STATE AVIATION SYSTEM PLAN UPDATE

Public Meeting

January 2018

ADOT

Kimley»Horn

SASP UPDATE
STUDY PROCESS

TASK 1 ✓
Define Goals, Performance Measures, and Targets

TASK 2 ✓
Review Current Policies and Airport Development Guidelines

TASK 3 ✓
Inventory of Existing Airport Assets

TASK 4
Develop Aviation Forecasts

TASK 5
Analyze Airport Classification Roles

TASK 6
Evaluate Current Airport System Performance

TASK 7
Define Future Airport Sytem Performance Targets

TASK 8
Develop Specific Recomendations / Identify Potential Funding Sources

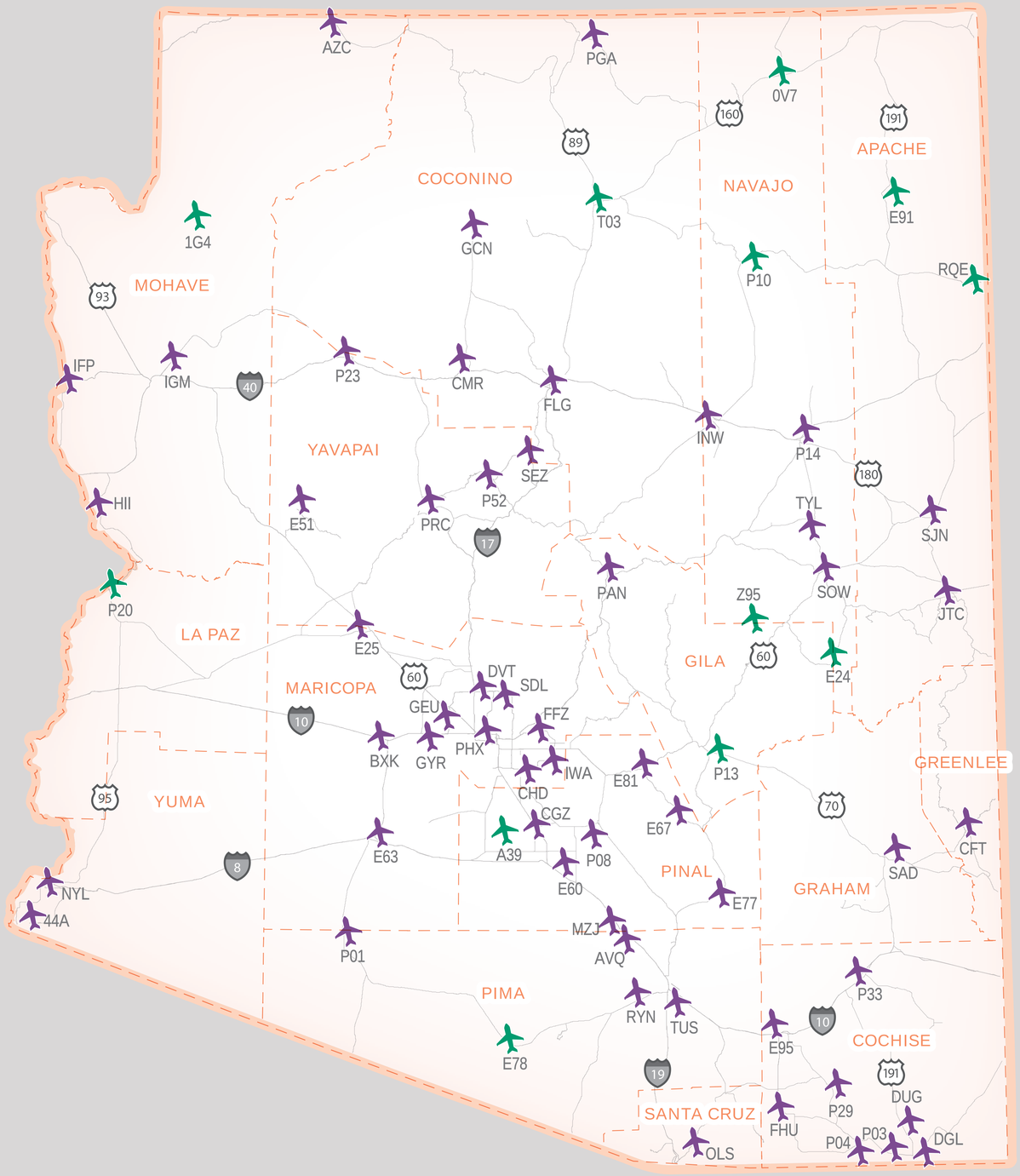
TASK 9
Final SASP Update Report

THE PROJECT ADVISORY COMMITTEE (PAC) AND PUBLIC WORKSHOPS HELP GUIDE THE SASP UPDATE

Arizona’s Aviation System

2017 SASP AIRPORTS

Publicly Owned Tribal



System Vision & Goals

VISION: To provide the framework that will allow Arizona's aviation system to meet the needs of citizens, visitors, and businesses by supporting economic competitiveness, connectivity, and accessibility with a commitment to safety, sound resource management, and partnerships.

GOALS:

SAFETY **AND SECURITY**

Arizona should maintain a safe and secure airport system as measured by compliance with applicable safety and security standards while supporting health and safety-related services and activities.

FISCAL **RESPONSIBILITY**

Arizona should implement cost-effective investment strategies to meet current and projected demand while remaining adequately accessible to Arizona's citizens, visitors, and businesses.

ECONOMIC **SUPPORT**

Arizona should advance a system of airports that promote Arizona's growth and development.

Vision

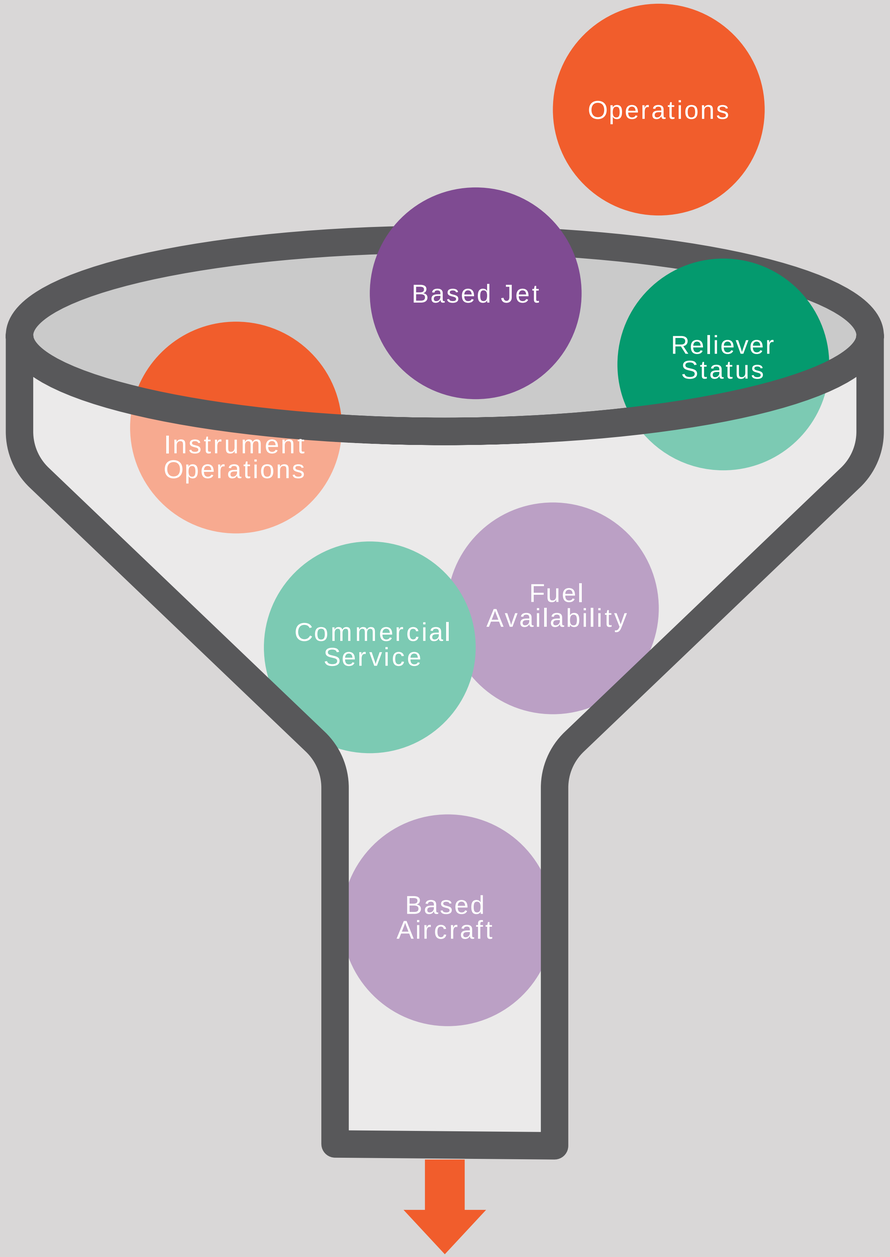
System Plan Goals

Performance Measures

Targets

POLICY RECOMMENDATIONS

Airport Classifications



FACILITY AND SERVICE OBJECTIVES

Component	Airport Criteria	
General Airfield	Airport Reference Code (ARC)	Runway Surface
	Runway Length / Width	Approach Capability
	Taxiway	Visual Aids
	Lighting	Approach Lighting System
Facilities	Operations/Maintenance Hangar	Fencing
	Hangars	Auto Parking
	Apron	Terminal/Pilot's Lounge
Services	Fixed-base Operator (FBO)	Aircraft Maintenance
	Avionics Sales and Service	Ground Transportation
	On- / Off-Site Rental Car	Restroom
	Phone Access	U.S. Customs
	Fuel	Deicing
	Snow Removal	Oxygen
	Weather Reporting	Air Taxi/Charter Service
	Aircraft Rental	

Current System Performance

PERFORMANCE MEASURES

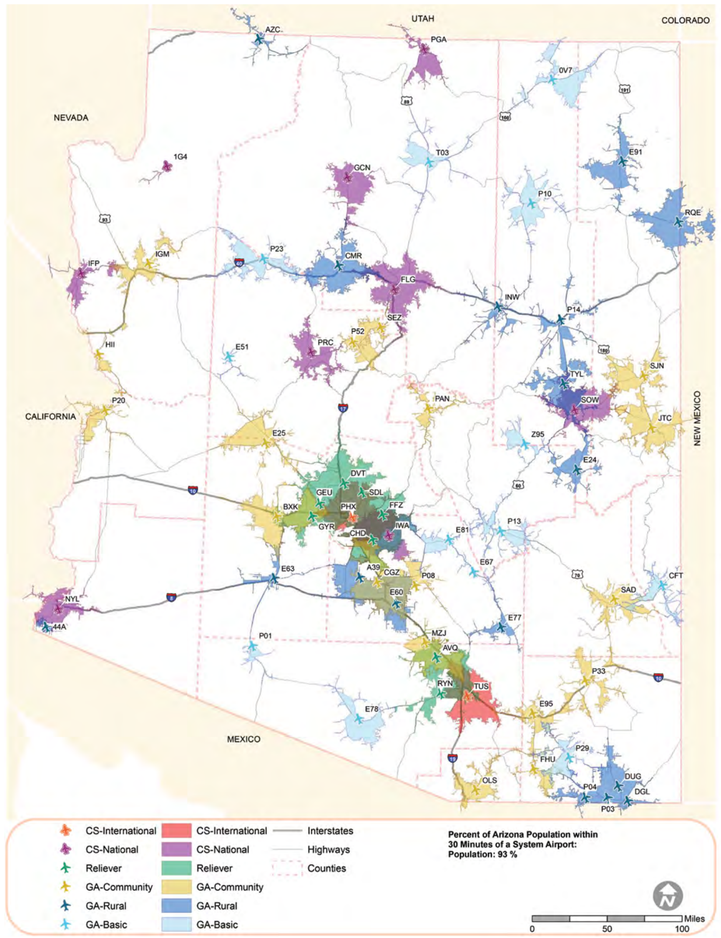
Goal Category	Performance Measures	Percent of Airports Achieving Measure
SAFETY AND SECURITY	Airports capable of supporting physician/medical transport	**30%**
	Airports with surrounding municipalities that have adopted controls/zoning, including “disclosure areas,” to make land use in the airport environs compatibles with airport operations and development	**76%** CONTROLS/ZONING **30%** DISCLOSURE AREAS
	Airports controlling all runway end runway protection zones (RPZ)	**30%**
	Airports that have runway safety areas (RSA) on their primary runway that meet the standards for their current airport reference code (ARC)	**85%**
	Airports that have active vegetation management plans to clear obstructions from their approaches	**22%**
FISCAL RESPONSIBILITY	Airports with 24/7 fuel	**63%**
	Airports that are recognized in local comprehensive plans	**61%**
	Airports with the facilities to support jet aircraft	**48%**
ECONOMIC SUPPORT	Population within 30 minutes of an all-weather runway (paved, instrument approach, weather reporting)	**90%**
	Airports with a current (past five years) master plan	**45%**
	Airports with a pavement condition index (PCI) of 70 or greater	**57%**

SYSTEM INDICATORS

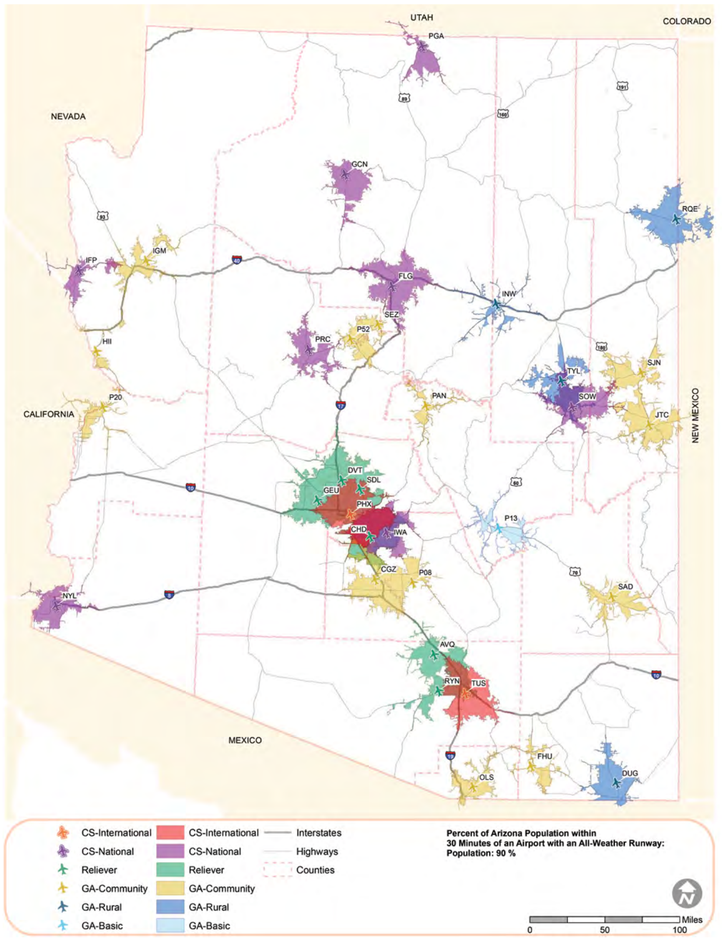
Goal Category	System Indicators	Percent of Airports Achieving Indicator
	Airports that have a written emergency response plan	**61%**
	Airports with clear approaches to primary runway end	**28%**
	Airports with adopted wildlife plans in accordance with appropriate FAA regulations	**28%**
	Airports that support aerial firefighting operations	**75%**
	System airports supporting flight training	**68%**
	Dollars of direct and indirect economic impact on the state from aviation	**$12.1 billion** DIRECT **$19.8 billion** INDIRECT
	Population within 30 minutes of a system airport meeting business user needs	**82%**
	Communities in the state with a population greater than 5,000 with a 60-minute drive time of a commercial service airport	**70%**
	Communities in the state with a population greater than 1,000 with a 30-minute drive time of a general aviation airport	**79%**
	Airports with utilities (i.e., electricity, telephone, water, sewer, and gas)	**78%** SEWER; **87%** WATER; **94%** ELECTRIC; **57%** GAS; **69%** TELEPHONE
	Percent of population with 30 minutes of a National Plan of Integrated Airport Systems (NPIAS) airport	**93%**

30-minute Drive-time Maps

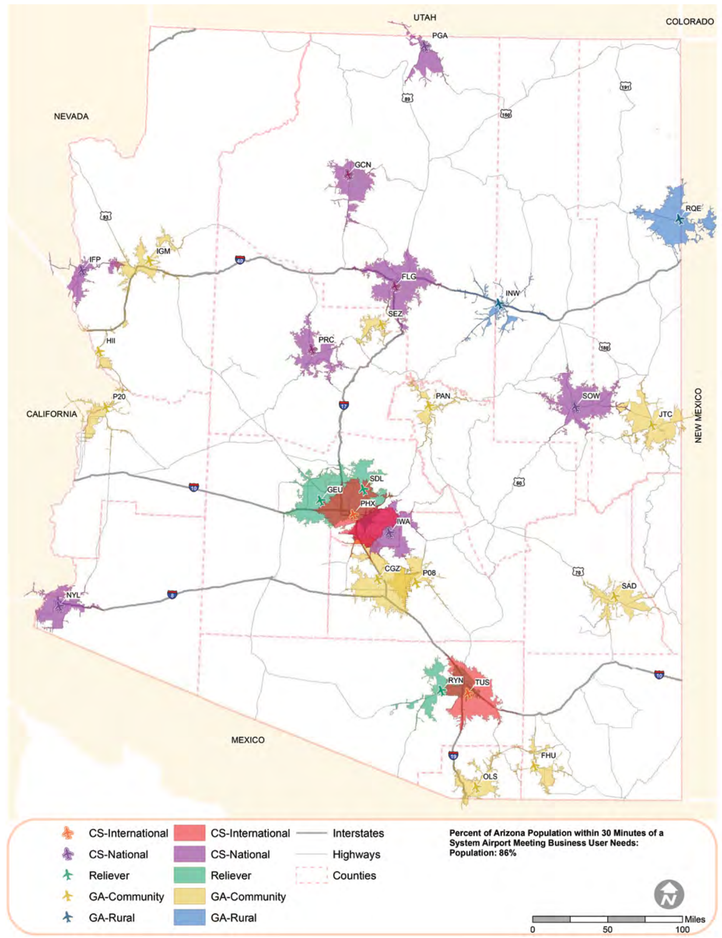
SYSTEM AIRPORTS



ALL-WEATHER RUNWAY



AIRPORTS MEETING BUSINESS USER NEEDS



93%

of the population is within 30 minutes of a system airport

90%

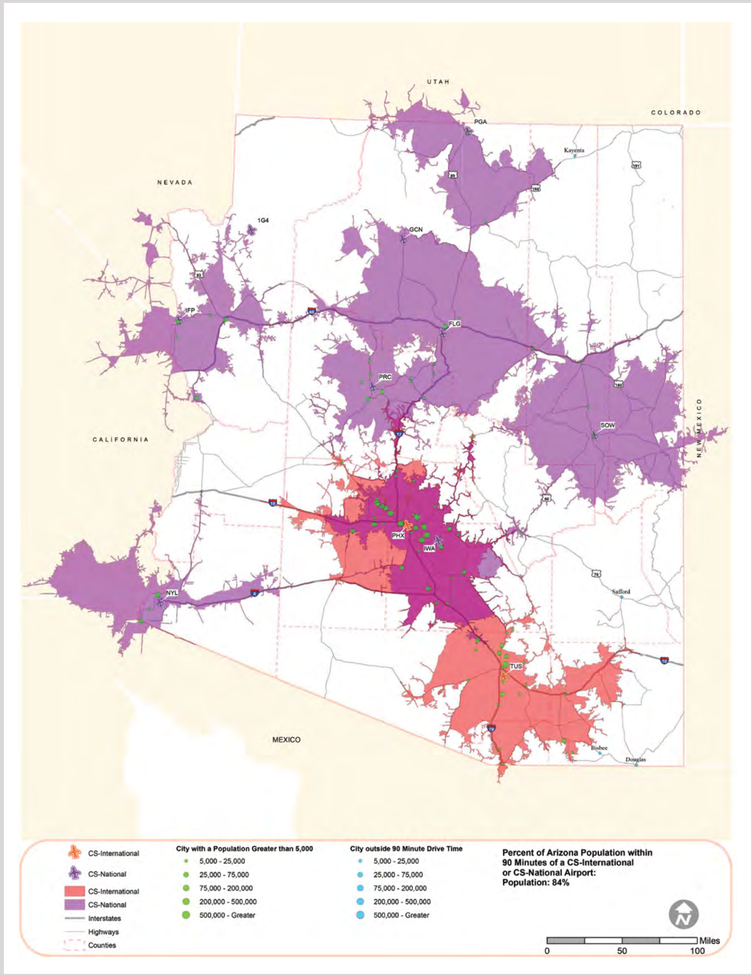
of the population is within 30 minutes of an all-weather runway

86%

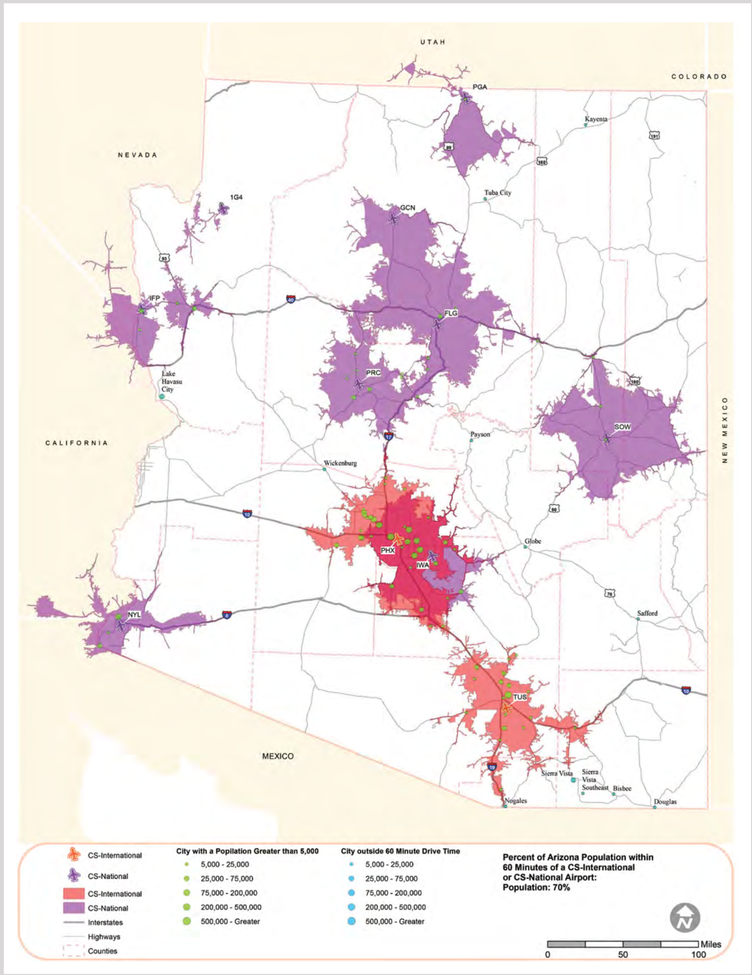
of the population is within 30 minutes of an airport meeting business user needs

Commercial Service Drive-time Maps

90 MINUTES



60 MINUTES



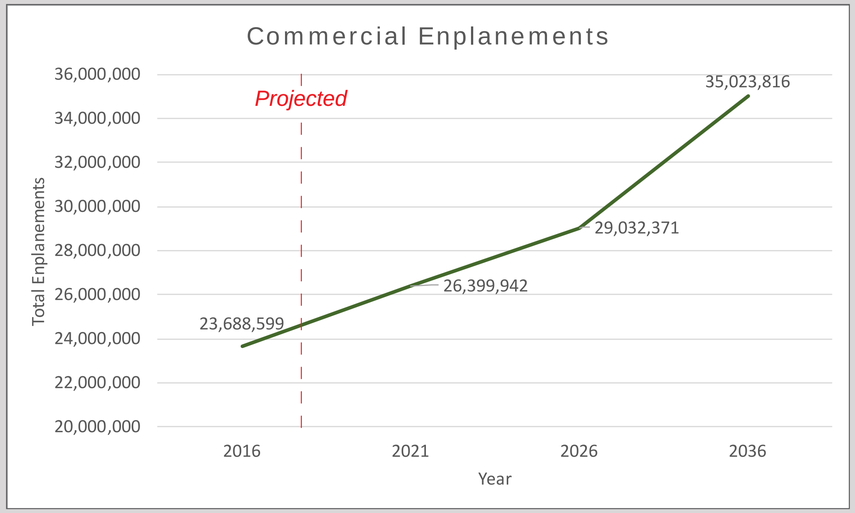
84%

of the population is within 90 minutes of a commercial service airport

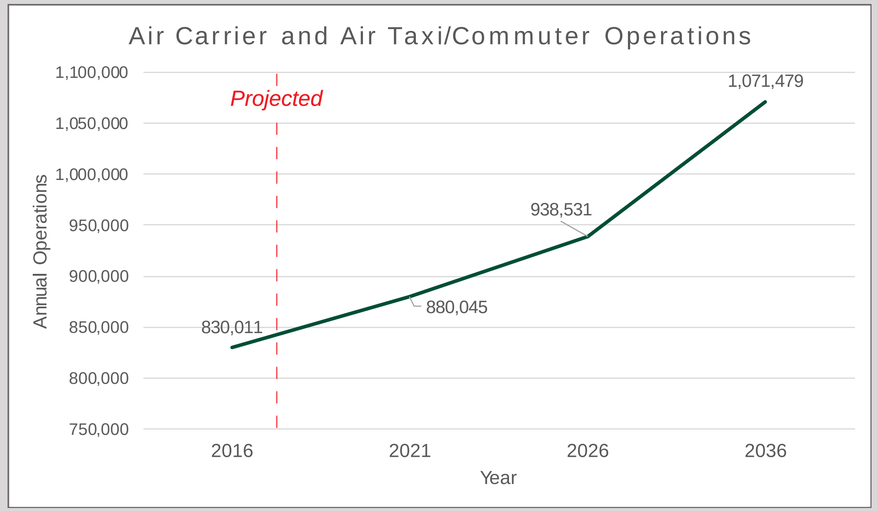
70%

of the population is within 60 minutes of a commercial service airport

Commercial Aviation Forecasts

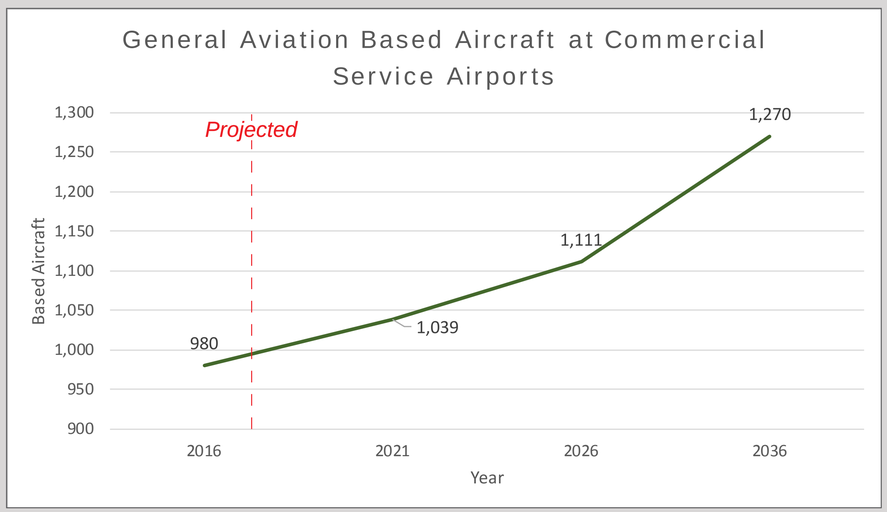


CAGR = 1.97%

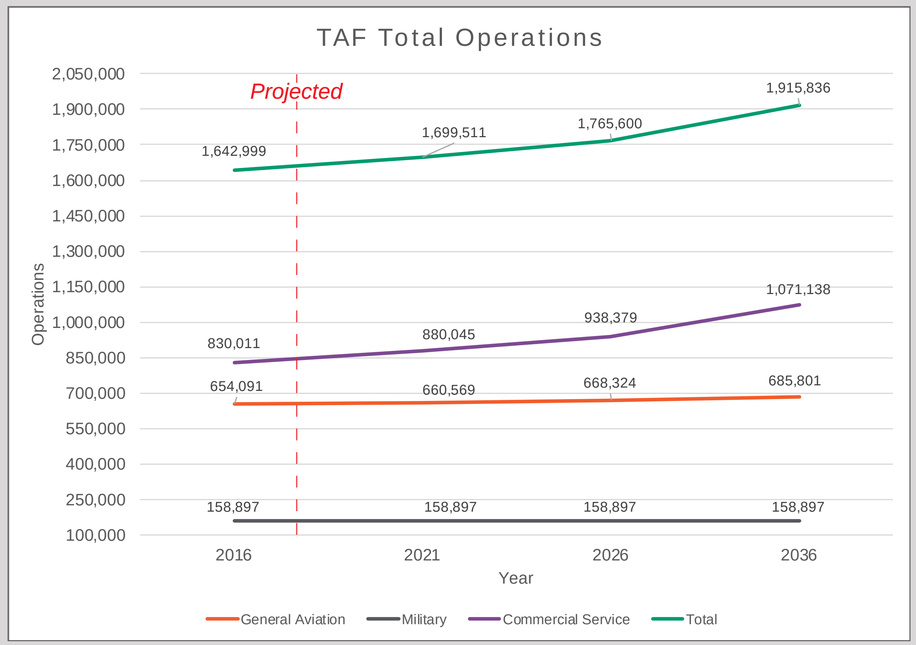


CAGR = 1.28%

Compound Annual Growth Rate (CAGR)



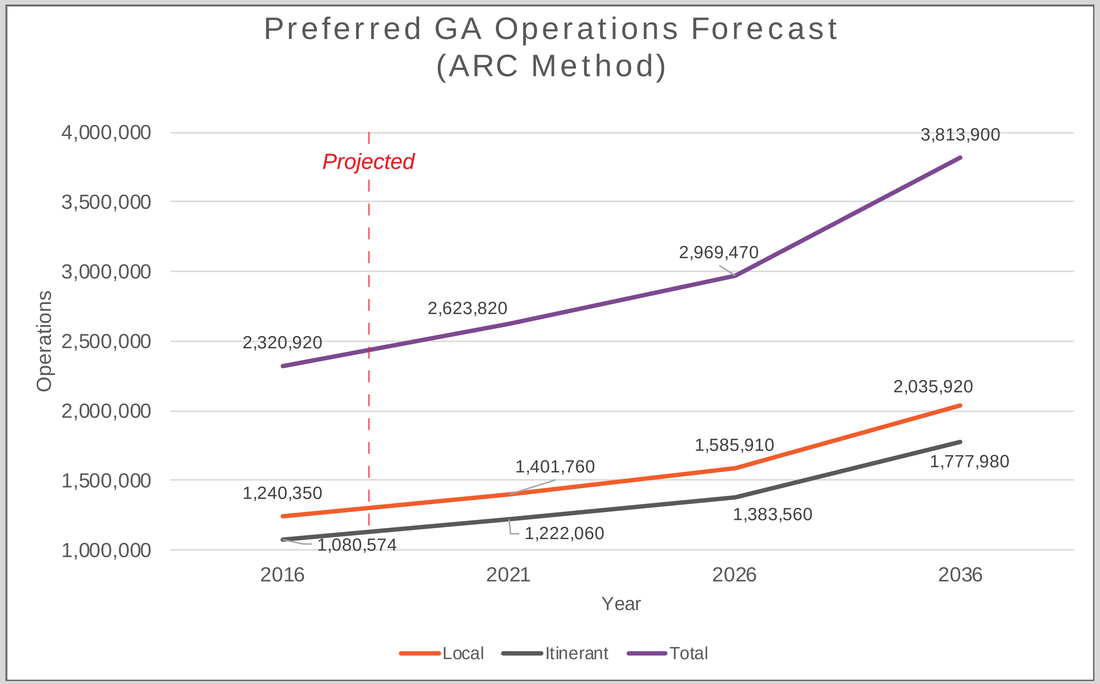
CAGR = 1.30%



TOTAL OPERATIONS INCREASE = 1.59%

Source: Federal Aviation Administration (FAA) Terminal Area Forecast (TAF), issued January 2017

General Aviation Forecasts



TOTAL OPERATIONS
INCREASE = 2.53%

Preferred Based Aircraft Forecast
(Population Growth Method)

AIRCRAFT TYPE	2016	2021	2026	2036
Single-engine piston	3,835	4,167	4,518	5,261
Multi-engine piston	453	493	532	621
Jet	242	261	285	335
Rotorcraft / helicopter	135	146	157	187
Glider	12	12	13	15
Ultralight	75	130	87	104
Military	2	2	2	3
AIRCRAFT TOTAL	4,754	5,211	5,594	6,526

TOTAL BASED AIRCRAFT
INCREASE = 1.59%

Source: Airport Inventory and Data Survey 2017

Aviation in Arizona

In one word, what do Arizona's airports mean to you?

www.azdot.gov/SASPupdate