

# Aeronautics Division Tennessee Department of Transportation

# **State of Aeronautics**

TAA 2024 Conference

John-Paul Saalwaechter, PE | Aeronautics Director March 6, 2024

### TN's Public Use Airport System















### **3,086 Registered Based GA Aircraft**

### 17,712 Licensed Pilots

### 98 Public-use Runways





# Aeronautics Division Staffing Update



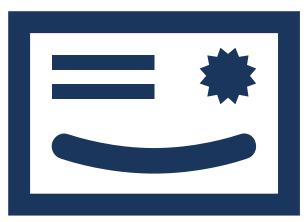
### New Staff

- **Kinsley Williams**, Program Monitor, Planning/Environmental
- Joseph Howes, Project Manager
- Joy Vaughn, Project Manager
- **Chase Nolan**, Program Monitor, Planning/Environmental
- **Oliver Ruff**, Aviation Technical Specialist (BIL and Federal Programs)



#### • **TDOT Service Awards**

Employee Name	Years of Longevity	
Abdililah "Delovan" Arif	5	
Ryan Healey	5	
Joe Clement	10	
Bill Burney	10	
Brian Fedders	10	

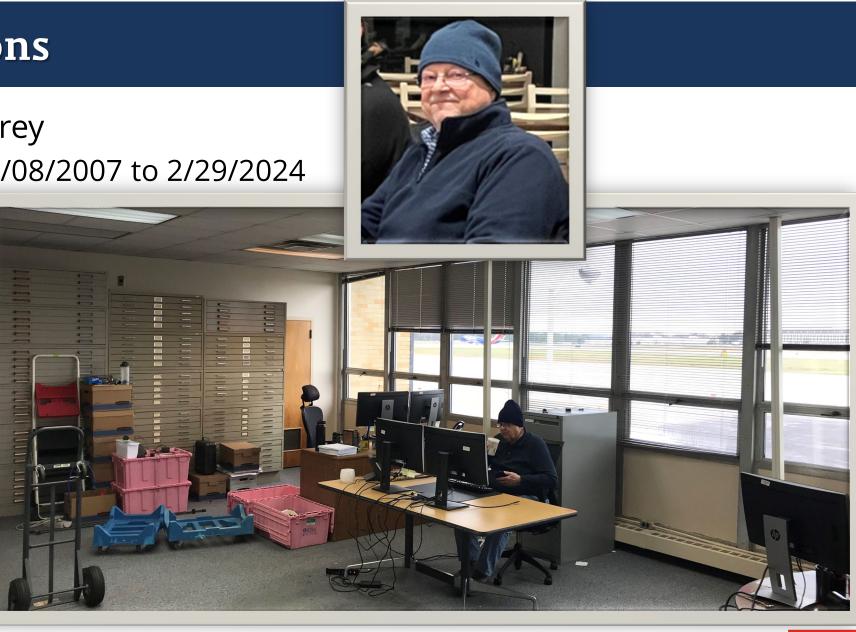




### **Special Recognitions**

- **Retirements**: Jim Currey
  - Almost 17 years!!! 05/08/2007 to 2/29/2024









# **Strategy and Priorities**



### Mission -

Provide a safe & reliable aviation system to support economic growth and quality of life.

### Vision -

- Pursue Excellence
- Modernize & Manage Infrastructure ullet
- Empower Workforce
- Strengthen Customer Trust  $\bullet$

### Values –

Empower	ring People through:	Influenci	ng Culture through:
	Development	2	• Family
	Innovation	3	Integrity
	Safety	3	Stewardship
	Collaboration	2	Consistency
Development	Continually growing and sharing our knowledge, expertise, and experience.	Family	Promoting a culture of caring, concern for others, and pride in what we do.
Innovation	Looking for new and emerging ways to serve and communicate with our customers.	Integrity	Doing the right thing through being professional and honest.
Safety	Proactively identifying and	Stewardship	Taking the best possible care of our assets.
	mitigating hazardous conditions for our employees, contractors, and the traveling public.	Consistency	Being reliable and uniform in our actions and words.

and the traveling public.

and with our partners to share ideas, skills, and

insights to get the best results.

Collaboration | Working together internally

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#### **Goals & Performance Measures**



**GOAL #1** Preserve Airport Infrastructure: Protect and preserve existing airport infrastructure by prioritizing airport system needs.

#### Performance Measures

Percent of airports meeting the airport pavement management system (APMS) objective

Percent of infrastructure within its useful life



**GOAL #2** Transportation Options: Provide an airport system with available and cost-efficient transportation options for moving people and freight.

#### Performance Measures

Percent of area and population within a 45-minute drive to any Tennessee commercial service airport

Percent of area and population within a 30-minute drive to any Tennessee general aviation airport



**GOAL #3** Safety and Security: Improve the safety and security of airport system users.

#### Performance Measures

Percent of airports that have adopted an emergency response and/or security plan

Percent of airports meeting federal design and safety criteria based on existing operations and current airport reference code (ARC)

Percent of airports with approaches meeting state obstruction criteria



GOAL #4 Funding and Environment: Maximize federal, state, and local resources to meet airport system needs and minimize environmental impacts.

#### Performance Measures

Percent of airports with airport included in local comprehensive and/or land use plan

Execution of annual Airport Capital Improvement Plan (ACIP)

Percent of federal funds allocated through sub-awards

Percent of airports with a spill prevention control and countermeasure (SPCC) program

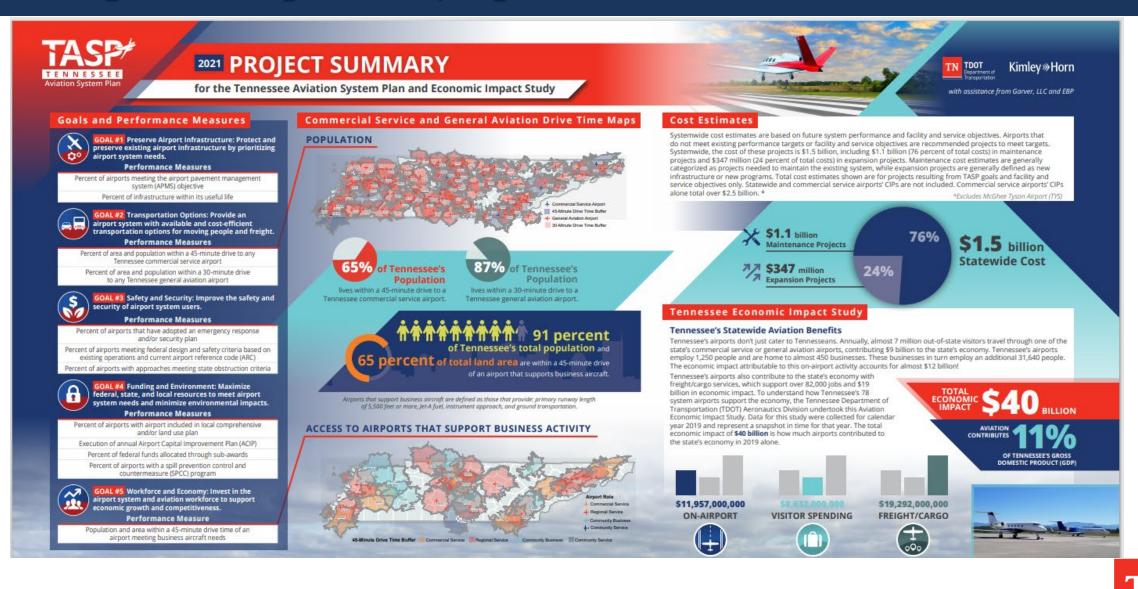


**GOAL #5** Workforce and Economy: Invest in the airport system and aviation workforce to support economic growth and competitiveness.

Performance Measure

Population and area within a 45-minute drive time of an airport meeting business aircraft needs

### TASP Update Report – by April 2025



# **Division Priorities**



### **Aviation Safety and Compliance**



### Aviation Promotion, Workforce and Economic Development



Airport System Preservation and Investments



# **Aviation Safety and Compliance**

### "Playing by the Rules of the Game"

#### Federal:

- Title 49, USC, Subtitle VII, Aviation Programs
- 2 CFR, Grants and Agreements
- 14 CFR, Aviation and Space
  - Part 13
  - Part 200
  - Part 48
  - Part 77
  - Part 89
  - Part 107

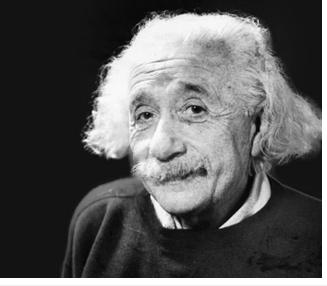
- Part 156
- 49 CFR, Transportation:
  - –Part 24,
  - –Part 26,
- FAA Orders and Notices
- FAA Advisory Circulars
- FAA Policy and Guidance

#### State:

- T.C.A. Title 42, Aeronautics
- T.C.A. Title 5, Counties
- T.C.A. Title 5, Cities/Towns

You have to learn the rules of the game. And then you have to play better than anyone else.

#### ALBERT EINSTEIN





### Increase in Regulations

- Current ALPs
- Section 163 determinations
- Exhibit 'A' Updates and land ownership verification
- NEPA reviews
- Davis-Bacon Act and Copeland Act
- State and Federal contract provisions
- 7460s (Airspace Authorizations)
- Grant Assurances
- Design Criteria
- Wildlife Management
- DBE Program









### Efforts to Lighten the Burden

#### **Regulations/Requirements**

 State shall maintain a current ALP for all airports, consistent with guidance found in FAA SOP 2 [dated 2013] and AC 150/5070-6 [dated 2015]. (49 U.S.C. § 47107)

 State should work with its sponsors to ensure that they update and maintain an Exhibit "A" in accordance with FAA SOP 3 [dated 2013] (49 U.S.C. § 47107(c)(2))

#### **Simple Solutions**

- ALP Project SOP for NPIAS Airports
  - Step by step guide
  - ALP Project Process Flowchart
  - ALP Review Checklists
  - ALP Work Authorization Template
  - Exhibit A Review Checklist
  - Exhibit A Process Flowchart
- Land ownership verification conducted by TDOT
- On-call services to complete Exhibit A updates



### Efforts to Lighten the Burden

#### **Regulations/Requirements**

- State assumes responsibility for compliance with the National
  Environmental Policy Act of 1969 (NEPA, 42 U.S.C. §§ 4331 4336)
  - Council on Environmental Quality (CEQ) Regulations (40 CFR Parts 1500-1508), and
  - FAA Order 1050.1, Environmental Impacts: Policies and Procedures [2015] and
  - FAA Order 5050.4, NEPA Implementing Instructions for Airport Actions [dated 2006]

#### **Simple Solutions**

- TDOT Environmental SOP 2.0 Updated!
  - Shortened and more concise
  - Streamlined process for Simple Written Records
  - Clear, published Environmental Submittal Schedule
- Webinar on March 12<sup>th</sup> at 10 AM CDT!
  - Contact Evan Lester



### Efforts to Lighten the Burden

- **Davis-Bacon Act** (certified payrolls)
- **7460s** (Airspace Determinations)
- Section 163 (2018 FAA Reauthorization)
- Wildlife Management
- Compliance with Grant Assurances



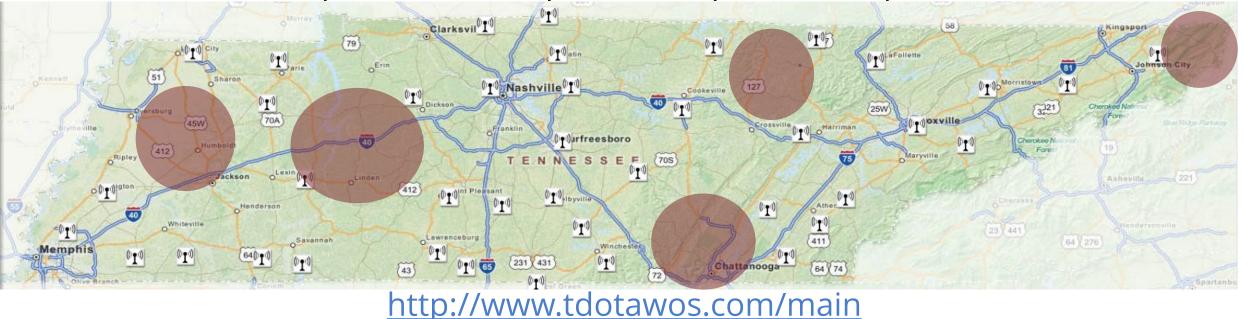




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• AWOS network expansion and replacement plan development (March 2025)



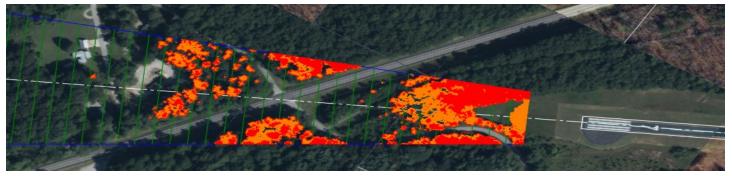
Statewide Operations Data Counter Program





### Safety

- Airport Licensing
  - Conditional Licenses
    - Statewide obstruction survey and data collection for approaches



- Delegated Authority (DA) to contract tree clearing/trimming in select cases
- Rules of Aeronautics Update (in draft)
  - Improving terminology and better organizing the content. Last revised in 1987.
  - Clarifying Minimum Airport Standards for:
    - paved runways,
    - unpaved runways, and
    - heliports





# Aviation Promotion, Workforce and Economic Development

### **High School Aviation Promotion & Education**

- Partnership with AOPA Foundation: YOU CAN FLY
  - Designed to rebuild pilot population and aviation industry
- Four-year STEM program with two tracks:

1. Pilot

- 2. unmanned aircraft systems or drones
- Leads to a certification or industry-accepted test:
  - FAA Private Pilot knowledge test, or
  - Part 107 drone pilot certification
- Help connect us with educators in your communities! More info coming soon!



### AOPA YOU CAN FLY

**Karla Smith** 

Manager High School Initiative

o. 301.695.2161 | m. 931.581.5558 karla.smith@aopa.org 807 William Northern Boulevard Tullahoma, TN 37388



### AirTAP

- **TAP** = Technical Assistance Program
  - Recognize the need for more in-person training
  - Tasked Kimley-Horn with:
    - Mission/content development,
    - Program graphic design, &
    - Pilot course implementation
- Pilot Course will launch in February 2025
- Other states with demonstrated success:









### NASAO Affiliate Airport Partner Program

- Resources
  - NASAO Aviation Data Report
  - Membership Directory
  - Webinar Participation
  - Aviation Online Training Program
    - Program offers 30 courses across 7 modules
    - Modules:
      - 1.Airport Setting
      - 2.Partners
      - 3.Planning
      - 4. Environmental Planning
      - 5. Engineering
      - 6. Funding Coming soon!
      - 7.Public Outreach Coming soon!
- State funded membership for airports wanting to opt-in
- Look for a survey in the coming weeks!



New or seasoned aviation professionals looking for an introduction to or refresher on the airport environment



### Airport Self-Sustainability

- Financial
  - Hangar FMV Fees, Rates, and Charges
  - Guidance and resources coming this June!
- Power/Energy
  - Solar
    - Reduced dependence on electrical grid
- Sustainable Aviation Fuels (SAF)
  - Electric Aircraft Charging Stations
    - Reduced emissions
  - Unleaded Avgas (100UL)
    - Cleaner aircraft emissions







### UAS & AAM





#### UAS - Uncrewed Aircraft Systems

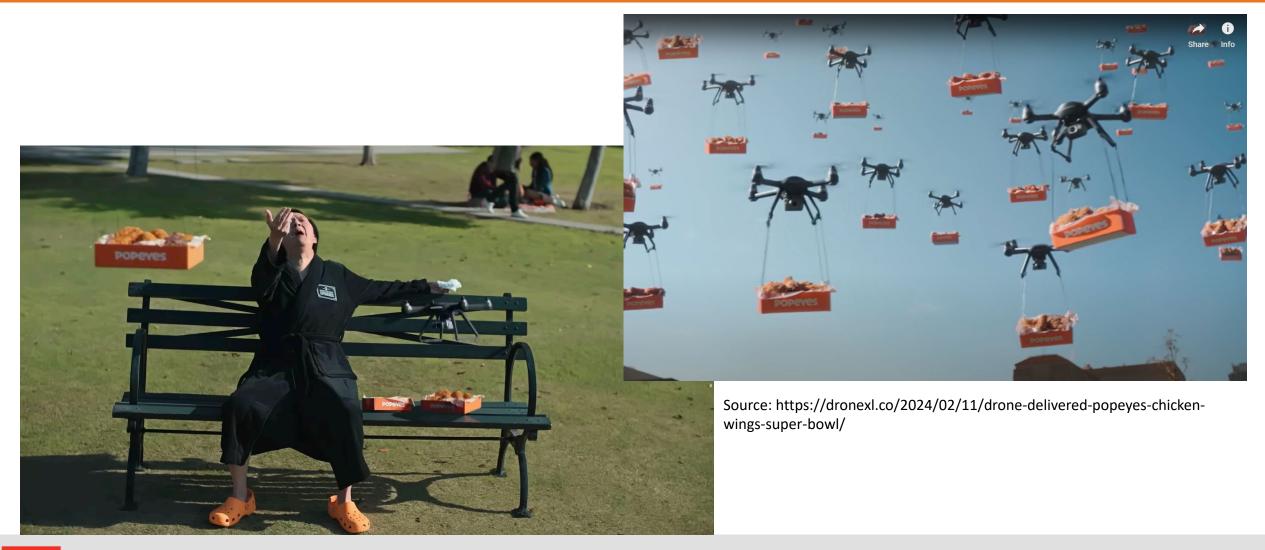
AAM – Advanced Air Mobility

### UAS & AAM

- Infrastructure
- Develop AAM framework
- Outreach/Advocacy/Recruitment
- Funding
- Education/learning
- Collaboration/partnerships
- Community Engagement
- Policy



### Focused on Early Wins





# Airport System Preservation and Investments



### Submitting Funding Requests

- NEPA is critical step for Preliminary and Final Project Formulation
  - EDC due one month before Preliminary Request
  - Environmental Review document due one month before Final Design
- Changes in estimated costs over the life of the project must be communicated

   "living estimates"
  - Changes have potential to impact the entire program
  - Communicate each time cost estimate are adjusted/updated
- Coordinate early and often with your respective Aeronautics staff!



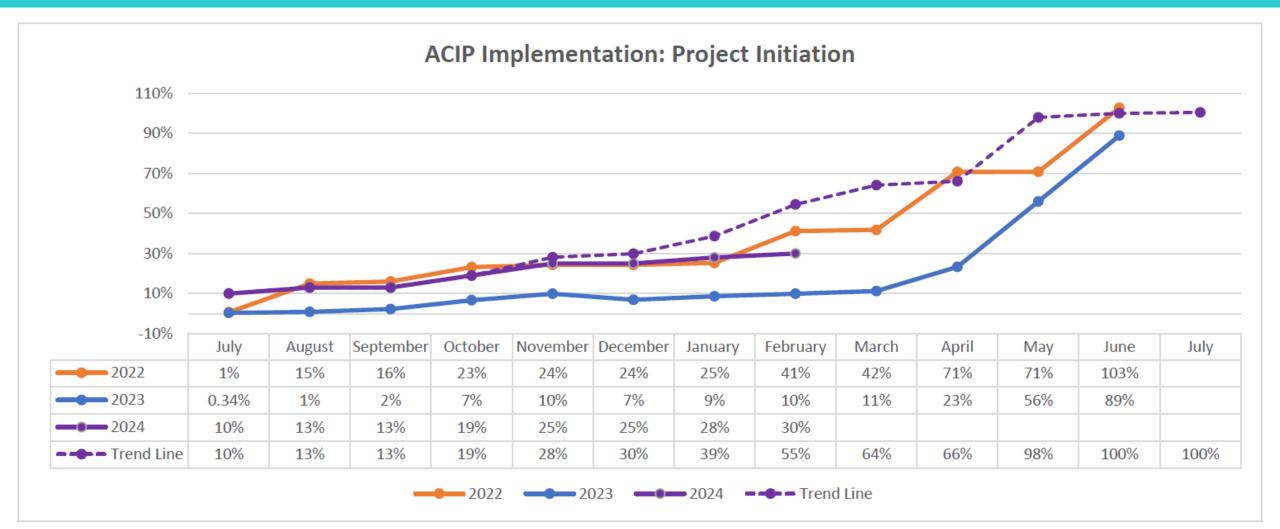
### **Project Prioritization**

- State Priority Rating (SPR) Takeaways
  - Nearly all funded projects were for rehabilitation, replacement, or obstruction removal
  - Runway related projects and underground storage tank (UST) removal also scored high

Environmental-Preliminary Studies	13
Construction	7
Obstruction-Clearing/Trimming	4
Land-Acquisition	3
Design-Final Design and Bidding	2
Obstruction-Survey/Design	1
Planning	1
Land-Study	1



### **ACIP Execution**





### **ACIP Development Process Improvements**

- TAA Working Group Feedback
  - Application choices will be simplified starting July 1, 2024
    - Development, Equipment, and Land
    - Planning
- ACIP's historically have been a heavy lift for airport and consultants
  - New solution will benefit everyone
  - Will lay out new plan at GARMs (General Aviation Regional Meetings)



### New Strategies: Procurement

- Cooperative Purchasing Agreements (Sourcewell)
  - Airfield Pavement and Marking Maintenance (Hi-Lite Airfield Services)
  - Airport Runway Materials with Related Supplies and Services (ADB Safegate Americas, LLC)





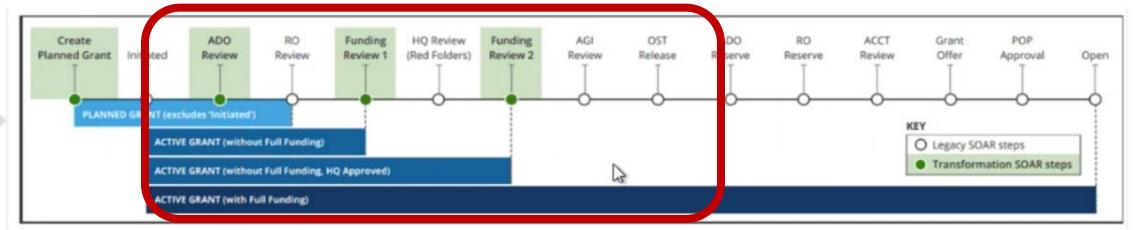
- Airport Maintenance Grant amendments
  - Ability to add up to \$5,000 by showing proof of expense or proof of need.
    - Prefer for 75% or more to be expended.
  - Amendment applications accepted through May 31, 2024.
    - "State" application type in BlackCat



### New Strategies: Expediting the BIL AIG Process

#### Construction Grants

- Once Environmental Finding is complete, application initiated based on estimates.
- Must have firm bid date that occurs before OST release.
- After HQ approval and OST release, bids are needed to complete the process.



### • End of Federal year considerations

- Bid dates must occur by end of June. July or later will be postponed to October.





#### **Aviation Safety and Compliance**

- "Rules of the Game"
- Safety
- Licensing

Aviation Promotion, Workforce and Economic Development

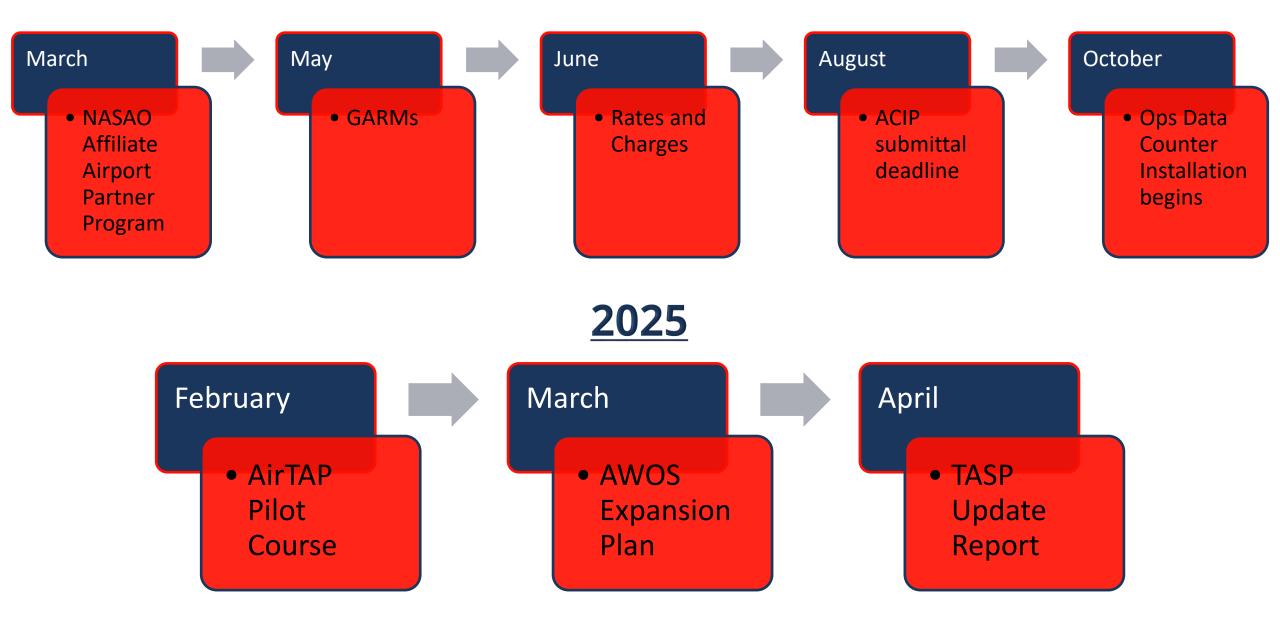
- AOPA High School Curriculum
- AirTAP
- NASAO Affiliate Airport Partner Program
- Airport Self-Sustainability
- UAS & AAM

#### **Airport System Preservation and Investments**

- Submitting Funding Requests
- Project Prioritization SPR takeaways
- ACIP Execution
- ACIP Development Process Improvements
- New strategies



### <u>2024</u>

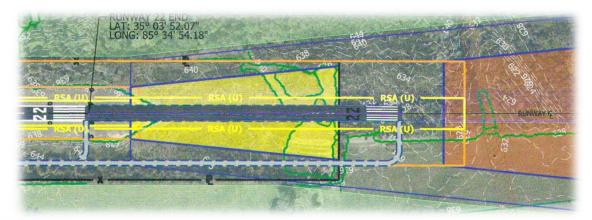


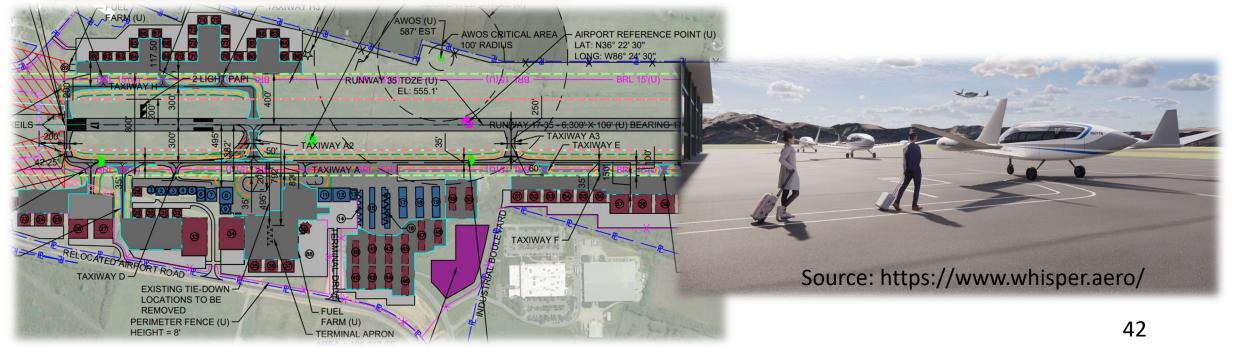


# What's your vision for the future?



Source: https://kittyhawk.farm

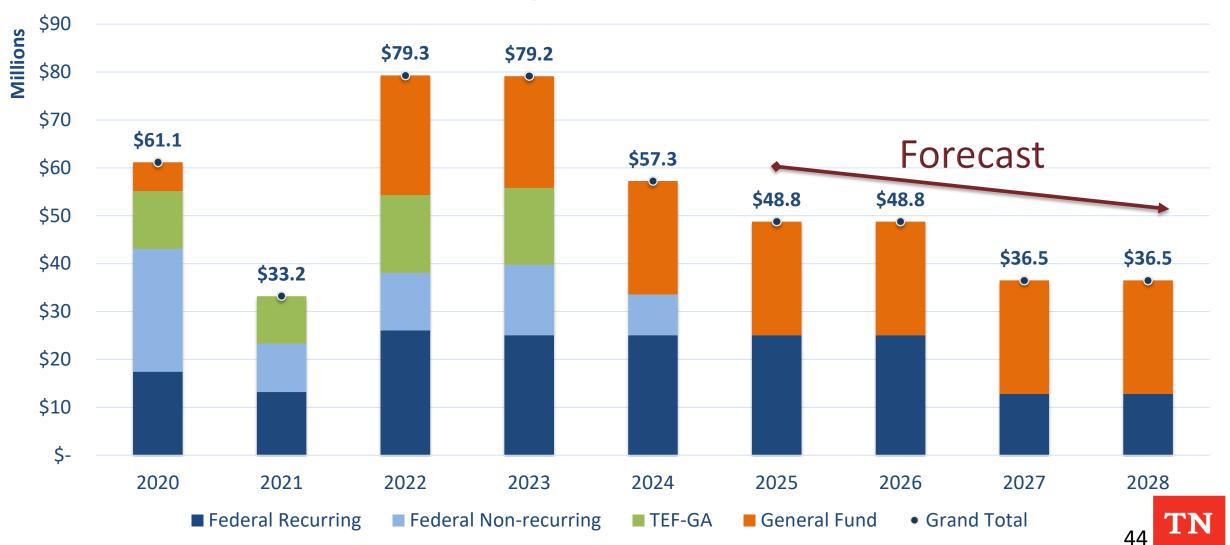






Funding

**Total Funding for General Aviation (GA)** 



### We need your help!

### Funding Advocacy from Airports

- TN General Assembly: Find Your Legislator tool <u>https://wapp.capitol.tn.gov/Apps/fml2022/search.aspx</u>
- Write letters, schedule visits/meetings, tell them about the value of your airport and need for additional funding above current amounts!
- Register for the General Aviation Regional Meetings (GARMs)!
  - Knoxville TYS 510 Center Tues. May 14<sup>th</sup>
  - MBT Conference Room
  - Jackson Region 4 Auditorium
  - Communications sent out on 2/29/24. Registration ends 4/12/24!!

Thurs. May 16<sup>th</sup>

Mon. May 20<sup>th</sup>







### **John-Paul Saalwaechter [sawl véktər], P.E.** Director p. 615-741-0780 **c. 615-924-9490**

john.saalwaechter@tn.gov









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