



Illinois State Freight Advisory Council

January 18, 2023



Welcome to ISFAC!

- Executive Report and Q&A
- Around the Room
- Federal and State Legislative Update
- City of Chicago Fleet Electrification Program
- Illinois State Freight Plan Discussion
- Illinois Competitive Freight Program Discussion



Executive Report and Q&A

Secretary Osman,
Illinois Department of Transportation



Around the Room

- Name
- Organization
- Updates for the Council

Federal and State Legislative Update

Matt McAnarney
Legislative Affairs,
Illinois Department of
Transportation



City of Chicago Fleet Electrification Program

Samantha Bingham,
Clean Transportation Program Director,
Chicago Department of Transportation





Fleet Electrification Programs

Illinois State Freight Advisory Council
January 18, 2023



CHICAGO'S CLIMATE ACTION STRATEGIES

3.3.A Enable electric freight loading docks at commercial and industrial buildings, addressing new buildings by 2025 and existing buildings by 2030

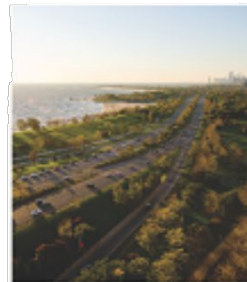
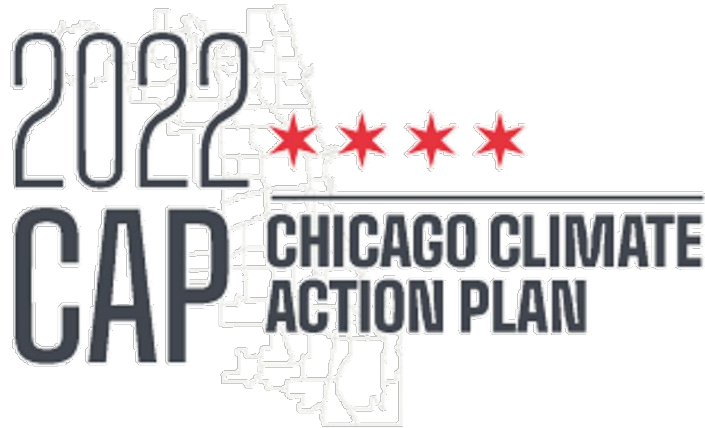
3.3.B Support equitable electrification of ride-hail and taxi fleets by 2030

3.3.C Enable 100% electrification of delivery fleets by 2035

3.3.D Electrify 100% of the City's fleet by 2035

3.3.E Achieve zero-emission transit fleets across Chicagoland by 2040

4.2.F Enable 2,500 new public passenger EV charging stations by 2035



City of Chicago

Strategic Plan for Transportation

Mayor Lori E. Lightfoot
CDOT Commissioner Gia Biagi

ELECTRIFICATION STRATEGIES FROM CDOT'S 2021 STRATEGIC PLAN

Reduce emissions from CDOT's fleet

Increase availability of public charging
stations for electric vehicles

Relaunch Chicago's Drive Clean Truck
Program and expand efforts to
reduce emissions from truck fleets

Encourage waterway operators to use
lower-carbon fuels to reduce marine
engine emissions

SUPPORT FOR COMMERCIAL FLEET ELECTRIFICATION

Delivering Zero Emissions Communities Voluntary Fleet Program

- Voluntary program incentivizing corporate partners operating fleets in the city of Chicago and neighboring communities to deploy electric vehicles
- Goal of 10 corporate fleet owners in inaugural year
- Commit to % fleet electrification by 2030
- **Seeking participants for 2023 & input on program**

Drive Clean Chicago – Drive Clean Truck Program

- Historically a point-of-sale incentive for Class 2-8 commercial vehicles
- Exploring transition to charging infrastructure incentive
 - Compliments IRA, IJJA and CEJA vehicle incentive programs
- **Seeking input from commercial fleet operators**



CHICAGO

CHICAGO COMMERCIAL ELECTRIC VEHICLE READINESS GUIDELINES

www.DriveElectricChicago.org



EV READINESS PLANNING OVERVIEW

7 Smart Steps to Plan for MDI/HD Commercial Electrification

ASSESS NEEDS

STEP 1: UNDERSTAND THE FLEET

- Vehicle numbers and classification
- Daily miles traveled
- Duty cycles



STEP 2: DETERMINE YOUR CHARGING REGIME

- Charging location (depot, loading docks, etc.)
- Level of charging capabilities

STEP 3: INCORPORATE EV READINESS

Property layout:

- Number of electric truck parking places
- Number of electrified docks
- Plans for on-site electricity generation
- Plans for on-site battery storage

Building characteristics:

- Building power needs

Additional power needs:

- Workplace and public charging stations for light-duty vehicles
- Outside lighting
- Proposed locations for meters, raceways, and switches



PLAN EV INFRASTRUCTURE

STEP 4: ENGAGE WITH COMED

- Inform them of your plans
- Determine the amount of power available to the site without upgrades
- Determine the distance from the charging location to the service line or substation
- Indicate the planned charging cycle/charging times (if known)
- Discuss potential load management options
- Inquire about any special EV or commercial utility rates that are available
- Evaluate load sharing options

STEP 5: PLAN FOR IMPROVED EFFICIENCIES

- On-site battery storage
- On-site electricity generation
- Smart charging

FINALIZE AND PERMIT

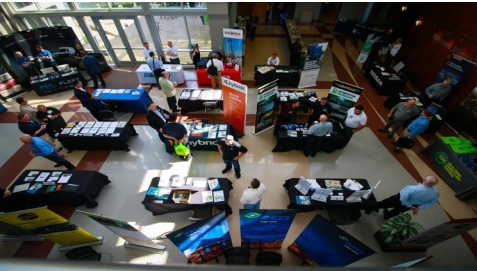
STEP 6: ESTIMATE YOUR PEAK LOAD REQUIREMENT

- Electrified loading docks and parking spots
- Normal building load
- Any onsite generation offsets
- Any onsite storage offsets



STEP 7: PERMITTING

- Ensure the project meets the Chicago Electrical Code
- Apply for an electrical permit
- Determine eligibility for special or expediated permit programs



GREEN DRIVES

CONFERENCE & EXPO

May 12, 2023
Naperville, IL
August 11, 2023
Edwardsville, IL

il-act.org

THANK YOU



Samantha Bingham

Clean Transportation Program Director, Chicago Dept. of Transportation
Coordinator, Illinois Alliance for Clean Transportation

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DriveElectricChicago.ORG
IL-ACT.ORG





Illinois 2023
State Freight Plan

Illinois Statewide Freight Plan Update

presented to

Illinois State Freight Advisory Council

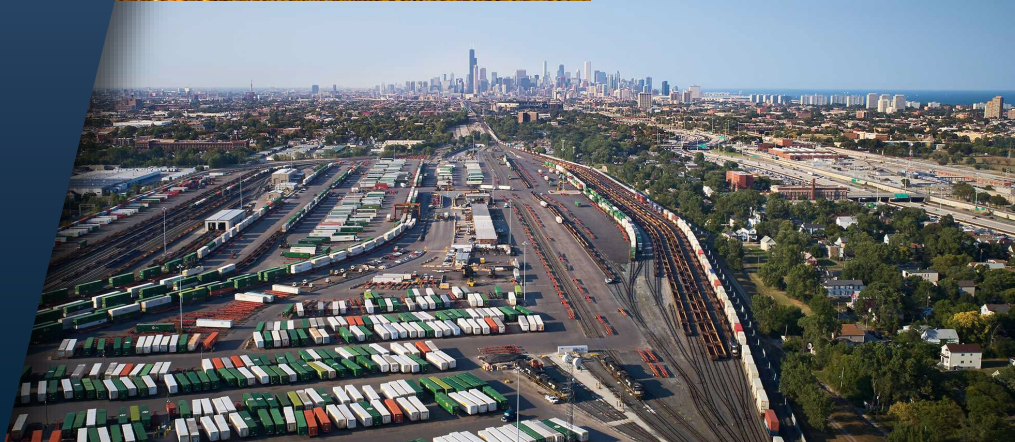
presented by

IDOT Freight Planning Team

1/18/23



Illinois Department
of Transportation



Illinois State Freight Plan Highlights



Multi-modal state freight vision and goals



Case studies of key industries



In-depth inventories of the freight system



Spatial analysis of freight, communities, and the environment



Freight trends, needs and issues



Strategies actions, and performance measures



Freight investment plan

Stakeholder Outreach

- » Conducted over **30 Stakeholder Meetings**
- » Engaged over **150 Stakeholders**
- » Traveled over **3,000 miles** throughout Illinois to reach stakeholders where they are and experience/view some of our Freight challenges
- » Next step: re-engage the Districts to develop the District Freight Plans



Plan Recommendations

- » Freight Strategies & Actions - align with plan goals, needs and the CFP goals
- » Freight Performance Measure Dashboard - use readily available data to track freight metrics over time

Freight Safety

- Crashes, fatalities, injuries

Freight Reliability

- Truck Travel Time Reliability (TTTR)

Freight System Condition

- Bridge condition
- Pavement condition

Intermodal Capacity

- Volume and value of goods by mode

Freight System Operational Sufficiency

- Bridges/structures with limitations

Truck Parking

- Crashes related to parked trucks
- Capacity

Environmental Impact of Freight

- Greenhouse Gas Emissions
- EV infrastructure deployment

Illinois State Freight Plan - Next Steps



- » Select projects for the CFP to develop the Freight Investment Plan
- » Finalize plan components and recommendations
- » Internal IDOT review of State Freight Plan
- » Submit State Freight Plan to FHWA
- » Draft District Freight Plans & County Profiles

Next Steps for ISFAC

Action Item:

- Build upon the Freight Plan to develop and implement a forward-facing work plan for ISFAC

Next Steps for ISFAC

Prioritizing multimodal freight infrastructure needs

Developing freight-related policies and programs

Coordinating industry-led updates on emerging freight technologies

Encouraging local (MPO, RPO, etc.) agencies to engage on community level freight issues

Supporting IDOT in considering equity and environmental justice implications of freight

Supporting IDOT in capital programs for freight (i.e., CFP, modal programs)

Identifying freight workforce needs and developing strategies to address

Encouraging freight stakeholders to adopt best practices in cybersecurity

Promoting data- and technology training programs related to freight



Illinois 2023
State Freight Plan

Illinois Competitive Freight Program Update

presented to

Illinois State Freight Advisory Council

presented by

*Mike Vanderhoof, IDOT Office of Planning and
Programming*

1/18/2023



Illinois Department
of Transportation



Illinois Competitive Freight Program Overview



» 2023 Competitive Freight Program

- Fiscally Constrained Freight Investment Plan
- Federal funding - Infrastructure Investment and Jobs Act (IIJA)

» Funding

- \$200 million (\$49.6 million per year for FY23-FY26)
- 20% non-federal match required (10% on Interstates)
- Up to 30% - intermodal (rail, water) projects

Comparison between 2018 and 2023 CFP



» 2018 Competitive Freight Program

- 46 applications requesting \$600 million in federal funds
- 23 projects funded for \$245 million federal funding
- Leveraged \$57 million in local match

» 2023 Competitive Freight Program

- 35 applications requesting \$405 million in federal funds

2022 CFP Project Eligibility



Local, state or federal governmental agencies are eligible



Highway projects must be on the Primary Highway Freight System or Critical Urban/Rural Freight Corridors

- IDOT can re-designate corridors to ensure eligibility



Intermodal projects can be on a public or private freight rail or water facility



Phase I, Phase II, Land Acquisition, or Construction Funding



2023 CFP Goal Areas

2023 CFP Highway Goal Areas

Goal Area	Qualitative Justification	Quantitative Measures
1. Safety	1a. Describe how the project enhances the safety of the Illinois highway system	1b. Truck Involved Crashes 1c. Truck Involved Crash Rate 1d. Truck Involved Severe Injury or Fatal Crash Rate
2. Reliability	2a. Describe how the project enhances the reliability of the Illinois highway system	2b. Truck Bottleneck Locations 2c. User Cost of Congestion 2d. At-Grade Highway-Related Crossings (Truck Hours of Delay per Day)
3. System Enhancements	3a. Describe how the project enhances the condition and/or technology of the Illinois highway system	3b. Bridge Condition 3c. Pavement Condition 3d. Traveler Information Needs 3e. Traffic Incident Management Needs
4. Operational Needs	4a. Describe how the project addresses operational needs on the Illinois highway system	4b. Bridge Weight Restrictions 4c. Vertical Clearance Limitations 4d. Oversize/Overweight (OSOW) Restrictions 4e. Inadequate Travel Lanes 4f. Inadequate Shoulder Lanes
5. Truck Parking	5a. Describe how the project improves truck parking on the Illinois highway system.	5b. Truck Parking Demand-to-Capacity Ratio 5c. Fatigue-related Crashes 5d. Crashes Involving Parked Trucks

2023 CFP Intermodal Goal Areas

Goal Area	Qualitative Justification	Quantitative Measures
1. Safety	1a. Describe how the project contributes to improving the safety of the Illinois freight network, including roadways, rail crossings, and rail and marine freight facilities.	1b. Reduction in Truck VMT 1c. Reduction in fatalities, injury, and other crashes 1d. Reduction in hazmat environmental risks
2. Modal Connectivity	2a. Describe how the project contributes to improving the capacity for modal connectivity within the Illinois intermodal freight system.	2b. Intermodal (rail-truck, water-truck, water-rail) connections added to the network 2c. Increased intermodal volume
3. Mode Shift	3a. Describe how the project enhances the condition and/or technology of the Illinois highway system	3b. Change in truck equivalencies 3c. Technology Enhancements Supporting Emissions Reductions at Freight Facilities 3c. Avoided truck volumes at nearby sensitive intersections

2023 CFP Crosscutting Measures

Goal Area 1 – Applicable Partnerships

- Based on the number and nature of material partnerships in the project

Goal Area 2 – Project Readiness

- Based on the whether funding requested aligns with project's current phase.
- Incorporates planning work, Phase I, Phase II, right-of-way acquisition, Railroad approvals, and NEPA progress

Goal Area 3 – Equity and Environmental Justice Impacts

- All applicants must describe the impacts the project will have on the surrounding communities
- Points may be awarded if project mitigates freight impacts and is located in:
 - A Justice40 Transportation Disadvantaged Community; and/or
 - An Illinois EPA Environmental Justice Area; and/or
 - A DCEO Opportunity Zone.



2023 CFP Program Statistics

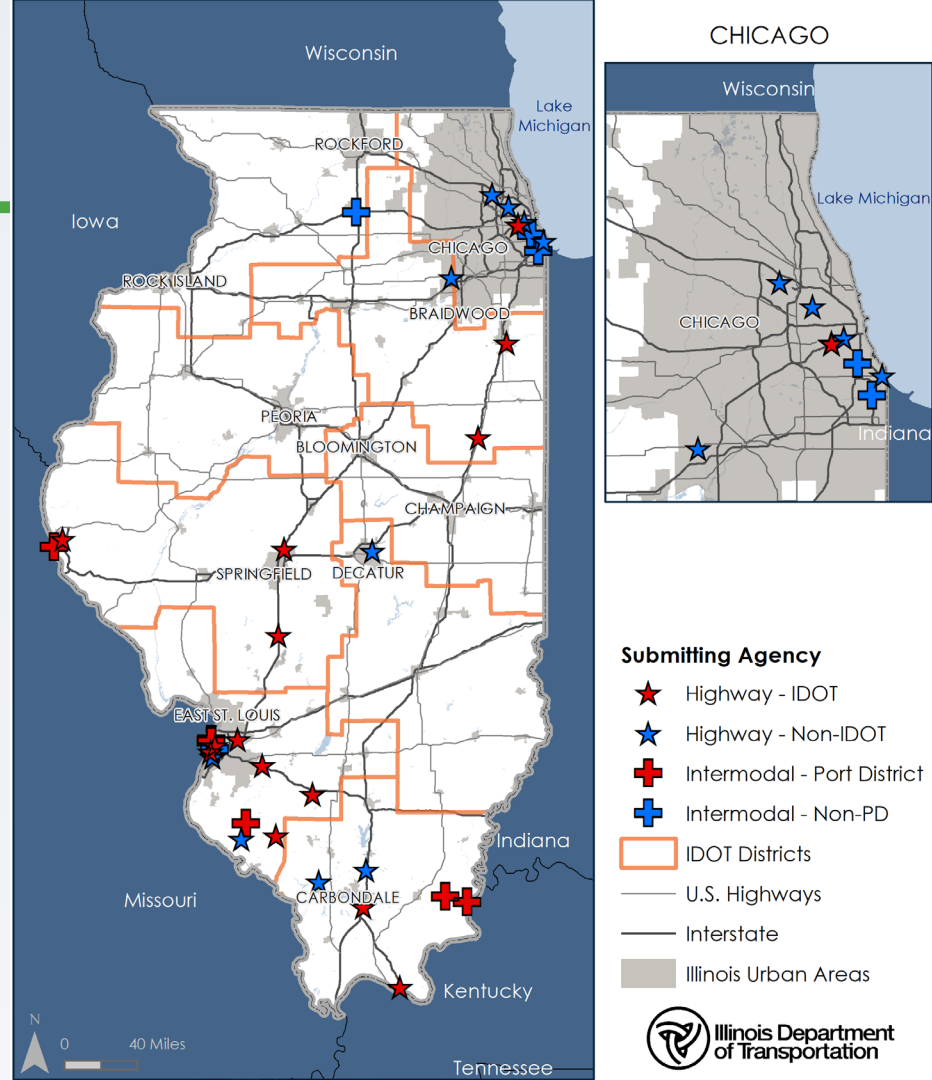
2023 CFP Applications

» 35 Applications Submitted

- 25 Highway
- 10 Intermodal

» Applications by District:

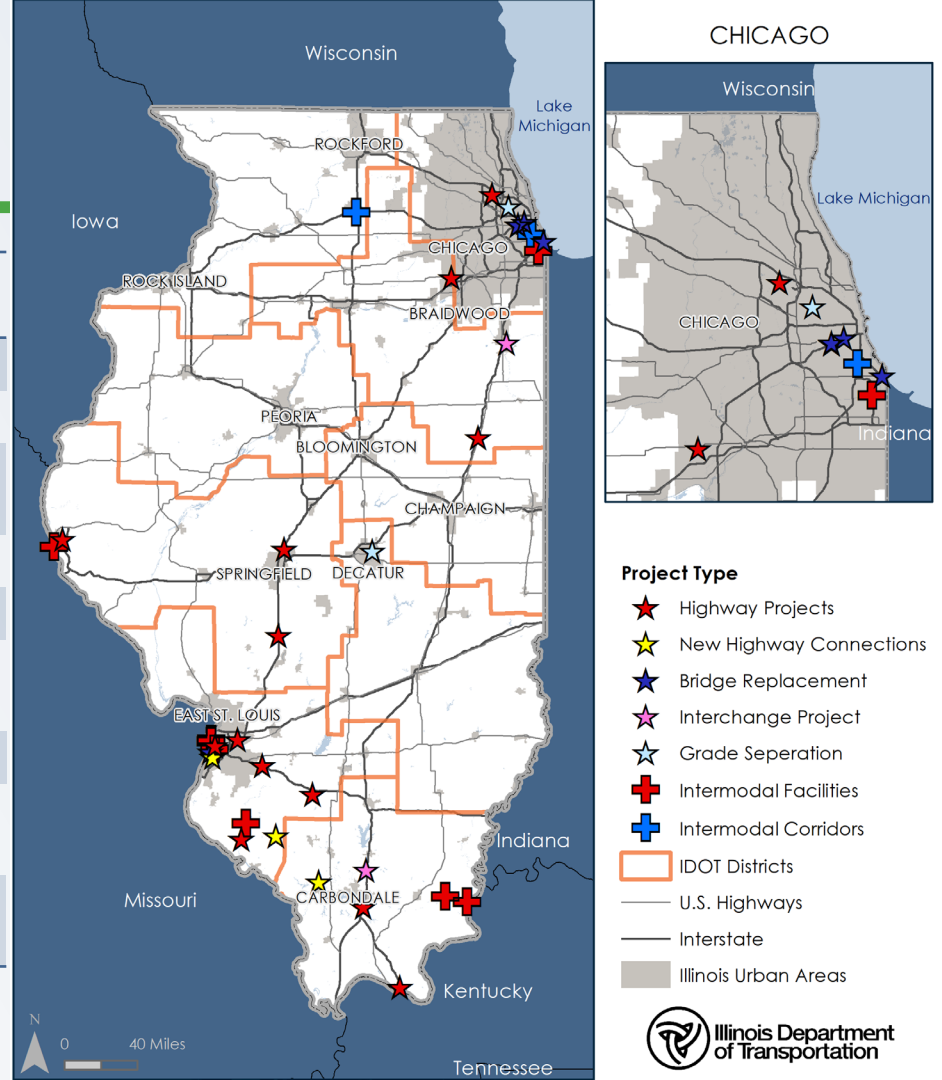
District	Highway (IDOT)	Highway (Non-IDOT)	Intermodal (Port Dist.)	Intermodal (Non-Port Dist.)
1	1	5		2
2				1
3	2	1		
4				
5				
6	3		1	
7		1		
8	6	2	3	1
9	2	2	2	



- Submitting Agency**
- ★ Highway - IDOT
 - ★ Highway - Non-IDOT
 - ✚ Intermodal - Port District
 - ✚ Intermodal - Non-PD
 - ▭ IDOT Districts
 - U.S. Highways
 - Interstate
 - Illinois Urban Areas

2023 CFP Applications by Type of Project

Project Type	Number of Applications
Highway	
Highway Projects	13
New Highway Connections	3
Bridge Replacements	4
Interchange Projects	3
Highway-Rail Grade Separations	2
Intermodal	
Intermodal Facility Improvements	8
Intermodal Corridor Projects	2



- Project Type**
- ★ Highway Projects
 - ★ New Highway Connections
 - ★ Bridge Replacement
 - ★ Interchange Project
 - ★ Grade Separation
 - ✚ Intermodal Facilities
 - ✚ Intermodal Corridors
 - ▭ IDOT Districts
 - U.S. Highways
 - Interstate
 - Illinois Urban Areas

Project List: Highway – IDOT Projects

Project Name	Applicant Type	Project Type	District
Coalfield Safety Rest Area	IDOT	Highway Projects	6
Fort Massac Safety Rest Area Truck Parking	IDOT	Highway Projects	9
I-55/I-70	IDOT	Highway Projects	8
I-57 at IL 17 Interchange Reconstruction	IDOT	Interchange Project	3
I-64 Rest Area Truck Parking Expansion	IDOT	Highway Projects	8
IL 127	IDOT	Highway Projects	8
IL 13/217 Southwest Illinois Connector	IDOT	New Highway Connections	8
IL 203 Profile Raise Phase I	IDOT	Highway Projects	8
ILL 104 (Broadway St)	IDOT	Highway Projects	6
Illinois Route 50 (Cicero Avenue) @ I55	IDOT	Interchange Project	1
Interstate 57 Freight and Safety Project	IDOT	Highway Projects	9
Martin Luther King Jr. Bridge Replacement Phase I	IDOT	Bridge Replacement	8
Railsplitter Safety Rest Area	IDOT	Highway Projects	6
Rest Area Improvements	IDOT	Highway Projects	3

Project List: Highway – Non-IDOT Projects

Project Name	Applicant Type	Project Type	District
95th St Bridge over the Calumet River	Local Agency	Bridge Replacement	1
Broad Street Repair	Local Agency	Highway Projects	8
Brush College Road Faries Parkway Grade Separation Project	Local Agency	Grade Separation	7
California Ave Bridge over the Chicago Sanitary and Ship Canal	Local Agency	Bridge Replacement	1
Cicero Ave Bridge over the Chicago Sanitary and Ship Canal	Local Agency	Bridge Replacement	1
Grand Gateway Project	Local Agency	Grade Separation	1
IL Rte. 3 Diversion Loop & Grade Separation	Local Agency	New Highway Connections	8
Pratt Boulevard	Local Agency	Highway Projects	1
Ridge Road in Kendall County	County	Highway Projects	3
Southwest Connector Highway	Local Agency	New Highway Connections	9
West Frankfort - I57 and IL149 Interchange Modification	Local Agency	Interchange Project	9

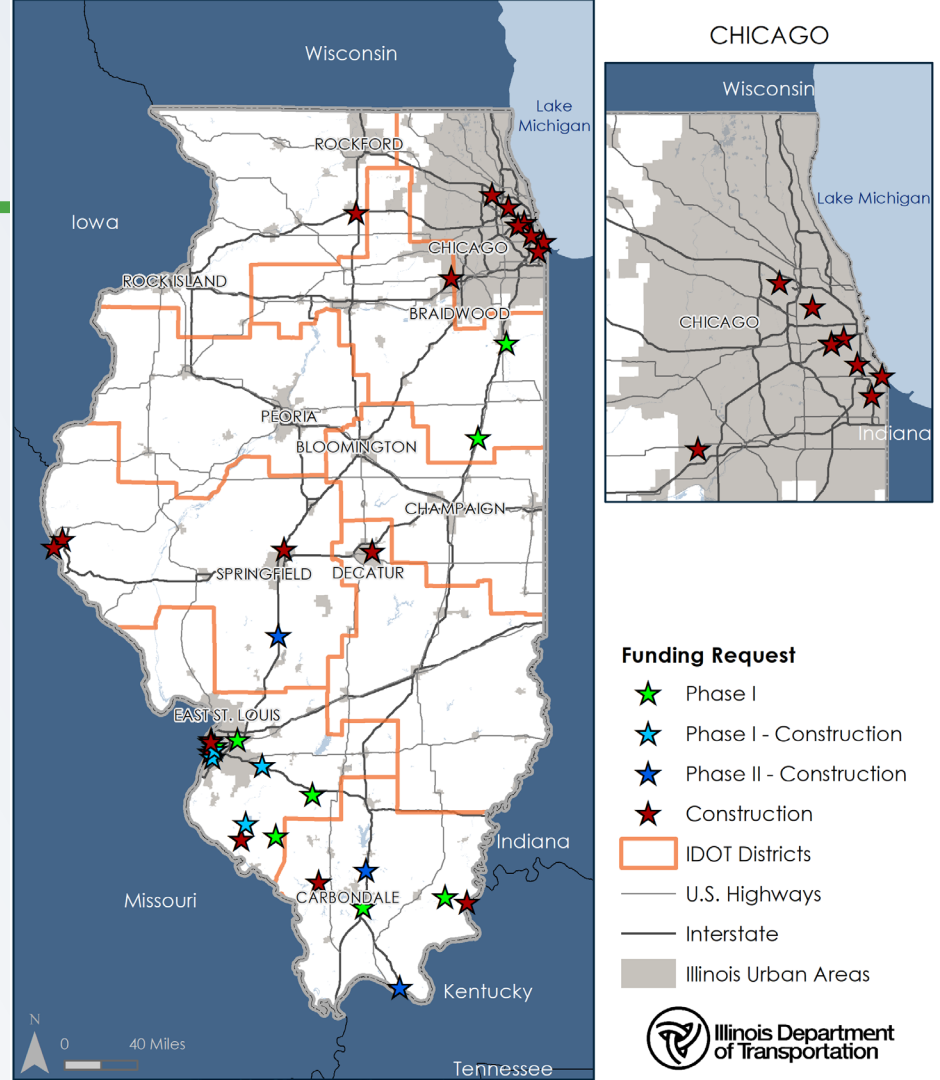
Project List: Intermodal

Project Name	Applicant Type	Project Type	District
America's Central Port District Granite City Harbor Dock Improvements Project - Phase 2	Port District	Intermodal Facilities	8
America's Central Port District Granite City Industrial District Roadway Improvement Project - Phase 3	Port District	Intermodal Facilities	8
Butler Drive/Stony Island Avenue Reconstruction Project	County	Intermodal Corridors	1
Congestion Reduction and Safety Improvements at KRPD #2	Port District	Intermodal Facilities	8
Illinois Transfer -- 3rd Main Railroad Track between TRRA Madison Yard and Willows Interlocking East St. Louis	Private	Intermodal Facilities	8
Mid-America Port Intermodal Project	Port District	Intermodal Facilities	6
New Port Access Road	Port District	Intermodal Facilities	9
Norfolk Southern, Union Pacific, CSX, Belt Rail Chicago, Canadian National, Metra, Amtrak	County	Intermodal Facilities	1
Shawneetown Regional Port District Rail Project	Port District	Intermodal Facilities	9
Sustainable Northeast Illinois Transload Intermodal Expansion	Local Agency	Intermodal Corridors	2

2023 CFP Application by Phase of Funding

» Phase of Funding Request:

- Phase I: **8**
- Phase I, II and Construction: **4**
- Phase II and Construction: **3**
- Construction: **20**



2023 CFP Application Funding Request Statistics

- » Total Project Value: **\$3.96 billion**
- » Federal funds requested: **\$405 million**
- » Federal funds available: **\$200 million**
- » Average request: **\$11.6 million**
- » Median request: **\$7 million**
- » Highest requested amount: **\$65.1 million**
- » Lowest requested amount: **\$139 Thousand**

2023 CFP Application Scoring by Goal Area

» Highway Projects (of 25)

- Safety: 72%
- Reliability: 84%
- System Enhancement: 36%
- Operational Needs: 52%
- Truck Parking: 32%
- EJ Areas: 84%

» Intermodal Projects (of 10)

- Safety: 90%
- Modal Connectivity: 100%
- Mode Shift: 90%
- EJ Areas: 90%

Preliminary Scoring, by Goal Area*

Top Scoring Highway Projects

Safety

- I-55/I-70
- 95th St Bridge over the Calumet River
- Cicero Ave Bridge over the Chicago Sanitary and Ship Canal

Reliability

- Cicero Ave Bridge over the Chicago Sanitary and Ship Canal
- IL Rte. 3 Diversion Loop & Grade Separation
- ILL 104 (Broadway St)
- Illinois Route 50 (Cicero Avenue) @ I55

System Enhancements

- Southwest Connector Highway
- West Frankfort - I57 and IL149 Interchange Modification

Operational Needs

- I-57 at IL 17 Interchange Reconstruction
- IL 13/217 Southwest Illinois Connector
- Martin Luther King Jr. Bridge Replacement Phase I

Truck Parking

- Multiple Rest Area Improvement Projects
- West Frankfort - I57 and IL149 Interchange Modification

Top Scoring Intermodal Projects

Safety

- Norfolk Southern, Union Pacific, CSX, Belt Rail Chicago, Canadian National, Metra, Amtrak
- Illinois Transfer -- 3rd Main Railroad Track between TRRA Madison Yard and Willows Interlocking East St. Louis
- Butler Drive/Stony Island Avenue Reconstruction Project

Modal Connectivity

- Congestion Reduction and Safety Improvements at KRPD #2
- Shawneetown Regional Port District Rail Project
- America's Central Port District Granite City Harbor Dock Improvements Project - Phase 2
- New Port Access Road

Mode Shift

- Norfolk Southern, Union Pacific, CSX, Belt Rail Chicago, Canadian National, Metra, Amtrak
- Congestion Reduction and Safety Improvements at KRPD #2
- America's Central Port District Granite City Harbor Dock Improvements Project - Phase 2

*Scoring is preliminary. Order of projects shown is not indicative of relative score



2023 CFP Timeline and Next Steps

Timeline and Next Steps



- » Application Period Opened Nov 15, 2022
- » Applications are Due Dec 19, 2022
- » ISFAC Reviews Project List Jan 18, 2023
- » IDOT Finalizes Rankings February, 2023
- » Project Announcements Spring, 2023



Questions?



THANK YOU!

For Questions or to be on the schedule during an
upcoming meeting, email:

DOT.ILFreightPlanning@illinois.gov