



Cottonwood Municipal Airport

MASTER PLAN UPDATE

Master Plan Advisory Committee
Meeting #1

AGENDA

- Team Introductions
- Master Plan Background & Process
- Advisory Committee Role & Objectives
- Stakeholder Involvement
- SWOT Analysis & Vision Statement
- Ongoing Work & Next Steps

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TEAM INTRODUCTIONS

Consultant

Kimley»Horn

Colin Wheeler – Project Manager

John Coliton – Deputy Project Manager

Airport / City of Cottonwood



Mark Williams – Airport Manager

Ron Corbin – Cottonwood City Manager

Rudy Rodriguez – Cottonwood Deputy City Manager

Master Planning Advisory Committee

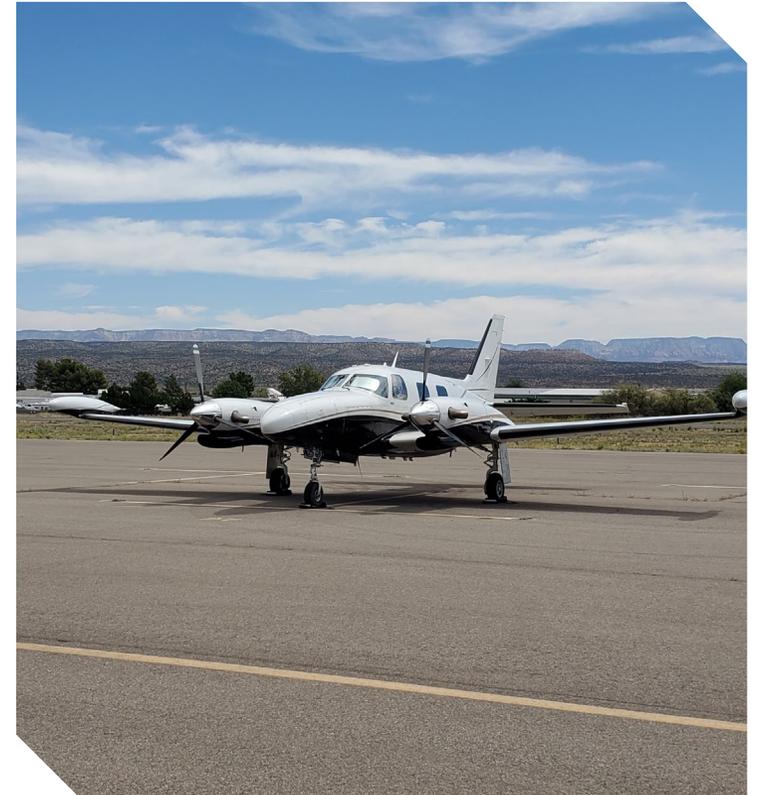
- **Brenda Clouston** - Owner, Colt Grill
- **Scott Ellis** - Community Development Director, City of Cottonwood
- **Tosca Henry** - Council Member, City of Cottonwood
- **Tracie Hlavinka** - Town Manager, Town of Clarkdale
- **Tricia Lewis** - Tourism & Economic Development Director, City of Cottonwood
- **Jim Millis** - President, Cottonwood Ranch HOA
- **Jim Moeny** - Chair, Cottonwood Airport Commission
- **Christian Oliva del Rio** - President/CEO, Cottonwood Chamber of Commerce
- **Vernon Reed** - Experimental Aircraft Association
- **Orville Wiseman** - FBO Owner/Operator, Wiseman Aviation

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WHAT IS AN AIRPORT MASTER PLAN?

- Describes the need for and timing of airport improvements
- Recommended by the FAA every 8-10 years
- Will guide future airport development that:
 - Is cost effective
 - Satisfies demand
 - Supports Airport optimization, enhancement, and safety
 - Considers environmental and socioeconomic impacts



Source: Cottonwood Municipal Airport

WHAT IS AN AIRPORT MASTER PLAN? (CONT.)

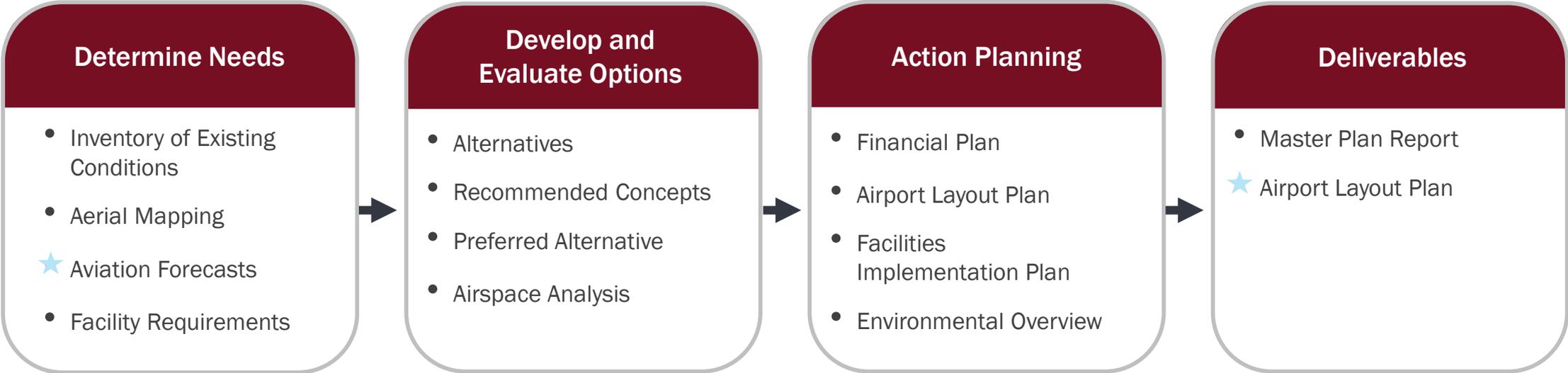
- A collaborative effort with:
 - Airport users and stakeholders
 - Federal, State, and local agencies
 - City/County officials
 - The public

- Final deliverables:
 - Master Plan Report
 - Airport Layout Plan (ALP)



Source: Cottonwood Municipal Airport

AIRPORT MASTER PLANNING PROCESS



Stakeholder Involvement (Meetings and Interviews, Agency and City Coordination)

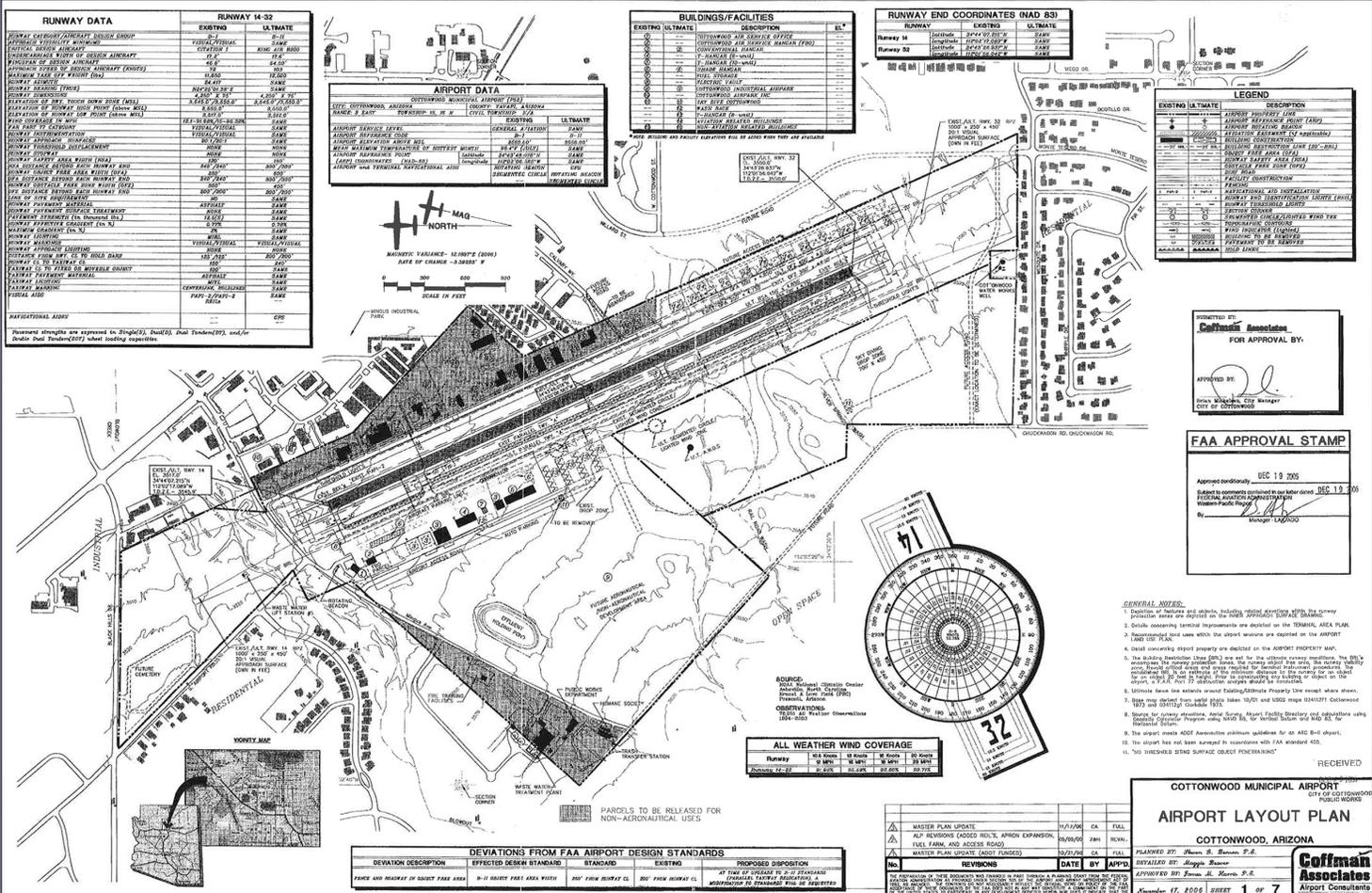
★ Requires FAA / ADOT Approval

MASTER PLAN GOALS & OBJECTIVES

- ✓ Develop a plan that will meet the long-term aviation needs
- ✓ Enhance safety, capacity, operational efficiency of the airfield
- ✓ Develop a feasible, milestone-based capital development program
- ✓ A plan that is financially and environmentally sustainable

WHAT IS AN AIRPORT LAYOUT PLAN?

- Set of drawings depicting airport and surroundings
- Depicts existing facilities and planned development
- Must be approved by the FAA for airports that accept federal grants
- Updated as airport development is realized



Source: Cottonwood Municipal Airport 2006 Airport Layout Plan

DEVELOPMENT SINCE LAST MASTER PLAN UPDATE



2003

Source: Google Earth



2020

Source: Google Earth

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ADVISORY COMMITTEE ROLE & OBJECTIVES

- Provide local and technical expertise
- Facilitate a variety of viewpoints
- Attend all meetings, if possible
- Provide individual perspectives on issues
- Review and provide comment on project deliverables



Source: Cottonwood Municipal Airport

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STAKEHOLDER INVOLVEMENT

Master Plan Advisory Committee
Stakeholder, tenant, user group, government,
and community stakeholders

City of Cottonwood / Airport Commission
Representatives from the City of Cottonwood



Public Input
Public workshops for the community



Public Website
Meeting notifications, documents, and comment form

PROJECT SCHEDULE

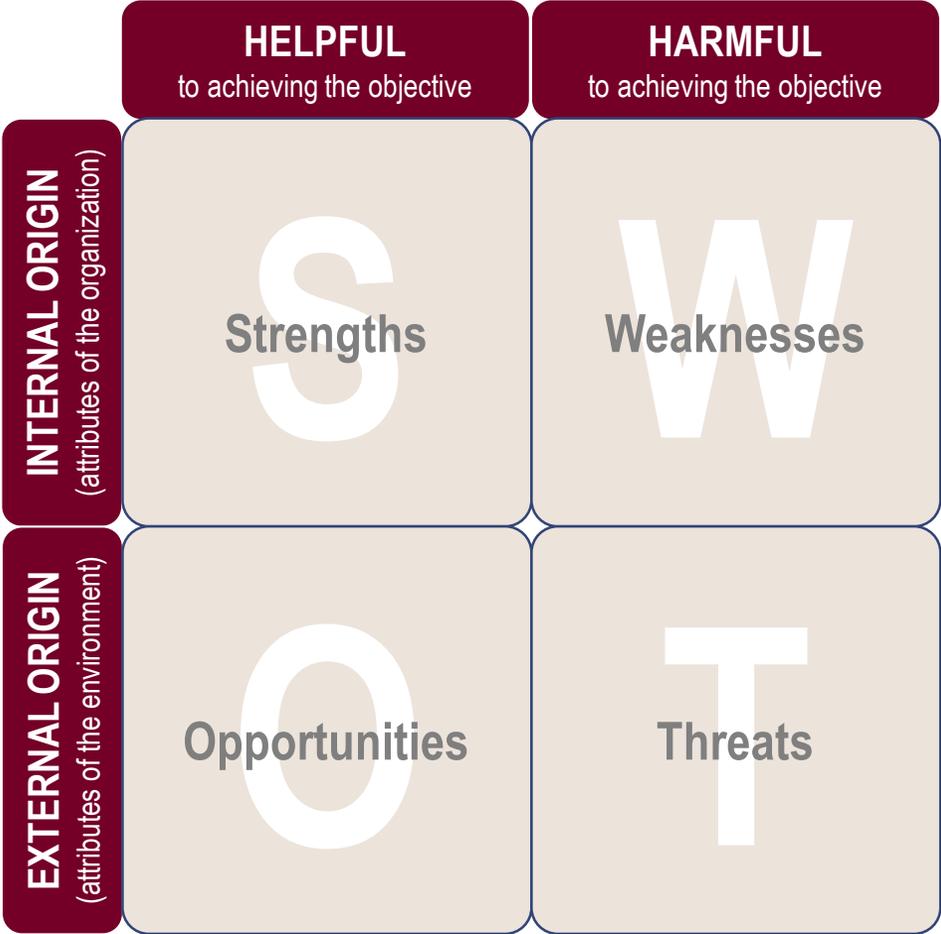
TASK NAME	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR
Pre-planning and Project Initiation	█														
Coordination and Public Outreach	█	█	█	█	█	█	█	█	█	█	█	█	█		
Aerial Photography and Plainmetric Mapping	█	█	█												
Define Airport Vision and Strategic Goals		█	█												
Inventory of Existing Conditions		█	█	█	█										
Aviation Forecasts				█	█	█	█	█							
Demand/Capacity and Facility Requirements							█	█	█	█					
Alternatives Analysis and Recommended Development Plan									█	█	█				
Facilities Implementation Phasing Plan											█	█	█		
Airport Layout Plan											█	█	█	█	
Final Reports and Approvals														█	█
Master Plan Advisory Committee Meetings							▲				▲			▲	
Public Workshops								★				★			

Notes:
 Meeting dates and formats are TBD.
 Project schedule is subject to change.

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SWOT ANALYSIS



VISION STATEMENT

- Findings from the SWOT Analysis will be used to draft a Vision Statement
- A Vision Statement:
 - Focuses on the future
 - Represents the Advisory Committee's objectives
 - Guides the planning process and informs development



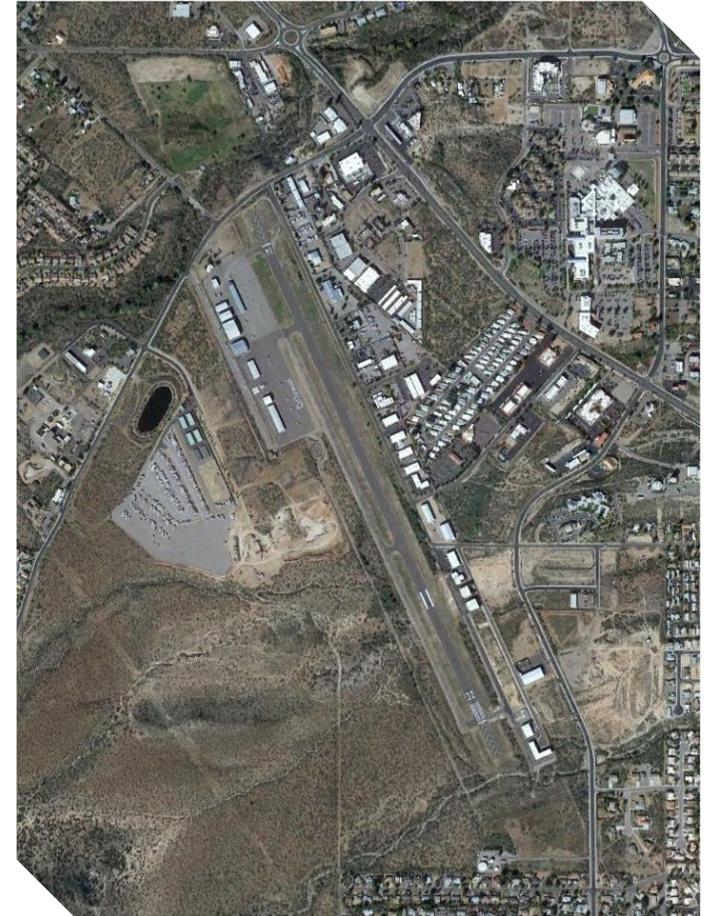
Source: Cottonwood Municipal Airport

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INVENTORY OF EXISTING CONDITIONS

- Assembling of information, data, and mapping related to the Airport
- User/tenant surveys and interviews
- Information collected includes:
 - History and background information
 - Regional setting and surrounding land uses
 - Physical facilities
 - Historical aviation activity
 - Environmental setting



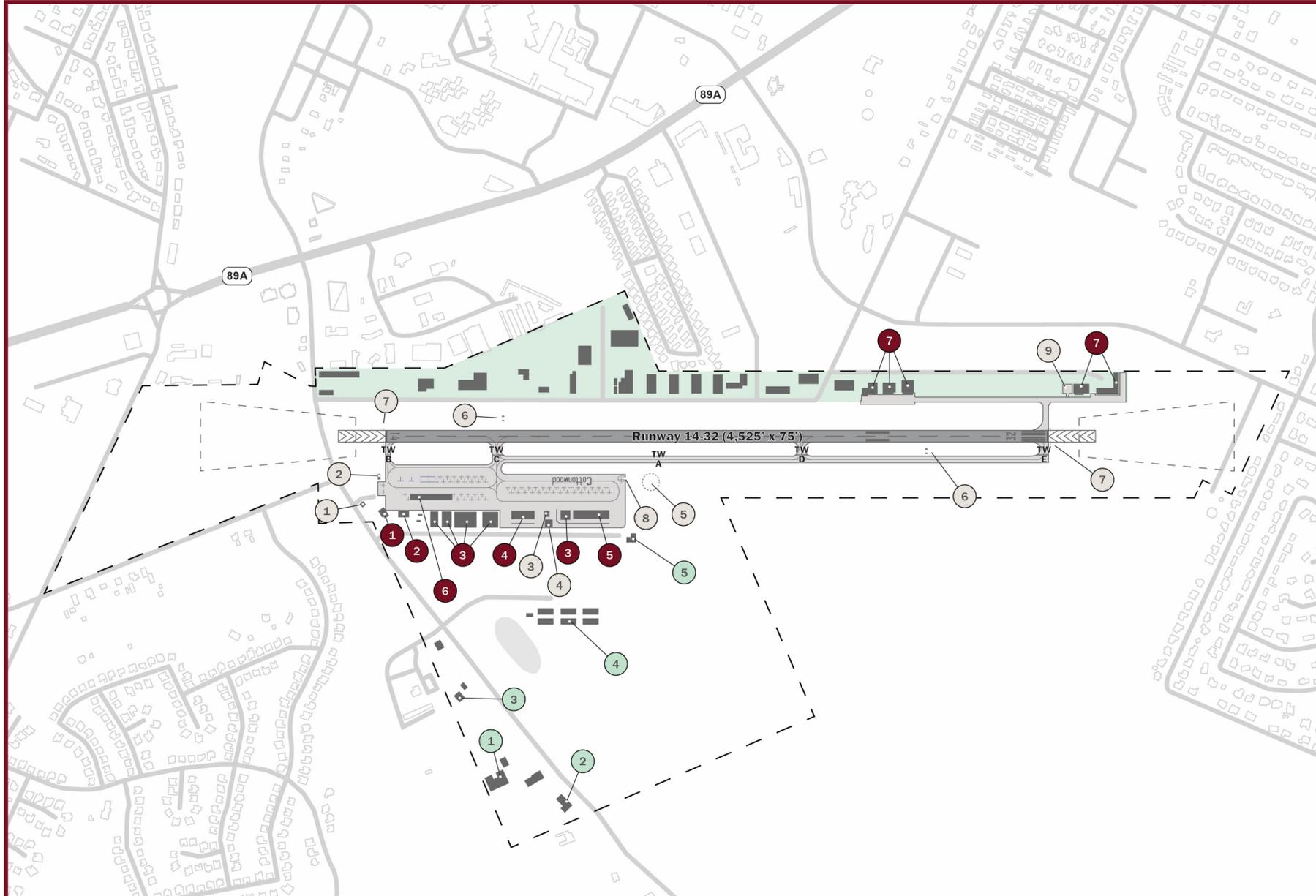
Source: Google Earth

AVIATION ACTIVITY FORECASTS

- Forecasts are used to:
 - Accommodate demand over a 20-year period
 - Determine the type, size, and timing of new/expanded facilities
 - Help justify financial investments for improvements

- Forecasts in the Master Plan Update include:
 - Aircraft operations
 - Operational fleet mix
 - Based aircraft
 - Critical aircraft

EXISTING FACILITIES



- AIRFIELD BUILDINGS AND HANGARS
 1. Terminal
 2. FBO Air Service Hangar
 3. Conventional Hangar
 4. T-Hangar (6-unit)
 5. T-Hangar (10-unit)
 6. Shade Hangar
 7. Over-the-fence Conventional Hangar

- AIRPORT FACILITIES AND NAVAIDS
 1. Rotating Beacon
 2. Electric Vault
 3. Fuel Storage
 4. Wash Rack
 5. Segmented Circle/Lighted Wind Cone
 6. PAPI-2
 7. REILs
 8. Helicopter Parking/Operating Area
 9. Through-the-fence Private Helipad
- Runway Protection Zone
- - - Airport Boundary

- ON-AIRPORT BUSINESSES
 1. City of Cottonwood Public Works
 2. Humane Society
 3. Fire Training Facilities
 4. Air Park Mini RV & Boat Storage
 5. Red Rock Skydiving (formerly)
- Cottonwood Airpark



BASED AIRCRAFT

- *FAA definition: Operational and airworthy aircraft that are stored at an airport for the majority of the year*
- A June 2020 inventory of based aircraft at the Airport resulted in 62 aircraft:



Single-engine
Piston



Multi-engine
Piston



Turboprop



Jet



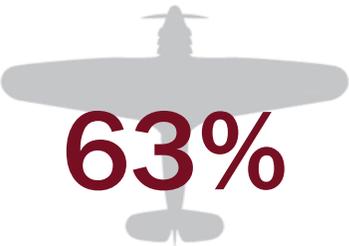
Rotorcraft

Forecast Trends

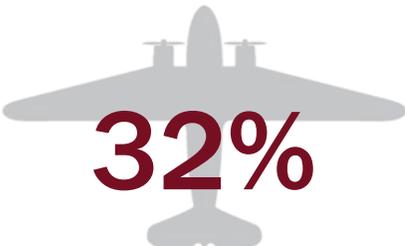
Based aircraft should increase with economic growth

AIRCRAFT OPERATIONS

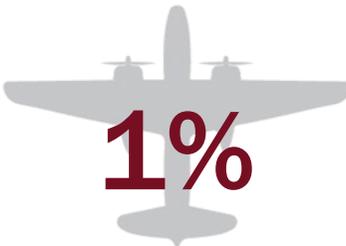
- 18,900 operations in 2019 (per the FAA)



Single-engine
Piston



Multi-engine
Piston



Turboprop



Jet



Rotorcraft

Note: 2.7% of 2019 operations were performed by “experimental/other” aircraft

Source: FAA Traffic Flow Management System Counts database.

Forecast Trends

- Operations should increase 1% - 2% annually; Airport’s market share should increase
- Significant increase in small jet and rotorcraft activity; Modest growth in piston aircraft

CRITICAL AIRCRAFT

- **FAA definition:** *The most demanding aircraft (or a combination of multiple aircraft that share similar characteristics) that conducts at least 500 operations per year at an airport*
- Characterized by aircraft approach speed, tail height, and wingspan
- Current critical aircraft:



Cessna Skyhawk 172

Source: sweetaviation.com



Piper Malibu Meridian

Source: airport-data.com

Forecast Trends

Future critical aircraft will likely change in 20-year planning horizon

SUMMARY OF ONGOING WORK AND NEXT STEPS

- **Inventory of Existing Conditions:** complete
- **Airport GIS survey:** complete
- **Aviation Activity Forecast:**
 - Draft nearing completion
 - Forecasts to be submitted to FAA
- **Stakeholder Involvement:**
 - Next Master Plan Advisory Committee meeting: November 2020
 - Next public workshop: September 2020

QUESTIONS / COMMENTS

Please send additional questions and comments to:

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john.coliton@kimley-horn.com



THANK YOU!

