Mid-America Freight Coalition

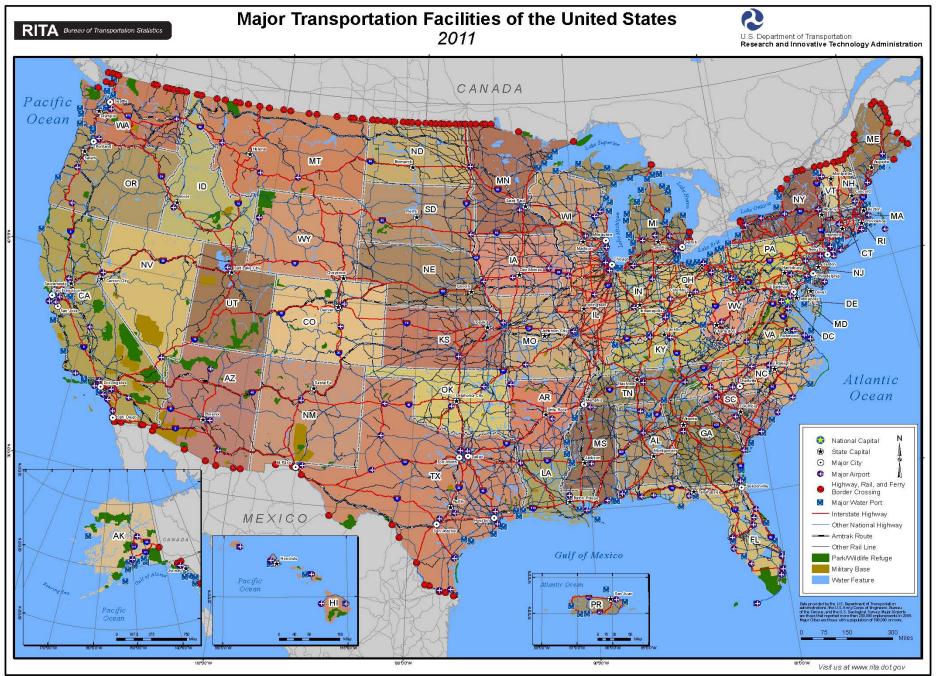
- April, 22, 2014

Planning for One Transportation System – Marine Highways

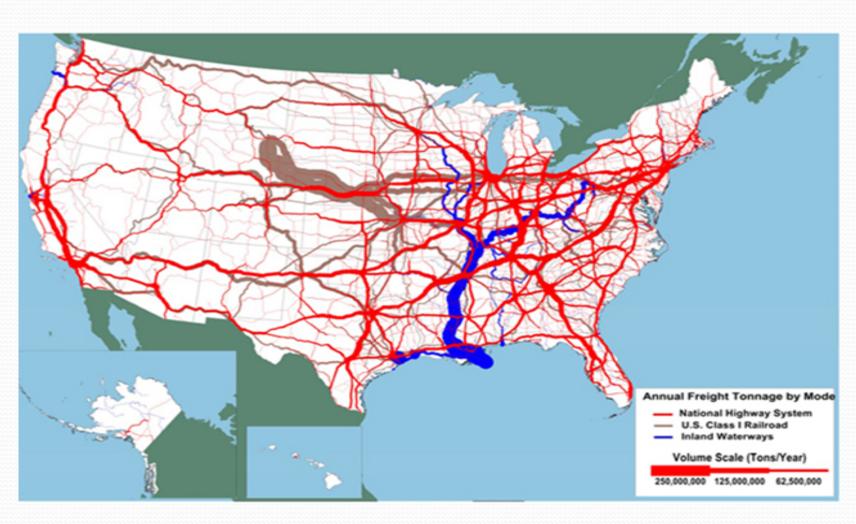
Kevin Schoeben
Deputy Director
Office of Planning and Programming
Illinois Department of Transportation

Presentation Highlights

- Illinois' Freight Facts
- Planning for One Transportation System
- Maritime Corridor Planning & Studies
- Keeping Maritime Freight Mobility in Forefront



Tonnage on Highways, Railroads, and Inland Waterways: 2007 Map

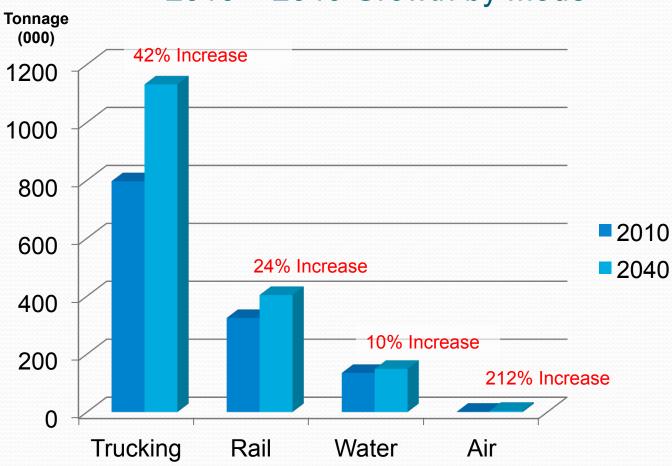


Illinois Freight Mobility Plan – 2010/2040

- In 2010 1.26 Billion tons of goods moved (30% Outbound, 28% Inbound & 42% Interstate)
- In 2010 63% trucks; 26% rail; 11% waterways; and a tenth of 1% by air.
- 2040 34% increase to 1.7 Billion tons
- 2040 67% trucks; 24% rail; 9% waterways;
 and two tenths of 1% by air

Illinois Based Freight Tonnage

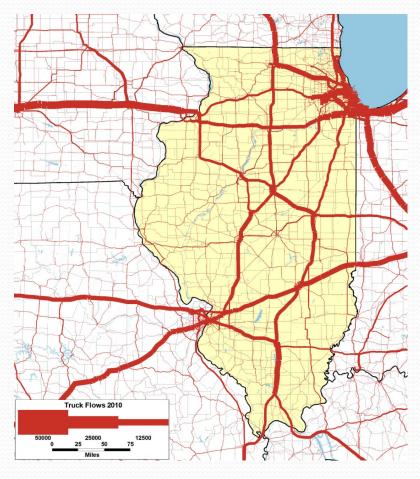
2010 - 2040 Growth by Mode



Source: Illinois Freight Mobility Plan (2012)

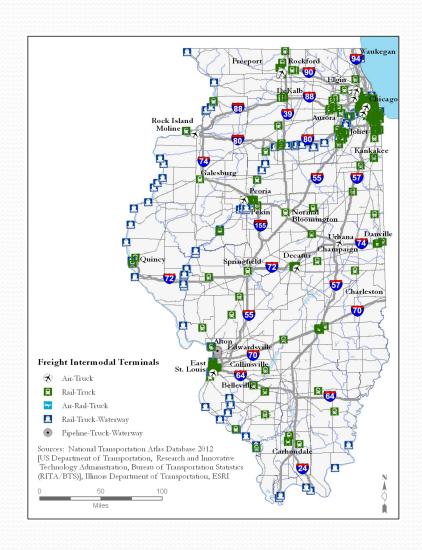
2010 Truck Flows - Third in the nation for Trucking Volume

- 140,745 miles of roadway
- 26,000 bridges
- 2,182 interstate miles, 3rd in nation
- •U.S. Dot Draft Primary Freight Network – 1,512 miles (3rd)



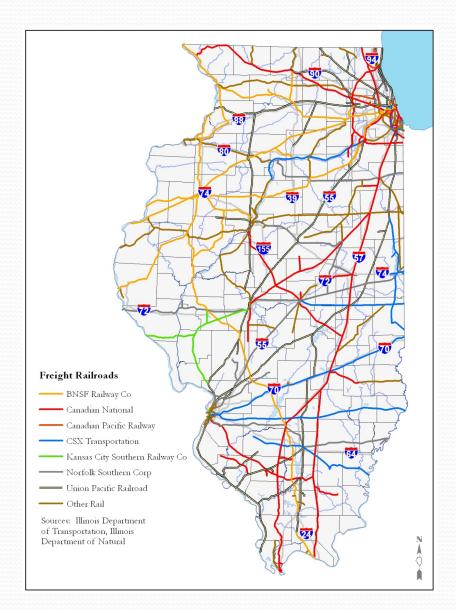
Illinois Freight Intermodal Terminals

- 2nd in Nation in Rail Intermodal Traffic
- Chicago area has 19
 Intermodal Terminals
 supporting six Class I RRs
- Location & Accessibility
- •Strive to give private enterprise maximum flexibility and access

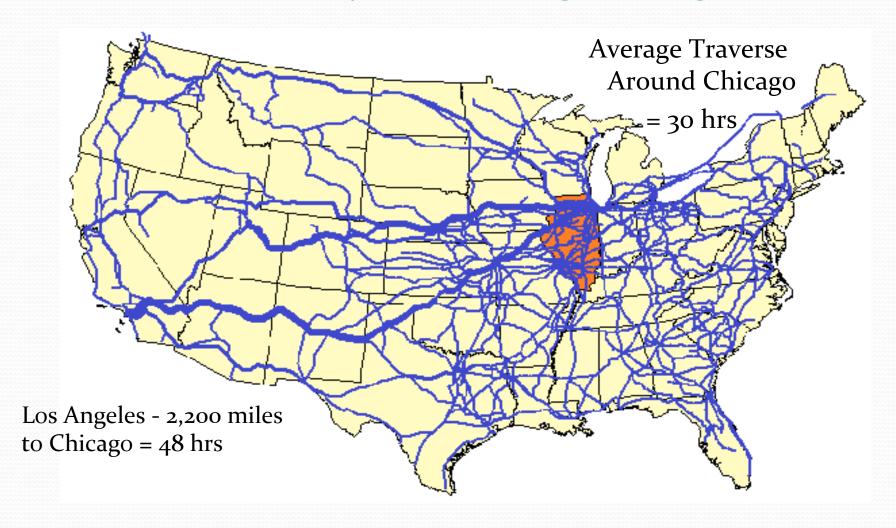


Illinois Freight Railroads – 9,400 Miles

- 7 Class I Railroads
- 3 Regional RRs
- 26 Short Line RRs
- 9 Terminal Carriers
- 3rd in Rail Volume
- 7,821 Public RR Grade Crossings



Rail Density – Illinois' Central Position - 1,300 Daily Trains through NE Region



Illinois Port Districts and Water Landing Facilities - 1,095 Miles of Navigable Waterways



Outbound -2010

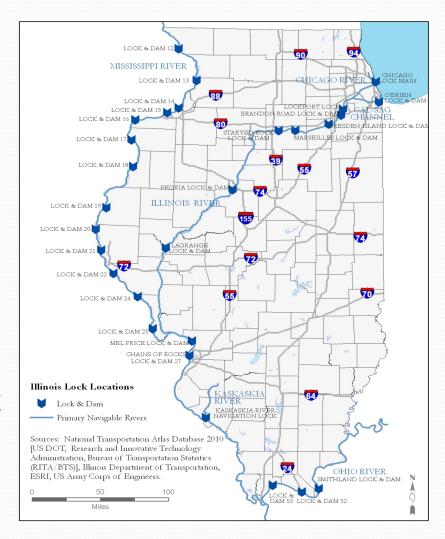
COMMODITY	%	TONNAGE (in millions)	
Coal	56	58.4	
Agriculture	25	26.2	
Petro/Gas	11	11.8	
Other	8	7.8	
TOTAL	100	104.2	

Inbound -2010

COMMODITY	%	TONNAGE (in millions)	
Stone/Ore	36	6.3	
Ferilizer/Chem	20	3.5	
Metal Products	14	2.5	
Other	30	5.2	
TOTAL	100	17.5	

Lock & Dams

- Illinois between two great national assets
 Great Lakes & Mississippi River
- 5 Locks on
 Mississippi River &
 two on Illinois River
 approved but <u>not</u> yet
 funded



Planning for One Transportation System

Vision – Prepare for Future

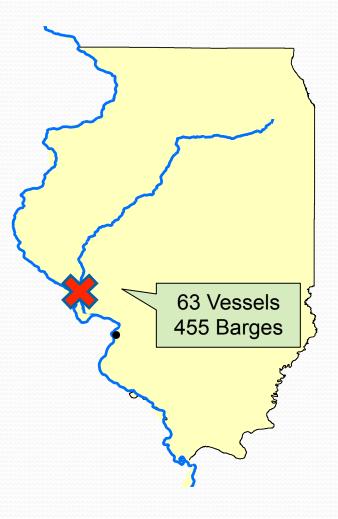
Illinois DOT Secretary Schneider

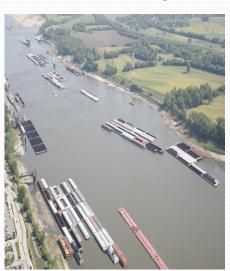
• IDOT must plan for <u>One</u> <u>Transportation System</u> for the next 5, 10, 20, 40 years by integrating Multi-modal Planning and Programming.

Example of Need for Multimodal Approach... September, 2012 – Lock 27 (5-Day Closure)











Comparison of Cargo Capacity

JUMBO HOPPER CAR

CARGO CAPACITY

BARGE 1750 TON **61.250 BUSHELS** 15 BARGE TOW 26,250 TON

110 TON 918.750 BUSHELS **3,850 BUSHELS** 1,375,000 GALLONS 20,625,000 GALLONS **30,240 GALLONS**

100 UNIT TRAIN 10,000 TON 350,000 BUSHELS 3,024,000 GALLONS

LARGE SEMI TRUCK **25 TON** 779 BUSHELS 7,885 GALLONS

EQUIVALENT UNITS

1 BARGE 1750 tons of dry cargo

16 JUMBO HOPPER CARS





1 TOW

2.25 100 UNIT TRAINS

EQUIVALENT LENGTHS

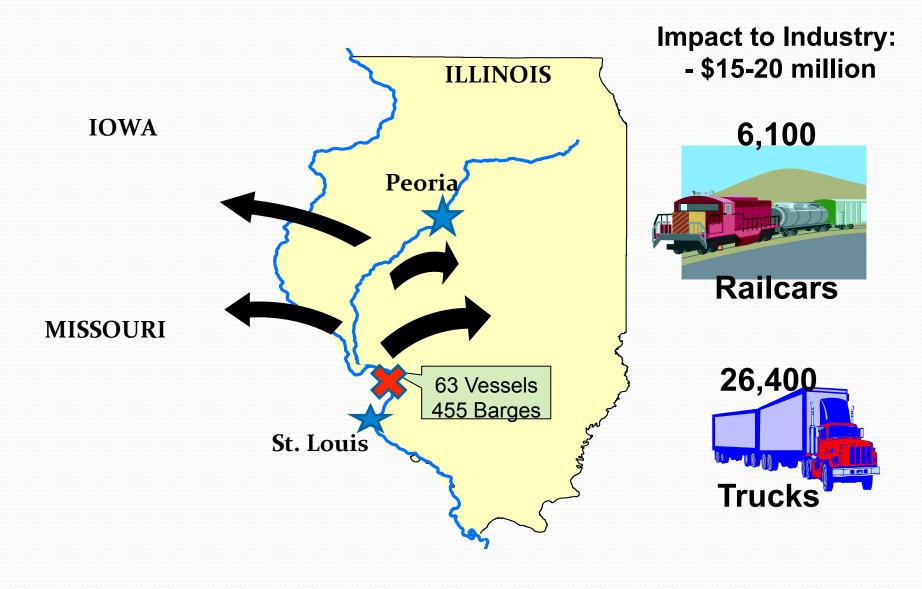
15 BARGE TOW .25 MILE

2.25 UNIT TRAINS **2.75 MILES**



1050 TRUCKS

Tonnage Displacement on Rail & Highways



Illinois Freight Mobility Plan for One Transportation System

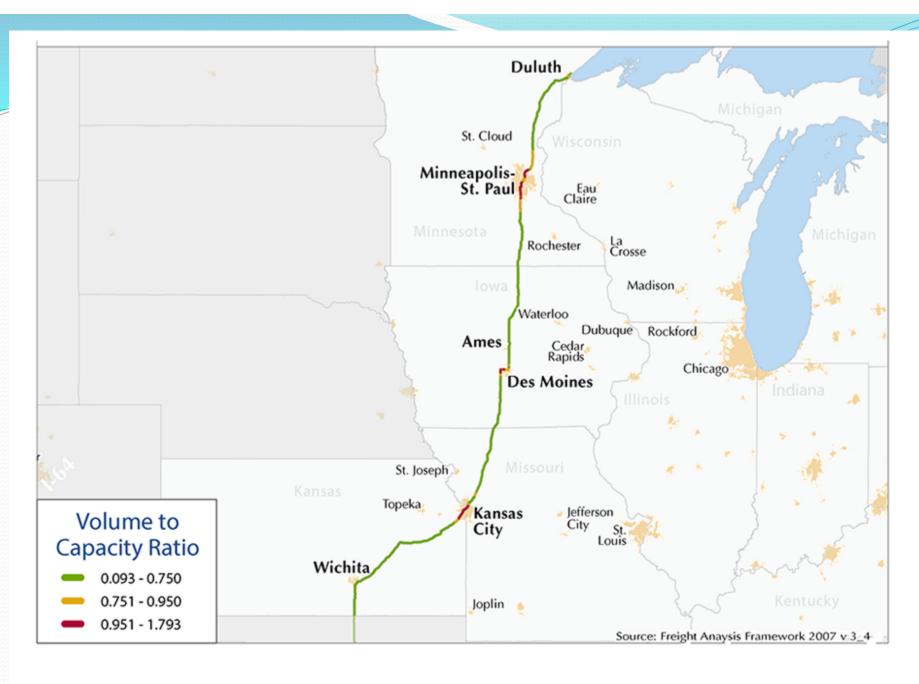
- Role in promoting more sustainable, effective and efficient connections in order to <u>optimize</u> private sector logistics options.
- Support ALL modes.
- Use <u>strategic freight planning</u> under multimodal lens to tie intermodal connections across all freight modes.

Maritime Corridor Planning & Studies

USDOT – Maritime Administration MARAD

New Corridor Designation M- 35 Upper Mississippi River





Interstate - 35 Corridor Congestion (Mid-America Freight Coalition)

M-35 Co-Sponsors "Waterway of the Saints"



Illinois Department of Transportation



Iowa Department of Transportation



Minnesota Department of Transportation



Missouri Department of Transportation



Wisconsin Department of Transportation

M-35 Marine Highway Benefits Data

State		Cargo tons total - CY 2011	Miss. River Waterway Mileage	Roadway mileage (est.) - Route parallel to Miss. River		Modal Cargo Capacity		State of Good Repair - Maintenance Costs (10.0 cents per VMT for rural road segments)	Emissions Avoided	Value of Annual costs of CO2
	Description			Miles	# of Truckload equivalents	# of Barge equivalents	If cargo is hauled by trucks	(Difference btwn truck and barge emissions)	(social costs of emissionsestimate of climate change damage)	
	Minnesota	43,109,000	190	I-35 from IA - MN state line to Minneapolis	114	1,724,360	1,642.2	\$ 19,657,704.00	189,603	\$ 5,676,713.82
	lowa	9,740,000	312	I-35 from IA - MN state line to SR 27 to IA - MO state line	278	389,600	371.0	\$ 10,830,880.00	133,712	\$ 4,003,337.28
	Illinois	109,663,000	580	Davenport, IA to Springfield to St. Louis via I-74 to I-55	266	4,386,520	4,177.6	\$ 116,681,432.00	828,047	\$ 24,791,727.18
	Wisconsin	32,042,000	231	Hudson, WI to WI - IA state line (near Dubuque) via I-94 to US 61	259	1,281,680	1,220.6	\$ 33,195,512.00	447,755	\$ 13,405,784.70
	Missouri	33,111,000	361	SR 27 @ IA - MO state line to U.S. 61 to St. Louis/Miss. River	185	1,324,440	1,261.4	\$ 24,502,140.00	201,728	\$ 6,039,736.32

DISCLAIMER: The numbers in the table are calculated estimates using data from the sources listed below. For an actual valuation, more in-depth research would be needed. However, this methodology is sufficient for providing general estimations for a marine highway corridor designation application.

M-55 Study

- MoDOT, MARAD & IDOT

- Viable for RORO and study is starting point for starting service
- Building block for containerized cargo
- Containerized products in study focused on identify preserved grains and soy



M55 – Study Findings

- Viable for RORO and study is starting point for starting service
- Building block for containerized cargo
- Containerized products in study focused on identify preserved grains and soy



M-55 Study

Figure 1: Map of the Study Area

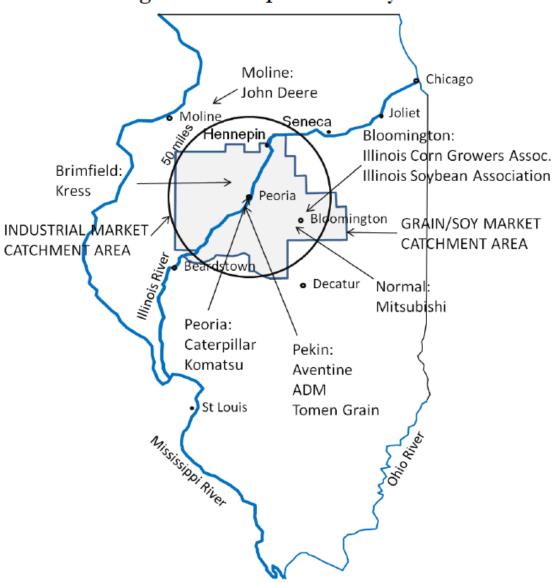
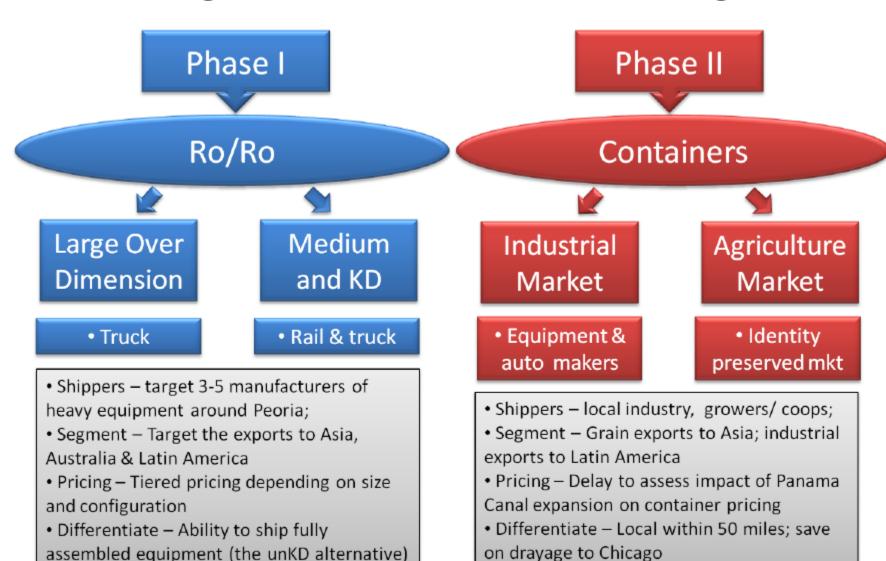


Figure 1: Market Development Phasing



KD = Knocked down

Figure 7: Shared Funding Role for Public and Private Sector

Development Funding

Public-Private

Private

Carrier >> provides barge equipment

Terminal Operator >> port equipment

Public

TransPORT – Apply for Tiger grant to help fund port equipment and barges

Operational Funding

Public-Private

Private

Carrier >> fund operations

Terminal Operator >> fund operations

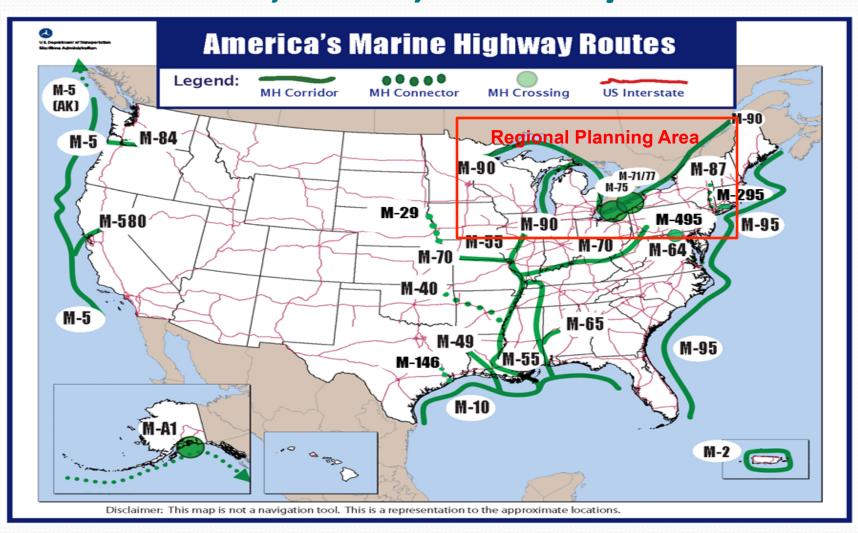
Public

TransPORT – Consider issuing revenue bonds to fund a revolving loan program to support/back working capital funds for operations and container pool

M-55 Corridor Benefit

- Allows IDOT & MoDOT to pull in other stakeholder agencies for Maritime freight opportunities and development
- Present Study along the entire M-55 Corridor
- 3. Study helps establish baseline for future port studies for COB opportunities and overall awareness for maritime freight

Regional Planning Tiger Grant Proposal M-90, M-75, & M-71/77



Unlocking the Value of the Great Lakes-St. Lawrence River Maritime Transportation Report - Council of Great Lakes Governors

- Marc-Andre' Roy CPCS
- Institutionalization of Marine Freight ~ Industry, Agencies, etc.
- Recognize Important Role of GL Maritime System by Governing Leadership
- Commit to Marine Sector Leadership & Facilitate State-Provincial coordination and engage decisionmakers with a single voice
- Inventory Marine Infrastructure & Market Industry
- Encourage support of United States and Canada

Figure 1-2: Tonnage Loaded and Unloaded at Major GLSLR Ports, 2010

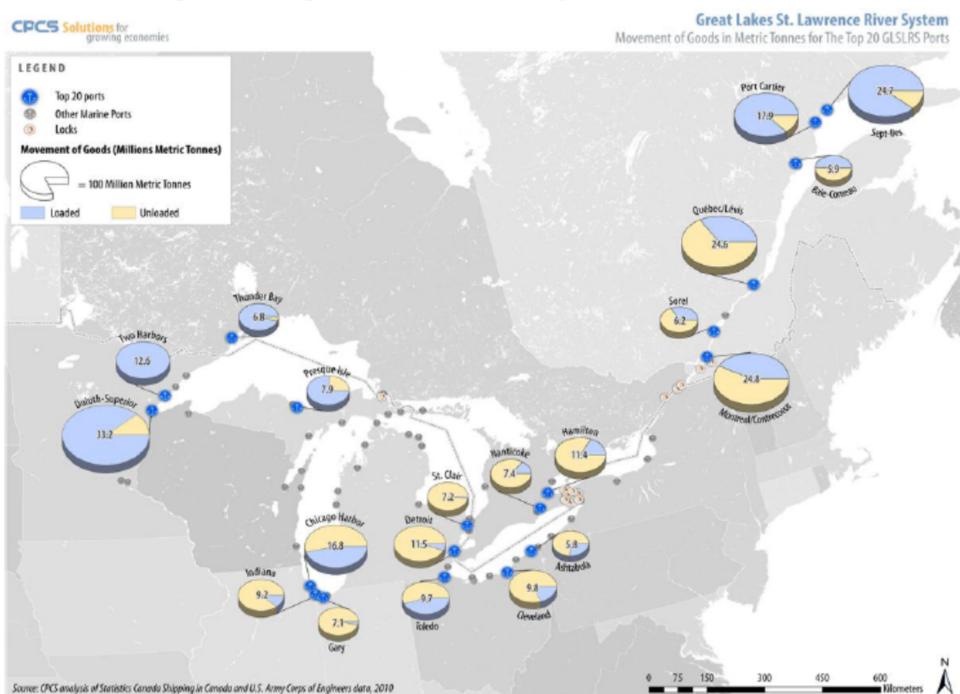
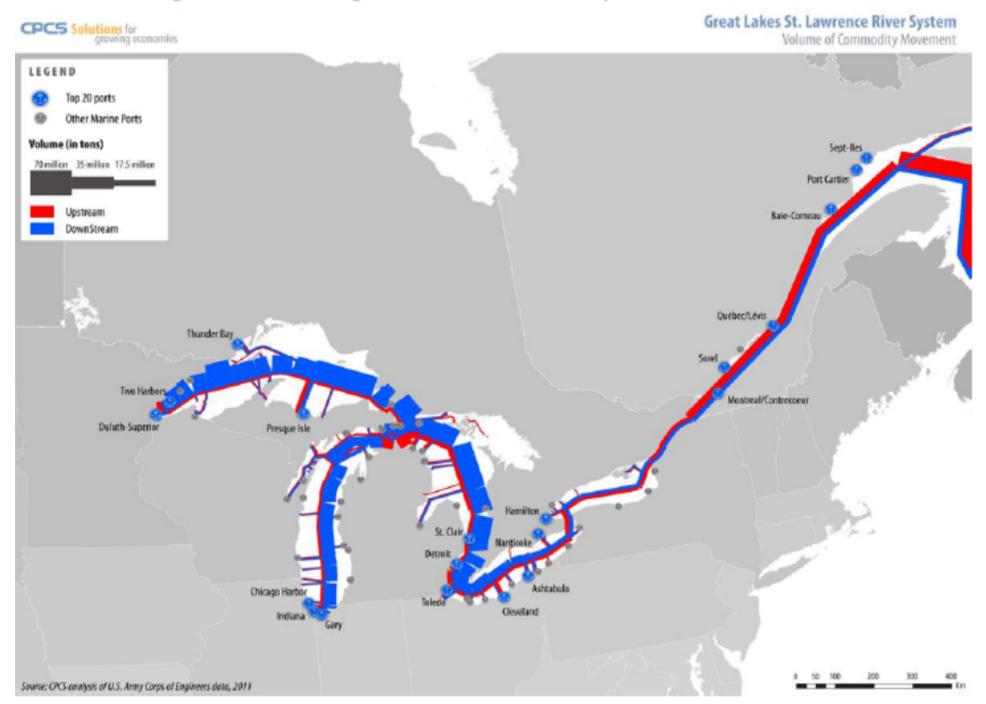


Figure 1-3: Total Tonnage Moved on Inland Waterways in the GLSLR, 2007



Regional Planning Tiger Grant

- Inventory ports, terminals, locks and dams, and intermodal facilities, M-90, M-75, & M-71/77
- Recommend how system-wide inventory to be used for strategic priorities
- 3. Identify Maritime statutory, regulatory, policy, technological, or infrastructure funding priorities
- Conduct commodity flow analysis by involving major private industry
- 5. Assess Marine infrastructure resiliency in wake of failure and project impact analysis on Modal Diversions

Regional Planning Tiger Grant

- 6. Seek MPOs Input on Barriers, First/Last mile, Land Use, Housing, Business and Economic Development, & Mitigation to Community Impacts
- 7. Assess Risks/vulnerabilities of Weather-related Disasters
- 8. Advise state DOTs how to include Maritime Freight Planning into Plans
- 9. Conduct SWOT/ Analysis of PPP for Locks and Dams, Intermodal Facilities, and Port & Terminal Facilities.
- 10. Identify COB/RoRo SWOT Analysis & Trends in Domestic and Global Freight Movements for All Modes & its Potential Future Impacts

Keeping Maritime Freight Mobility in Forefront

MAP – 21 Basic Requirements – Strategic Planning

- Strategic Plan how DOTs to meet national freight goals & overview of trends, needs, and issues
- 2. Freight policies & strategies aimed to guide freight-related decisions and enhance freight mobility & regional collaboration
- Condition & performance of state freight system including measurements to be used to guide investment decision-making.

MARITIME COLLABORATION

- USDOT-MARAD, State DOTs, USACE
- Inland Rivers, Ports & Terminals Assn.
- Upper Mississippi Rivers Basin Assn.
- Upper Mississippi,Ill & Missouri Rivers Assn.
- Big River Coalition & Louisiana Maritime Assn.
- Waterways Council, Inc.
- Mississippi River Cities & Towns Initiative
- Council of Great Lakes of Governors Maritime Taskforce

Illinois State Freight Advisory Council (ISFAC)



- Standing Forum
- Public and Private Sector Interests
- Governor's Export Advisory Council Assistance
- http://www.dot.il.gov/freightcouncil/index.html
- Focus on Connectivity Across All Modes
- Advise IDOT on Establishing Regional Corridors to be a part of National Freight Network

LRTP, Freight & State Rail Plan - 2012

- Long Range Transportation Plan (LRTP)
- Illinois Freight Mobility Plan
- •Illinois State Rail Plan
- M-55 Study

You may access these reports by:

http://www.illinoistransportationplan.org/info_center/ reports.aspx

http://www.dot.il.gov/ilrailplan/Info.html

http://www.dot.il.gov/freightcouncil/documents.html

Questions?

Kevin Schoeben
Deputy Director
Office of Planning and Programming
Illinois Department of Transportation
2300 South Dirksen Parkway, Rm 300
Springfield, Illinois 62764
217.557.5434

Kevin.Schoeben@illinois.gov