

Project Advisory Committee Meeting #2 September 26, 2024



INTRODUCTIONS



IDOT

PAC MEMBERS

CONSULTANT TEAM

Kimley-Horn

The Aviation Planning Group (APG)







Role of PAC

Project Purpose

Project Recap

Ongoing Tasks

Breakout Activity 1

Lunch

Breakout Activity 2

What's Next?



ROLE OF PAG





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



Offer guidance and input into the future of AAM in Illinois



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

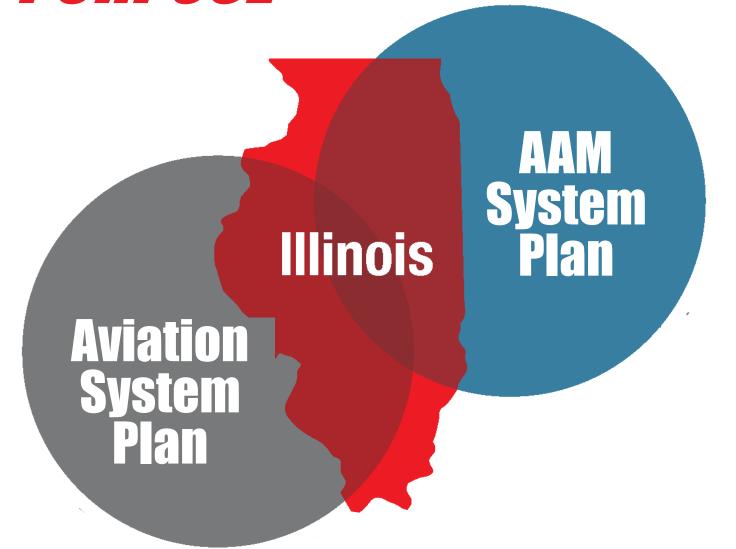






PROJECT PURPOSE





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Progress Recap

Since our last meeting in March....



PROJECT PROCESS





PUBLIC CONSULTATION

SYSTEM VISION AND GOALS

DEFINITION OF SYSTEM

OPPORTUNITIES AND THREATS

HASE II

ACTIVITY FORECASTS

AIRSPACE INTEGRATION

PHASE III

IMPLEMENTATION FRAMEWORK

RECOMMENDATION FRAMEWORK

TECHNICAL REPORT

EXECUTIVE SUMMARY BROCHURE

SAMPLE VERTIPORT REPORTS

3D AIRSPACE STATIC AND DYNAMIC MODELS

PROJECT POSTER

Vision and Goals





ECONOMY

Improve Illinois' economy by providing transportation infrastructure that supports the efficient movement of people and goods.



LIVABILITY

Enhance the quality of life across the state by ensuring that transportation investments advance local goals, provide multimodal options, and preserve the environment.



MOBILITY

Support all modes of transportation to improve accessibility and safety by improving connections.



RESILIENCY

Proactively assess, plan, and invest in the state's transportation system to ensure that our infrastructure is prepared to sustain and recover from extreme events and other disruptions.



STEWARDSHIP

Safeguard existing funding and increase revenues to support system maintenance, modernization, and strategic growth of Illinois' transportation system.



"Transform Illinois into a global leader in advanced air mobility by safely integrating cutting-edge technologies with existing transportation systems and revolutionizing mobility through increased efficiency, enhanced economic growth, and improved quality of life for all residents."



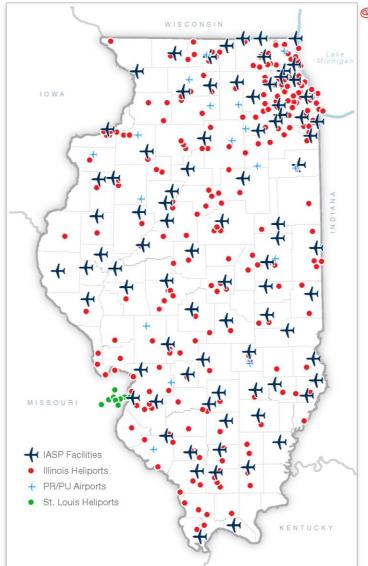
Illinois AAM System

Areas of Focus:

- Chicago Metropolitan
- Greater St. Louis Metropolitan
 - Includes St. Louis heliports within Missouri



Facility Type	Number of Facilities
IASP Facilities	85
Illinois Heliports	241
PR/PU in Illinois*	16
St. Louis Heliports	10
Total	352



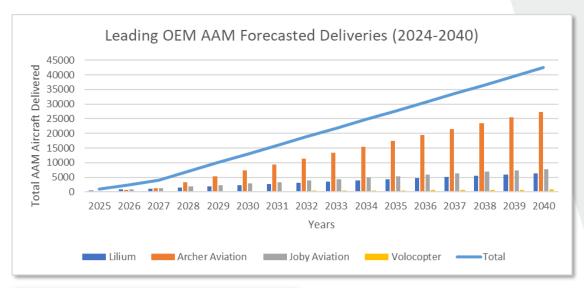


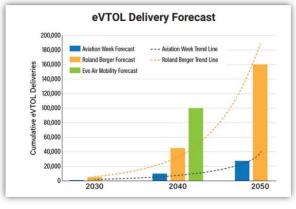
AAM ACTIVITY FORECASTS

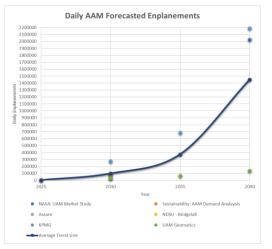


- Use Cases
- Research and compile aviation industry forecasts
 - OEM Production Forecasts
 - Aviation Week Forecasts
 - FAA Aerospace Forecasts
 - ACRP Synthesis 130
 - Others











Ongoing Tasks



AIRSPACE INTEGRATION





PURPOSE

Assess various airspace considerations



METHODOLOGY

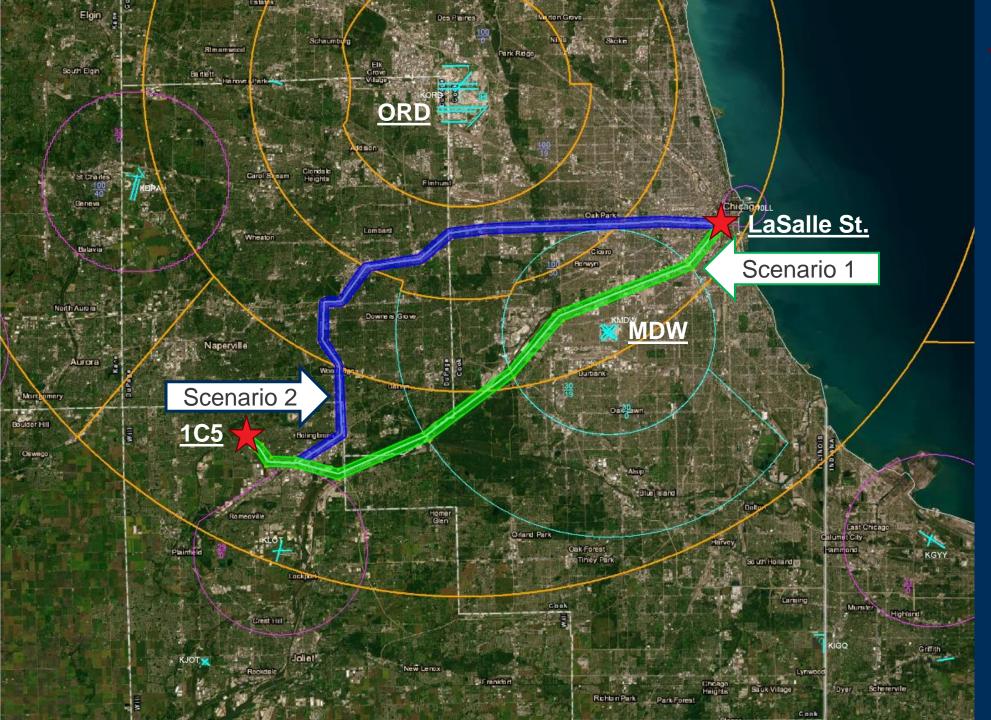
Develop two unique corridors, each with their own drawbacks and benefits



Deliverable

Delivering a 3D Rendered video of local airspace to identify issues







VertiportBolingbrook to Downtown

Scenario 1 (27 NM)

- MDW Proximity
- Follows Water
- Adjacent to Industrial and Commercial

Scenario 2 (32 NM)

- Outside MDW & ORD Airspace
- Follows Highway
- Adjacent to Residential

AIRSPACE INTEGRATION

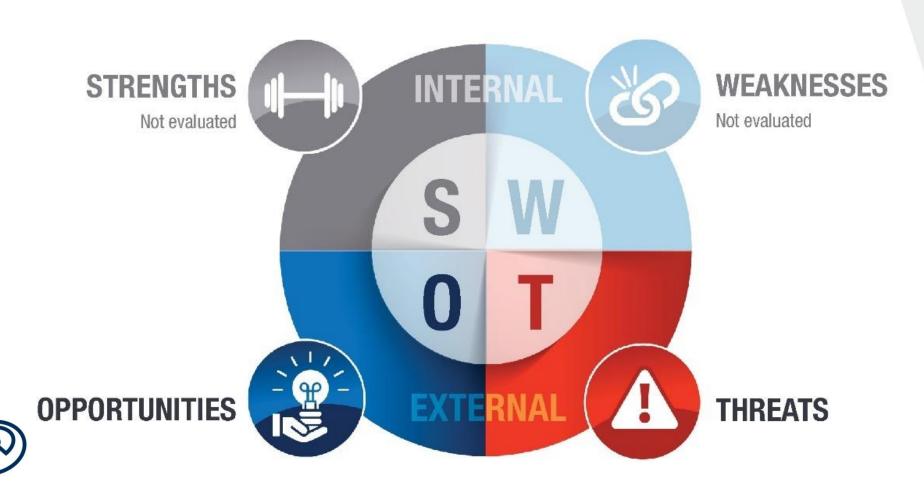






Opportunities and Threats





Opportunities and Threats





OPPORTUNITIES

Existing Aviation Infrastructure

Workforce Development

Partnerships with Academia

De-carbonization and Sustainability Initiatives

Funding and Incentive Programs



THREATS

Incompatible Land Use

Airspace Use

Technological Limitations

Battery Waste

Equitable Access

Reduced Aviation Funding

Lack of Regulatory Guidance

Electrification and Energy Capacity/Scaling

Public Acceptance and Expectations



Illinois AAM Opportunity Example



Existing Aviation Infrastructure

- Established regulatory
 Framework
- Cost Effectiveness
- Reduced Environmental Impact





Illinois AAM Threat Example



INCOMPATIBLE

LAND USE

Incompatible Land Use

- Zoning and Land Availability
- Noise Impacts





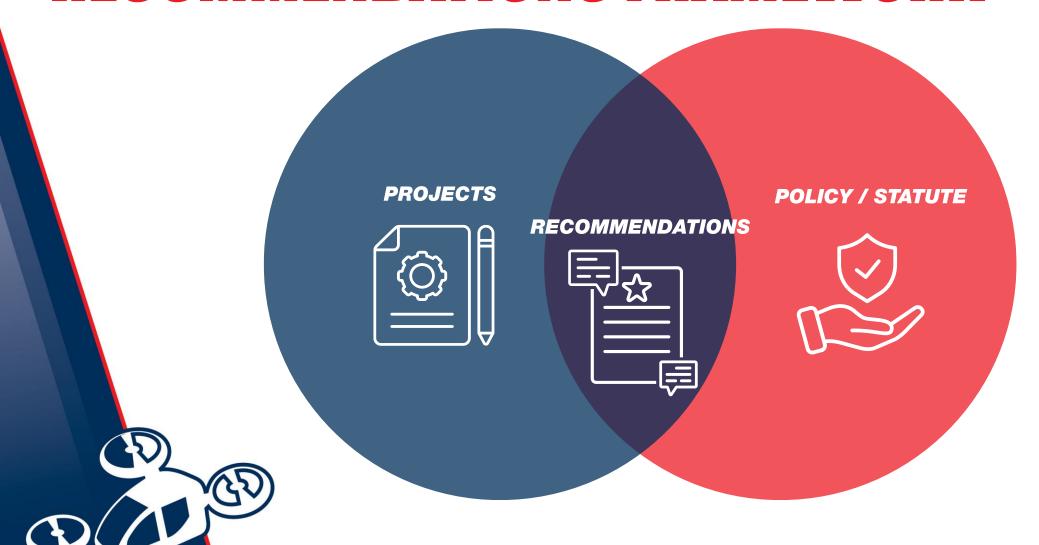
BREAKOUTAGTIUTY

Recommendations



RECOMMENDATIONS FRAMEWORK





RECOMMENDATIONS FRAMEWORK







Airspace and Safety









BREAKOUT AGTIUTY 1

Recommendations





Lunch





BREAKOUT AGTIUTY 2

Recommendations



WHAT'S NEXT?



- Document feedback obtained from PAC meeting 2
- Send Chapter 4 Airspace Integration to PAC for review
- Send Chapter 5 Recommendations to PAC for review
- Develop Executive Summary Brochure
- Develop Sample Vertiport Reports
- Schedule PAC Meeting #3 (Virtual)





THANK YOU!



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