



MISSOURI STATE AIRPORT SYSTEM PLAN UPDATE



MODOT STATE AIRPORT SYSTEM PLAN

PROJECT ADVISORY COMMITTEE MEETING #1
JANUARY 30, 2018





AGENDA FOR TODAY'S MEETING

- Introductions
- Role for Project Advisory Committee
- Need for the System Plan Update
- How the Plan Is Used By MoDOT
- Components of the Airport System Plan
- Anticipated Outcomes of the Update
- Project Communication and Outreach
- Project Schedule
- Next Steps
- Questions





INTRODUCTIONS

- MoDOT Staff
- Members of the Consulting Team
- Project Advisory Committee Representatives





ROLE OF THE PROJECT ADVISORY COMMITTEE

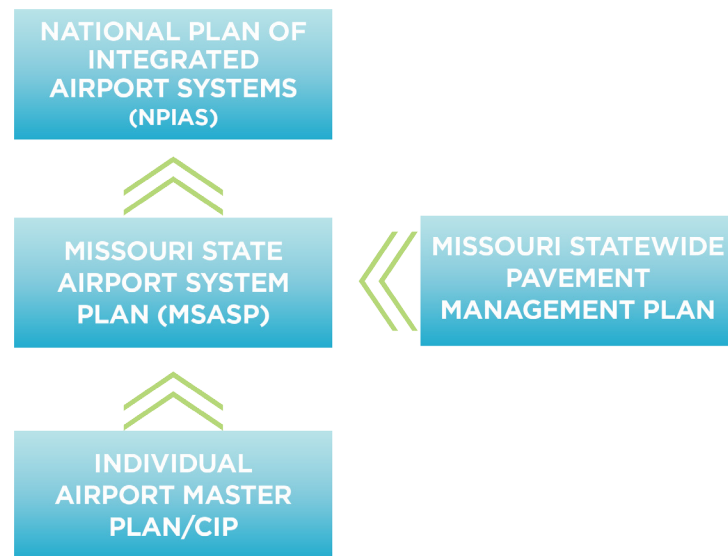
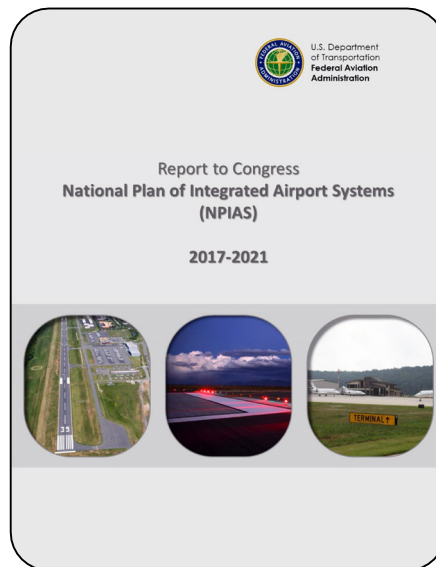
- Serve as the “rudder” for the system plan update
- Ensure the plan equips Missouri with the ability to meet its 20-year aviation demand
- Review study working papers and other study products
- Act as a “sounding-board” for study findings and recommendations
- Help with study outreach (communities, elected officials, and airports)
- Act as a champion for study recommendations





NEED FOR THE PLAN UPDATE

- Last plan based on 2001/2002 data
- Many recommendations in prior plan now implemented
- Aviation industry and technology have changed
- State plan feeds into the FAA's National Plan of Integrated Airport Systems (NPIAS)
- Balances local planning with statewide needs/priorities

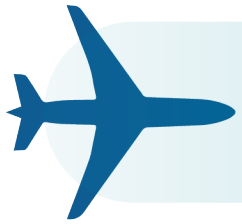




HOW THE PLAN IS USED BY MoDOT

- Gather information that documents current activity, facilities, and services
- Identify gaps in the current system
- Establish actions and projects needed to enhance the system
- Substantiate investment that will be required to maintain and improve the system





TASKS IN THE SYSTEM PLAN





INVENTORY

- Building blocks for system analysis come from the Inventory
- Process to gather Inventory data undertaken beginning in November
- Existing MoDOT and FAA data maximized to reduce data collection
- Cloud-based online survey used to collect data from airports; completion near 100%
- Inventory focused on collecting updated facility data for study airports





FORECAST

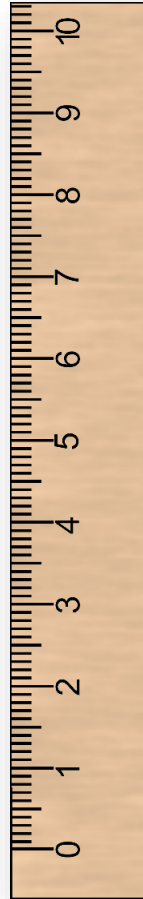
- Consider historical changes in airport aviation demand
- Back-check operational estimates at non-towered airports
- Consider the impacts of national trends on Missouri's aviation demand
- Project based aircraft and general aviation operations





SYSTEM PERFORMANCE

- 60 minutes to scheduled airline service
- 90 minutes to scheduled airline service
- 30 minutes to an ILS/LPV approach
- 30 minutes to a published approach
- 30 minutes to on-site weather reporting
- 30 minutes to NBAA light jet business airport
- 45 minutes to NBAA medium jet business airport





GENERAL AVIATION AIRPORT ROLES

FACTORS CONSIDERED FOR ROLE CHANGES

FAA ASSET

- National
- Regional
- Local
- Basic
- Unclassified

Forecast Demand

Results of System Adequacy

Market Area Characteristics

Economic Support

FAA ASSET Role

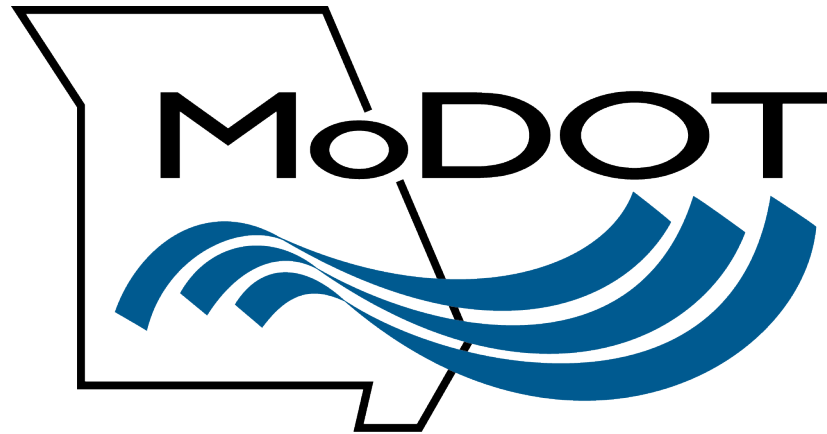
STATE ROLES

- Regional
- Business
- Community



FUTURE AIRPORT PERFORMANCE

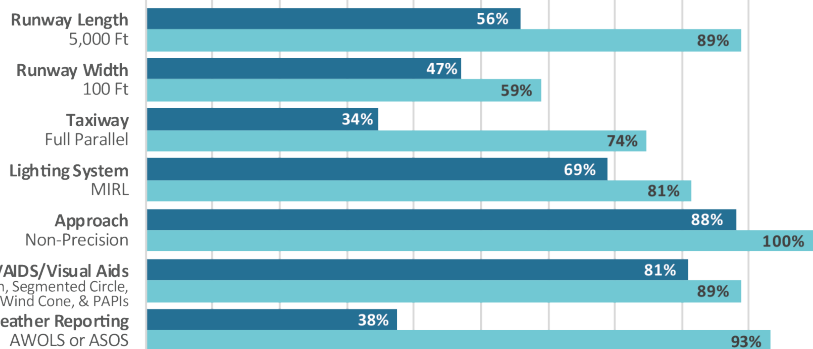
- Facility/service objectives set for airports assigned to each state airport role
- Recommend minimum development that should ideally be in place to meet the needs of typical users
- Based on local needs, airports often exceed state system plan recommendations
- Airport report cards evaluate performance relative to recommended objectives



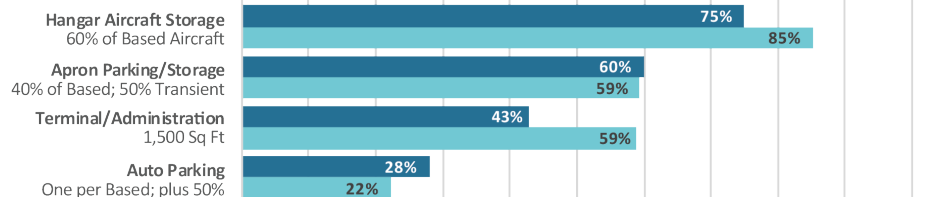


AIRPORT AND SYSTEM REPORT CARDS

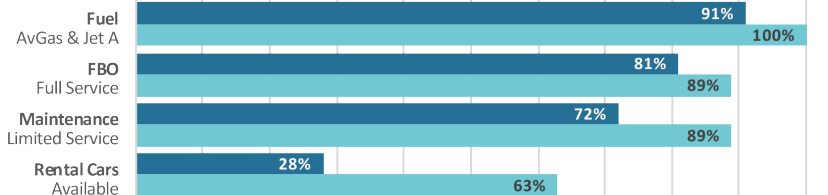
AIRSIDE FACILITIES



OTHER FACILITIES



SERVICES



■ 2002 ■ 2017

Charleston International Airport Report Card	SCI - Commercial Service	CHS
AIRPORT NAME: Charleston International Airport	COUNTY: Charleston	
CITY: Charleston	AIRPORT CODE: CHS	

Charleston International Airport Report Card					
Actions Needed to Meet Facility and Service Objectives (with Associated Project Costs)					
	Actual	Minimum Objective	Compliance	Action Needed to Meet Objective	Estimated Cost
Runway Length	9,001 Feet	5,000 Feet	Yes		
Runway Width	150 Feet	100 Feet	Yes		
Taxiway	Full Parallel	Full Parallel	Yes		
Runway Lighting	HIRL	HIRL	Yes		
Taxiway Lighting	MIRL	MIRL	Yes		
Primary Runway PCL	Unknown*	70 or Greater	Yes		
Approach Type	ILS	ILS or RNAV (GPS) LPV	Yes		
Navigation Aids					
- ALS	ALSF2, MALSR	ALS	Yes		
- VGSI	P4L/P4L	PAPs or VASIs	Yes		
- REILs	ALSF2/MALSR	REILs	Yes		
Weather Reporting	ASOS	ASOS or AWOS	Yes		
Airport Master Plan/ALP	Last approved in 2011	SCAC/FAA approved master plan/ALP within 10 years	Yes	Update airport master plan by 2021	\$750,000
Other Actions Needed to Meet Facility and Service Objectives					
Fuel	Jet A and 100 LL	Jet A and 100 LL	Yes		Demand Driven
FBO	Available	Available	Yes		Demand Driven
Ground Transportation	Rental Car On-Site	On-Site Ground Transportation	Yes		Demand Driven
Unobstructed Approaches					
- RW 15	Clear Approach	Clear Approach	Yes		None
- RW 33	Clear Approach	Clear Approach	Yes		None
- RW 03	Clear Approach	Clear Approach	Yes		None
- RW 21	Clear Approach	Clear Approach	Yes		None
Estimated SASP Project Costs					\$750,000

* The runways are maintained by the U.S. Air Force which operates at CHS as a joint use facility. The PCs are assumed to be in good condition.

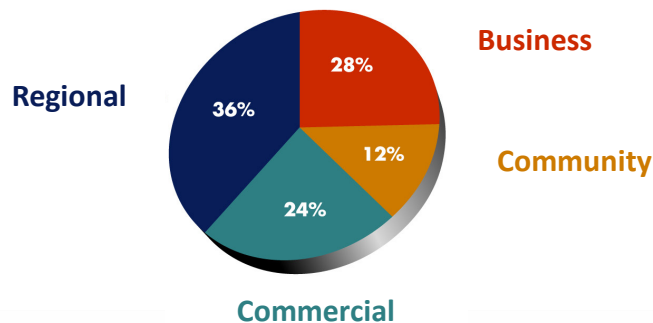
Charleston International Airport Report Card			
Program Year	Pavement Type	Project Description	Estimated Cost
Major Pavement Rehabilitation Planned 2018-2022			
No projects currently identified in this category.			
Total			\$0
Capital Improvement Plan (CIP) 2018-2022			
2018	Apron	East Apron Expansion (Design)	\$525,000
2018	Apron	East Apron Expansion Lighting (Design)	\$50,000
2018	Taxiway	Twy G Rehab & Twy F Intersection Repairs (Design)	\$262,500
2018	Taxiway	Twy G Rehab & Twy F Lighting (Design)	\$12,500
2018	Lighting/NAVAIDS	RTR Relocation (Design)	\$300,000
2018	Lighting/NAVAIDS	RTR Siting Study (Reimbursement Agmt)	\$56,276
2019	Apron	East Apron Expansion Pavement (Construction + CA)	\$6,187,500
2019	Apron	East Apron Expansion Lighting (Construction + CA)	\$687,500
2019	Taxiway	Twy G Rehab & Twy F Intersection Repairs (Construction + CA)	\$3,609,375
2019	Taxiway	Twy G & Twy F Lighting (Construction + CA)	\$171,876
2019	Lighting/NAVAIDS	RTR Relocation (Construction + CA)	\$3,300,000
2020	Auto Parking/Ground Access	North Airfield Perimeter Road Access (Design + EA)	\$285,000
2021	Auto Parking/Ground Access	North Airfield Perimeter Road Access (Construction + CA)	\$3,135,000
2021	Terminal	Ticketing Hall Expansion (Design)	\$496,000
2022	Terminal	Ticketing Hall Expansion (Construction)	\$6,634,000
2022	Terminal	Concourse C (Design + EA) Part 1	\$1,500,000
Total			\$27,212,527
Total Project Costs for Airport			\$27,962,527



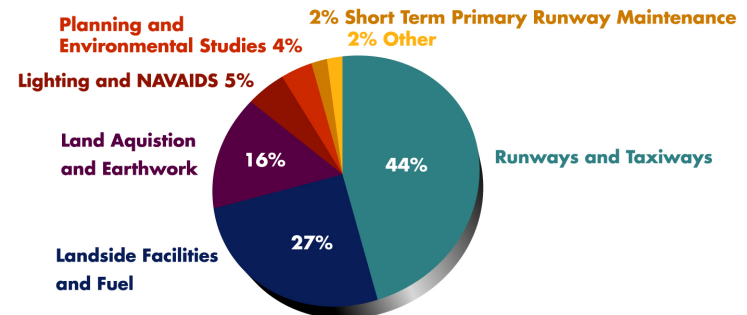
RECOMMENDATIONS AND IMPLEMENTATION

- Recommended plan identifies specific projects needed at each airport to improve system performance
- Cost estimates for implementing all plan recommendations are developed
- Cost to develop and maintain the system will be compared to the economic benefit the system provides

development costs by level



development costs by type





ANTICIPATED OUTPUT/PRODUCTS FROM THE UPDATE

- Technical Report
- Statewide Executive Summary
- Individual Airport Summaries
- Digital Executive Summary



Executive Summary example

Fact Sheet example



Individual Report example



PROJECT COMMUNICATIONS AND OUTREACH

- Focus Group Meeting
- Project Advisory Committee Meetings
- Airport User Survey:
<https://jviation.tfaforms.net/6>
- Project Website:
MoDOTAirportSystemPlan.com
- Webinar: March 8th at
9:00am CST



FOR WEBINAR, RSVP BY MARCH 5TH TO BEVERLY.MCCARRELL@JVIATION.COM



FOCUS GROUP COMPOSITION & OBJECTIVES

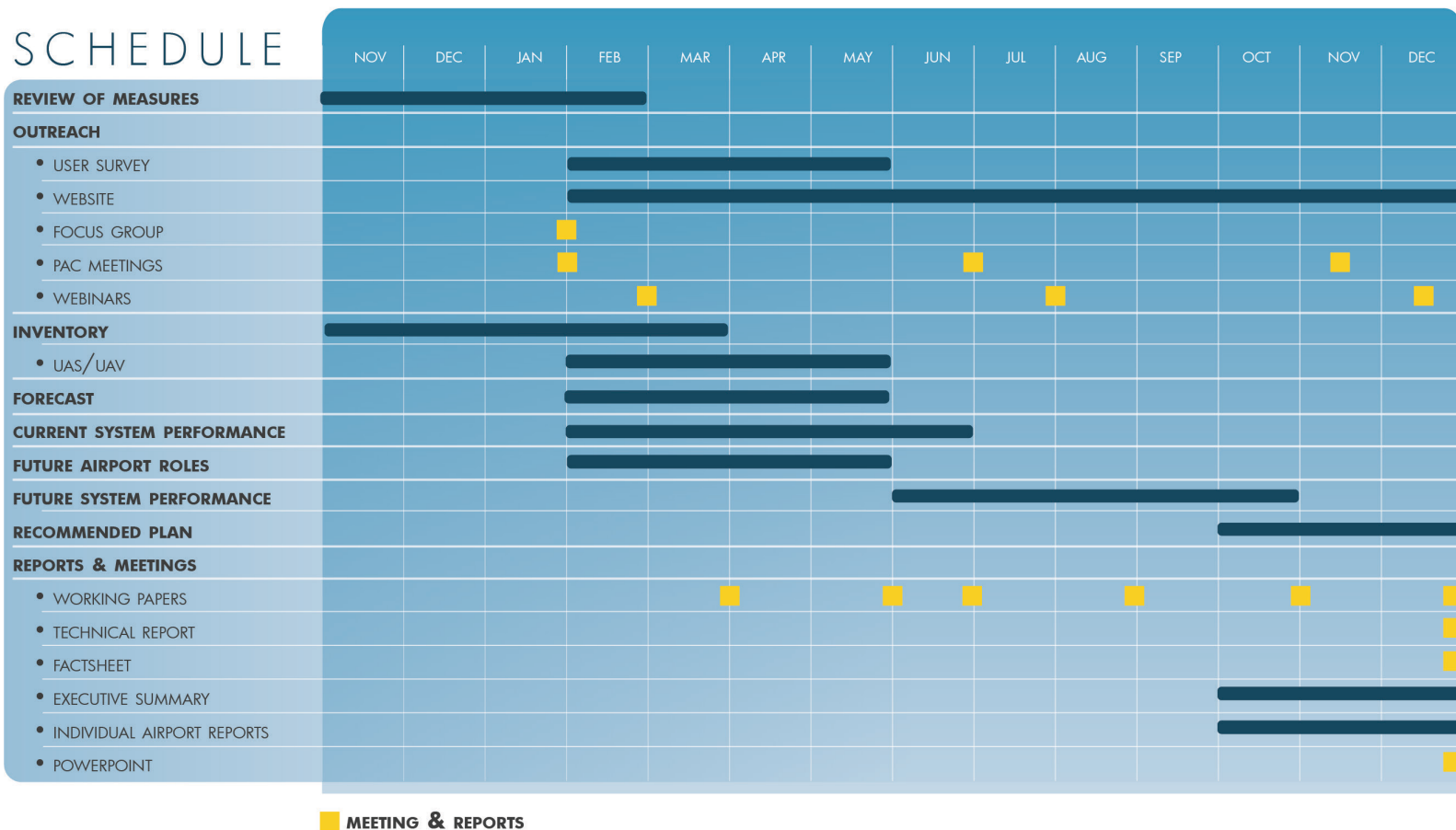
- Represent aviation, transportation, and economic interests
- Confirm state system plan is addressing most important aviation needs and issues
- Communicate with their respective groups/organizations on the study – broaden study outreach within and beyond the aviation community
- Broaden input and support for state airport system plan

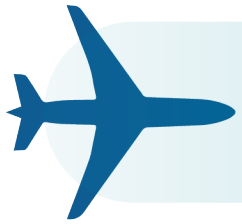




PROJECT SCHEDULE

SCHEDULE





NEXT STEPS

- Complete inventory analysis
- Launch website and user survey
- Initiate forecast task
- Compare state airport roles to FAA ASSET roles
- Begin system evaluation task





QUESTIONS

- **Mike Maynard, JVIATION PROJECT MANAGER**

Phone: 513.484.2519

Email: Mike.Maynard@jviation.com

- **Amy Ludwig, Administrator of Aviation**

Phone: 573.526.7912

Email: Amy.Ludwig@modot.mo.gov