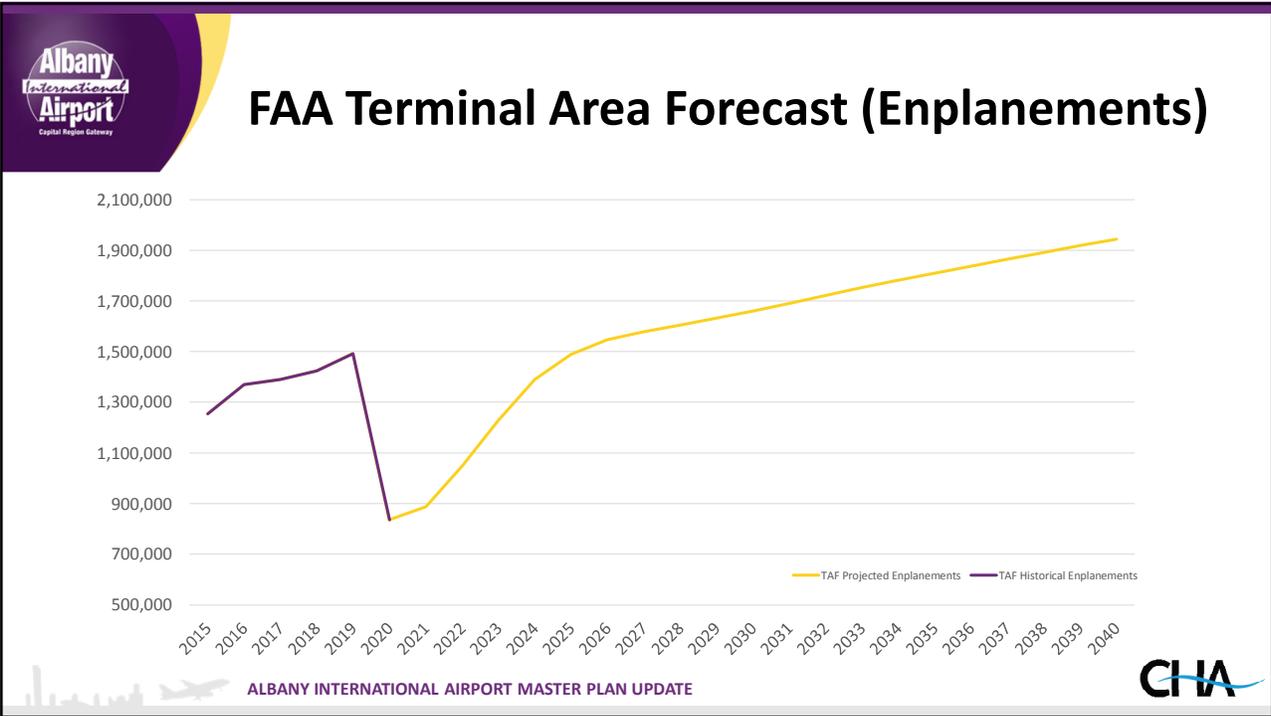
Month	Year	Passenger Activity (M)
Aug	2017	71.2
Aug	2018	~70
Apr	2020	~20
Jul	2020	21.2
Aug	2020	23.7

**ALB: April 24, 2020**

ALBANY INTERNATIONAL AIRPORT MASTER PLAN UPDATE



16



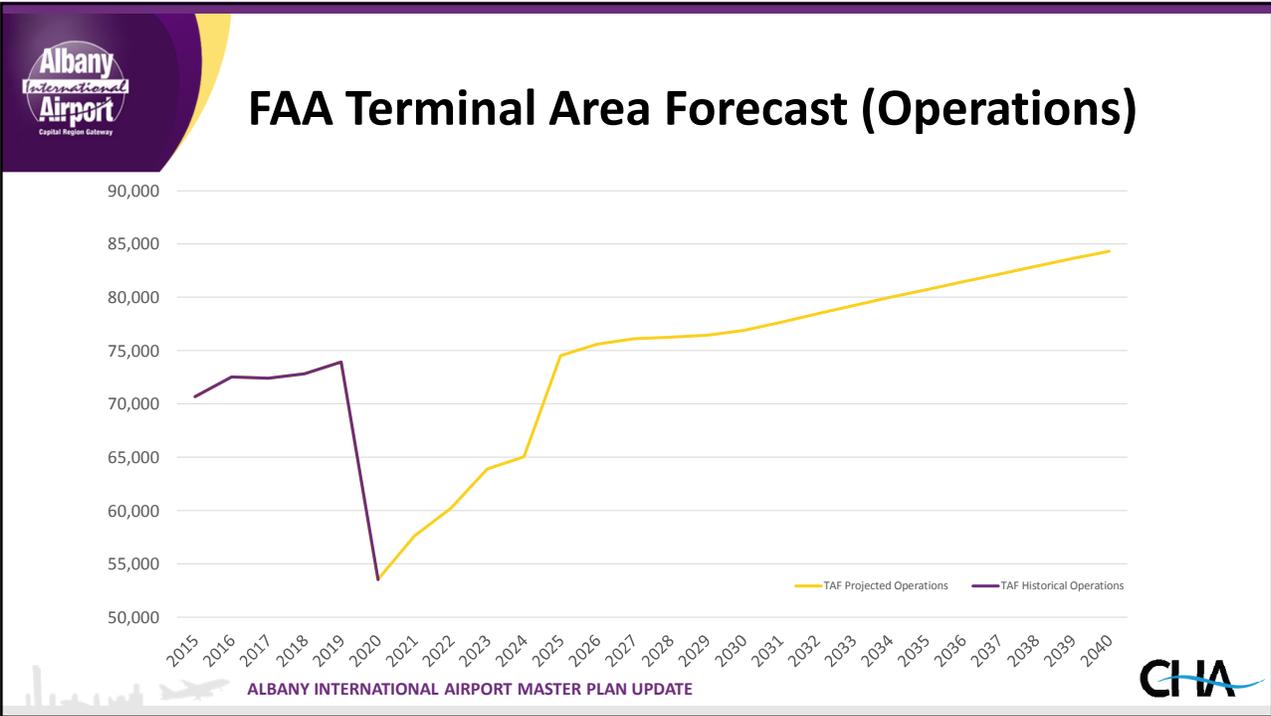
17

## FAA Terminal Area Forecast (Enplanements)

HISTORICAL		DRAFT FORECAST	
Fis. Year	Total Enplanements	Fis. Year	Total Enplanements
2015	1,253,533	2020	837,090
2016	1,370,202	2025	1,489,000
2017	1,390,299	2030	1,659,801
2018	1,423,202	2035	1,808,756
2019	1,492,305	2040	1,943,801

ALBANY INTERNATIONAL AIRPORT MASTER PLAN UPDATE

18



19

**FAA Terminal Area Forecast (Operations)**

HISTORICAL		DRAFT FORECAST	
Year	Total Operations	Year	Total Operations
2015	70,679	2020	53,525
2016	72,514	2025	74,505
2017	72,413	2030	76,890
2018	72,817	2035	80,699
2019	73,935	2040	84,313

ALBANY INTERNATIONAL AIRPORT MASTER PLAN UPDATE

20



# Your thoughts on Future Airport activity?



*Discussion:*

*Air Service, Air Cargo, Corporate, GA.....*



21



# Passenger Terminal Complex



22

## Passenger Terminal Area

- Passenger Terminal
- Concourses A, B & C
- Two Parking Garages
- Surface Parking
  - Short-term, long-term, economy
- Curbside Passenger Area
- Airport Terminal Road



### A Changing Paradigm

- New Social Behavior
- Safety + Wellness Considerations
- Adaptable Spaces
- Resilience

**CONDUCT SCREENING AT AIRPORT ENTRANCES**  
A revolutionary long-term process change could be the dispersion of screening systems to elongated vestibules at airport entrances.

**LIMIT QUEUING SPACES**  
Give passengers sole responsibility for tagging and dropping their own bags at check-in.

**RETHINK SEATING IN BOARDING AREAS**  
We can look at new seating configurations that will allow for greater social distancing, and consider other flexible seating.

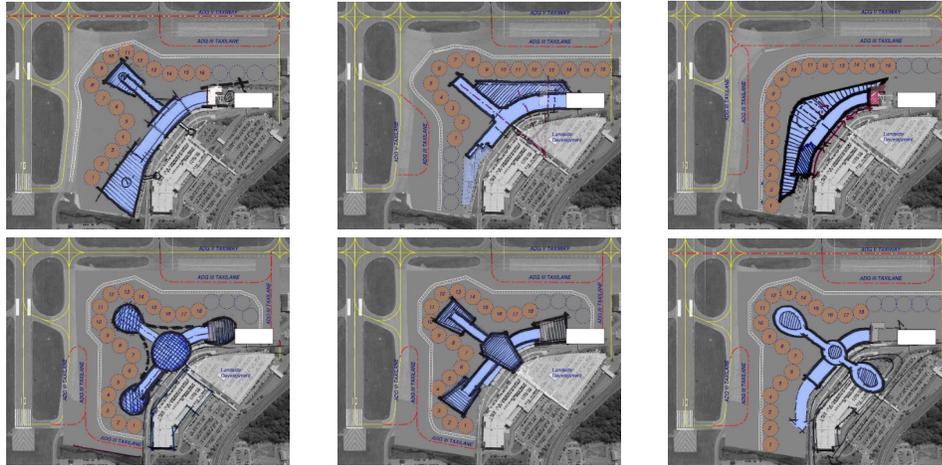
**PRE-MAP THE PASSENGER EXPERIENCE**  
Using technology, airports would assign passengers a dedicated time slot to pass through the security checkpoint.

**ACCELERATE BIOMETRIC SCREENING**  
More airports can implement biometric screening processes that some locations have already begun testing.

**DECENTRALIZE PASSENGER PROCESSING**  
Spreading out passenger processing will be a key health and wellness strategy that airports can adopt in the near-term.



## Passenger Terminal Complex- Concepts?



ALBANY INTERNATIONAL AIRPORT MASTER PLAN UPDATE

## Passenger Terminal Complex- Concepts

Create Dwell Lounge

Replace Concourse A



ALBANY INTERNATIONAL AIRPORT MASTER PLAN UPDATE

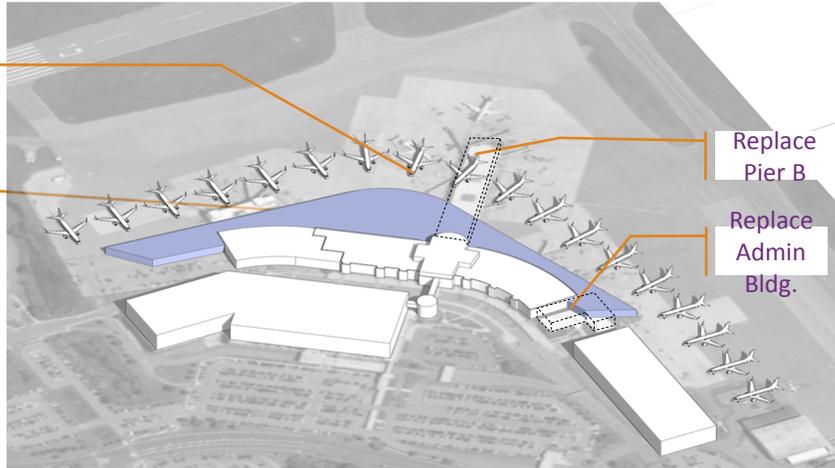
## Passenger Terminal Complex- Concepts?

Consolidated Airside

Expand Existing Processor

Replace Pier B

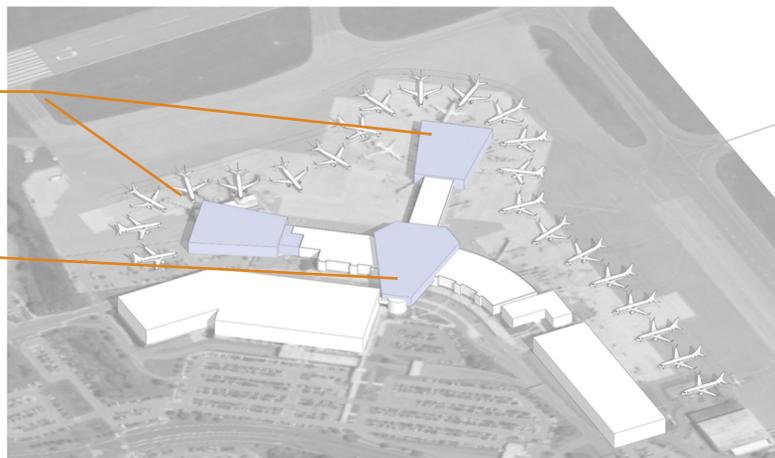
Replace Admin Bldg.



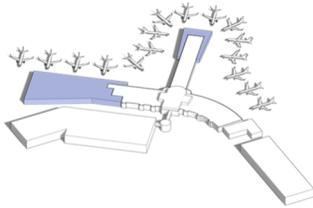
## Passenger Terminal Complex- Concepts?

Create Dwell Lounges

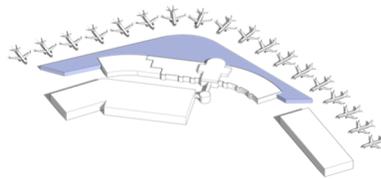
New Security Bridge



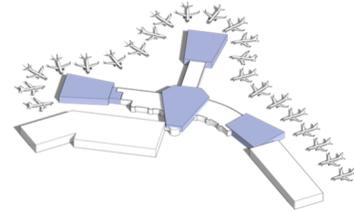
## Passenger Terminal Complex- Concepts?



Minimized Disruption



Maximized Airfield



Maximized Efficiency



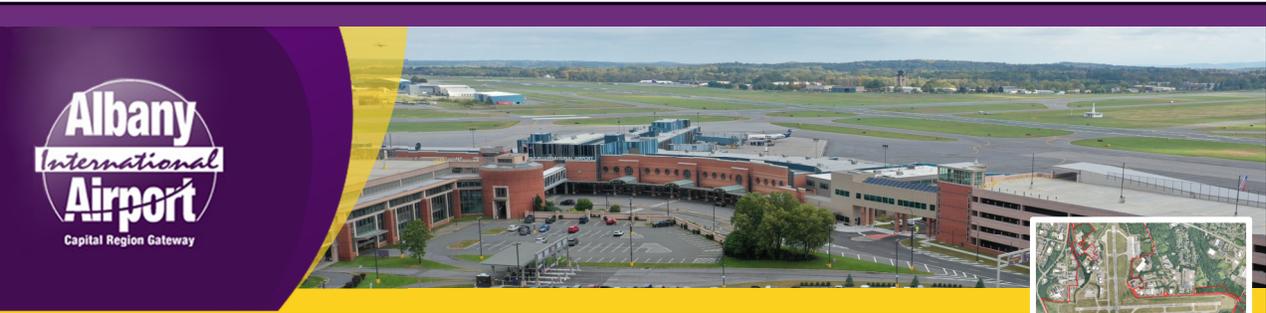
## Your thoughts on the Terminal Complex?



*Discussion:*

*Checkpoint, Shortfalls, Curbside, Parking.....*





# FAA Airfield Design Standards

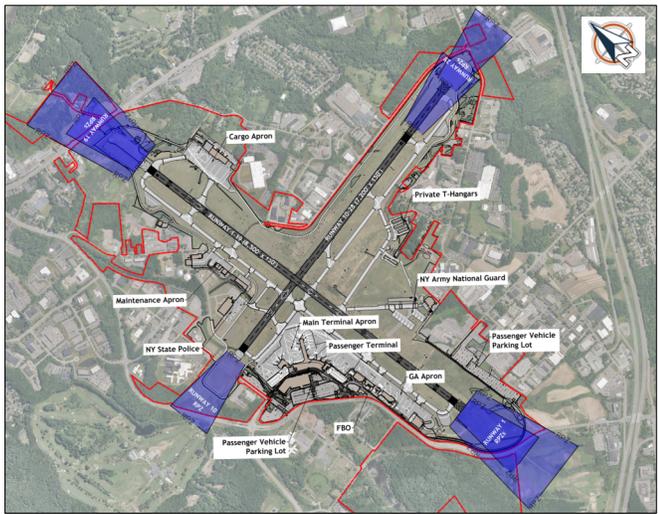


31



## Key Airfield Features

- Runway 1-19
  - 8,500' x 150'
  - Primary
  - Approach Lights
  - Instrument Landing Systems (ILS)
- Runway 10-28
  - 7,200' x 150'
  - Crosswind
- 15 Taxiways



ALBANY INTERNATIONAL AIRPORT MASTER PLAN UPDATE



32

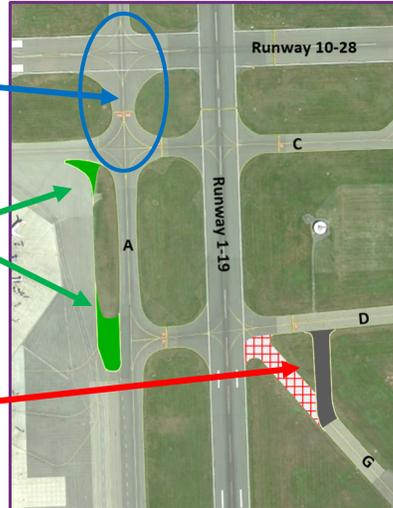
# Airfield & FAA Design Standards



**HOT SPOT 1**

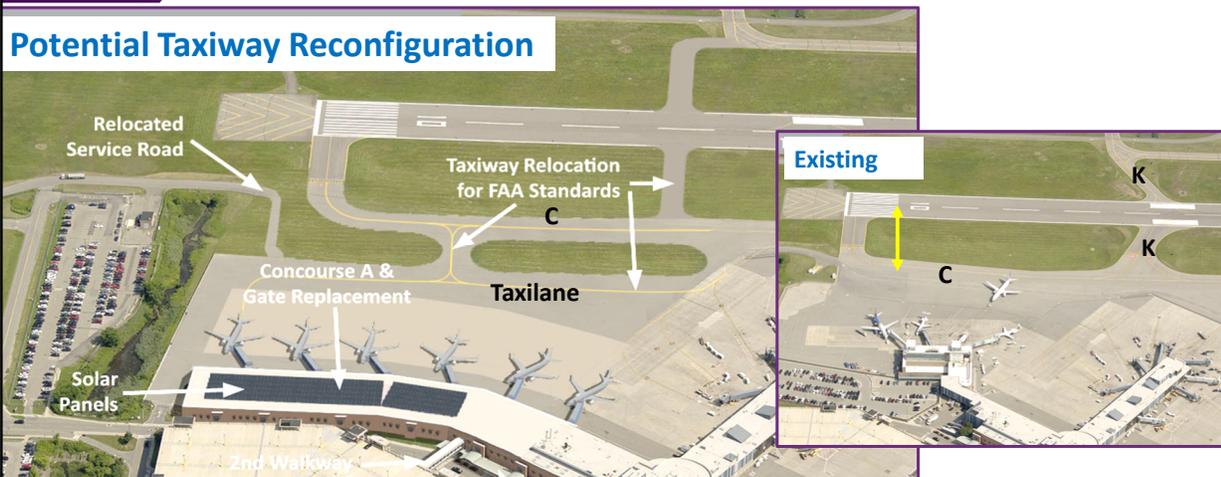
**EXPAND GRASS ISLAND**

**RELOCATE TAXIWAY G**



# Airfield & FAA Design Standards

## Potential Taxiway Reconfiguration



## Long Term Airport Trends - Airfield

- The FAA Standards reduces eligibility for airfield pavement
  - Fewer Runways (FAA AIP Handbook)
  - Shorter Runways (modern aircraft design)
  - Narrower Taxiways (FAA AC 150/5300-13A)



ALB's critical aircraft, Boeing 757  
Taxiway design group (TDG) 4

TDG	Sample Aircraft	Taxiway Width
3	B737	50'
4	B757	50'
5	A300, B767	75'

## ALB Wind Coverage Analysis



Wind Coverage %		
Wind Speed	Standard Analysis	Refined Analysis
10.5 knots	90%	86%
13 knots	94%	90%
16 knots	98%	94%
20 knots	99%	98%

- FAA analysis - Crosswind Runway 10-28 is **only needed for GA aircraft (ARC B-II)**
- Revised analysis:
  - Limited to wind 5AM to Midnight
  - Winter month (October to March)
- Crosswind Runway 10-28 is **justified for B737 and A320 (C-III aircraft)**



King Air



Boeing 737



## Your thoughts on the Airfield?



*Discussion:*

*Needs, Safety Improvements, Taxiways.....*



37

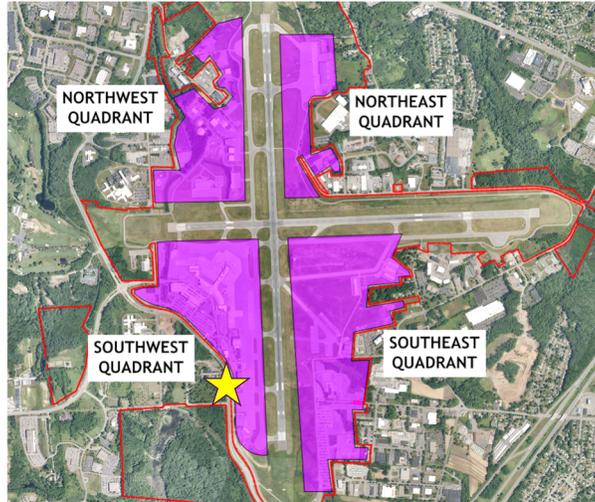


## Potential Facilities & Developments Concepts



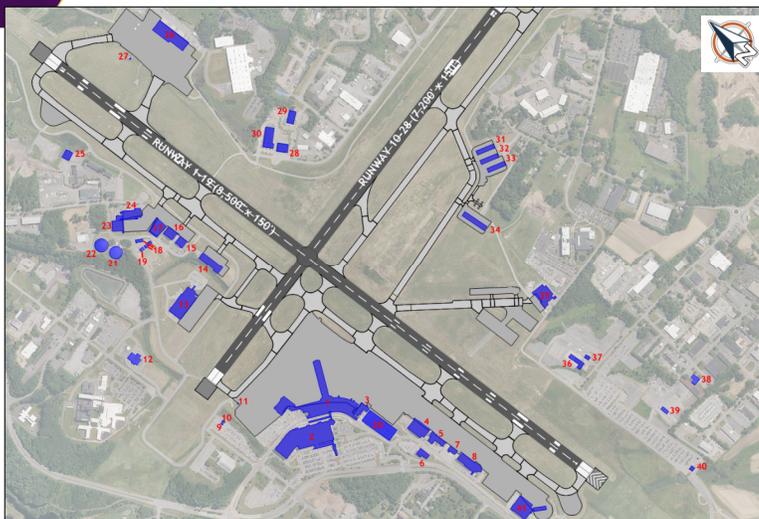
38

# Albany Airport Development Quadrants



ALBANY INTERNATIONAL AIRPORT MASTER PLAN UPDATE

# Landside Features - Buildings



- | #  | Name of Existing Facility        |
|----|----------------------------------|
| 1  | Main Terminal Complex            |
| 2  | Passenger Parking Garage         |
| 3  | ACAA Offices                     |
| 4  | FBO Hangar                       |
| 5  | ARFF Facility                    |
| 6  | Sand Storage Building            |
| 7  | Hangar                           |
| 8  | FBO Offices                      |
| 9  | TSA Storage                      |
| 10 | Triturator                       |
| 11 | Security Checkpoint              |
| 12 | Fuel Farm                        |
| 13 | NY Police Facility               |
| 14 | Hangar                           |
| 15 | Hangar                           |
| 16 | Hangar                           |
| 17 | Ground Run-up Enclosure (GRE)    |
| 18 | Glycol Treatment Facility        |
| 19 | Storage Facility                 |
| 20 | Parking Garage                   |
| 21 | Glycol Tank                      |
| 22 | Glycol Tank                      |
| 23 | Hangar                           |
| 24 | Hangar                           |
| 25 | Sand Storage Building            |
| 26 | Air Cargo Facility               |
| 27 | Air Cargo Glycol Pump Station    |
| 28 | Vehicle Maintenance Garage       |
| 29 | Air Traffic Control Tower (ATCT) |
| 30 | Airfield Maintenance Offices     |
| 31 | T-Hangar A                       |
| 32 | T-Hangar B                       |
| 33 | T Hangar C                       |
| 34 | T Hangar D                       |
| 35 | NY Army National Guard Facility  |
| 36 | ACAA Garage                      |
| 37 | ACAA Offices                     |
| 38 | Rental Car Offices               |
| 39 | Rental Car Storage               |
| 40 | ACAA Offices                     |
| 41 | Hangar                           |

ALBANY INTERNATIONAL AIRPORT MASTER PLAN UPDATE

## Maintenance & Repair Facilities- Concept



ALBANY INTERNATIONAL AIRPORT MASTER PLAN UPDATE

## Maintenance & Repair Facilities- Concept



Existing



Rendering

ALBANY INTERNATIONAL AIRPORT MASTER PLAN UPDATE

## Potential MRO Expansion Area



43

## Corporate Aviation Development- Concept



ALBANY INTERNATIONAL AIRPORT MASTER PLAN UPDATE

44



## Corporate Aviation Development-Concept



Existing



Rendering



ALBANY INTERNATIONAL AIRPORT MASTER PLAN UPDATE



## Potential Corporate Aviation Development



## Airport Land Use Planning

- Revenue Diversification
- Land Use Compatibility
- Mixed Airport & Non-Aeronautical Developments
- Property Acquisition



ALBANY INTERNATIONAL AIRPORT MASTER PLAN UPDATE



## Future User/Tenant Facilities?



*Discussion:*

*Hangars, Aprons, Property.....*



## What is your impression of the Airport?



*Discussion:  
Needs, Pros/Cons, Shortfalls, Goals.....*



49



## Next Steps



50



## NEXT STEPS

- Working Paper #1
  - Inventory
  - Forecast of Aviation Demand
- TAC Meeting No. 2 (summer?)
- Public Meeting No. 1



# Thank You For Your time!

