

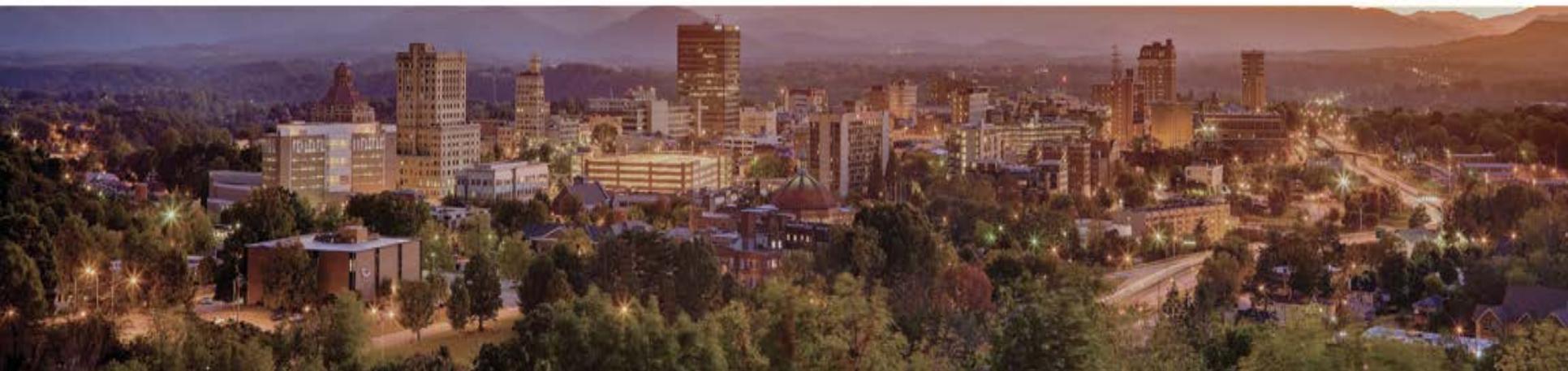


January 4, 2016



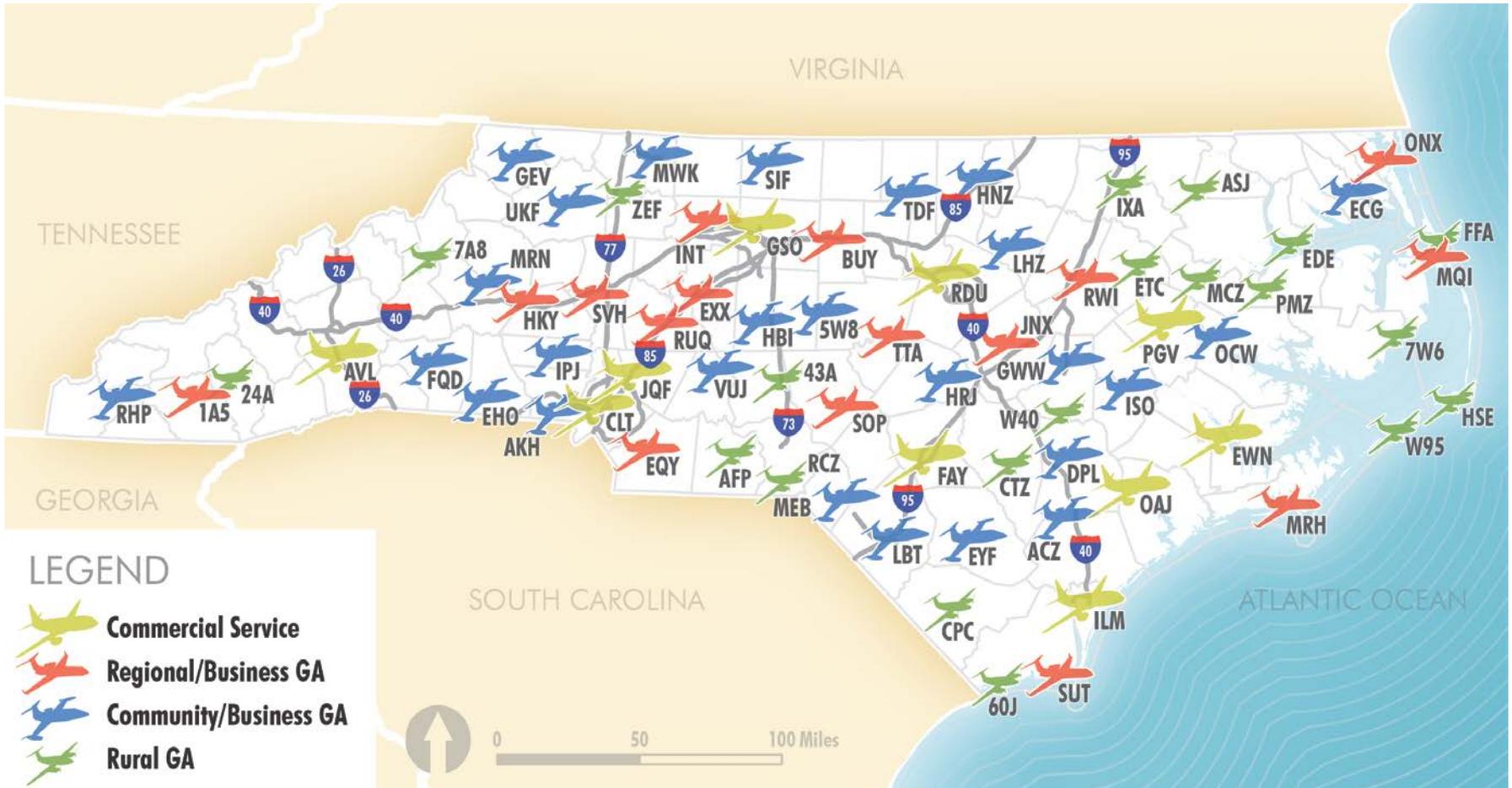
*Division of Aviation*

Bobby Walston, PE, Aviation Director



# North Carolina's Aviation System

72 Publicly Owned Airports in North Carolina



# *Economic Contribution of NC Airports*

- Commercial and General Aviation Airports provide more than **\$25.9 billion in economic impact** each year.
- Commercial and General Aviation Airports support over **108,000 jobs** throughout North Carolina.



Source: NC State University, Institute for Transportation Research and Education, 2012



# *Benefits of Aviation in NC*

- State and local governments received more than \$770 million in sales, property, corporate, and personal taxes due to airport activity.
- Local property tax related to airport activities is about \$277 million.
- North Carolina airports support more than \$4 billion in personal income for aviation-related jobs.



Source: NC State University, Institute for Transportation Research and Education, 2012

# *Division of Aviation Core Functions*

Provide:

- Aviation safety and education programs
- State and Federal Airport Project Grants
- Air transportation, operations, and support for state agencies
- Management of the state's Unmanned Aircraft System Program



# *FAA State Block Grant Program*

Started in 1989 with three states:

Illinois, Missouri, and North Carolina

Managed by the FAA  
Memphis Airport District  
Office (ADO)

Administers Airport  
Improvement Program (AIP)  
grants to airports classified  
as “other than primary  
airports”

In 2000, AIR-21 authorized  
up to 10 states to participate



# Federal Funding

## FFY 2015 Funding

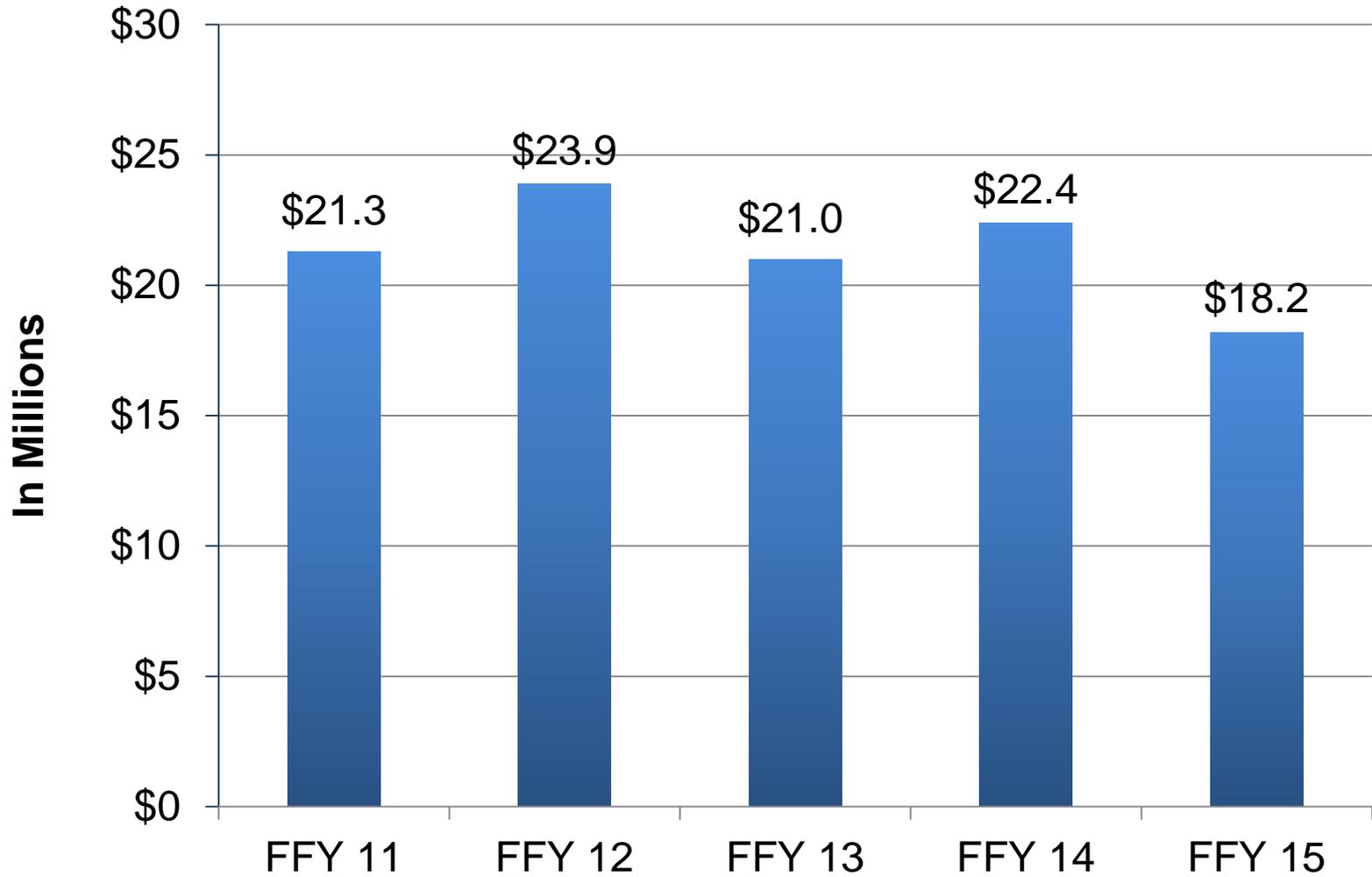
NC Block Grant Program  
administered by the Division of  
Aviation to 62 GA Airports:  
**\$18.3M**

- Apportionment - **\$5.7M**
- Discretionary - **\$3.4M**
- Non-Primary Entitlement - **\$9.2M**

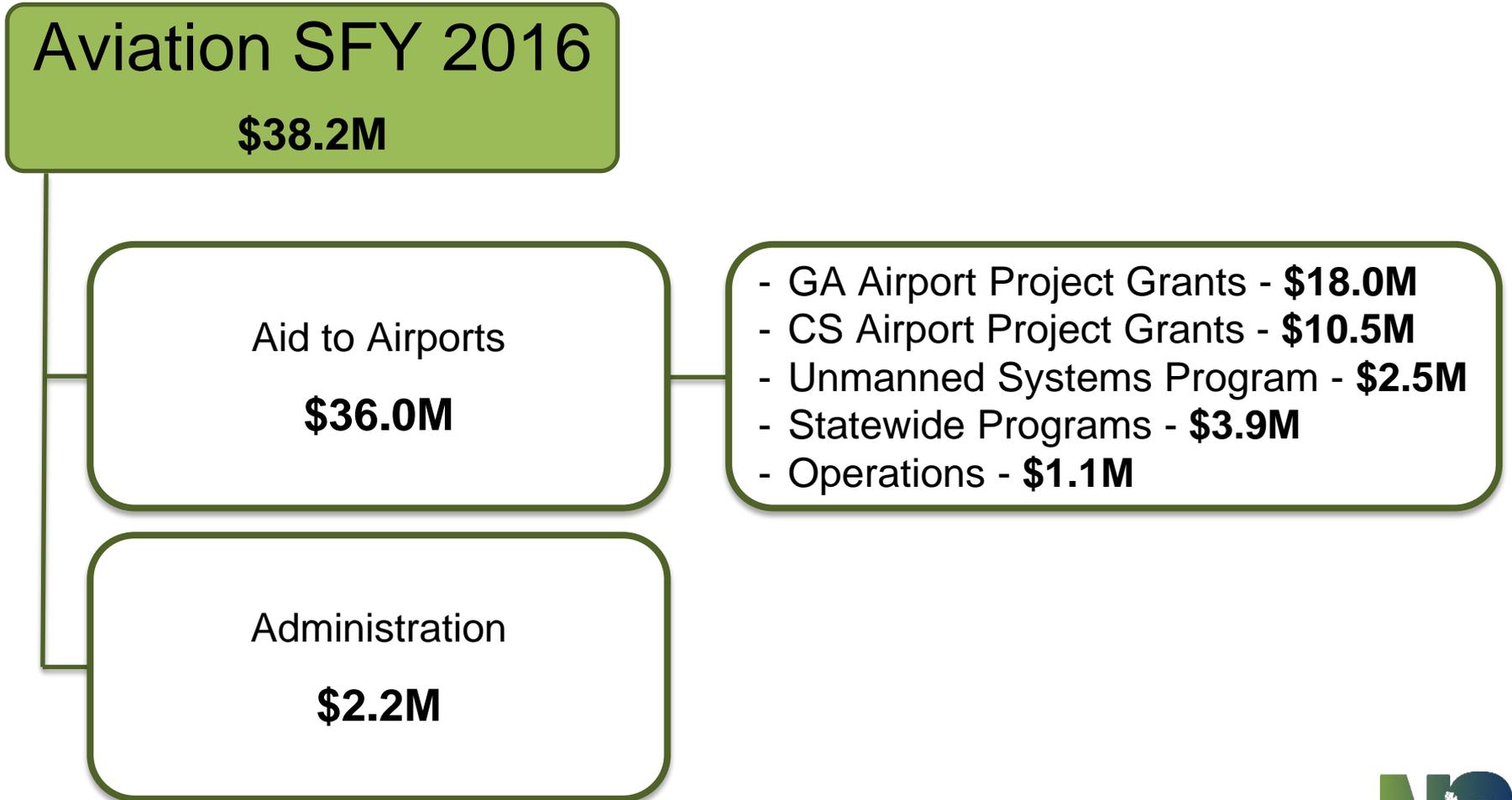
Airport Improvement Program  
(AIP) administered by FAA to 10  
Commercial Service Airports:  
**\$83.8M**



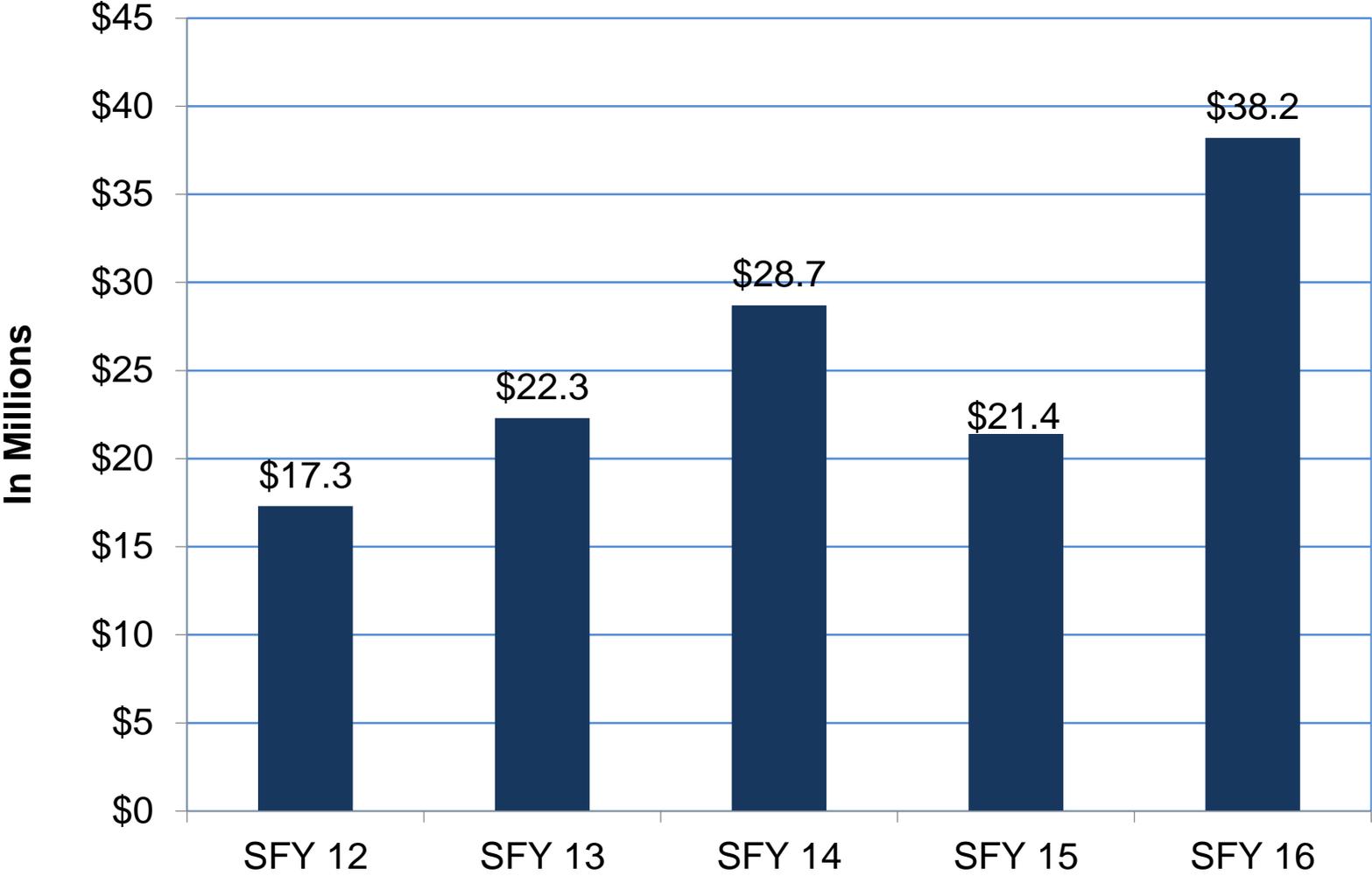
# FAA State Block Grants FFY 2010-2015



# State Funding



# State Funding (in millions) SFY 2012-2016



# *Aviation STI Projects 2016-2020*

<b>Tier</b>	<b>Quantity</b>	<b>Cost</b>
Statewide Mobility	9	\$4.5 M
Regional Impact	5	\$1.5 M
Division Needs	15	\$22.2 M
<b>Total</b>	<b>29</b>	<b>\$28.2 M</b>

Note: STI funds Capital Projects only

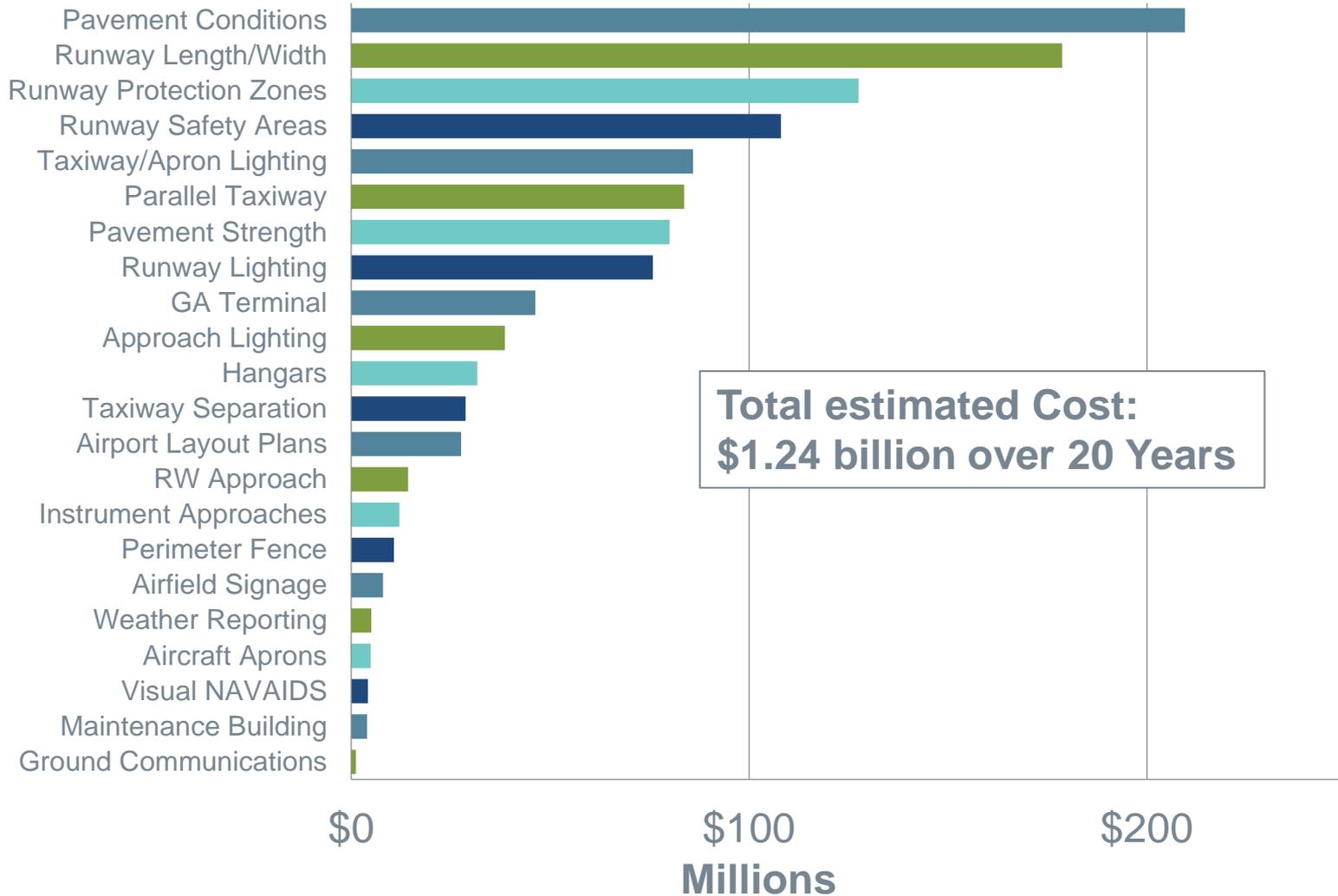


# *NC Airports System Plan Study*

- Comprehensive inventory of each airport's assets in our state system
- 20-year forecast applied to all airports
- Top-down analysis of our airport system
- Established Performance Measures and System Objectives for all eligible project categories



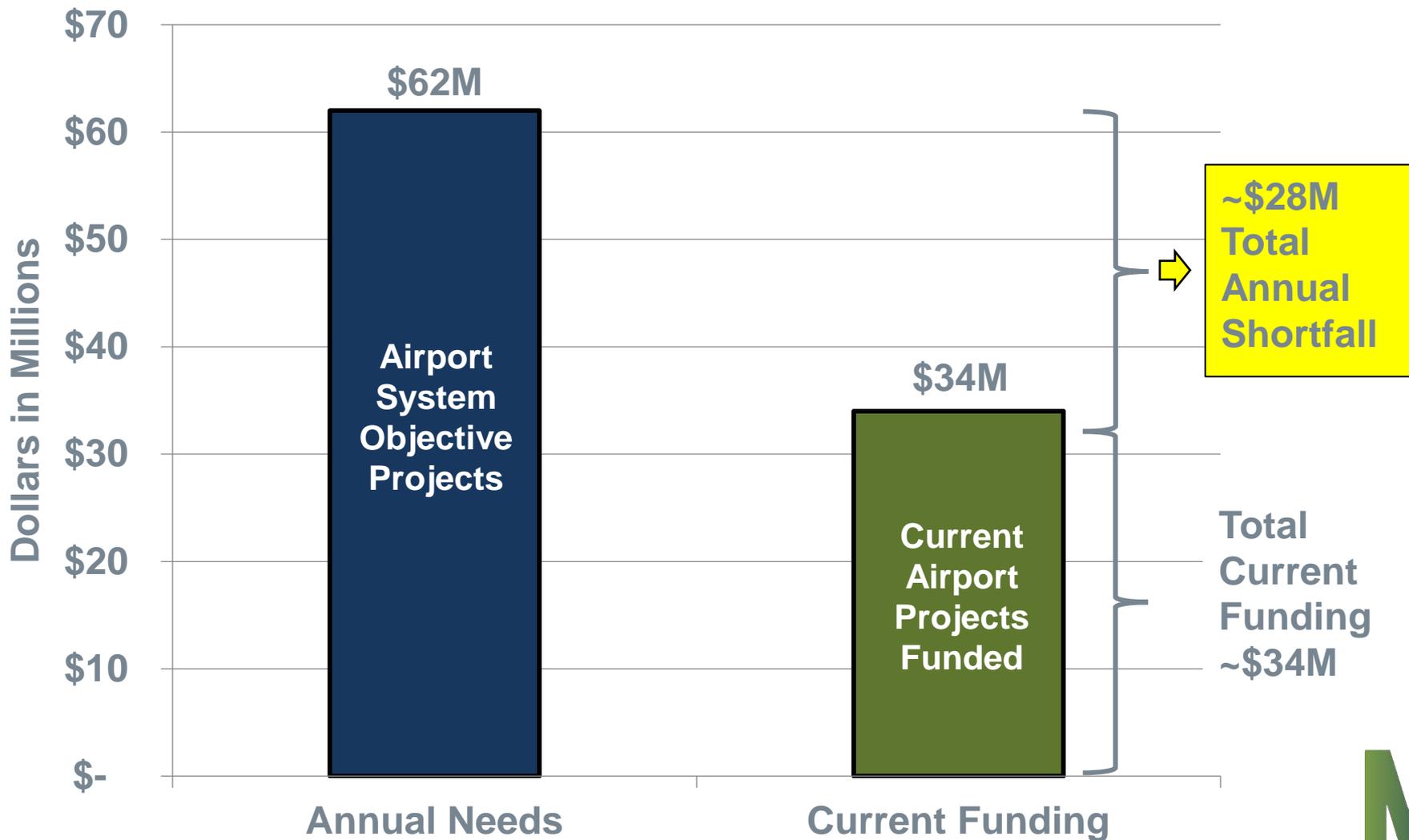
# Cost by Airport Development Plan Category



Source: 2014 North Carolina Airports System Plan Update



# NC Airports Annual Funding Gaps



Source: 2014 North Carolina Airports System Plan Update



# *Current Project Requests 2016-2020*

<b>Project Type</b>	<b>Quantity</b>	<b>Cost</b>	<b>Percentage</b>
Capital Projects	237	\$515 M	60%
O&M Projects	420	\$340 M	40%

\*Note: Capital Projects include Design, Land Acquisition, and Construction that are combined as project requests in Partner Connect.



# NC Airport Development Plan

This plan provides the standards and guidelines the Division of Aviation uses to identify projects needed to meet System Objectives (Safety and Regulatory type projects) and provide the Department score for STI projects.



# Airport Project Funds

Source	Highway Funds	Highway Trust Funds
Project Types	Operations and Maintenance	Capital
Project Purpose(s)	Maintain Safety, Regulatory, and Standards Requirements	Expand and Increase Capacity of Facility beyond System Objectives
Project Example	<p>Approach Obstruction Removal</p> <ul style="list-style-type: none"> <li>- Includes planning, land, permitting, and clearing</li> </ul>	Runway Expansion Project Includes planning, design, land, permitting, and construction
Projects Prioritized Using	Airport Development Plan	Strategic Transportation Investment (STI) Formula



# *NC Airports Working Group*

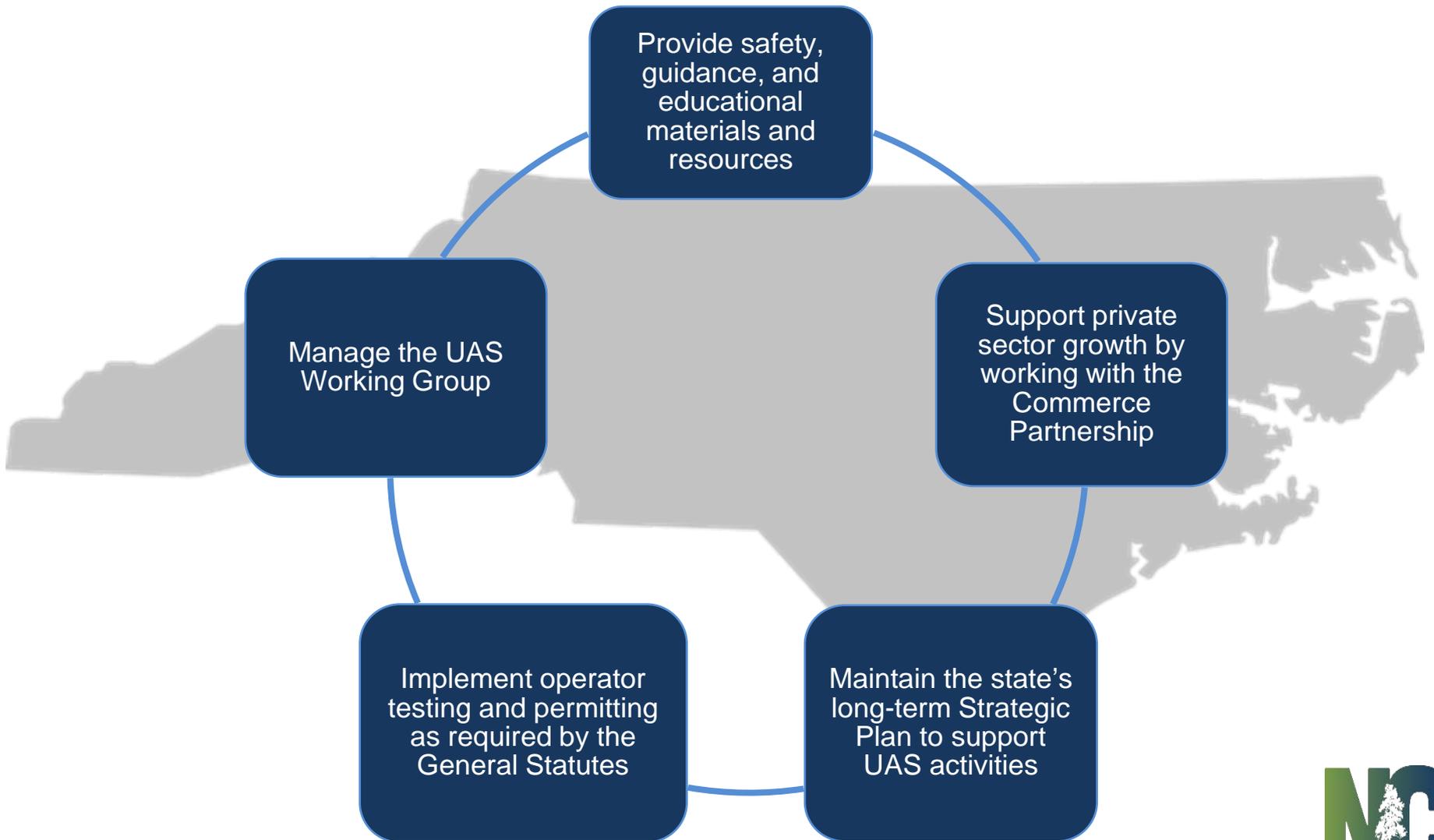
- Established to identify opportunities for improvement of existing programs and services
- Creating and implementing tools to better serve state, regional, and local needs



# *Airport Safety Preservation (Maintenance Program)*



# NC UAS Program Office



# NC UAS Program Office

**Unmanned Aircraft Systems in NORTH CAROLINA**

**NORTH CAROLINA GENERAL STATUTES**

**Session Law 2014-100**  
Updated in Session Law 2015-232

While this is a summary of Session Law 2014-100 & 2015-232 relating to UAS operations, other General Statutes apply to UAS operations within North Carolina.

- Surveillance:** It is illegal to use UAS to take or distribute images of a person or their home without their consent. (NC GS § 15A-300.1 and NC GS § 14-401.25)
- Special Imaging:** Special imaging technology can only be used for specific missions, including but not limited to scientific research, surveying, and agricultural uses. (NC GS § 15A-300.1 and NC GS § 14-401.25)
- Weapons:** Attaching a weapon to a UAS is a class E felony. (NC GS § 14-401.24)
- Hunting and Fishing:** You may not use a UAS to disrupt wildlife resources or the lawful taking of wildlife. It is also against the law in NC to use a UAS in the process of taking wildlife resources. (NC GS § 14-280.3)
- Interference with Manned Flights:** You may not damage, disrupt the operation of, or otherwise interfere with manned flights. (NC GS § 14-280.3)
- Launch/Recovery Sites:** It is illegal to launch or recover your UAS from either private or public property without explicit consent of the property's owner. (NC GS § 15A-300.2)
- Knowledge Test:** To fly in North Carolina, you must pass the NCDOT's UAS Knowledge Test to ensure your safety and the safety of those around you. (NC GS § 63-96)
- Permits:** With the passing of the Knowledge Test as a prerequisite, commercial operators may request an NC UAS permit from the NCDOT Aviation Division. (NC GS § 63-96)

For more information, visit [www.ncdot.gov/aviation/uas](http://www.ncdot.gov/aviation/uas)

**DIVISION OF AVIATION**  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

**Unmanned Aircraft Systems in NORTH CAROLINA**

**HOBBYIST GUIDELINES**  
*Rules for flying hobbyist or recreational drones*

- Must fly below 400 feet
- Must fly within your line of sight
- Do not fly within 5 miles of an airports, above stadiums, or above other public events
- Do not fly for compensation
- Aircraft must weigh less than 55 lbs
- Do take lessons before flying

For more information, visit [www.ncdot.gov/aviation/uas](http://www.ncdot.gov/aviation/uas), [www.faa.gov/uas](http://www.faa.gov/uas), or [www.knowbeforeyoufly.org](http://www.knowbeforeyoufly.org)

**DIVISION OF AVIATION**  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION



[ncdot.gov/aviation/uas/](http://ncdot.gov/aviation/uas/)

# New NC UAS Website

- Includes a NC UAS Knowledge Test
- Commercial and Government UAS Operator's Permits can be acquired online
- UAS Safety Guide and NC Statutes
- Helpful Links

[ncdot.gov/aviation/uas/](http://ncdot.gov/aviation/uas/)

The screenshot displays the 'UAS Operator Permitting' website. The header includes the logo and navigation links for Business, DMV, Newsroom, Programs, Projects, and Travel & Maps. The main content area features a 'Start Knowledge Test' section with a video player and a call to action to 'Download Study Guide' and 'Start Knowledge Test'. Below this, a section titled 'BEFORE YOU BEGIN Requirements for Operator Permitting in North Carolina' lists requirements for three categories: Commercial, Government Operations, and Recreational. Each category has a 'More Information' button.

Commercial	Government Operations	Recreational
<ul style="list-style-type: none"><li>✓ Obtain a <a href="#">Section 333 Exemption</a> from the Federal Aviation Administration (FAA).</li><li>✓ Alternatively, a <a href="#">Special Airworthiness Certificate</a> can be obtained from the FAA.</li><li>✓ Operator must pass the NCDOT UAS Knowledge Test.</li><li>✓ Operator must have a valid Driver License.</li><li>✓ Operator must have a valid <a href="#">Airman Certificate</a> or a sponsor with valid Airman Certificate.</li></ul>	<ul style="list-style-type: none"><li>✓ Obtain a <a href="#">Certificate of Authorization</a> from the Federal Aviation Administration (FAA).</li><li>✓ Operator must pass the NCDOT UAS Knowledge Test.</li><li>✓ Operator must have a valid Driver License.</li></ul>	<ul style="list-style-type: none"><li>✓ Recreational UAS drone operators are not required to obtain a permit from the Division of Aviation.</li><li>⚠ Recreational operators are required to register their UAS through the <a href="#">FAA's UAS Registration Service</a>.</li></ul>
<a href="#">More Information</a>	<a href="#">More Information</a>	<a href="#">More Information</a>

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# *NCDOT Flight Operations Aircraft Fleet*



2007 King Air 200  
9 Passengers



2007 King Air C90  
Photogrammetry or 6 Passengers



1998 S-76 Helicopter  
7 Passengers  
For Sale



1998 Citation Bravo  
8 Passengers  
For Sale



# *Types of Flight Missions*

## Mission Specific:

- Photogrammetry Operations
- Emergency and Safety Operations
- Maintenance and Training Operations

## Passenger:

- State Officials Support
- Commerce Support
- Governor's Office
- State Universities



# Asset Utilization – Flight Hours

## NCDOT Aircraft

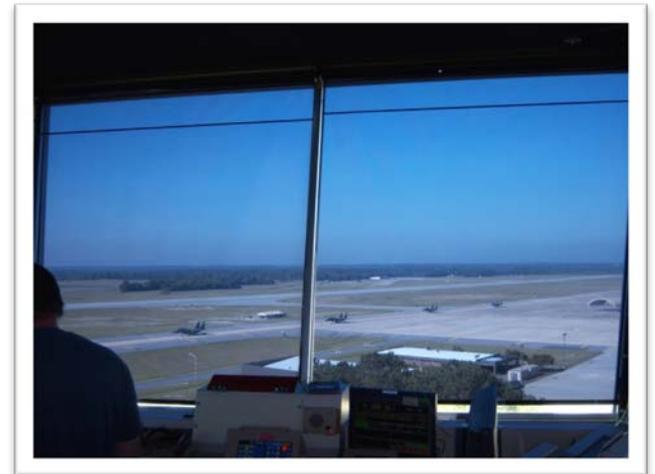
Aircraft Type	SFY 2013	SFY 2014	SFY 2015	Projected % Incr/Decr to End of SFY
King Air 200	183	235	235	0%
King Air C90	183	161	243	+50%
Citation Bravo	150	138	170	+23%
S-76 Helicopter	50	22	16	-27%
<b>Total Fleet</b>	<b>566</b>	<b>556</b>	<b>664</b>	<b>+20%</b>

## Utilization of UNC Aircraft

Aircraft Type	SFY 2013	SFY 2014	SFY 2015	Projected % Incr/Decr to End of SFY
TBM / 850,700	12	34	43	+26%
Baron / BE-58	7	31	47	+51%
<b>Total</b>	<b>19</b>	<b>65</b>	<b>90</b>	<b>+38%</b>

# 2015 Flight Operations Accomplishments

- Improved cost recovery by implementing higher aircraft rates and lower fuel and insurance cost
- Overall flight utilization was up 21% from previous year
- Established MOA with UNC Medical Air Operations improving flight efficiencies and aircraft utilization
- 100% passenger satisfaction
- Provided over 30 scheduled aviation safety briefings across the state



# Questions?

Bobby Walston, PE  
Aviation Director

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