



Illinois 2022
State Freight Plan

State and District Freight Plans Kickoff

presented to

Illinois State Freight Advisory Council

presented by

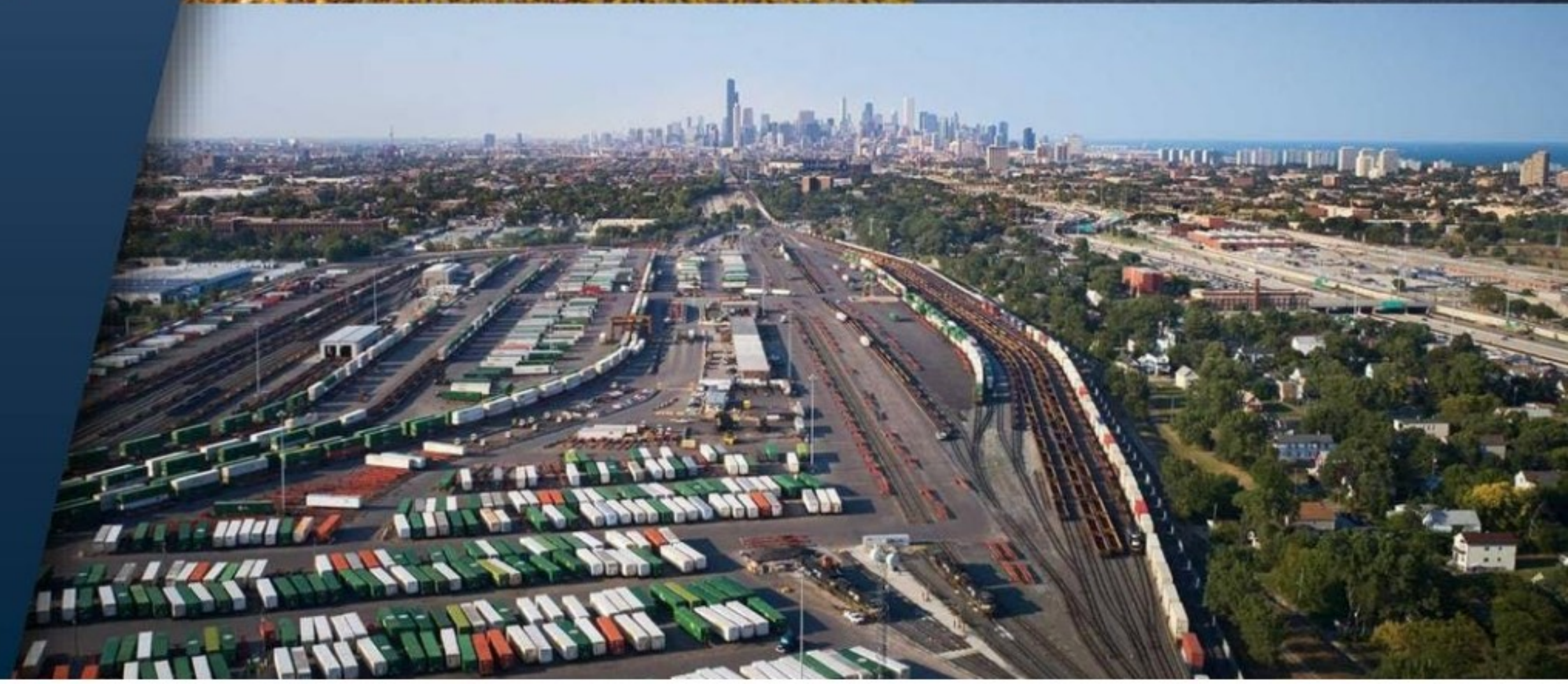
IDOT Office of Planning and Programming

Cambridge Systematics and Consultant Team

November 9, 2021



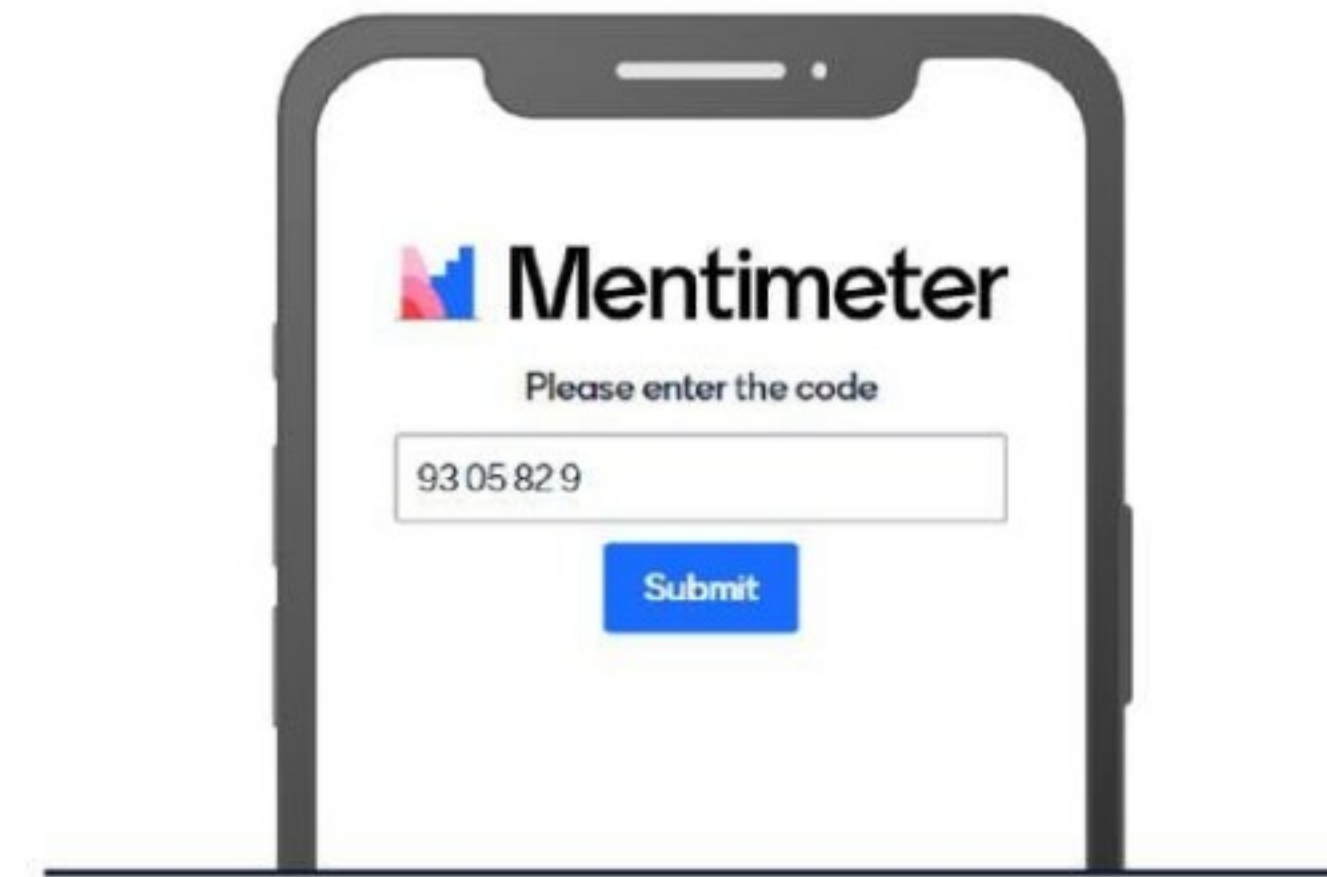
Illinois Department
of Transportation



Welcome to the State and District Freight Plans Kickoff Meeting

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- >> To share a comment or question, please unmute yourself or type it in the chat box
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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



R.M. CHIN & ASSOCIATES, INC.



Ann L. Schneider
and Associates LLC

What does Illinois do well to support freight?

Conducts a regular freight planning process.

Illinois freight advisory group

Recognizes importance of waterways in freight transportation system

Overview...making sure all parties are involved and providing input.

Prioritizing and putting funds behind projects that improve freight mobility

Illinois provides good Funding and Programming support via federal and state funds.

The State recognizes the multi-modal nature of freight and has recognized maritime modes in particular.

Electronic permitting

Supports local freight planning

What does Illinois do well to support freight?

Support for local and regional freight studies. Commitment to CEATE.

Prioritize freight bottlenecks in plans

Financial partner for rail freight projects

Getting local input into transportation planning

variety of grant/funding programs

I CC grade crossing program

Providing competitive funding for freight improvements.

Provides programs such as ReBuild Illinois Capital Investment Grant Programs

-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

What does Illinois do well to support freight?

Port capital funding

Freight Economic Development program

Support of truck corridors, truck parking

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

	2021		2022				2023
TASK	SUMMER	FALL	WINTER	SPRING	SUMMER	FALL	WINTER
1. PROJECT MANAGEMENT							
2. STAKEHOLDER ENGAGEMENT							
2A. IDOT, ISFAC AND DISTRICT MEETINGS							
2B. EXTERNAL STAKEHOLDER ENGAGEMENT							
3. REVIEW AND COORDINATION WITH EXISTING PLANS AND DATA ACQUISITION							
4. STATE OF THE SYSTEM							
5. STRATEGIC DIRECTION AND NEEDS AND ISSUES							
6. STRATEGIES PROJECTS AND IMPLEMENTATION							
7. FINAL PLAN AND REPORT							

Overview of Modal Profiles

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



Inventory



Existing and Future
Demand



Condition



Safety



Performance



Needs



IL Freight Analysis System (IFAS) Tool

Illinois Freight Analysis System (IFAS) Tool

» 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

Measure regional freight performance by mode. Volume and velocity for each

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.

Faster approval of project procurement and engineering review

Fully support rail grade separation, rail congestion hot spots elimination

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).

For metro areas that are multi-state, consider the metro area as a whole.

Increase ITS funding - very important to use signal tech for congestion mitigation.

Plans to provide electric charging stations at rest areas for future electric cargo vans and delivery trucks

Freight Generating Industries

Supply Chain Analysis Focus:

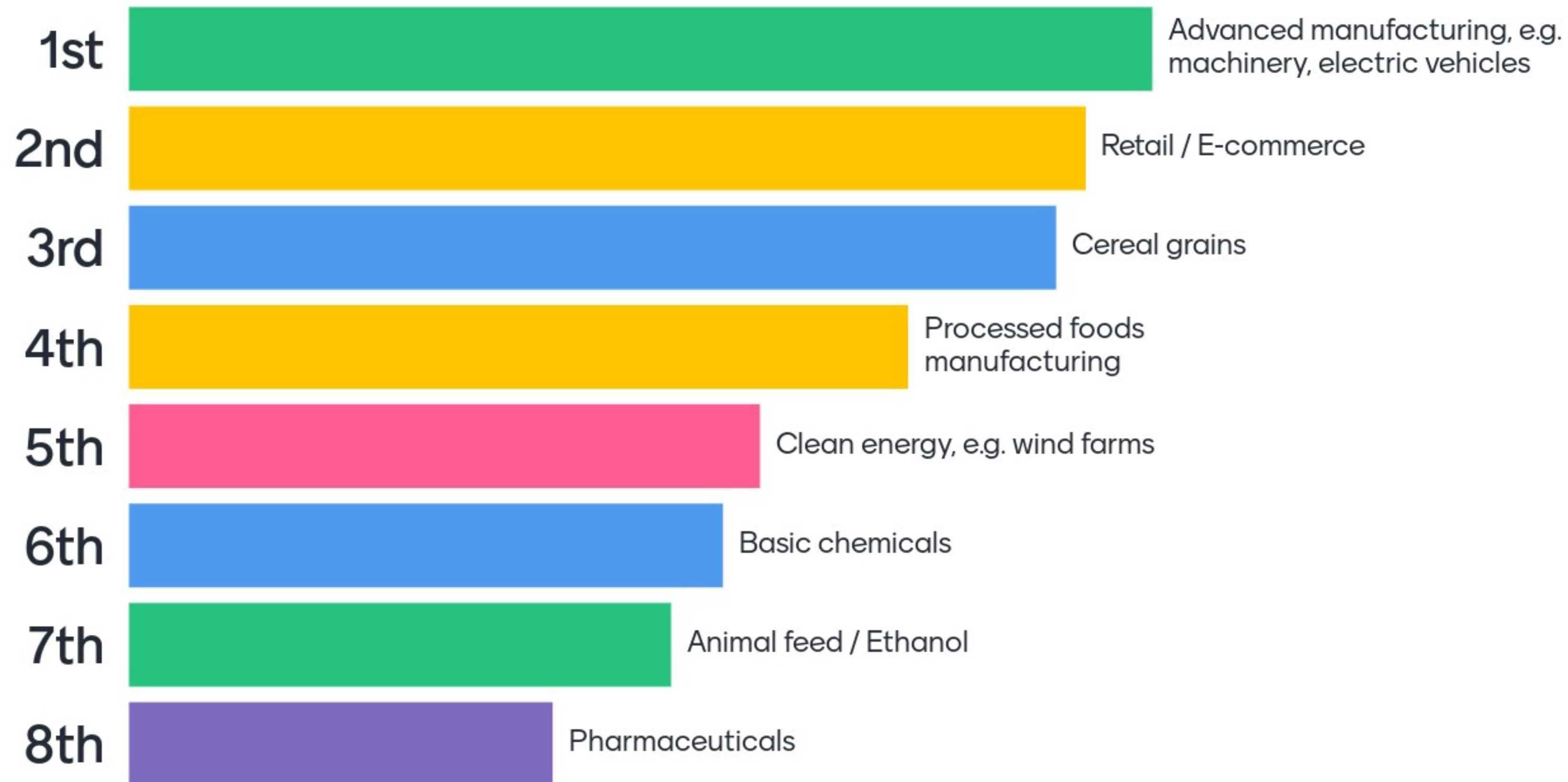
- Cereal grains
- Processed foods
- Advanced manufacturing – Machinery (e.g. electric vehicles)
- Clean energy – wind farms
- Pharmaceuticals
- Basic chemicals
- Retail / E-commerce
- Animal feed /ethanol

Supply Chain Examples

Markets, Commodities,
Facilities, Modes

Trends and Issues

Which industry supply chains are most important to analyze as part of this Plan?



Are there other industries that should be considered?

Fuel/Gas/Diesel

Petroleum and fertilizers

Cereal grain is specific. Agriculture commodities maybe a better term.

Petroleum, fertilizer, steel

Mineral mining and processing

renewable energy - wind turbine

bridge beam manufacturing delivery,
grain delivery, Industrial/farm
equipment delivery

Mining - sand and gravel for
construction

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

All involved in international trade

long distance water distribution

Recycling and material recovery

invasive carp

Semiconductors?

Lumber and construction materials such as gypsum, wall boarding, roofing

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

Forward looking

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?

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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

Greater emphasis on environmental impacts in project prioritization

A tie to being a global hub is not present based on the existing goals

Leverage multi state corridors

development of better data on freight origin, movement and destinations to improve marketing-increase 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

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Thank you