

Project Advisory Committee Meeting #1 March 26, 2024



INTRODUCTIONS



IDOT

PAC MEMBERS

CONSULTANT TEAM

Kimley-Horn

The Aviation Planning Group (AGP)



AGENDA



- 1. Purpose and Role of PAC
- 2. Project Overview
- 3. Phase I Tasks
- 4. Lunch!
- 5. Opportunities and Threats Activity

- 6. Phase II Tasks
- 7. Phase III Tasks
- 8. Recommendations Activity
- 9. Phase IV Tasks
- 10. What's Next?





PURPOSE AND ROLE OF THE PAG



ROLE OF PAG

Represent AAM's diverse constituencies

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Provide insight on local, regional, and statewide transportation system needs



Offer guidance and input into the future of AAM in Illinois



Expectations

- Review and provide feedback on study deliverables
- Meet three times during the study





PROJECT OUERUEU



PROJECT PURPOSE

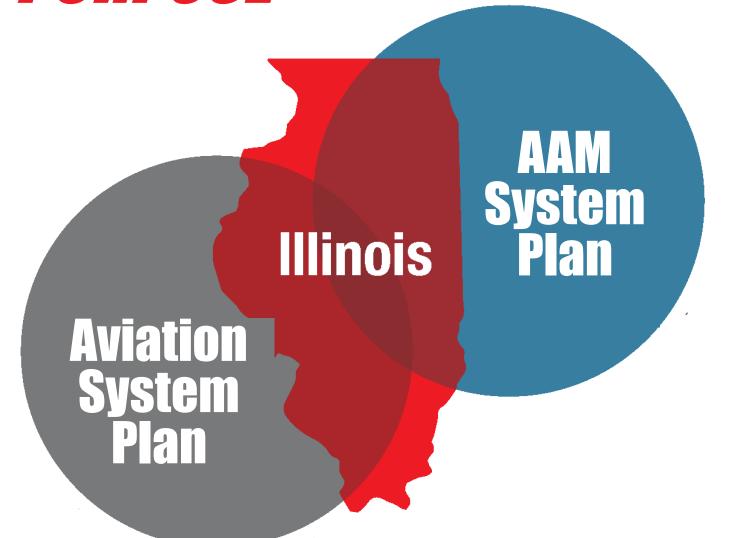


To recognize and prioritize existing and near-term AAM opportunities from an infrastructure, airspace, and IDOT policy perspective



PROJECT PURPOSE







WHAT THIS IS NOT ...

ILLINOIS
AVIATION
ADVANCED AIR MOBILITY
SYSTEM PLAN

- 1. Designing facilities or dictating location
- 2. Not developing flight corridors
- 3. Not making policy mandates



PROJECT PROCESS





PUBLIC CONSULTATION

SYSTEM VISION AND GOALS
DEFINITION OF SYSTEM

OPPORTUNITIES AND THREATS

PHASE |

ACTIVITY FORECASTS

AIRSPACE INTEGRATION

PHASE III

IMPLEMENTATION FRAMEWORK

RECOMMENDATION FRAMEWORK

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TECHNICAL REPORT

EXECUTIVE SUMMARY BROCHURE

SAMPLE VERTIPORT REPORTS

3D AIRSPACE STATIC
AND DYNAMIC MODELS

PROJECT POSTER

PHASEI

SYSTEM VISION AND GOALS
DEFINITION OF SYSTEM
OPPORTUNITIES AND THREATS

A VISION FOR AAM IN ILLINOIS...



Transforming Illinois into a global leader in advanced air mobility, where cutting-edge technologies seamlessly integrate with existing transportation systems to revolutionize mobility, enhance economic growth, and improve quality of life for all residents.



PROJECT GOALS















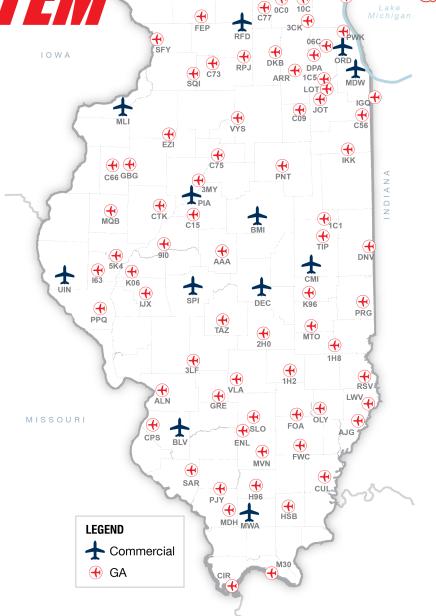
ILLINOIS AIRPORT SYSTEM



12 Commercial Airports

73GA
Airports





WISCONSIN

WISCONSIN **ILLINOIS** ILLINOIS AAM SYSTEM ADVANCED AIR MOI SYSTEM PLAN I O W A 85 Airports in IASP 250+ Heliports and Vertiports MISSOURI H IASP facilities All heliports KENTUCKY



BREAK (LUNGH)





BREAKOUTAGTIUTY

Opportunities and Threats



OPPORTUNITIES AND THREATS



Opportunities

Existing aviation infrastructure

Enhanced mobility

De-carbonization and sustainability initiatives

Threats

Noise

Airspace Density and Congestion

Land Use

Privacy
Battery Waste
Public Acceptance



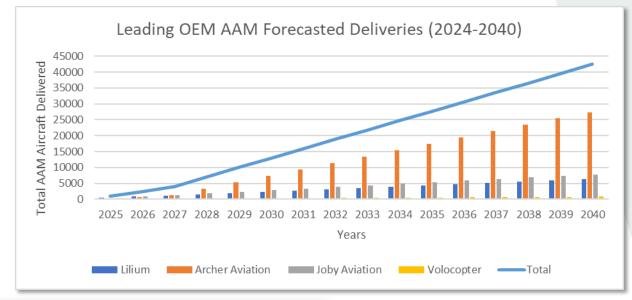
PHASE III ACTIVITY FORECASTS AIRSPACE INTEGRATION

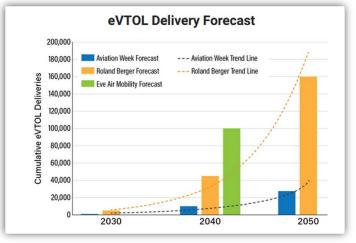
ACTIVITY FORECASTS

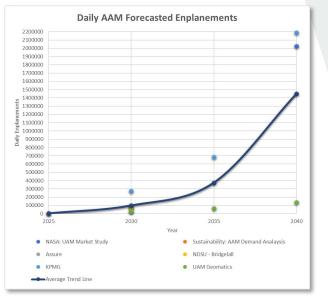


- Research and compile aviation industry forecasts
 - OEM Production Forecasts
 - Aviation Week Forecasts
 - FAA Aerospace Forecasts
 - ACRP Synthesis 130
 - Others



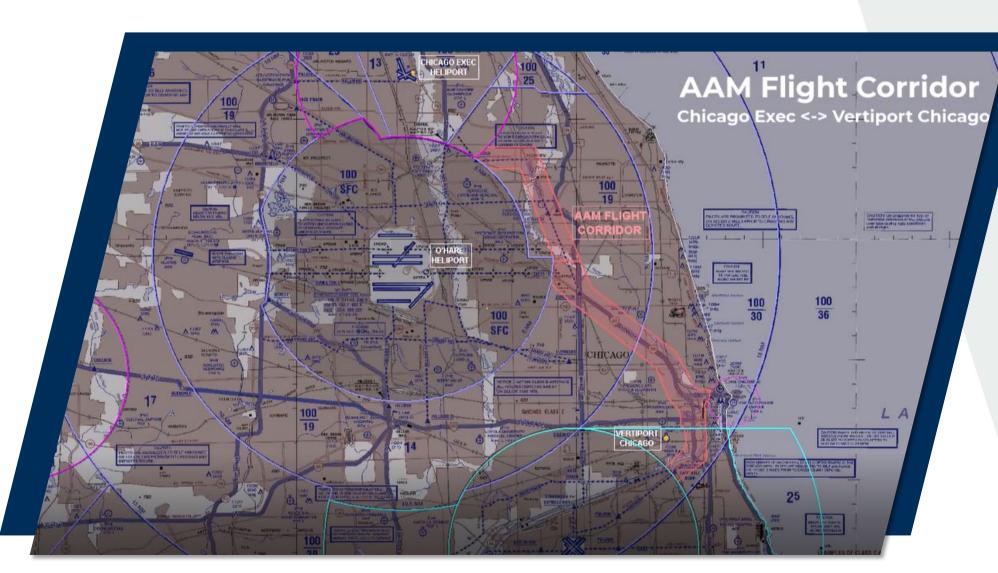


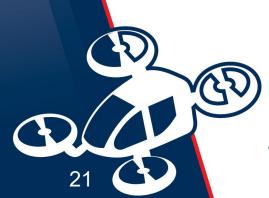




AIRSPACE INTEGRATION

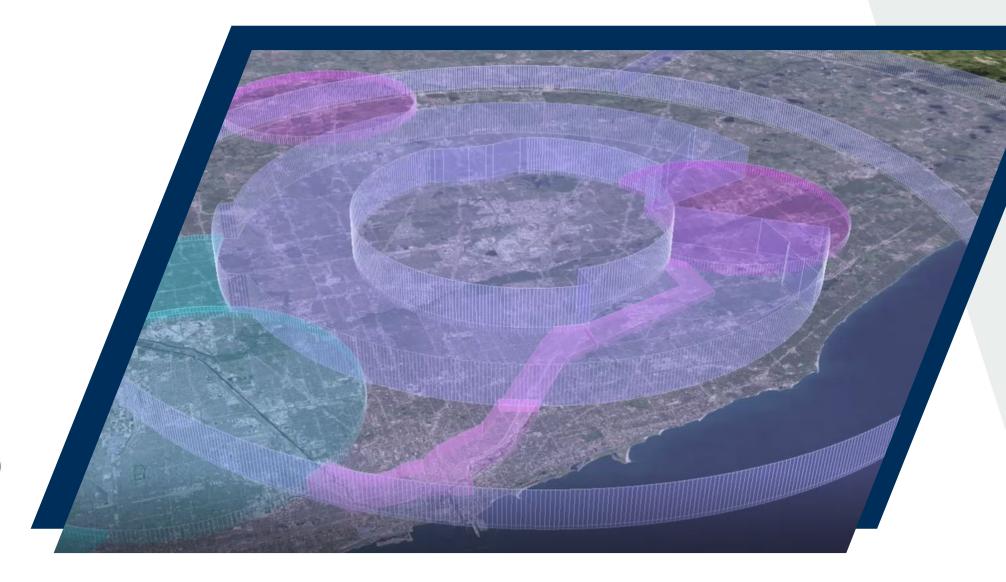






AIRSPACE INTEGRATION







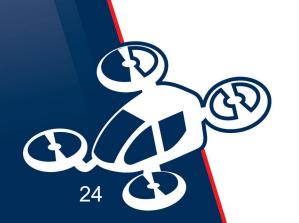
PHASEII

IMPLEMENTATION FRAMEWORK
RECOMMENDATION FRAMEWORK

IMPLEMENTATION FRAMEWORK



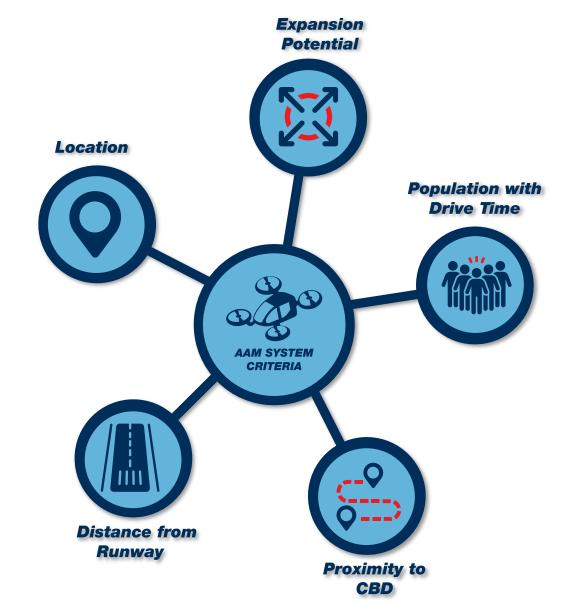
- Evaluate and document future vertiport locations, focusing on existing aviation facilities in Illinois
- Evaluate near-term AAM opportunities
 - Archer Shuttle
 - **OBETA charging stations**
 - Others
- Evaluate non-Chicago opportunities





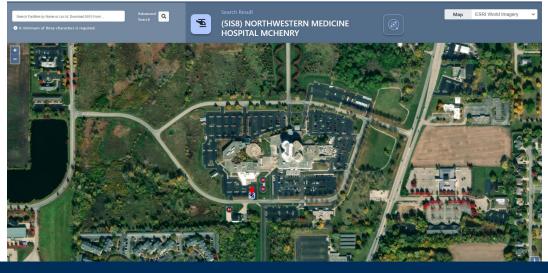
PRELIMINARY AAM SYSTEM CRITERIA











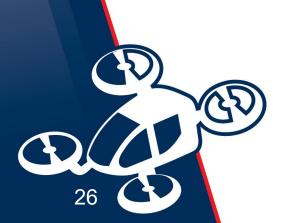
ILLINOIS

ADVANCED AIR MOBILITY SYSTEM PLAN

5188 located at a hospital



IL33 located at a resource center





Leg	end
А	20.7 ac.
В	753 ft.
С	388 ft.
D	745 ft.
Е	19.2 ac.
F	56.8 ac.
G	519 ft.
Н	22.8 ac.
I	1488 ft.
J	331 ft.





AURORA MUNICIPAL AIRPORT

DISTANCE FROM RUNWAY (III)





Legend			
А	20.7 ac.		
В	753 ft.		
С	388 ft.		
D	745 ft.		
Е	19.2 ac.		
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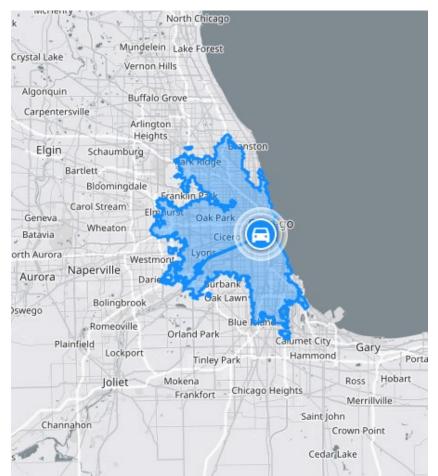


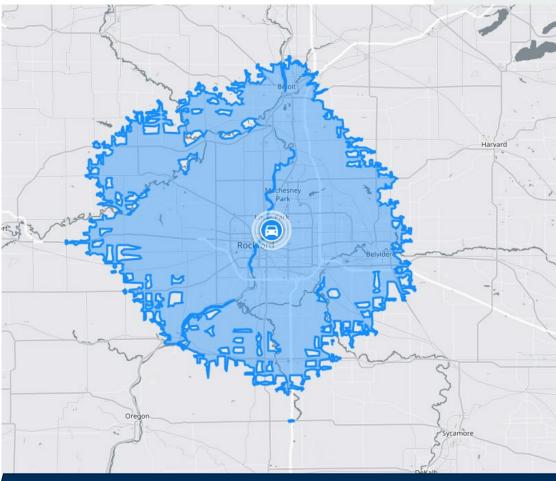
AURORA MUNICIPAL AIRPORT

POPULATION WITHIN A DRIVE TIME









VERTIPORT CHICAGO 295,000+ [30-min.] INGERSOLL HELIPORT 376,000+ (30-min.)



PROXIMITY TO GBD ()







GROUP DISCUSSION



What other criteria should be considered for a data-driven analysis to identify most viable, near-term AAM locations?





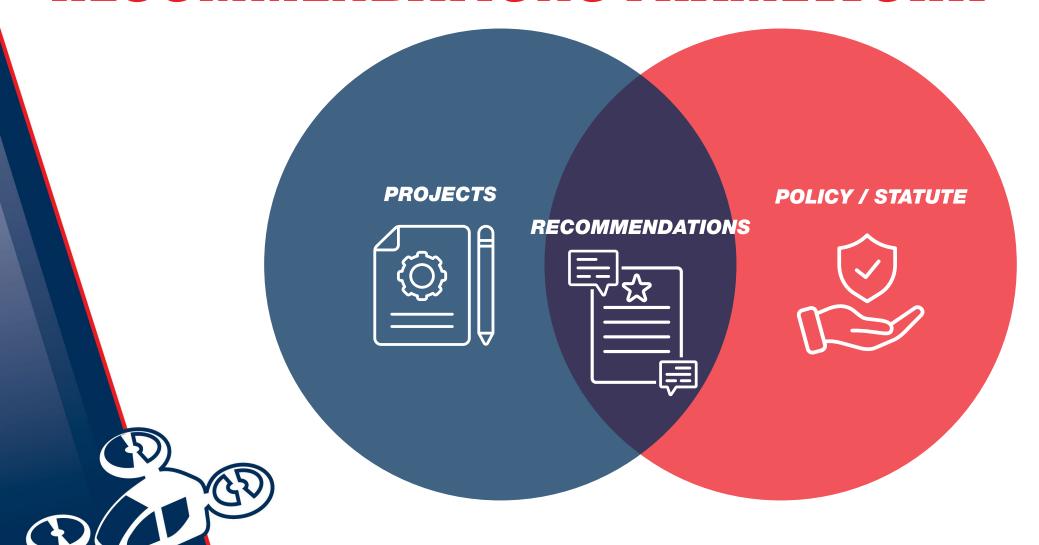
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Recommendations



RECOMMENDATIONS FRAMEWORK





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IL AAM SYSTEM PLAN DRAFT RECOM	MEND!	ATIONS	
WORKFORCE DEVELOPMEN			
DRAFT RECOMMENDATIONS			
Establish equity goals by evaluating the AAM sp investigating training requirements for new employers.		in Illinois and	
Evaluate the equity, social, and workforce impac	cts of AAM on Illinois c	ommunities	£03
ALDODAGE AND GARREY			
AIRSPACE AND SAFETY			
DRAFT RECOMMENDATIONS			
Update Illinois Title 92 related to Aeronautics Pa and support AAM development	art 14 Aviation Safety to	o accommodate	
Increase Illinois' appropriations to ensure adequ	uate funding to IDOT to	support AAM	
Coordinate with local governments and associa procedures related to fire safety account for ele		es to ensure that	10
			23
SYSTEM PLANNING AND A	CCESS		
DRAFT RECOMMENDATIONS			
Conduct an Illinois statewide review of non-avia to support AAM, including, park-and-ride faciliti state-owned assets			
Incorporate AAM into Illinois' Long Range Trans	portation Plan		
Develop IDOT standard operating procedures the developing new vertiports	nat indicate a process f	or designing and	
-			+0)



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TECHNICAL REPORT
EXECUTIVE SUMMARY BROCHURE
SAMPLE VERTIPORT REPORTS
3D AIRSPACE STATIC & DYNAMIC MODELS
PROJECT POSTER

DELIVERABLES





TECHINCAL REPORT



EXECUTIVE SUMMARY
BROCHURE



SAMPLE VERTIPORT
REPORTS



PROJECT POSTER



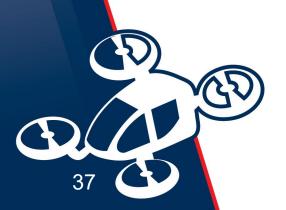
3D AIRSPACE STATIC & DYNAMIC MODELS



WHAT'S NEXT?



- Document feedback obtained from PAC meeting
- Distribute 2nd PAC survey to include a visioning exercise
- Submit draft documentation to PAC for review
- Incorporate PAC feedback into future analyses
- Schedule PAC Meeting #2





THAKYOUL



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