State and District Freight Plans Kickoff

presented to
Illinois State Freight Advisory Council

presented by
IDOT Office of Planning and Programming
Cambridge Systematics and Consultant Team

November 9, 2021
Welcome to the State and District Freight Plans Kickoff Meeting

- Please ensure your microphones are muted
- To share a comment or question, please unmute yourself or type it in the chat box
- Log into www.menti.com (code 93 05 82 9) on your mobile device or computer to answer polling questions
Agenda

» Introductions
» Plan Overview and Approach
» Key Freight Generating Industries
» Vision and Goals
» Discussion and Next Steps
Project Team

IDOT Office of Planning & Programming
- Bob Innis – Project Manager
- Mike Vanderhoof – Planning Bureau Chief
- Jim Durako – Technical Manager

Project Management
- Elaine McKenzie, PhD (CS) – Project Manager
- Lisa Destro (CS) – Deputy PM
- Paula Dowell, PhD (CS) – Principal in Charge

Stakeholder Engagement
- Ann Schneider
- Keith Spencer (RMC)
- Caitlin Bettisworth (RMC)
- District Leads

Consultant Team

Cambridge Systematics
WSP
AECOM
Quética
Ann L. Schneider and Associates LLC

Illinois 2022 State Freight Plan
What does Illinois do well to support freight?

- Conducts a regular freight planning process.
- Overview, making sure all parties are involved and providing input.
- The State recognizes the multi-modal nature of freight and has recognized maritime modes in particular.
- Illinois freight advisory group
- Prioritizing and putting funds behind projects that improve freight mobility
- Electronic permitting
- Recognizes importance of waterways in freight transportation system
- Illinois provides good funding and programming support via federal and state funds.
- Supports local freight planning
<table>
<thead>
<tr>
<th>What does Illinois do well to support freight?</th>
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<tr>
<td><strong>Support for local and regional freight studies. Commitment to CEATE.</strong></td>
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<td><strong>Getting local input into transportation planning</strong></td>
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<td><strong>Providing competitive funding for freight improvements.</strong></td>
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<td><strong>Prioritize freight bottlenecks in plans</strong></td>
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<td><strong>variety of grant/funding programs</strong></td>
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<td><strong>Provides programs such as ReBuild Illinois Capital Investment Grant Programs</strong></td>
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<td><strong>Financial partner for rail freight projects</strong></td>
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<td><strong>ICC grade crossing program</strong></td>
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<td><strong>-prioritizing truck routing-support for intermodal yards incorporating freight in planning documents-state has not done a good job in promoting intermodal connections. Each mode is treated separately</strong></td>
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<td>Port capital funding</td>
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Purpose of the Plan

- Update the Illinois State Freight Plan to meet all federal guidelines
- Develop District Freight Plans and County Freight Profiles
  - Deep dive into local and regional freight needs and opportunities
  - Capture District level input
  - Identify District level freight projects and policies
- Gather freight related data and develop tools to support future planning, policies, and investment at the state and district level
- Conduct a robust stakeholder engagement effort on freight related issues
- Identify and prioritize projects, policies, and strategies to support Illinois’ freight-related goals
Role of ISFAC

» Support development and implementation of the plan
» Providing input into and vetting materials and data
» Validate vision and goals
» Connect with key industry stakeholders that use the system and with decision makers and implementers on the public sector
# Plan Schedule

<table>
<thead>
<tr>
<th>TASK</th>
<th>2021</th>
<th>2022</th>
<th>2023</th>
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<tr>
<td>PROJECT MANAGEMENT</td>
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<td>STAKEHOLDER ENGAGEMENT</td>
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<td>IDOT, ISFAC AND DISTRICT MEETINGS</td>
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<td>EXTERNAL STAKEHOLDER ENGAGEMENT</td>
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<td>REVIEW AND COORDINATION WITH EXISTING PLANS AND DATA ACQUISITION</td>
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<td>STATE OF THE SYSTEM</td>
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<td>STRATEGIC DIRECTION AND NEEDS AND ISSUES</td>
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<td>STRATEGIES PROJECTS AND IMPLEMENTATION</td>
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<td>FINAL PLAN AND REPORT</td>
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Overview of Modal Profiles

Highway
Rail
Aviation
Waterways
Pipeline/HazMat
ITS/Technology
Freight Generators
Multimodal Needs

IL Freight Analysis System (IFAS) Tool

Inventory
Existing and Future Demand
Condition
Safety
Performance
Needs
The FAS tool allows interactive tools supporting:

1. Commodity Flows
2. Freight Flow Forecasting
3. Freight Highway Network Identification
4. Freight Network Needs Assessment
5. Freight Investment Assessment & Prioritization
What could Illinois do better to support freight?

- Better coordination between jurisdictions/agencies
- Broader allocation of funds statewide
- Identifying opportunities to leverage federal funds
- More Truck Parking
- Encouraging better coordination across modes (highway, airport, intermodal yards, etc.)
- Facilitate access to state-collected freight service data at the regional/district level.
- More grant funding for planning and implementation
- With the commodity flow data it would be great if it can be drilled down to the county level for local freight planning.
- -integrating maritime and air cargo modes into planning and promoting those options as part of an integrated freight system in the state. Those modes are critical in international freight-better data is needed on sources of freight and destinations
What could Illinois do better to support freight?

- Have better design standards on the interstate system including the bridge approaches at the diamond interchanges where more than one turning lane is needed for proper queuing of trucks that would prevent backup at the intersections downstream.

- Stronger project prioritization and readiness for federal competitive grants.

- Include low clearances from ICC crossings with the automated permit system.

- Programs to mitigate the negative effects of freight.

- Increase bridge and viaduct funding.

- Freight modeling data for counties and if feasible for specific areas.

- Foster approval of project procurement and engineering review.

- Fully support rail grade separation, rail congestion hot spots elimination.

- Measure regional freight performance by mode. Volume and velocity for each.
What could Illinois do better to support freight?

- Coordination of permitting at state level between agencies.
- Making sure that the "last mile" is considered (local consultation).
- Plans to provide electric charging stations at rest areas for future electric cargo vans and delivery trucks.
- Increase ITS funding - very important to use signal tech for congestion mitigation.
- For metro areas that are multi-state, consider the metro area as a whole.
Freight Generating Industries

Supply Chain Analysis Focus:
- Cereal grains
- Processed foods
- Advanced manufacturing – Machinery (e.g. electric vehicles)
- Clean energy – wind farms
- Pharmaceuticals
- Basic chemicals
- Retail / E-commerce
- Animal feed / ethanol

Supply Chain Examples
- Markets, Commodities, Facilities, Modes
- Trends and Issues
Which industry supply chains are most important to analyze as part of this Plan?

1st: Advanced manufacturing, e.g., machinery, electric vehicles
2nd: Retail / E-commerce
3rd: Cereal grains
4th: Processed foods manufacturing
5th: Clean energy, e.g., wind farms
6th: Basic chemicals
7th: Animal feed / Ethanol
8th: Pharmaceuticals
Are there other industries that should be considered?

- Fuel/Gas/Diesel
- Petroleum, fertilizer, steel
- Bridge beam manufacturing delivery, grain delivery, Industrial/farm equipment delivery
- Petroleum and fertilizers
- Mineral mining and processing
- Mining - sand and gravel for construction
- Cereal grain is specific. Agriculture commodities maybe a better term.
- Renewable energy - wind turbine
- Construction - Horizontal and Vertical
Are there other industries that should be considered?

- Look at products that are not time sensitive as a key to develop new markets
- Recycling and material recovery
- Invasive carp
- Semiconductors?
- Lumber and construction materials such as gypsum, wall boarding, roofing
- All involved in international trade
- Long distance water distribution
Illinois State Freight Plan Vision

The Illinois State Freight Plan will...

- Advance a **safe**, **efficient**, **reliable**, **resilient**, and **sustainable** multi-modal freight system

- Support Illinois’ competitive position as a **global hub**, grow the **economy**, and enhance **equity** and **quality of life** for Illinois residents
Is there anything else you would like to see included or emphasized in the Vision statement?

**STATE FREIGHT PLAN VISION:**

The Illinois State Freight Plan will advance a safe, efficient, reliable, resilient, and sustainable multi-modal freight system that supports Illinois’ competitive position as a global hub, grows the economy, and enhances equity and quality of life for Illinois residents.

- Diverse
- Modal diversity
- Connected and collaborative
- Innovation

- "change "enhances equity" to something more directive along the lines of addressing development inequities and inequities in job access and promote economic development in underinvested areas.

- Freight system (and transportation system as a whole) supports technologies and priorities to address and reduce climate impacts

- Leverage multi state corridors
Illinois State Freight Plan Goals

- Prioritize the development of plans and policies, and deployment of innovative technologies that help achieve the vision of the State Freight Plan

- Drive collaboration and foster partnerships with public agencies and private sector freight stakeholders throughout Illinois

- Make investments and implement policies that improve the safety, resiliency, and reliability of access to the multi-modal freight system

- Implement a data informed approach to freight asset management, preservation of the multi-modal freight system, and stewardship of public funds

- Incorporate socioeconomic and environmental impacts into freight related decision making
Is there anything else you would like to see included or emphasized in the Goals?

- Prioritize the development of plans and policies, and deployment of innovative technologies that help achieve the vision of the State Freight Plan
- Drive collaboration and foster partnerships with public agencies and private sector freight stakeholders throughout Illinois
- Make investments and implement policies that improve the safety, resiliency, and reliability of access to the multi-modal freight system
- Implement a data-informed approach to freight asset management, preservation of the multi-modal freight system, and stewardship of public funds
- Incorporate socioeconomic and environmental impacts into freight-related decision making

- Utilize Illinois’ strategic geographic position in the country to take advantage of all modes
- A tie to being a global hub is not present based on the existing goals
- Leverage multi-state corridors
- Greater emphasis on environmental impacts in project prioritization
- Development of better data on freight origin, movement, and destinations to improve marketing
- Integration of modes to create a seamless multi-modal system
- Improving efficient freight movements
Next Steps

» Continue developing technical material (Winter 2021)
  • Modal profiles, freight network, freight tools

» Conduct SWOT analysis and continue discussion of key freight needs and issues (Late Winter 2022)

» Deploy a stakeholder survey (Spring 2022)

» Next ISFAC meeting
  • Reviewing technical material
  • SWOT analysis & trends discussion
Thank you