

### Welcome to the Second Kentucky Summit

Economic Development
Strategies to Leverage
Kentucky Riverports
and Freight Network



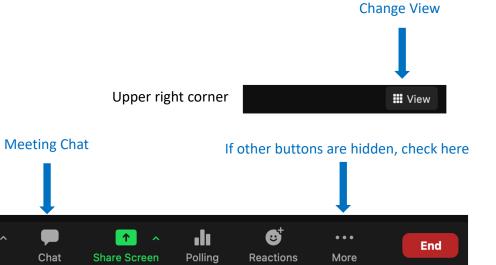
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# Kentucky Summit on Economic Development Strategies to Leverage Kentucky Riverports and Freight Network

- All sessions will be recorded
- Attendees can participate in sessions via Zoom – video and/or audio

**Opening Session** 

March 24, 10:00 to 10:45 am

2021 Changes in Federal Transportation & Trade Policies

March 24, 1:00 to 1:45 pm

What's New in the Neighborhood? Updates from Adjacent State DOTs

March 24, 2:00 to 3:00 pm

Forecasting the Future of KY's Freight Economy

March 25, 10:00 to 11:45 am

How will the Future of Freight Impact Other Modal Operations?

March 25, 1:30 pm to 2:30 pm

Port Infrastructure Needs & KY's Funding Process

March 25, 3:00 to 4:00 pm

Economic Development & Riverport Markets

March 26, 10:00 am to 12:00 pm





#### **Featured Speakers**

2021 Changes in Federal Transportation & Trade Policies

Deb Calhoun (Waterways Council) & Tim Pickering (MARAD)

What's New in the Neighborhood? Updates from Adjacent State DOTs

Mark Locker (OH DOT), BJ Murray (IL DOT), & Dan Pallme (TN DOT)

Forecasting the Future of KY's Freight Economy

Paul Bingham (IHS Markit) & Chandler Duncan (MA)

How will the Future of Freight Impact Other Modal Operations?

Tim Kizer (Port of Louisville), William Downey (RJ Corman), & PJ Donavon (USACE)

Port Infrastructure Needs & KY's Funding Process

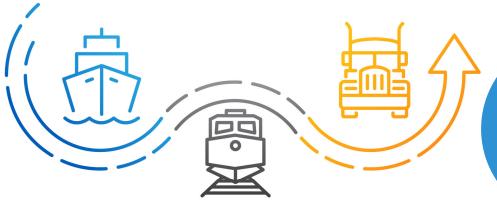
Lindsay Hoskins (Qk4)

Economic Development & Riverport Markets

Derek Cutler (EBP), Matt Yates (Port of Louisville), Anthony Ellis (KY Innovation), & Adam Wasserman (IEDC)







## Opening Session

KENTUCKY RIVERPORTS, HIGHWAY & RAIL FREIGHT STUDY

Welcome to the Second Kentucky Summit Economic Development Strategies to Leverage Kentucky Riverports and Freight Network

#### **Speakers**

Mikael Pelfrey, KYTC Division of Planning
Jim Gray, Secretary of Transportation
Jeff Taylor, Economic Development Commissioner
Chandler Duncan, Metro Analytics

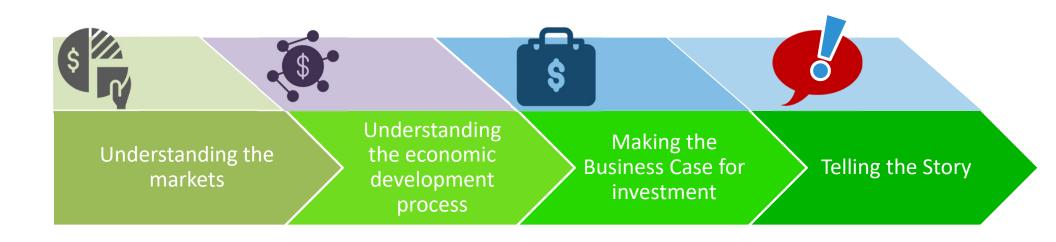
#### <u>Agenda</u>

- Welcome/Introductions
- Overview of Study Tasks and progress to date



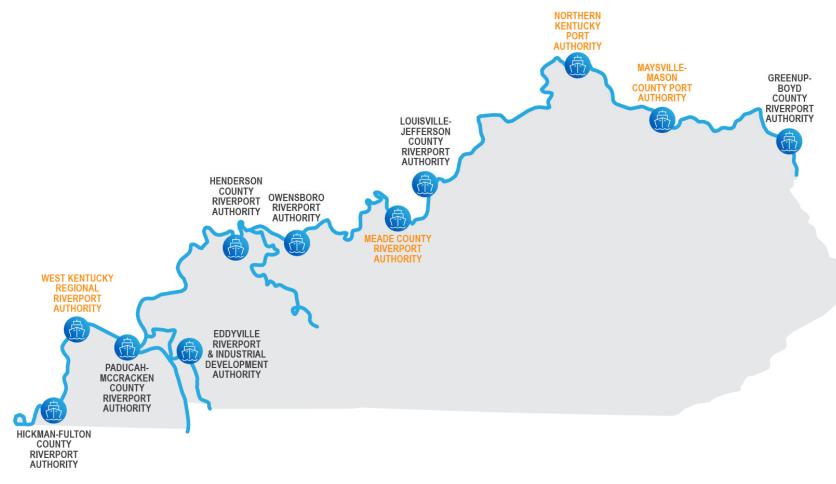


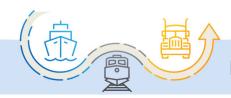
### **Project Overview**













### **Project Tasks**



Existing Role of Kentucky Riverports and Freight in the Economy

1



Forecast Future Trade Volumes and Performance Implications



Engage Stakeholders on Future Needs and Opportunities



Investment and Performance Scenarios



Scenario Impacts and Formation of Preferred Scenario



Success Roadmap

2) 3)



6







# Task 1 Existing Role of Kentucky Riverports & Freight in the Economy

Key Activities	Committee Involvement	Key Deliverables
1) Define strategic roles of infrastructure	<ul> <li>Review and Comment</li> <li>Port Visit Interview Guide</li> <li>Summit Presentation</li> </ul>	<ul> <li>Summit Presentation and</li> <li>Handouts (Statewide port and</li> </ul>
2) Quantify and demonstrate current market dynamics	Materials  - Suggest Summit Programming	regional profiles)  - Existing markets summary
3) Identify and profile existing transportation system	Content - Summit No.1 attendance	<ul> <li>Brief Memorandum</li> </ul>
4) Quantify economic impacts of current modal contributions/performance		
5) Review KYTC model and methods for integration		
6) Develop informational materials for Summit No. 1		







# Task 2 Forecast Future Trade Volumes and Performance Implications

Key Activities	Committee Involvement	Key Deliverables
<ol> <li>Forecast trade and utilization of ports</li> <li>Integrate KYTC model</li> <li>Develop informational materials for Summit No. 2</li> </ol>	<ul> <li>Suggest Summit Programming         <ul> <li>Content</li> </ul> </li> <li>Review and Comment         <ul> <li>Summit Presentation</li> <li>Materials</li> </ul> </li> </ul>	<ul> <li>Summit No. 2 Presentation         <ul> <li>and handouts (Statewide port</li></ul></li></ul>







# Task 3 Engage Stakeholders on Future Needs and Opportunities

Key Activities	Committee Involvement	Key Deliverables
<ol> <li>Execute Summit No. 2</li> <li>Present future trade and growth scenarios</li> </ol>	<ul><li>Summit No.2 attendance</li><li>Review and Comment on SWOT memorandum</li></ul>	<ul><li>Summit and Site Visit</li><li>Records/Proceedings</li><li>SWOT Memo</li></ul>
<ol><li>Take input from potential policies and projects</li></ol>		
4) Complete SWOT in collaboration with Ports		







# Task 4 Investment and Performance Scenarios

Key Activities	Committee Involvement	Key Deliverables
Integrate and enhance project investment concepts	<ul> <li>Provide input on scenarios direction and focus</li> </ul>	<ul> <li>Scenario definitions, detailed characteristics, and rationale</li> </ul>
<ol><li>Develop scenarios (investment and supportive policies)</li></ol>		(including maps, narrative and charts).
3) Vet scenarios through KYTC and key stakeholders		







# Task 5 Scenario Impacts and Formation of Preferred Scenario

Key Activities	Committee Involvement	Key Deliverables
Assess economic performance impacts of scenarios	<ul> <li>Review and provide feedback on scenarios</li> </ul>	<ul> <li>Strategic recommendations and implications (economic,</li> </ul>
Develop preferred scenario (with investments, impacts, supportive policies, possible growth trajectories)		performance, ROI, other).







# Task 6 Success Roadmap

Key Activities	Committee Involvement	Key Deliverables
<ol> <li>Present preferred strategies</li> <li>Develop implementation concepts</li> <li>Final Roadmap</li> </ol>	<ul> <li>Review and Comment on final recommendations and priorities</li> <li>Review and Comment on documents and final deliverables</li> </ul>	<ul> <li>Clear and concise Executive         Summary         Final Report and port-by-port summary         Marketing Toolkit (strategic, educational, and promotional elements)     </li> </ul>





How can we relate investments in the river system to statewide and regional economic development goals and opportunities?



## River system investments support statewide and regional economic development goals and opportunities

**Build a Consensus** 

Increase Trade

Reduce Unemployment

Increase Income

Maximize ROI

Manage natural and culture assets

Attract new revenue streams

Provide economic toolkit

Increase prosperity

**Expand commodities** 

Maximize ROI return on investment

Generate net new TIF and PID tax revenue streams

Increase high paying career economic opportunities

**Strategies** 

Goals

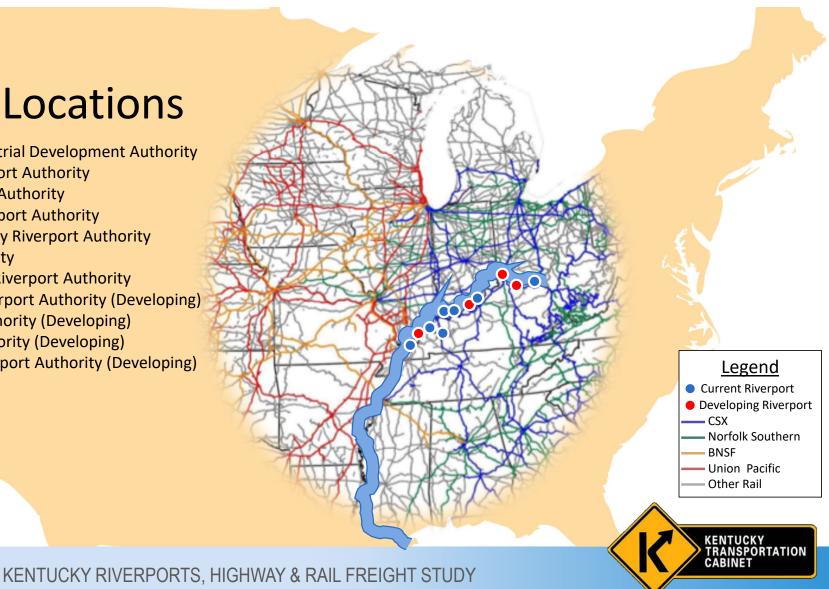


KENTUCKY TRANSPORTATION CABINET

KENTUCKY RIVERPORTS, HIGHWAY & RAIL FREIGHT STUDY

#### **Port Locations**

Eddyville Riverport and Industrial Development Authority **Greenup-Boyd County Riverport Authority Henderson County Riverport Authority** Hickman-Fulton County Riverport Authority Louisville and Jefferson County Riverport Authority Owensboro Riverport Authority Paducah-McCracken County Riverport Authority Maysville-Mason County Riverport Authority (Developing) Meade County Riverport Authority (Developing) Northern Kentucky Port Authority (Developing) West Kentucky Regional Riverport Authority (Developing)



#### **Next Steps**

#### **Port Visits**

- Second Round = April
- Understand Future Changes
- Refine Collaborative Strategies

## Scenario Planning

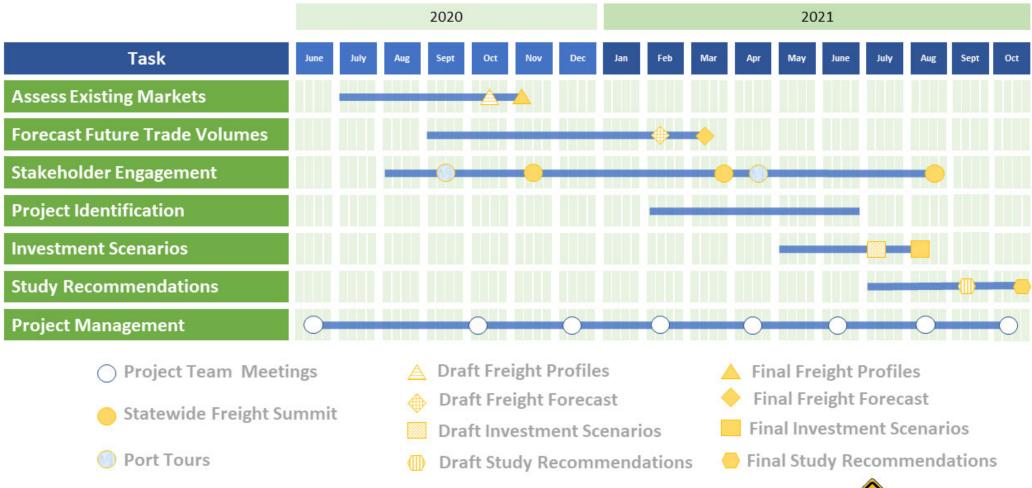
- Represent Strategies
- Role of Stakeholders
- Trade-offs

#### Technical Memos

- Ongoing
- Review the website for content
- Questions?











## Questions





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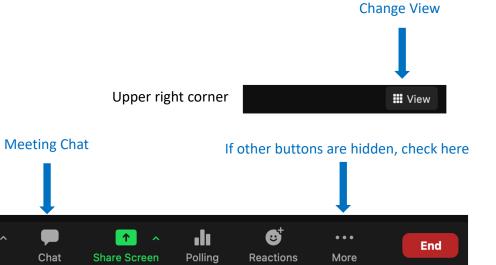
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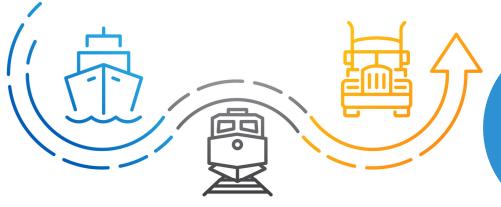
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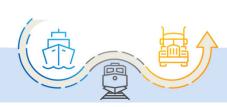
#### **Speakers**

Deb Calhoun Waterways Council, Inc.

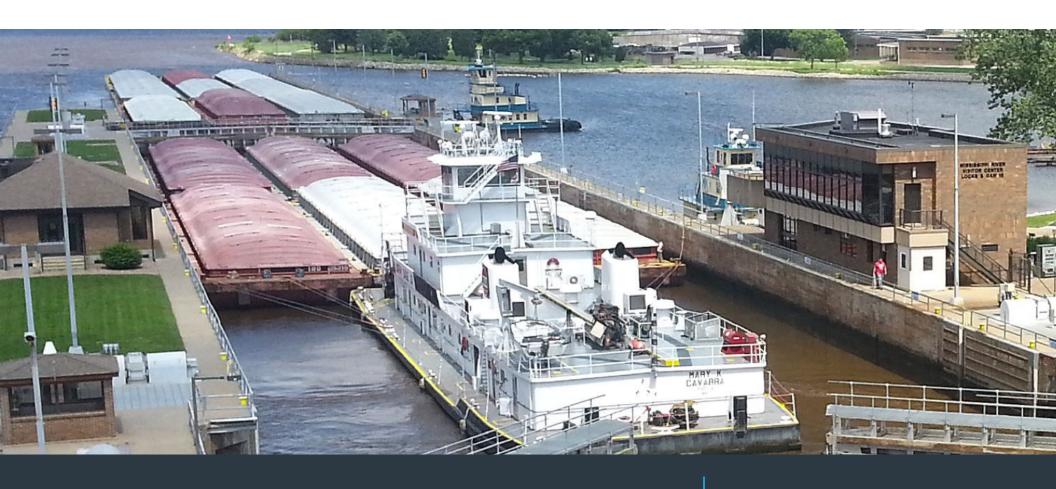
Tim Pickering MARAD

#### **Agenda**

- State of the Inland Waterway System
- What's next for Infrastructure?





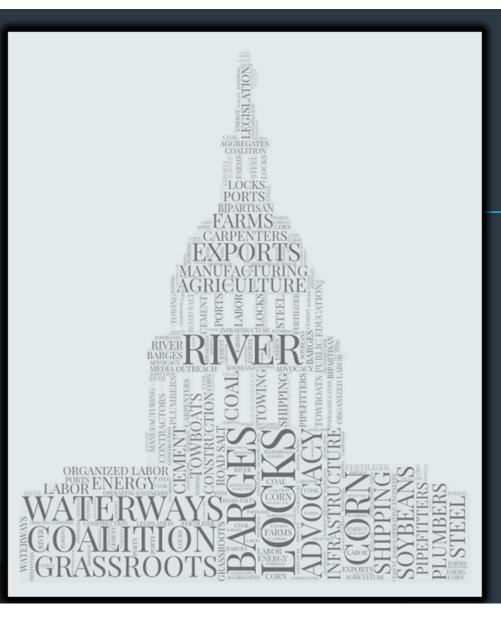


# WCI and Its Mission: Funding for the Inland Waterways System

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P DUFK #57/#5354





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- Sruw

12,000 MILES IN 38 STATES 239 LOCKS AT 193 SITES NEARLY
600 MILLION
ANNUAL TONS
VALUED AT OVER \$300 BILLION

20% OF COAL 60% OF GRAIN MOVED ON OUR RIVER SYSTEM

## TODAY'S U.S. INLAND WATERWAYS SYSTEM A CRITICAL PART OF THE TRANSPORTATION SUPPLY CHAIN

AS MANY AS

540,000 JOBS
DEPEND ON INLAND NAVIGATION

THE SAFEST AND MOST ENERGY-EFFICIENT

MODE OF SURFACE TRANSPORTATION







### **Waterways Benefit the Entire Nation**

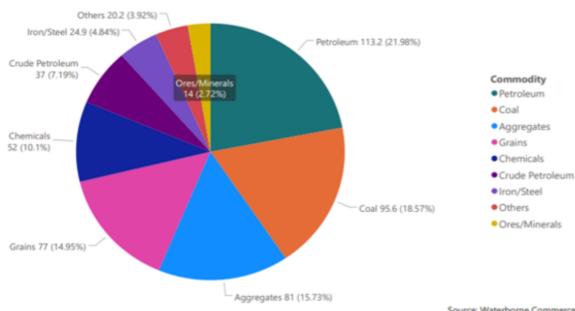


### What's Moving on the Inland Waterways?

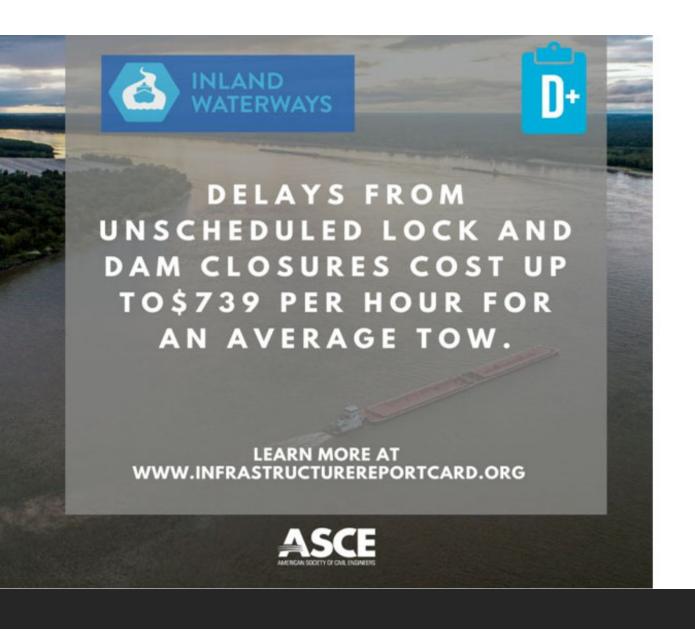
2019, 514.9 million tons valued at \$134.1 billion

#### 2019 Inland System Commodity Tons

Total Tons: 514.9M



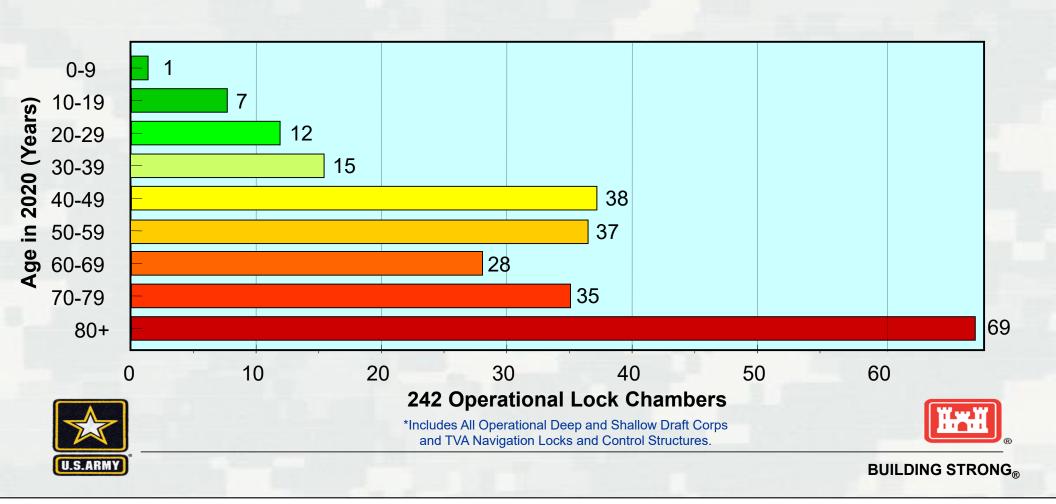
Source: Waterborne Commerce Statistics



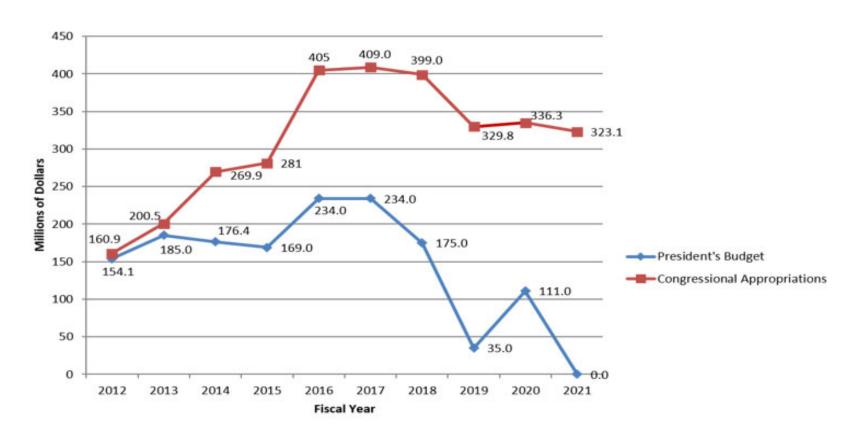
On March 3, the American Society of Civil Engineers (ASCE) released its 2021 Report Card for America's Infrastructure.

ASCE's quadrennial assessment grades the condition and performance of 17 categories of infrastructure – including inland waterways locks, dams, drinking water, roads, levees, and more.

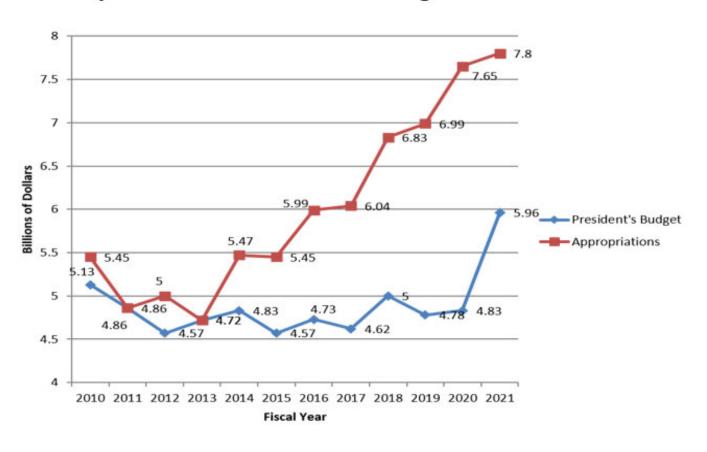
#### Aging Corps Lock Portfolio: 2020



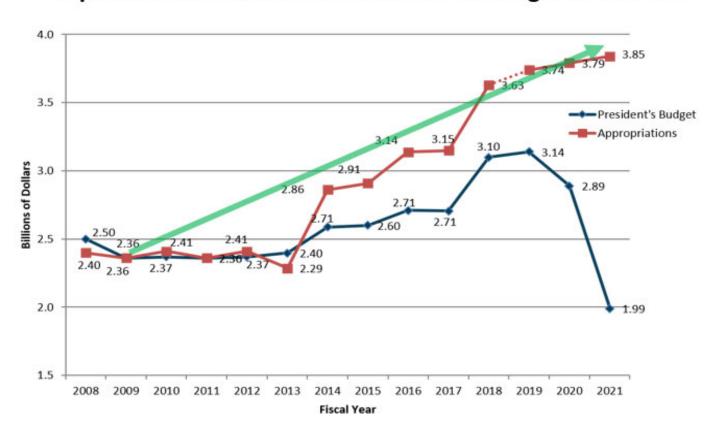
#### Inland Waterways Trust Fund Annual Funding FY2012-2021



#### Corps Civil Works Annual Funding FY2010-2021

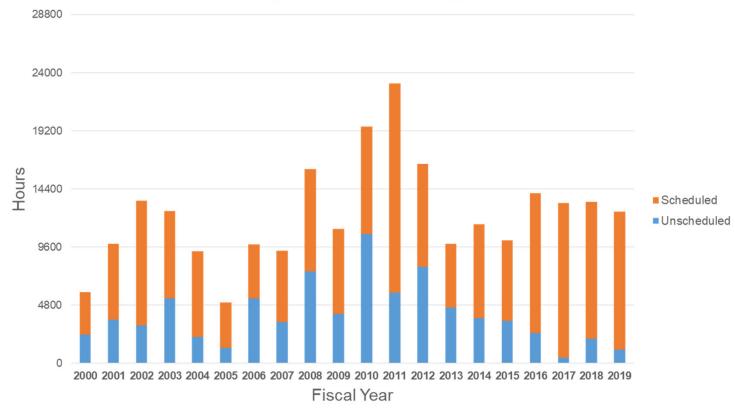


#### Operations & Maintenance Annual Funding FY2008-2021



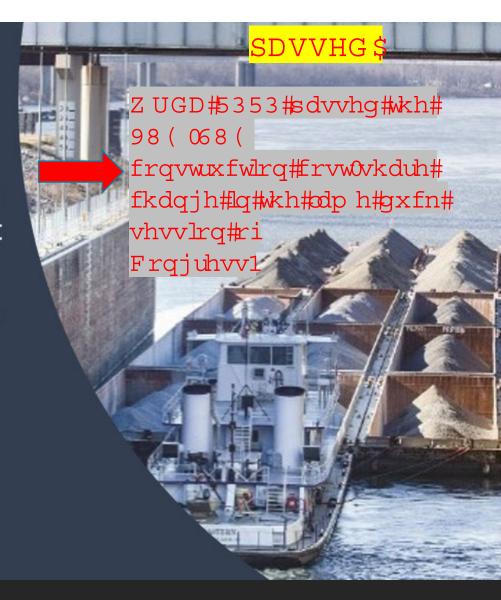
# Lock Closures Main Chamber Mechanical Unavailable Hours (Events longer than 1 day)

National Lock
Portfolio Service
Trends
Main Chamber
Mechanical
Unavailable Hours
(Events Longer than 1
Day)



# Water Resources Development Act 2020

- Senate base text: 65%/35%
  - 17 Senators requested 75/25 shift
- House base text: 65%/35%, 7-year sunset, each new start within FY21-27 stays at 65/35 until construction completion
  - 78 House Members requested 75/25



# What's Next on Infrastructure?

President Biden may introduce a \$2 trillion infrastructure package. Details of package have not been released.

"We must ensure all of our transportation systems — from aviation to public transit, to our railways, roads, ports, waterways, and pipelines — are managed safely during this critical period, as we work to defeat the virus," Pete Buttigieg said.

#### Remaining cost of projects currently under construction

Project	River/State		Amount
Chickamauga Lock and Dam	Tennessee River/TN		\$230,300,000
Kentucky Lock and Dam	Tennessee River/KY		\$562,055,099
	1	Total=	\$792,355,099

#### **New start construction projects**

Project	River/State		Amount
Upper Mississippi River Lock and Dam 25	Mississippi River/MO & IL		\$626,024,000
Three Rivers	MKARNS/AR & OK		\$201,652,000
Montgomery Lock	Ohio River/ PA		\$677,570,000
LaGrange Lock	Illinois River/ IL		\$507,433,000
Upper Mississippi River Lock and Dam 24	Mississippi River/MO & IL		\$686,083,000
MKARNS 12 Foot Channel	MKARNs/AR & OK		\$234,428,000
Emsworth Lock	Ohio River/ PA		\$463,180,000
Upper Mississippi River Lock and Dam 22	Mississippi River/MO & IL		\$578,532,000
Upper Mississippi River Lock and Dam 21	Mississippi River/MO & IL		\$749,869,000
Dashields Lock	Ohio River/ PA		\$454,738,000
Peoria Lock	Illinois River/ IL		\$547,838,000
Upper Mississippi River Lock and Dam 20	Mississippi River/MO & IL		\$496,502,000
Thomas O'Brien Major Rehab	Little Calumet River/IL		\$53,000,000
Brazos River Flood Gate	Gulf Intracoastal Waterway/ TX \$158,147,0		\$158,147,000
Colorado River Lock	Gulf Intracoastal Waterway/ TX		\$251,630,000
		Total =	\$6,276,849,000



#### For questions:

- <u>Dcalhoun@waterwayscouncil.org</u>
- 301-332-0813

















#### MARITIME ADMINISTRATION

**Marine Highway Program Overview** 

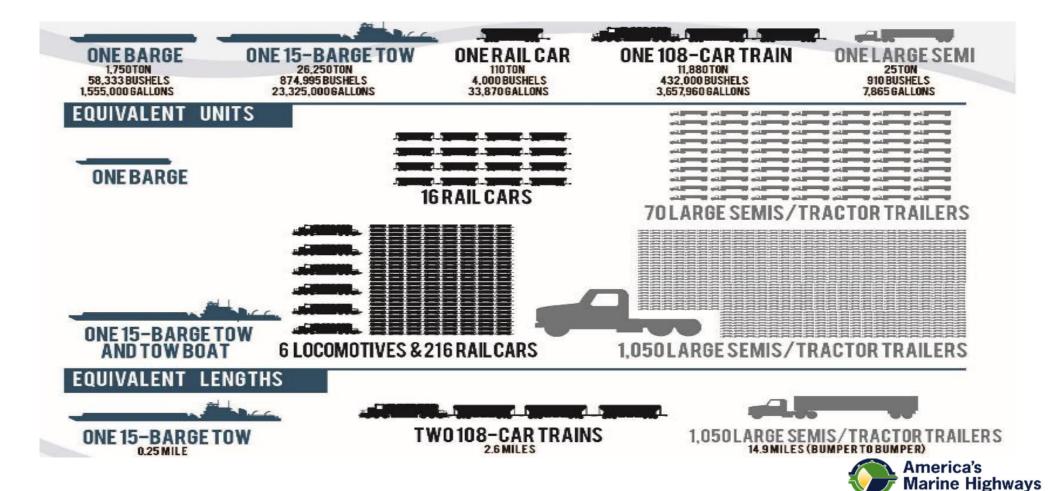
**Presented to the Kentucky Riverports Summit** 

Office of Ports & Waterways Planning



#### **Why Marine Highways**







America's Marine Highway (AMH) Program

The Marine Highway System consists of the vast majority of U.S. navigable waterways including our coastlines, inland waterways, and the Great Lakes St. Lawrence Seaway System.

- The Marine Highway Program has three steps:
  - Route Designation: A commercially navigable waterway
    in the U.S. that is capable of moving freight is
    designated by the Secretary as a Marine Highway Route.
  - Project Designation: A public entity applies for a new or expanded marine highway service along a designated Marine Highway Route are then designated as Marine Highway Project.
  - Federal Support: <u>Designated Projects can then apply for</u>
     <u>Marine Highway Grant funding</u>.





#### **The Marine Highway System**











#### **Eligible applicants (sponsors) include:**

- State government agencies
- Local governments or Port Authorities
- Tribal governments
- Metropolitan or Regional Planning Organizations

#### **Purpose of the Project Designation:**

- Create a new, or expand an existing, Marine Highway service
- Realize public benefits
- Receive recognition from the USDOT Secretary

**45** Designated Projects







## **Step Project Designation**

- Must be on a U.S. documented vessel (46 USC § 121)
- Must be loaded or unloaded at U.S. ports, or between a U.S. port and a Canadian port within the GL/SLS System
- Eligible freight types:
  - Containerized
  - Ro/Ro
  - Palletized or unitized
  - Freight vehicles carried aboard commuter ferry boats













### Step ? Federal Support – Marine Highway Grants

- Eligible applicants include:
  - Applicants of Designated Projects, or
  - Private entities with the approval of the applicant
- What can Marine Highway Grant funds be used for?
  - The development and expansion of port and landside infrastructure
    - Typically cargo handling equipment
  - The development and expansion of documented vessels
    - Purchase, lease, or modification of Jones Act vessels or barges
  - Planning, preparation and design efforts in support of marine highway projects
    - funding cannot be used for market related studies

AMH Grants can be used to alleviate the upfront capital risk associated with starting new services





# Step 3 Federal Support

- Eligibility for Marine Highway Grant Funding
- Credibility of Concept
- U.S. Department of Transportation Support
- Clearinghouse of Lessons Learned
- Promoting and Developing Partnerships
- Linking coastwise services to international services







# Federal Support

#### Since 2016, MARAD has provided \$33.8 million in AMH Grants to 18 eligible AMH Projects

FY 2016 – Six recipients	\$5 Million	FY 2019 – Nine recipients \$7.	5 Million
Baton Rouge—New Orleans Shuttle on the M-55	\$1,758,595	<ul> <li>Fernandina Express Container on Barge M-95 Florida to SC</li> </ul>	\$1,291,800
Illinois Intrastate Shuttle on the M-55	\$ 713,000	<ul> <li>McCracken Container on Barge – Paducah, KY</li> </ul>	\$ 480,000
<ul> <li>James River Expansion Project on the M-64</li> </ul>	\$ 476,748	<ul> <li>New Orleans Shuttle of the M-55 - Baton Rouge, LA</li> </ul>	\$1,040,000
New York Harbor and Container and Trailer on Barge	\$1,632,296	<ul> <li>Lake Erie Shuttle – Michigan</li> </ul>	\$1,101,735
M-55/M-35 Container on Barge Project	\$ 96,000	<ul> <li>M-84 Barge Service Expansion - Port of Morrow, Oregon</li> </ul>	\$1,623,200
Potomac River Commuter Ferry Project	\$ 173,361	<ul> <li>Gateway and Gulf Container on Barge Central Node – Houston, TX</li> </ul>	\$ 180,000
		<ul> <li>James River Expansion Project M-64 - Port of Virginia</li> </ul>	\$ 189,840
EV 2047 C' ' ' '	A= a a::::	<ul> <li>M-95 Intermodal Barge Service - Wallops Island, Virginia</li> </ul>	\$ 96,425
FY 2017 – Six recipients	\$5 Million	<ul> <li>Bainbridge Island Ferry Service – Seattle, WA</li> </ul>	\$1,500,000
<ul> <li>Baton Rouge–New Orleans Shuttle on the M-55</li> </ul>	\$2,507,200		
<ul> <li>Port of Davisville/Brooklyn/Newark Container on Barge Service</li> </ul>		FY 2020 – Eight recipients \$9.77	75 Million
<ul> <li>James River Expansion Project on the M-64</li> </ul>	\$ 456,000	•	5 1011111011
<ul> <li>New York Harbor and Container and Trailer on Barge</li> <li>Cross Sound Enhancements</li> </ul>	\$ 298,423 \$ 503,927	<ul> <li>Port Landside Infrastructure Improvements - Pago Pago, American Samoa</li> </ul>	\$ 943,000
Paducah-McCracken Riverport Container on Barge Service	\$ 251,927	<ul> <li>America's Central Port Container Handling &amp; Securing</li> </ul>	4
raducal Miceraeken Miverport container on Barge Service	7 231,327	Project – Granite City, Illinois	\$1,268,000
		Tidewater M-84 Expansion Project – Morrow, Oregon	\$3,200,000
FY 2018 – Three recipients	\$7 Million	<ul> <li>Nucor Steel Brandenburg Marine Terminal – Brandenburg, Kentucky</li> </ul>	\$2,363,800
•	•	<ul> <li>Jeffersonville Nucor Barge Shuttle Storage Facility - Indiana</li> </ul>	\$ 545,136
• SEACOR AMH - Baton Rouge—New Orleans Shuttle on the M-5		<ul> <li>Capacity &amp; Efficiency Container Barge Service – SEACOR AMH</li> </ul>	\$ 778,350
JRBL - James River Expansion Project on the M-64     Hard and Lawred County County	\$1,822,093	<ul> <li>NY Harbor Container &amp; Barge Cargo Handling Efficiency – M-95</li> </ul>	\$ 148,664
<ul> <li>Harbor Harvest Long Island Sound Service</li> </ul>	\$1,812,285	<ul> <li>USCS Kearny Point - Newtown Creek Barge Service M-95, New York, N</li> </ul>	/ \$ 308.000

A Notice of Funding Opportunity for \$10.819M in Marine Highway Grants will be released soon.





### M-70 Barge Service in the Port of Cincinnati, Northern Kentucky and Beyond

- A barge service to replace trucks between Nucor Steel's manufacturing facility in Gallatin, KY and customers in the Cincinnati to Louisville Marine Highway Route along the M-70
- Trucking 77 miles total, 66 miles interstate 10 miles state highways = \$6.59 per truck delivery in road maintenance costs
- It will replace 500 tractor trailers a month from a 66 mile stretch of I-71, saving at least \$42,000 a
  year in highway maintenance costs
- The grant funds will convert a former casino barge to a manufacturing facility and another barge to be used for transportation.
- This project is only the second Designated Project on the M-70
- Project Parties include the Central Ohio River Business Association (CORBA), The Ports of Cincinnati
  and Northern Kentucky, Port of Brandenburg, Port of Indiana-Clarke Maritime Center, Port of
  Paducah, Kentucky, Nucor Steel Company, Port of Louisville
- Congressional supporters include Congressmen Brett Guthrie, John Yarmuth and Thomas Massie



#### **Marine Highway Program Staff**



#### **Director, Office of Ports & Waterways Planning**



**Vince Mantero** 

#### **America's Marine Highway Program**



**Timothy Pickering** 

**Operations Development Manager** 



Mauricio Castro
Transportation Specialist

Fred Jones
Transportation Specialist





#### Thank you

**Office of Ports & Waterways Planning** 

**Maritime Administration** 

1200 New Jersey, Ave, SE

Washington, DC 20590

202-366-5527

MH@dot.gov

www.marad.dot.gov



# Questions





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Kentucky Riverports
and Freight Network



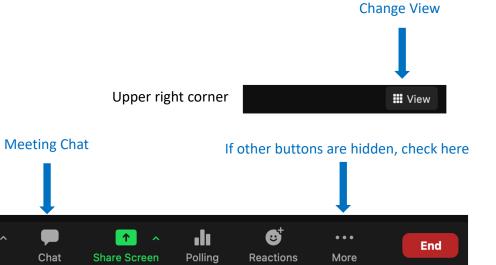
# **Zoom Tips**

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9 ^

Chat

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# Kentucky Summit on Economic Development Strategies to Leverage Kentucky Riverports and Freight Network

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**Opening Session** 

March 24, 10:00 to 10:45 am

2021 Changes in Federal Transportation & Trade Policies

March 24, 1:00 to 1:45 pm

What's New in the Neighborhood? Updates from Adjacent State Ports

March 24, 2:00 to 3:00 pm

Forecasting the Future of KY's Freight Economy

March 25, 10:00 to 11:45 am

How will the Future of Freight Impact Other Modal Operations?

March 25, 1:30 pm to 2:30 pm

Port Infrastructure Needs & KY's Funding Process

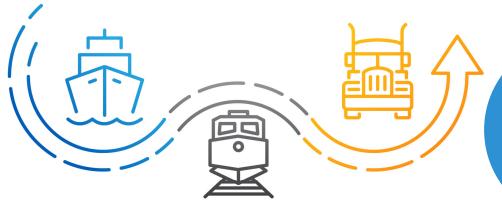
March 25, 3:00 to 4:00 pm

Economic Development & Riverport Markets

March 26, 10:00 am to 12:00 pm







# What's New in the Neighborhood?

KENTUCKY RIVERPORTS, HIGHWAY & RAIL FREIGHT STUDY

Welcome to the Second Kentucky Summit Economic Development Strategies to Leverage Kentucky Riverports and Freight Network

#### **Speakers**

Jimmy McDonald Metro Analytics (Moderator)

Mark Locker Ohio DOT

B.J. Murray Illinois DOT

Dan Pallme Tennessee DOT

#### **Agenda**

Panel Discussion about Riverports Nearby





# The Ohio River Supporting the Economy KYTC Statewide Summit

"What's new in the Neighborhood" 2pm March 24, 2021





Mark Locker, AICP Manager Freight Maritime & Logistics

# 

#### Snapshot of Ohio's Freight System

Ohio has an extensive and robust multimodal freight system.



Interstate Miles\*

1,330



Cargo Handling Airports

8



Maritime System Miles

736



Active Rail Miles

5,081



Miles of Gathering and Transmission Pipeline

110,000+

\*ODOT owned, operated and maintained, only.

OHIO'S FREIGHT SYSTEM TRANSPORTED NEARLY 900 MILLION TONS
OF GOODS WORTH OVER \$1 TRILLION IN 2018.

# OHIO MARITIME SYSTEM

#### Maritime

736

Maritime System Milles

Active Great Lake Ports.

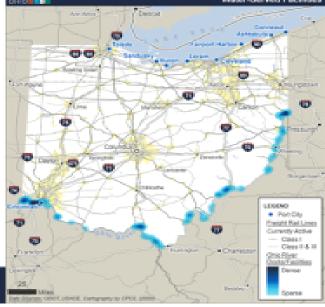
265

Miles of coastline along Lake Erie

65 Great Lakes Commercial

Terminals

97 Ohio River Commercial Terminals



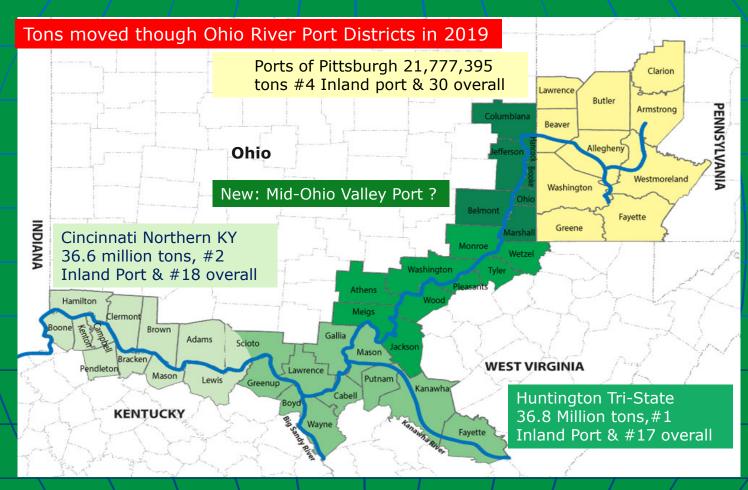








## OHIO RIVÈR



Ohio Maritime Strategy

#### Ohio Maritime Investment

#### Keeping Ohio's Maritime Transportation System Economically Competitive

- ODOT Maritime Assistance Funding (\$23M MAP)
  - Assist Private Terminals through Public Port Authorities:
    - Columbiana County Port Authority
      - SH Bell, Parsons Terminal, Wellsville Terminal
    - Monroe County Port Authority
      - Powhattan #7 Riverfront











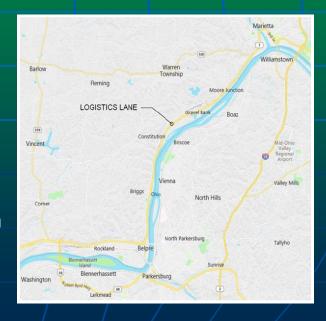
# ODOT Washington County SR 7 USDOT INFRA (\$13.1M)



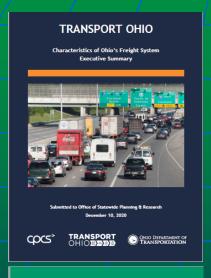
Installation of technology backbone infrastructure to allow for future testing and deployment of smart mobility solutions targeted at freight movement.

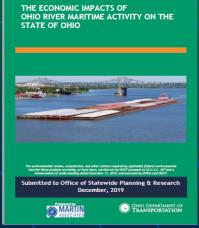
Roadway improvements to a two mile corridor of State Route 7 that will improve existing intermodal freight connections between Ohio River shipping and the National Highway System.

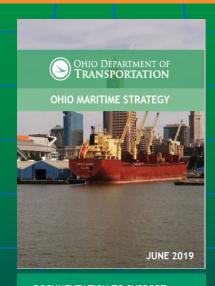
Expansion of (CORIS) that displays individual port and terminal information along with Automatic Identification System (AIS) receiver network allowing users to see boat movements on the Ohio River for scheduled freight deliveries.

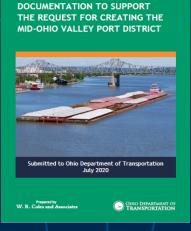


# MARITIME & FREIGHT STUDIES















W.R. Coles and Associates wrcoles.com

**ODOT Maritime System Study** 

ron@wrcoles.com 615-594-1576

# Thank you



Mark Locker, AICP
The Ohio Department of Transportation
Office of Statewide Planning & Research
Maritime, Freight & Logistics
Mark.locker@dot.ohio.dot
614.466.2347



# Kentucky Riverports Summit 3-24-2021

## **Transportation Equity Fund**

- History
  - Aviation
  - Railways
  - Water
- Historical Program: Rail rehabilitation
- Rail Connectivity grants



## **Rail Connectivity Program**

- Purpose of the Competitive Rail Connectivity Grants: This grant program seeks to strategically expand rail access and opportunities within the state of Tennessee in order to benefit the state by:
  - impacting job creation and capital investment by industries that require rail access;
  - enhancing the marketability of available industrial sites; and/or
  - reducing highway and bridge maintenance costs by diverting heavy freight from the roadway network to rail.



### **Rail Connectivity Program**

- \$10.3 million
- Maximum request: \$2 million
- 10% match
- Tight schedule:
  - Application: 10-15-2018
  - Notice of Intent: 11-15-2018
  - Application Due: 12-7-2018
  - Award Announcement: 1-19-2019
- Eligibility: rail authorities, port authorities, local governments, industrial development corporations, governmental entities
- Project examples: spurs, sidings, truck-rail transload and riverrail transload facilities, bridge rehabilitation projects, etc.



## **Statistics of Program**

- 31 Applications
  - \$36.7 million total ask (not counting local match)
  - Projects selected were geographically diversified



#### FY2019 COMPETITIVE RAIL CONNECTIVITY GRANT AWARDS

## **Awarded**

Applicant	County	Grant	Project Description	
Cheatham County	<u>Cheatham</u>	\$2,000,000	Construction of a 2600 ft. rail spur, 650 feet of loading tracks, and improvements to 2000 feet of track to serve a new river port	
City of Memphis & Shelby County Port Commission	<u>Shelby</u>	\$1,723,500	Install 4,900 ft. of new rail track with 4 new switches at the public terminal facility on Presidents Island at the Port of Memphis	
Hamilton County Railroad Authority	Hamilton	\$1,272,600	Construction of a rail-highway bulk transload facility in the Enterprise South industrial area	
Marion County	<u>Marion</u>	\$2,000,000	Construction of a rail spur at the Nickajack Port Industrial Park	
Nashville & Eastern Railroad Authority	Wilson	\$297,000	Install two new switches and 290 ft. of tangent track to provide service to an existing industry without current rail connectivity	
TennKen Railroad Authority	Dyer	\$486,000	Construction of a rail spur with a 16 car push to provide service to an existing industry without current rail connectivity	
Town of Spring City	Rhea	\$500,000	Construction of a rail spur to serve an available 61 acre parcel in the Spring City Industrial park	
Washington County Economic Development Board	Washington	\$2,000,000	Construction of a rail spur to serve existing industries without current rail connectivity	



## Rail - River Projects - #1

- City of Memphis and Shelby County Port Commission
  - Project description: 4900 ft new track and 4 switches to serve the river port and its customers on President's Island
  - Total cost: \$1.915 million
  - State program: \$1.723 million
  - Status: Current posted on website as advertised for the required 21 days for bids

Memphis Public

Port 79RC20S3 Terminal <u>Drake</u>
Commissi 002 Rail <u>Danley</u>

on Extension

Public

3/17/2021 4/13/2021 Advertise ment

Bid Sheet



## Rail – River Projects - #2

- Cheatham County Nashville area
- **Project description:** The project includes improvements to 2000 ft of current rail bed and line, as well as construction of a rail spur. The spur will cross Thompson Road in Ashland City to serve a new, multi-modal barge port on the Cumberland River. The spur itself will be approximately 2600 feet along with about 650 feet of storage/loading tracks on the county-owned site.
- Total cost: \$3.641 million
- State program: \$2 million
- Status: Currently on hold. Going through the NEPA phase since this is a new port



## Rail – River Projects - #3

- Marion County Chattanooga area
- Project description: A rail spur to facilitate an expansion at Colonial Chemicals and the Nickajack Port Industrial Park; been in the works for 3 years; have other financial partners but lacking \$1.3M to make it happen; have estimate from CSX for the work
- Total cost: \$3.584 million
- State program: \$2 million
- Status: Goal is set to advertise for bids on 4/1/21. Lengthy process of going back between CSX, TDOT, Marion County to get this completed. They are going to advertise for 6 weeks to try to get more competitive bid offers



#### **Contact Information**

Dan Pallme, Assistant Chief of Freight & Logistics Environment & Planning Bureau 615-741-4031 office 615-879-4390 cell Daniel.pallme@tn.gov



## Questions





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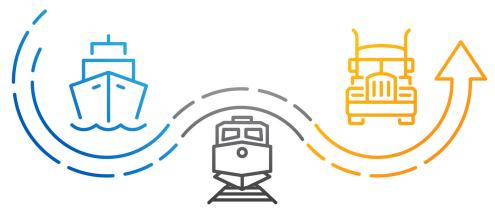
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Economic Development & Riverport Markets

March 26, 10:00 am to 12:00 pm







KENTUCKY RIVERPORTS, HIGHWAY & RAIL FREIGHT STUDY

Second Kentucky Summit on Economic Development Strategies to Leverage Kentucky Riverports and Freight Network

Session 4:
Forecasting the Future of
Kentucky's Freight Economy



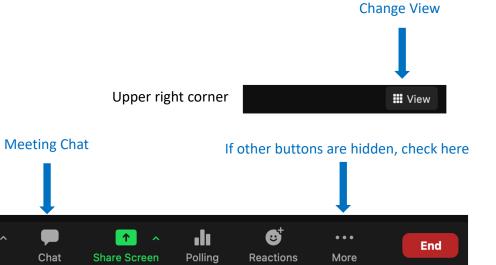
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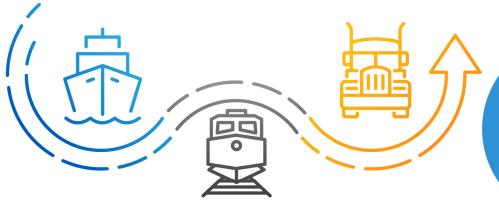
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# Forecasting the Future of KY's Freight Economy

KENTUCKY RIVERPORTS, HIGHWAY & RAIL FREIGHT STUDY

Welcome to the Second Kentucky Summit Economic Development Strategies to Leverage Kentucky Riverports and Freight Network

#### **Speakers**

Paul Bingham IHS Markit

Chandler Duncan Metro Analytics

#### **Agenda**

- Economic Forecasts: 2018 Base to 2045 Possible Futures
- Applying Forecasted Growth to Kentucky's Freight Networks



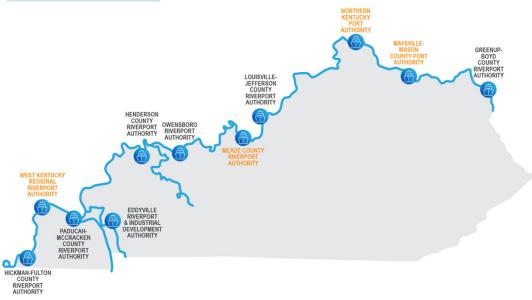


## **SESSION PURPOSE**





## Session Purpose



- Present freight demand forecast scenarios with future commodity flows for the 11 public riverports in the Commonwealth with associated truck and rail freight for potential diversion to waterways.
- Use scenarios to help account for uncertainty in freight markets.



## FREIGHT FORECAST CONTEXT





## Kentucky Riverports, Highway and Rail Freight Forecasts from IHS Markit Transearch

#### **Objectives**

- Identify total freight market for seven
  Kentucky riverports operating now for
  all relevant freight modes. The
  potential for the four developing ports
  comes from diversion from rail/truck.
- Identify port potential with long-term forecasts for regional modal freight flow demand under a baseline and two alternative growth forecast scenarios before any new diversion.

#### **Riverports**

Kentucky Riverport	Status	
West Kentucky Regional Riverport Authority	Developing	
Paducah -McCracken County Riverport Authority	Operating	
Eddyville Riverport and Industrial Development Authority	Operating	
Henderson County Riverport Authority	Operating	
Meade County Riverport Authority	Developing	
Jefferson Riverport International	Operating	
Maysville -Mason	Developing	
Greenup -Boyd County Riverport Authority	Operating	
Owensboro Riverport Authority	Operating	
Hickman -Fulton County Riverport Authority	Operating	
Northern Kentucky Riverport	Developing	





## Kentucky Riverport Market Hinterlands

- Each riverport competitive market hinterland assessed.
- Counties reached in 90-minute driving time from each riverport.
- Kentucky's market reach of the riverports extends into Illinois, Indiana, Missouri, Ohio, Tennessee and West Virginia.
- Riverports market reach can and do overlap.





## Transearch Freight Flow Data & Forecasts

Multimodal Origin Destination Freight Flows – Annual Total Tons & Value

- Transearch Base Year Calendar Year 2018; Forecast Horizon of 2045
- Geography
  - US Markets:

Transearch enables location-specific freight flow analysis for transportation and market planning

- Kentucky, neighboring-state and river-adjacent riverport market counties
- State portions of Business Economic Areas (BEAs)
- Canada & Mexico Imports and Exports
- Overseas Imports and Exports







## Transearch Freight Flow Data & Forecasts

- Freight Flow Volumes:
  - Annual volume in net (short) tons,
  - Equipment unit volumes for truck and rail modes
    - Total tonnage for inland waterway and air freight
    - Truck loads (for truck modes only)
    - Trailers or containers (for intermodal rail)
    - Carloads (for non-intermodal rail)
- Freight Value:
  - Dollar value of commodities shipped









## Kentucky Freight Forecast Scenarios

- Long-term forecasts of commodity demand driven by industry production, consumer and business consumption and trade
  - The three 2045 scenario alternatives for the economy and freight:
    - Baseline is the most likely of possible paths for the overall economy without further major disruptions or shocks
    - Higher growth reflecting higher investment and employment with generally optimistic performance of the economy (averages GDP 0.4% higher per year)
    - Lower growth reflecting slower investment and development with generally pessimistic performance of the economy (averages GDP 0.6% lower per year)



### The Economic Forecast Scenarios

#### **Comparison of US Economic Forecast Scenario Indicators, 2020-2045**

Avenue Amuel Beel Crevith	Historic Avg.	Baseline	Optimistic	Pessimistic
Average Annual Real Growth	1989-2019			
Potential Output	2.5	1.9	2.3	1.4
GDP	2.5	1.9	2.3	1.3
Consumption	2.7	2.2	2.5	1.5
<b>Business Fixed Investment</b>	4.3	2.6	3.2	1.8
Government	1.3	0.7	1.1	0.5
Exports	4.9	2.8	3.4	2.5
Imports	5.1	3.2	3.4	2.6
Average Annual Growth				
Labor Force	0.9	0.5	0.8	0.4
Productivity	1.9	1.6	2.0	1.2
Industrial Production	1.8	1.3	2.0	0.7
Inflation (% GDP Deflator)	2.1	2.1	1.8	3.4
Unemployment (%)	5.8	4.4	4.2	5.1

Source: IHS Markit, Copyright © 2020





## Kentucky's Public Riverport Forecasts

- Waterway and port infrastructure improvements not assumed in the forecast scenarios beyond what is already underway.
- No explicit port competitiveness changes assumed.
- Potential diversion to inland waterway transport can change future riverport freight volumes, if opportunities are captured.



## Freight Forecast Scenarios By Mode, All Riverports

#### **Total Tonnage Growth to 2045**

Baseline Scenario: 18.3%

Optimistic Scenario: 24.5%

Pessimistic Scenario: 10.7%

#### **Truck Tonnage Growth to 2045**

Baseline Scenario: 34.7%

Optimistic Scenario: 42.2%

Pessimistic Scenario: 25.7%

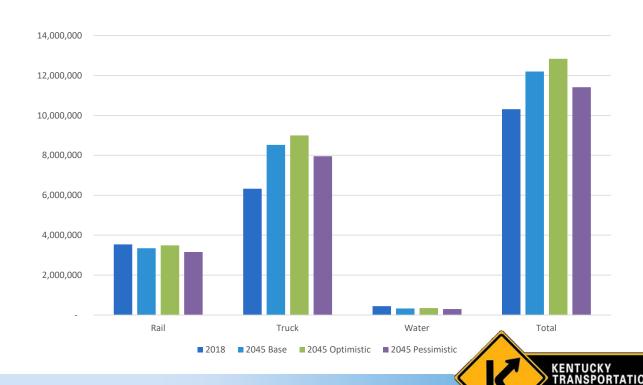
#### **Rail Tonnage Growth to 2045**

Baseline Scenario: -5.4%

Optimistic Scenario: -1.4%

Pessimistic Scenario: -10.7%

## Freight Forecast Scenarios in 2045, All Ports Hinterlands (1000s of Tons)



### FREIGHT FORECAST SCENARIOS BY RIVERPORT

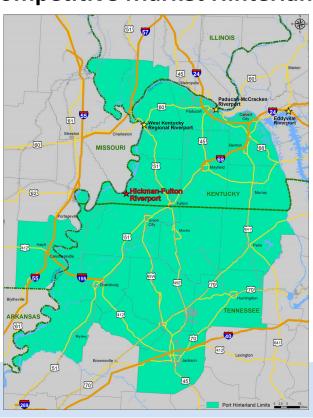


## Developed Public Riverports in Kentucky



## Hickman-Fulton County Riverport Authority

#### **Competitive Market Hinterland**



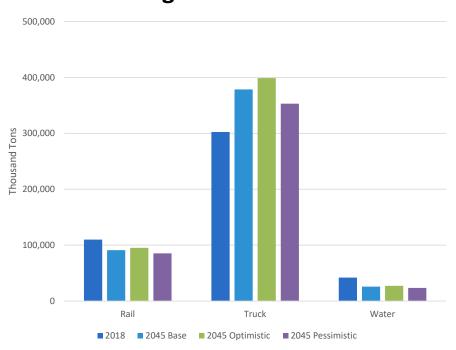
#### **Market Outlook**

- TennKen short line railroad connects port to CN railroad
- Opportunities in the forecasts are mostly north-south movements in Western Kentucky extending across an agricultural and manufacturing hinterland of 21 counties in Kentucky, Illinois, Tennessee and Missouri

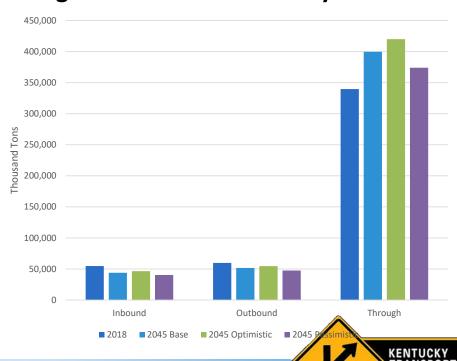


## **Forecast Scenarios Summary**

#### **Modal Freight Forecast Scenarios**



#### **Freight Forecast Scenarios by Direction**

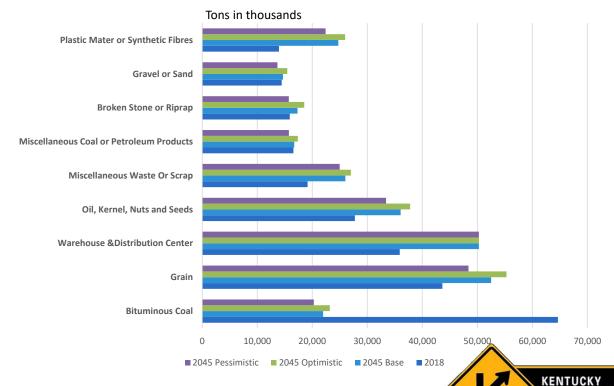


## Freight Forecast Scenarios for Top Commodities

#### Key commodity growth:

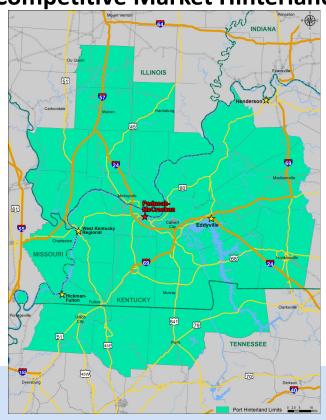
- Grain replaces coal as #1
- Mixed consumer products in warehouses are #2 but with diversion challenges
- Soybeans in oil, kernel, nuts and seeds #3
- Waste and scrap #4
- Plastics & synthetics #5

#### **Freight Forecast Scenarios: Top Commodities**



## Paducah-McCracken County Riverport Authority

#### **Competitive Market Hinterland**



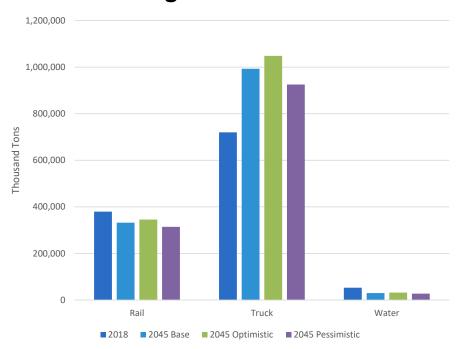
#### **Market Outlook**

- Potential for intermodal opportunities
- No direct rail service so truck is primary diversion potential focus
- Port hinterland extends to 32 counties in Kentucky, Illinois, Missouri and Tennessee

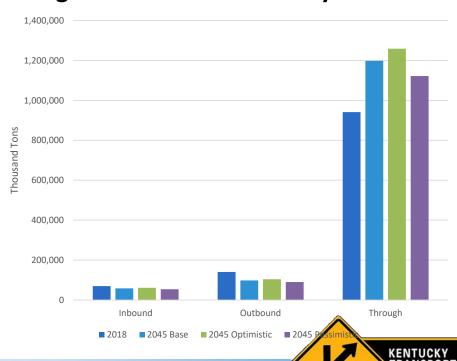


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#### **Freight Forecast Scenarios by Direction**

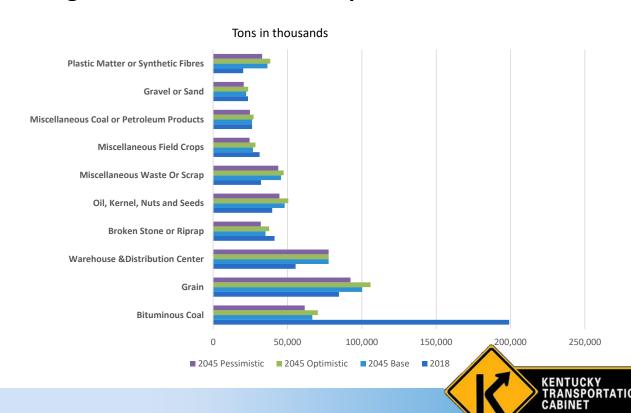


## Freight Forecast Scenarios for Top Commodities

#### Key commodity growth:

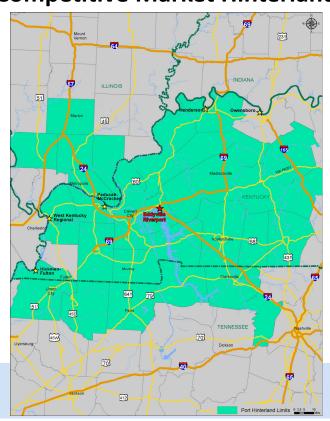
- Grain replaces coal as #1
- Mixed consumer products in warehouses are #2 but with diversion challenges
- Soybeans in oil, kernel, nuts and seeds #4
- Waste and scrap #5
- Broken stone / riprap #6
- Coal #3 but still in decline

#### **Freight Forecast Scenarios: Top Commodities**



## Eddyville Riverport and Industrial Development Authority

#### **Competitive Market Hinterland**



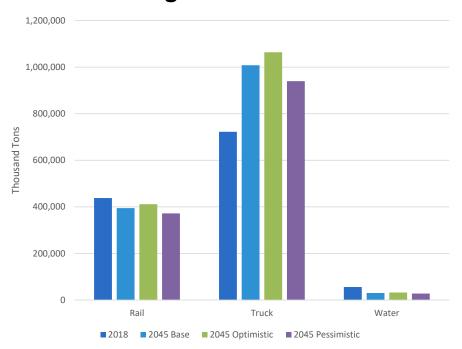
#### **Market Outlook**

- Agriculture production in hinterland forecasted for top growth.
- Hinterland of 32 counties in Kentucky, Illinois and Tennessee that include agriculture and manufacturing activity.

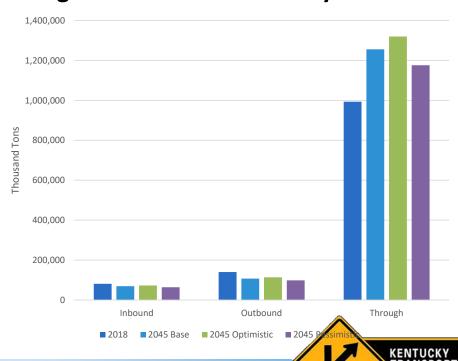


## **Forecast Scenarios Summary**

#### **Modal Freight Forecast Scenarios**



#### **Freight Forecast Scenarios by Direction**

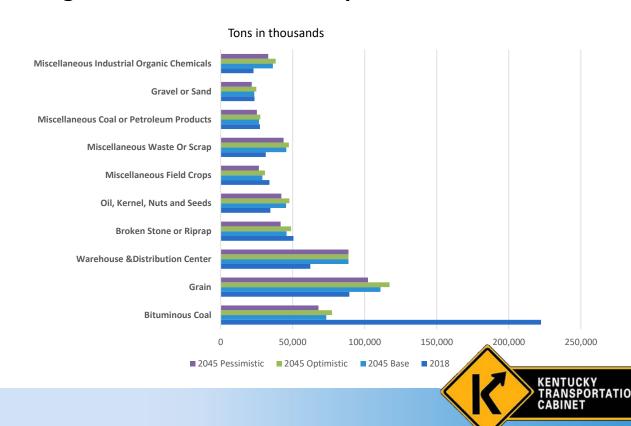


## Freight Forecast Scenarios for Top Commodities

#### Key commodity growth:

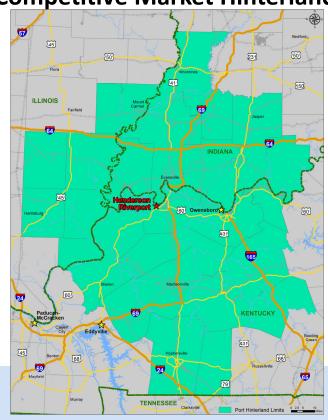
- Grain replaces coal as #1
- Mixed consumer products in warehouses are #2 but with diversion challenges
- Broken stone / riprap #4
- Soybeans in oil, kernel, nuts and seeds #5
- Waste and scrap #6
- Coal #3 but still in decline

#### **Freight Forecast Scenarios: Top Commodities**



## Henderson County Riverport Authority

**Competitive Market Hinterland** 

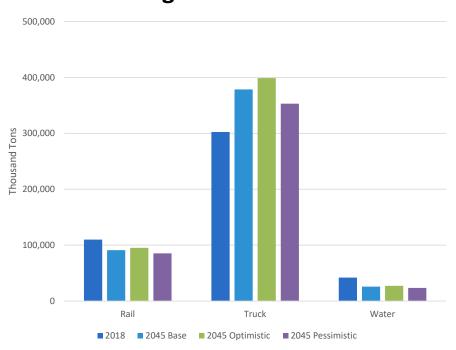


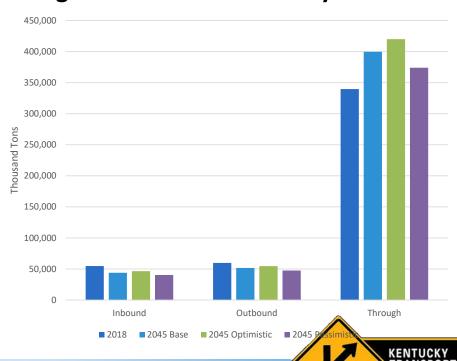
#### **Market Outlook**

- Agriculture and manufacturing in the region provide key opportunities.
- Hinterland of 30 counties extends to Kentucky, Illinois and Indiana



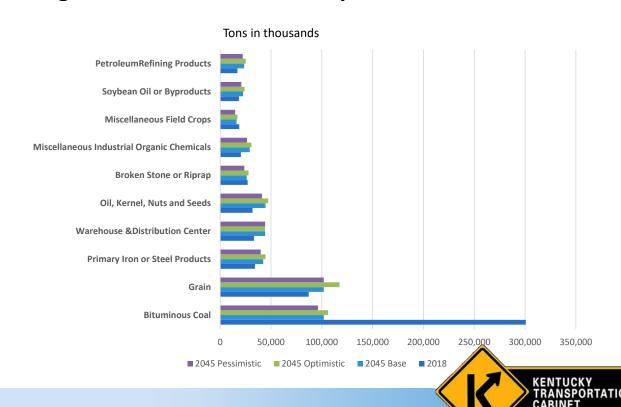
#### **Modal Freight Forecast Scenarios**





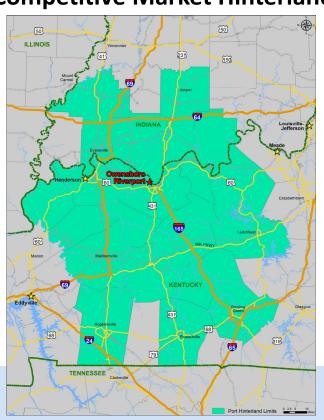
#### **Key commodity growth:**

- Grain replaces coal as #1
- Soybeans in oil, kernel, nuts and seeds #3
- Mixed consumer products in warehouses are #4 but with diversion challenges
- Iron and Steel #5
- Industrial Chemicals #6
- Coal #2 but still in decline



# Owensboro Riverport Authority

#### **Competitive Market Hinterland**

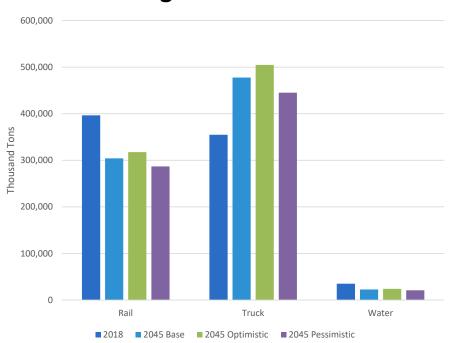


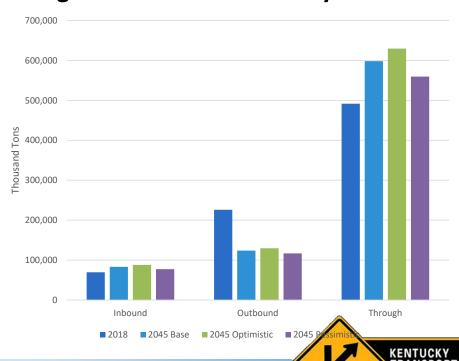
#### **Market Outlook**

- Regional growth from manufactured commodities including aluminum already handled by the port.
- Rail access provides diversion potential
- Hinterland of 21 counties in Kentucky and Indiana includes much product manufacturing



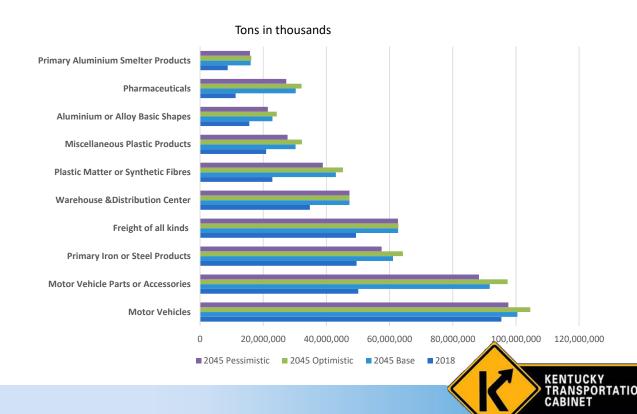
#### **Modal Freight Forecast Scenarios**





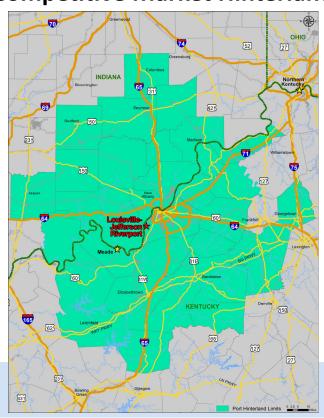
#### **Key commodity growth:**

- Motor vehicles are #1
- Motor vehicle parts #2
- Mixed Freight All Kinds #3
- Iron and Steel #4
- Mixed consumer products in warehouses are #5
- Plastics, Synthetics #6



# Louisville Riverport Authority

#### **Competitive Market Hinterland**

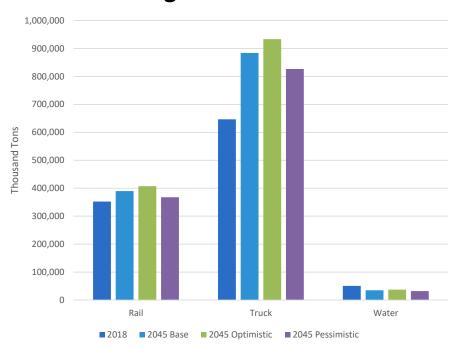


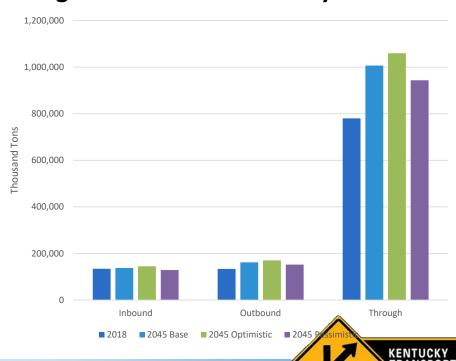
#### **Market Outlook**

- Diversion potential from diverse commodity categories
- Mix of agriculture, resource and manufactured commodities in the region.
- Hinterland of 37 counties in Kentucky and Indiana



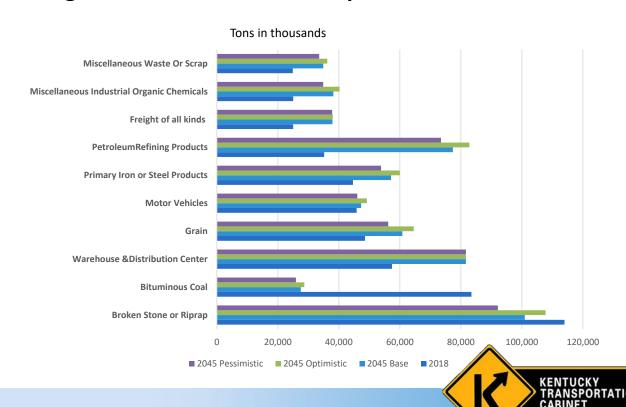
#### **Modal Freight Forecast Scenarios**





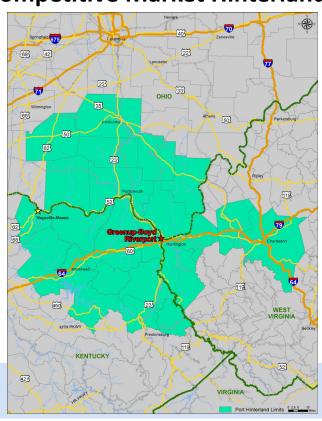
#### **Key commodity growth:**

- Broke stone, riprap #1
- Mixed consumer products in warehouses are #2
- Petroleum Products #3
- Grain #4
- Iron and Steel #5
- Motor Vehicles #6
- Coal falls from #2 to #9



# Greenup-Boyd County Riverport Authority

#### **Competitive Market Hinterland**

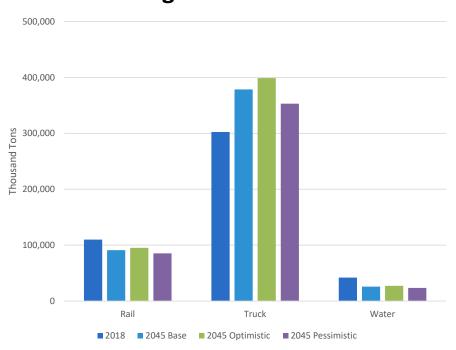


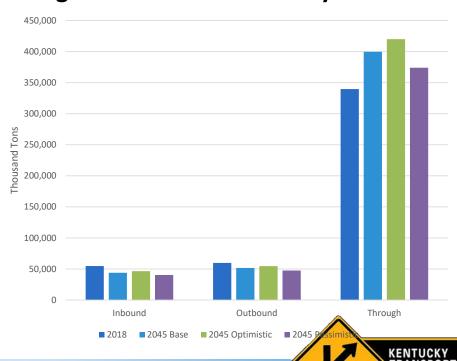
#### **Market Outlook**

- Coal volume decline challenging
- Growth in several manufactured and resource commodity categories provides growth opportunities
- Hinterland of 25 counties in Kentucky,
   Ohio and West Virginia



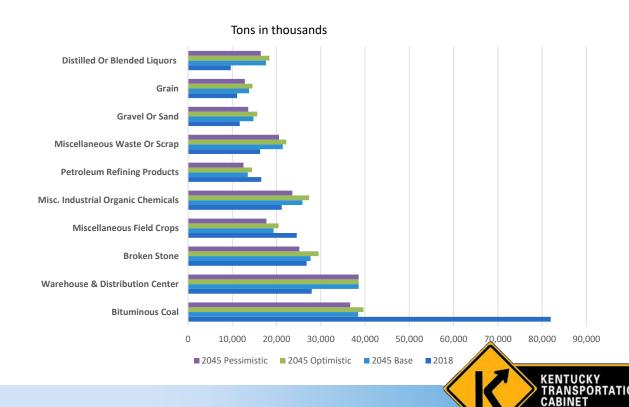
#### **Modal Freight Forecast Scenarios**





#### **Key commodity growth:**

- Coal down but still #1 or #2
- Mixed consumer products in warehouses are #2
- Broken stone #3
- Industrial Chemicals #4
- Waste or Scrap #5
- Field Crops #6
- Liquors #7

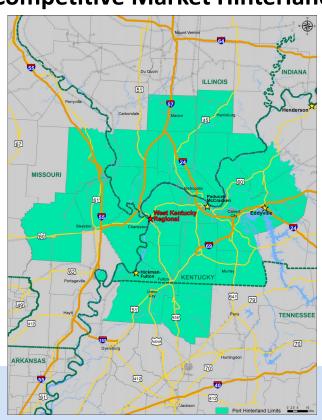


### Developing Public Riverports in Kentucky



# West Kentucky Regional Riverport Authority

#### **Competitive Market Hinterland**

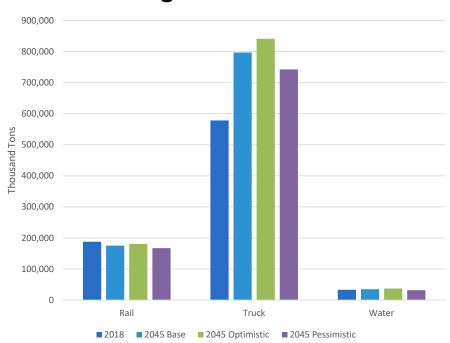


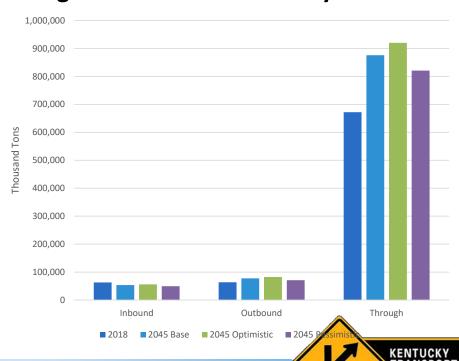
#### **Market Outlook**

- Potential from rail and truck commodity growth regionally
- Variety of agricultural, resource and manufactured growth categories provide opportunities
- Hinterland of 27 counties in Kentucky, Illinois and Missouri



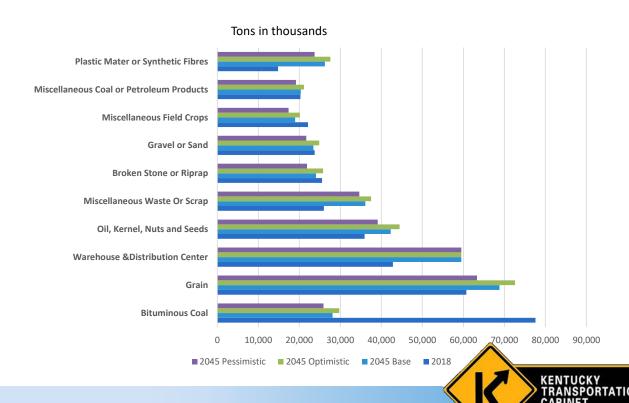
#### **Modal Freight Forecast Scenarios**





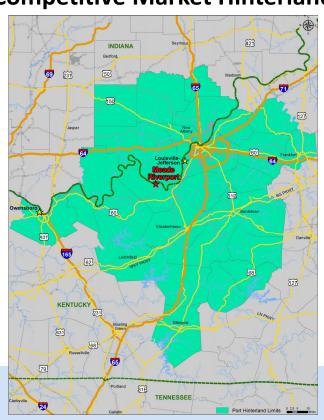
#### **Key commodity growth:**

- Grain replaces coal as #1
- Mixed consumer products in warehouses are #2 but with diversion challenges
- Soybeans in oil, kernel, nuts and seeds #3
- Waste and scrap #4
- Plastics & synthetics #5



# Meade County Riverport Authority

#### **Competitive Market Hinterland**

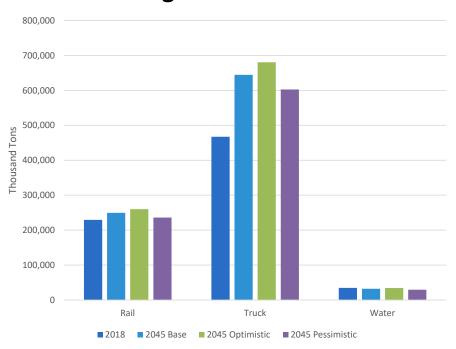


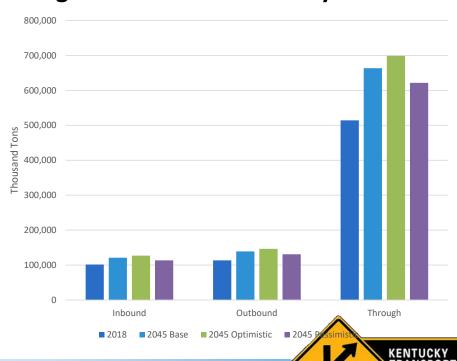
#### **Market Outlook**

- Potential from agriculture, resource commodity growth
- Iron and steel growth with Nucor
- Hinterland of 29 counties in Kentucky and Indiana



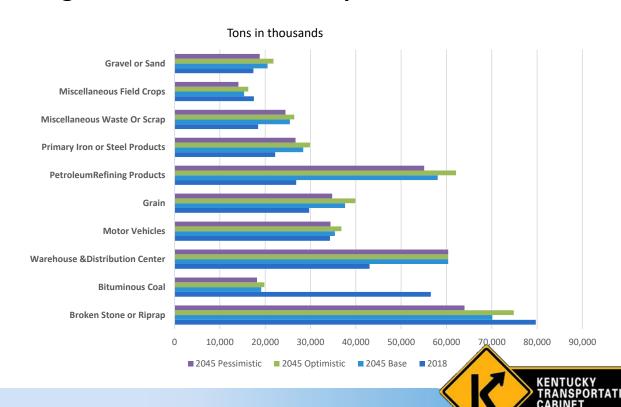
#### **Modal Freight Forecast Scenarios**





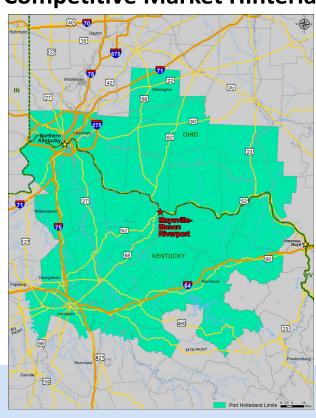
#### **Key commodity growth:**

- Broken stone, riprap #1
- Mixed consumer products in warehouses are #2 but with diversion challenges
- Petroleum Products #3
- Grain #4
- Motor Vehicles #5
- Iron or Steel Products #6
- Coal falling from #2 to #9



# Maysville-Mason County Riverport Authority

#### **Competitive Market Hinterland**

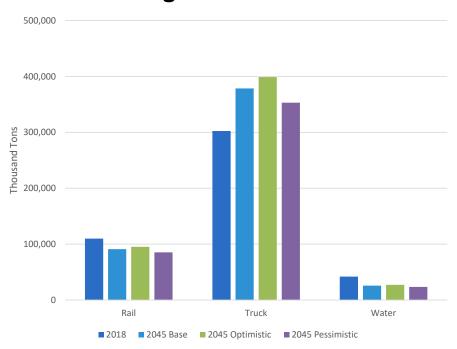


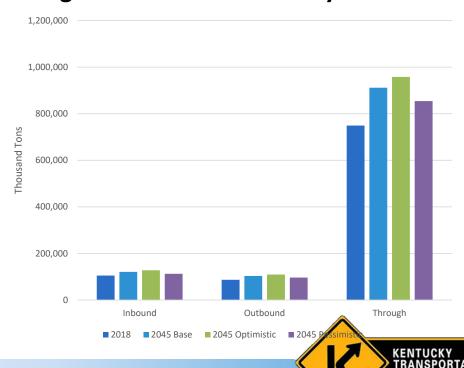
#### **Market Outlook**

- Potential from location between Northern Kentucky, Southern Ohio and West Virginia
- Hinterland of 32 counties in Kentucky and Ohio



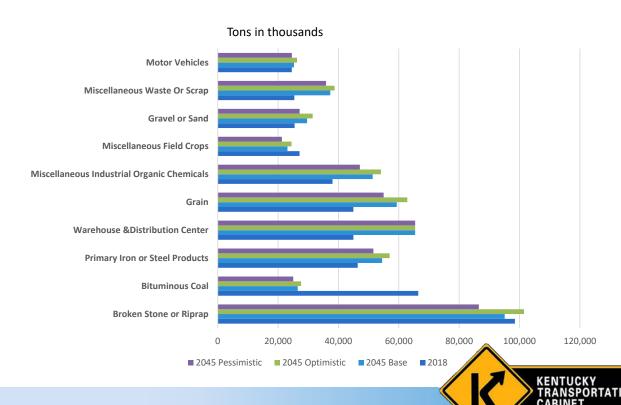
#### **Modal Freight Forecast Scenarios**





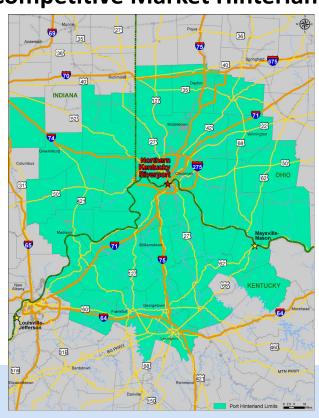
#### **Key commodity growth:**

- Broken stone, riprap #1
- Mixed consumer products in warehouses are #2 but with diversion challenges
- Grain #3
- Iron or Steel Products #4
- Industrial Chemicals #5
- Waste and Scrap #6
- Coal falling from #2 to #9



# Northern Kentucky Riverport

#### **Competitive Market Hinterland**

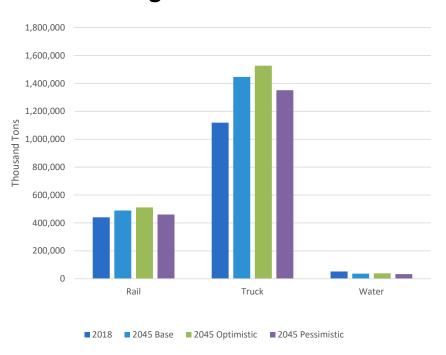


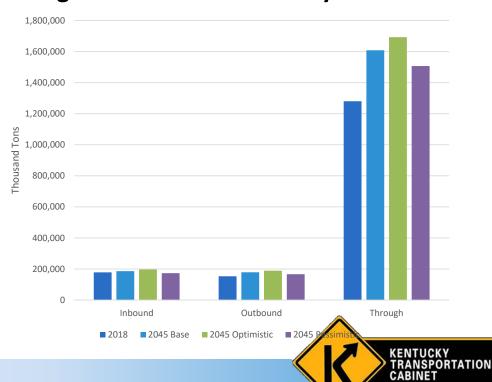
#### **Market Outlook**

- Cincinnati metro area economy continues to offer development potential
- Hinterland of 44 counties in Kentucky,
   Ohio and Indiana



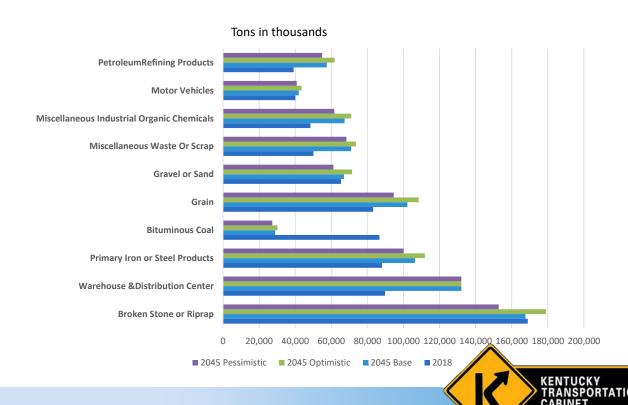
#### **Modal Freight Forecast Scenarios**





#### **Key commodity growth:**

- Broken stone, riprap #1
- Mixed consumer products in warehouses are #2 but with diversion challenges
- Iron or Steel Products #3
- Grain #4
- Waste or Scrap #5
- Industrial Chemicals #6
- Coal falling from #4 to #10



### **QUESTIONS AND COMMENTS**



### **Summary of Graphics**

- National Scale: Magnitude and percent change in truck-base water-divertible commodities
- Regional: County/region-based market size and percent change
- Corridors: Identifies corridors with significant truck-based flow that also have a reasonable water-based path.
- State level: Network analysis of total truck load, divertible load, and port-county divertible.
- Sub-State (three regions): 3D Network views of Port County flows:
  - Water divertible vs Not divertible
  - 2018 Divertible vs 2045 Divertible
  - Pct change in divertible from 2018 to 2045





### **National Scale**

• Magnitude and percent change in truck-base water-divertible commodities





### **2018 Water-Divertible Commodities**

Increasingly significant
Increasingly significant
Increasingly significant
Increasingly significant
Strong to/from KY

 Some corridors have potential for diversion, while others do not.





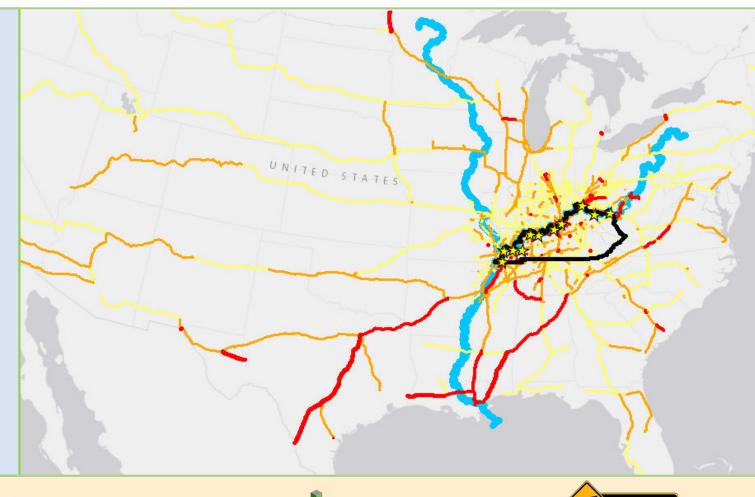


### 2018 to 2045 Growth in Water-Divertible Commodities

• Yellow: Up to 25%

• Orange: Up to 50%

• Red: More than 50%







### **Regional Scale**

• Regional: County/region-based market size and percent change



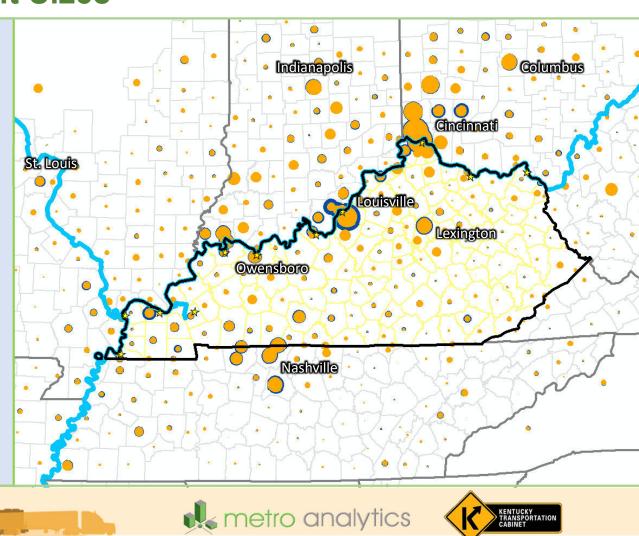


### **Water Divertible Shipment Sizes**

• Orange: 2018 market size

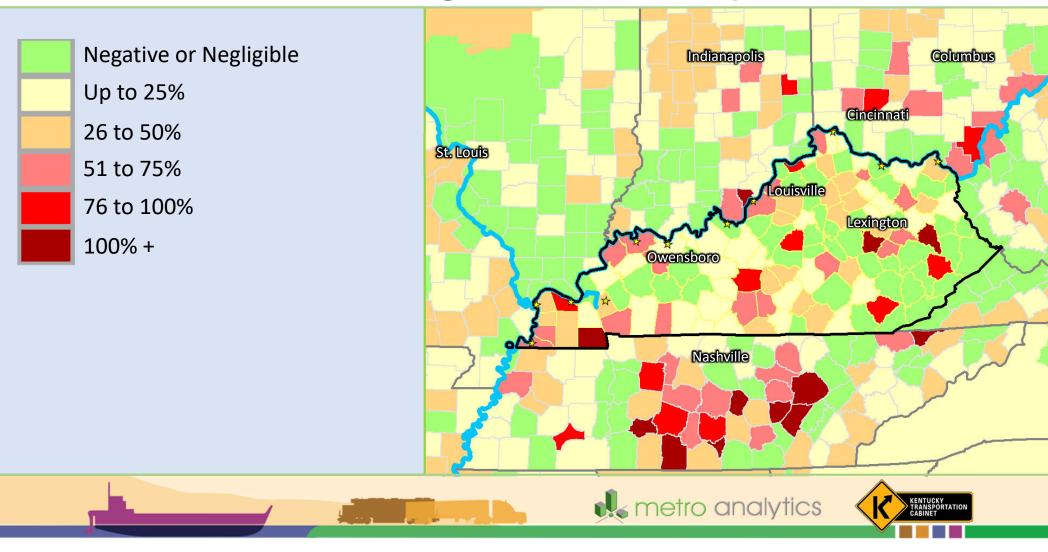
Blue: 2045 market size

Louisville shows the strongest growth, followed by Nashville and suburbs of Cincinnati.

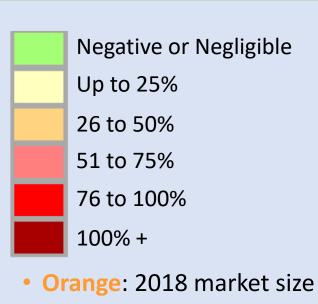




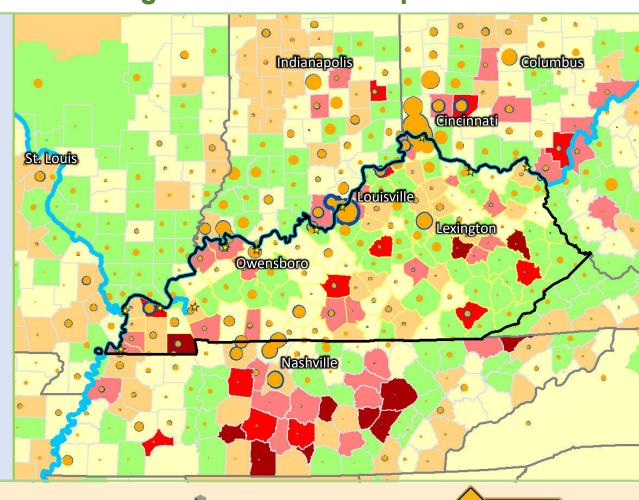
### 2018 to 2045 Percent Change in Divertible Shipment Sizes



### Market Size + 2018-2045 Percent Change in Divertible Shipment Sizes



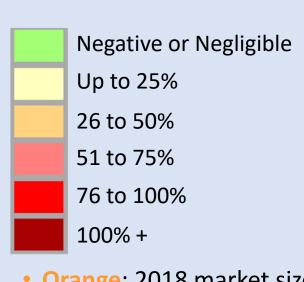
Blue: 2045 market size





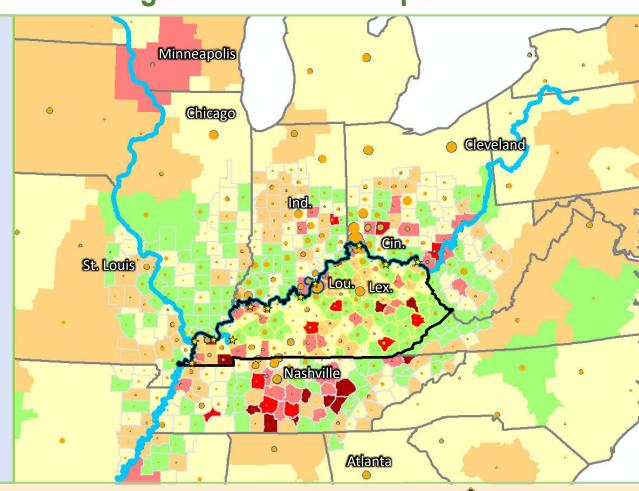


### Market Size + 2018-2045 Percent Change in Divertible Shipment Sizes



Orange: 2018 market size

Blue: 2045 market size







### **Corridor Analysis**

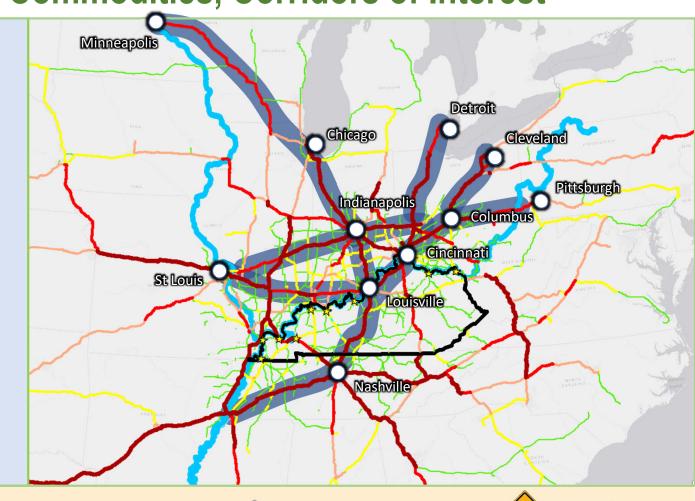
• Identifies corridors with significant truck-based flow that also have a reasonable water-based path.





2018 Water-Divertible Commodities, Corridors of Interest

 These corridors ship significant waterdivertible commodities by truck, but also tend to have waterway paths available for the majority of the trip.







2018 to 2045 Water-Divertible Growth, Corridors of Interest

• Yellow: Up to 25%

• Orange: Up to 50%

• Red: More than 50%







#### **State-Level Corridor Analysis**

• Network analysis of total truck load, divertible load, and port-county divertible.



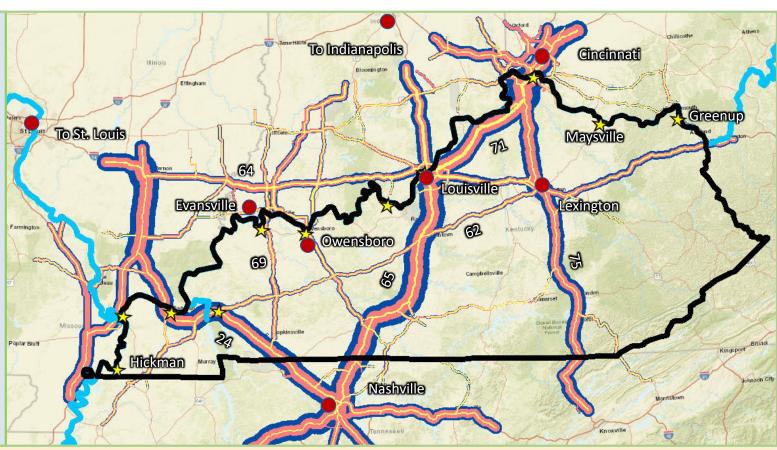


#### 2018, Total Loads vs Water Divertible

 Blue: Total Truck-Base Loads

Pink: Water-Divertible

Yellow:
 Water Divertible, Port
 County Origin / Destination





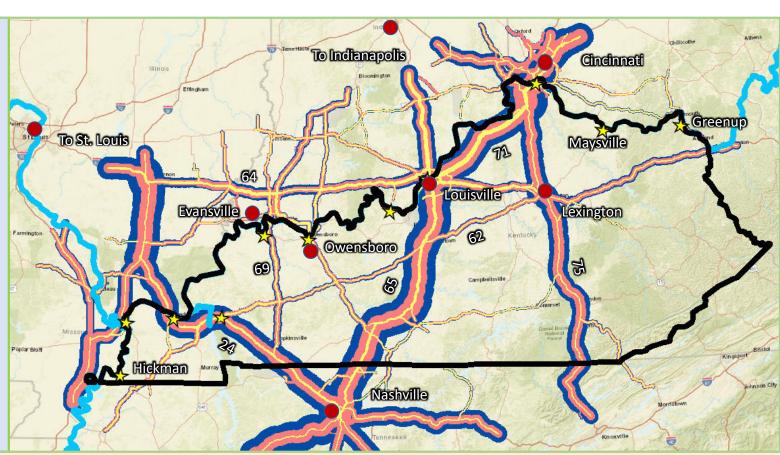


#### 2045, Total Loads vs Water Divertible

 Blue: Total Truck-Base Loads

Pink: Water-Divertible

Yellow:
 Water Divertible, Port
 County Origin / Destination









### Welcome to the Second Kentucky Summit

Economic Development
Strategies to Leverage
Kentucky Riverports
and Freight Network



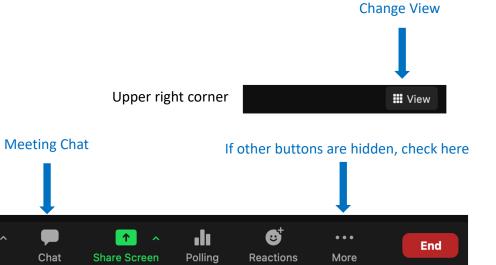
### **Zoom Tips**

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**Display Reactions to Speakers** 

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Chat

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In the upper right corner you can select "speaker view" or "gallery view"



# Kentucky Summit on Economic Development Strategies to Leverage Kentucky Riverports and Freight Network

- All sessions will be recorded
- Attendees can participate in sessions via Zoom – video and/or audio

**Opening Session** 

March 24, 10:00 to 10:45 am

2021 Changes in Federal Transportation & Trade Policies

March 24, 1:00 to 1:45 pm

What's New in the Neighborhood? Updates from Adjacent State Ports

March 24, 2:00 to 3:00 pm

Forecasting the Future of KY's Freight Economy

March 25, 10:00 to 11:45 am

How will the Future of Freight Impact Other Modal Operations?

March 25, 1:30 pm to 2:30 pm

Port Infrastructure Needs & KY's Funding Process

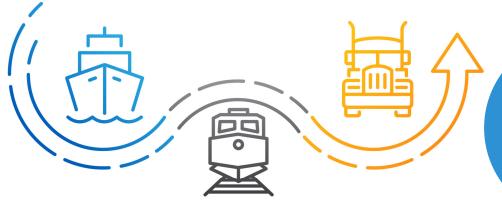
March 25, 3:00 to 4:00 pm

Economic Development & Riverport Markets

March 26, 10:00 am to 12:00 pm







How will the Future of Freight impact other Modal Operations?

KENTUCKY RIVERPORTS, HIGHWAY & RAIL FREIGHT STUDY

Welcome to the Second Kentucky Summit Economic Development Strategies to Leverage Kentucky Riverports and Freight Network

#### **Speakers**

Ken Eriksen IHS Markit (Moderator)

Tim Kizer Riverport of Louisville

William Downey RJ Corman Railroad

P.J. Donovan US Army Corps

#### <u>Agenda</u>

 Panel Discussion on the impact of Projected Growth on Modal Operations



# Questions





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Economic Development
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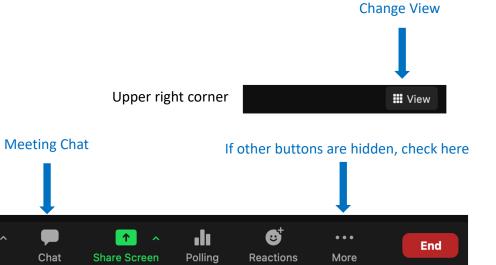
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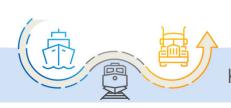
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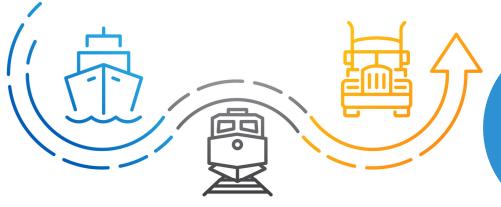
March 25, 3:00 to 4:00 pm

Economic Development & Riverport Markets

March 26, 10:00 am to 12:00 pm







## Freight Infrastructure Needs & Kentucky's Funding Process

KENTUCKY RIVERPORTS, HIGHWAY & RAIL FREIGHT STUDY

Welcome to the Second Kentucky Summit Economic Development Strategies to Leverage Kentucky Riverports and Freight Network

#### **Speakers**

Lindsay Hoskins Qk4, Inc.

#### <u>Agenda</u>

- Overview of KYTC's Funding Processes
- Breakout Groups: Your input on Freight Infrastructure Needs







Responsible for preparing the programming documents for authorization of state and federal funding for the Preliminary Engineering (PE) and Environmental, Design, Right-of-Way, Utility, and Construction phases of KYTC projects.





#### Division of Program Management

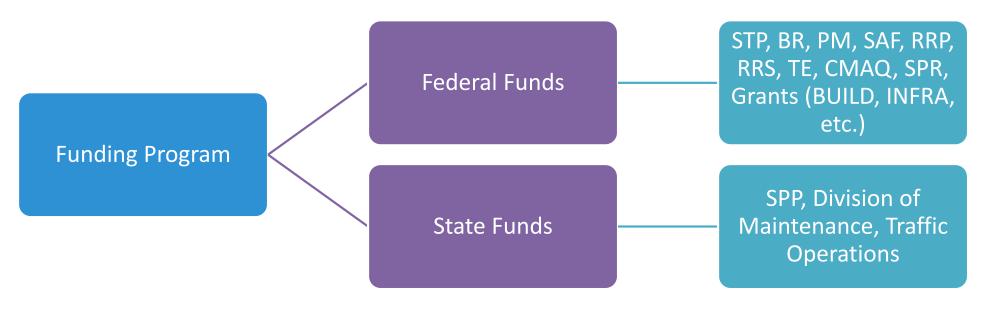
- Develops and monitors Six-Year Highway Plan (SYP)
- Develops and monitor Statewide Transportation Improvement Program
- Monitors project expenditure for "cash flow balances"
- Processes requests for state and federal funding
- Prepares state and federal funding authorization documents
- Monitor Oracle SYP Preconstruction Status System and prepares monthly reports

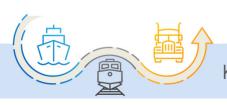
- Provides and maintains web-based location maps of SYP projects
- Monitors federal funding and prepares weekly reports
- Prepares Federal Discretionary Funding applications
- Coordinates federal funding eligibility checks for Congressional-earmarked projects
- Prepares ad-hoc special reports
- Performs Geographic Information Systems (GIS) and dynamic internet data collection





#### How are KYTC Projects Funded?







#### Six-Year Highway Plan Process

Recommended Highway Plan Kentucky General Assembly Review + Revisions

**Enacted Highway Plan** 





#### FEDERAL AND STATE HIGHWAY FUNDING LEVELS AVAILABLE FOR OBLIGATION FROM 2021 THRU 2026 (\$6.1 billion estimated by the Kentucky Transportation Cabinet)







FAST Act Federal Funding Category	PERCENT OF REQUIRED MATCHING FUNDS	FY-2021 COMBINED FEDERAL AND MATCHING FUNDS	FY-2022 COMBINED FEDERAL AND MATCHING FUNDS	FY-2023 COMBINED FEDERAL AND MATCHING FUNDS	FY-2024 COMBINED FEDERAL AND MATCHING FUNDS	FY-2025 COMBINED FEDERAL AND MATCHING FUNDS	FY-2026 COMBINED FEDERAL AND MATCHING FUNDS	2020-2026 COMBINED FEDERAL AND MATCHING FUNDS
Available Federal-Aid Highway Funding		736	736	736	736	736	736	
GARVEE BOND DEBT SERVICE PAYMENTS (NH) (Toll Credits Matching Funds)	Toll Credits	81	81	72	72	72	72	450.0
Federal Funding for Expenditures on Previous Funded Projects		100	100	100	0	0	0	300.0
Bridge Asset Management Program (BR)	20%	64	64	64	64	64	64	384.0
Preventive Pavement Management Program (PM)	20%	64	64	100	100	100	100	528.0
Surface Transportation Program Dedicated Funding (Requires 20 Percent Local Matching Funding)								
STP-Henderson (SHN)(With 20% Local Matching Funds)	20%	0.8	0.8	0.8	8.0	0.8	8.0	4.5
STP-Louisville (SLO)(With 20% Local Matching Funds)	20%	21.8	21.8	21.8	21.8	21.8	21.8	130.8
STP-Lexington (SLX)(With 20% Local Matching Funds)	20%	7.6	7.6	7.6	7.6	7.6	7.6	45.6
STP-Northern Kentucky (SNK)(With 20% Local Matching Funds)	20%	8.6	8.6	8.6	8.6	8.6	8.6	51.6
STP-Huntington/Ashland (SAH)(With 20% Local Matching Funds)	20%	1.5	1.5	1.5	1.5	1.5	1.5	9.0
Combined Dedicated MPO Funding	_	40.3	40.3	40.3	40.3	40.3	40.3	241.5
Dedicated Federal-aid Highway Funding (Requires Matching Funding)								
Highway Safety/High Risk Rural Road (SAF) (With 10% State Match)	10%	39.0	39.0	39.0	39.0	39.0	39.0	234.0
Rail Protective Devices (RRP) (With 10% State Match)	10%	2.0	2.0	2.0	2.0	2.0	2.0	12.0
Rail Separation (RRS) (With 10% State Match)	10%	2.0	2.0	2.0	2.0	2.0	2.0	12.0
Transportation Enhancement (TE) (With 20% Local Match)	20%	10.0	10.0	10.0	10.0	10.0	10.0	60.0
Congestion Mitigation (CMAQ)(With 20% Local Match)	20%	14.4	14.4	14.4	14.4	14.4	14.4	86.4
Federal SPR and Research Program (With 20% State Match)	20%	14.5	14.5	14.5	14.5	14.5	14.5	87.0
Metropolitan Planning (With 20% Local Match)	20%	2.7	2.7	2.7	2.7	2.7	2.7	16.2
Combined Dedicated Statewide Federal Funding		84.6	84.6	84.6	84.6	84.6	84.6	507.6
Federal Funding for Recommended Highway Plan Projects		302.2	302.2	275.2	375.2	375.2	375.2	2,004.9
Summary of Anticipated Federal-Aid Highway Funding		\$736.0	\$736.0	\$736.0	\$736.0	\$736.0	\$736.0	4,416.0

#### NOTE

- 1) Mandated GARVEE Bond Debt Service Payments of \$81 million in FY 2021; \$81 million in FY 2022; \$72 million in FY 2023; \$72 million in FY 2024; \$72 million in FY 2025; and \$72 million in FY 2026; having a combined total of \$531 Billion.
- 2) No projected allocations of future Congressional HPP or KYD earmark funding
- 3) No remaining "Toll Credits" available for required state match on new obligations during FY 2020 through FY 2026.
- 4)"Toll Credits" used as matching funds on GARVEE Bond Debt Service Payments and on expenditures of previously obligated federal funded projects.

KENTUCKY RIVERPORTS, HIGHWAY & RAIL FREIGHT STUDY







The **S**trategic **H**ighway Investment **F**ormula for **T**omorrow is the Kentucky Transportation Cabinet's data-driven, objective approach to compare capital improvement projects and prioritize limited transportation funds







• Helps Reduce Overprogramming

• Provides a clear roadmap for construction in the coming years

 Applies to all transportation funding that isn't prioritized by other means, such as maintenance work, local government projects, and dedicated federal projects.





# Five Key Attributes of SHIFT

Projects are scored based on five key attributes



 Uses measurable data to assess need for and benefits of planned projects and compare them to each other









The List



**Local Boosting** 



**Sponsorship** 



**Regional Priorities** 





**Review and Scoring** 



**Recommended State Highway Plan** 



**Statewide Priorities** 



**Enacted State Highway Plan** 









#### SHIFT Kentucky Ahead

Strategic Highway Investment Formula for Tomorrow

- Underway for the development of the 2022
   Recommended Highway Plan
- Process includes several refinements to scoring metrics and the prioritization process based on feedback and experience

	Timeline	Action	Acting Party		
Sponsorship	now - 5/14 2021	Projects are Sponsored for consideration in SHIFT	Area Development District (ADD), Metropolitan Planning Organization (MPO) Highway District Office (HDO)		
Project Data Review and Updates	5/3 - 6/25 2021	Data is verified, travel time and economic modeling is conducted, project costs and schedules are updated.	Central Office, HDO, ADD, MPO		
Statewide Priorities	6/28 - 7/16 2021	Statewide projects (generally interstate and parkway projects) are scored in the SHIFT model. Statewide priorities are established through a balance of SHIFT scores, project schedules, and available funding.	Central Office and HDO		
Local Boosting	7/19- 9/14 2021	Regional Projects and Statewide projects that did not make the Statewide Priority List are scored in the SHIFT model. ADDs, MPOs, and KYTC Districts determine which projects in their areas to boost.	Central Office, ADD, MPO, and HDO		
Regional Priorities	9/15 - 10/8 2021	District / Local (ADD/MPO) Priorities Plans are submitted outlining how the public was engaged and how boosting determinations were made/ Regional Summits are held to discuss priority projects.	ADD, MPO, HDO		
Recommended Highway Plan	10/11 - 12/27 2021	KYTC Develops Recommended Six Year Highway Plan (includes SHIFT and non-SHIFT elements)	Central Office		







Freight Infrastructure Needs & Kentucky's Funding Process

**Breakout Session** 

Welcome to the Second Kentucky Summit Economic Development Strategies to Leverage Kentucky Riverports and Freight Network

#### Outreach to Identify Infrastructure Needs

Increased Funding

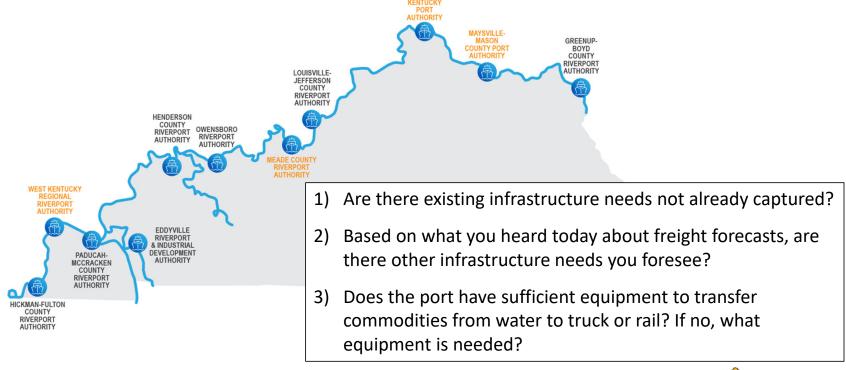
Stable Funding

Marketing Support





#### Outreach to Identify Infrastructure Needs to Support Riverports







#### **Breakout Session Overview**

- Each group will have 20 minutes
- Review each question and discuss accordingly
- Team members will take notes
- After 20 minutes has elapsed, each participant will receive a prompt to return to the main meeting space. This will appear as a 1-minute countdown. If discussion is complete, you can hit enter to return. If not, you all will AUTOMATICALLY be pulled back into the larger group once the timer hits zero.





#### **Breakout Groups**

- West: Eddyville, Henderson, Hickman-Fulton, Paducah-McCracken
  - Lindsay (Qk4) & Kevin (Metro Analytics)
- Central/East: Owensboro, Louisville, Greenup-Boyd
  - Rebecca (Qk4) & Ken (IHS Markit)
- Developing: West KY Regional, Meade, Northern KY, Maysville-Mason
  - Tom (Qk4) & Jimmy (Metro Analytics

-- Breakout --



# Questions





# Kentucky Summit on Economic Development Strategies to Leverage Kentucky Riverports and Freight Network

- All sessions will be recorded
- Attendees can participate in sessions via Zoom – video and/or audio

**Opening Session** 

March 24, 10:00 to 10:45 am

2021 Changes in Federal Transportation & Trade Policies

March 24, 1:00 to 1:45 pm

What's New in the Neighborhood? Updates from Adjacent State Ports

March 24, 2:00 to 3:00 pm

Forecasting the Future of KY's Freight Economy

March 25, 10:00 to 11:45 am

How will the Future of Freight Impact Other Modal Operations?

March 25, 1:30 pm to 2:30 pm

Port Infrastructure Needs & KY's Funding Process

March 25, 3:00 to 4:00 pm

Economic Development & Riverport Markets

March 26, 10:00 am to 12:00 pm







### Welcome to the Second Kentucky Summit

Economic Development
Strategies to Leverage
Kentucky Riverports
and Freight Network

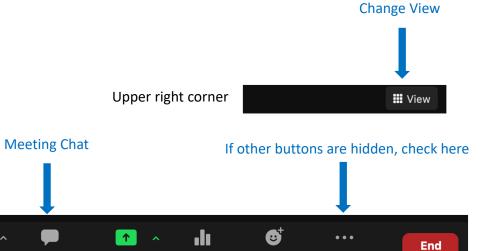


### **Zoom Tips**

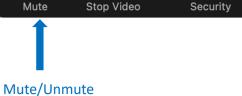
These sessions are being recorded

Turn Camera

On/Off



Bottom bar



\_ ^

Display Reactions to Speakers

Reactions

More

Please keep your microphone muted when you are not speaking

Please use the chat button to submit questions to the speakers or wait until the Question and Answer portion of the session

9 ^

Chat

**Participants** 

Please use the "Reactions" button to raise or lower your hand or provide other non-verbal feedback to the host (if enabled)

**Share Screen** 

Polling

In the upper right corner you can select "speaker view" or "gallery view"



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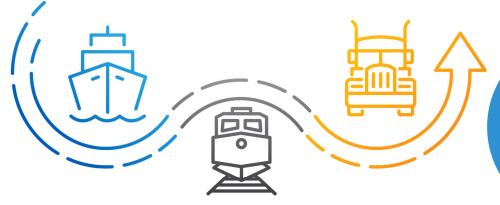
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March 26, 10:00 am to 12:00 pm







# Economic Development & Riverport Markets

KENTUCKY RIVERPORTS, HIGHWAY & RAIL FREIGHT STUDY

Welcome to the Second Kentucky Summit Economic Development Strategies to Leverage Kentucky Riverports and Freight Network

#### **Speakers**

Anthony Ellis Kentucky Innovation

Adam Wasserman International Economic Development Council

Derek Cutler EBP

Matt Yates Port of Louisville





## **Anthony Ellis**

Anthony Ellis is Executive Director of Kentucky Innovation. A priority for Anthony and the State of Kentucky is the creation of Innovation Hubs. Innovation represent Kentucky's approach to building vibrant, regional innovation clusters across the state and growing the overall economy. This strategy modernizes Kentucky's support for entrepreneurs and high-tech, high-growth-potential startups by leveraging each region's unique strengths. The hubs unite universities, established companies and industry sectors, entrepreneurs, business accelerator and incubator programs and many other public and private entities to best serve business founders across the commonwealth. The innovation hub network currently includes three inland riverports. Anthony Ellis previously served as the Cabinet's general counsel since December 2019. He graduated from Catholic University of America with a degree in international economics and finance and earned his law degree from George Washington University. Ellis worked as a partner at a Louisville-based firm and for the past four years managed his own firm, The Ellis Law Group PLLC, one of two businesses he founded.

Anthony.Ellis@ky.gov







# KY INNOVATION

Anthony Ellis, Executive Director





### WHERE WE'VE BEEN

- 2001: KY Governor creates the Kentucky Innovation Act, establishing three state investment funds to support innovation. Contracts with Kentucky Science and Technology Corporation (KSTC) to manage fund.
- **Early 2000s**: KY creates KY Innovation Network, 12 regional offices. Contracts with KSTC to manage them.
- 2018: Contracts cancelled, funds paused.











## **CURRENT PROGRAMS**





## KY INNOVATION HUBS

Partnered with private non-profits through a competitive RFP process to create six regional KY Innovation Hubs













**CRICC Bowling Green** 











**CRICC** 













# KENTUCKY COMMERCIALIZATION VENTURES (KCV)

A public-private partnership to commercialize university technology:

- EIR Program Executive Attraction
- Working with inventors at public institutions
- Identifying and advancing innovations
- Statewide Tech Transfer Office
- Legal Clinics/IP Work for Free
- Moving IP toward market-ready products and services
- Creating high-growth potential startups

#### **SBIR/STTR SUPPORT AND MATCH**

#### SUPPORT FOR SBIR/STTR

- The Kentucky Innovation Investment Program (KIIP) provides micro grants and professional services to better prepare Kentucky companies to win and manage federal SBIR/STTR grants.
- DOD accelerator to prepare companies for defense agency SBIR/STTR contracts; This pilot can be adapted for other agencies, problem sets

#### **MATCHING PROGRAM**

**Kentucky** will match, on a competitive basis, Phase 1 and Phase 2 SBIR/STTR awards.

**700** 

**Federal Awards** 

\$130M

**Federal Awards** 

**CURRENT ROUND CLOSES: April 26, 2021** 





#### **CAPITAL AND STATE FUNDING**

#### KENTUCKY ENTERPRISE FUND (KSTC)

- Investment Fund focused on early stage companies
- Portion dedicated to rural investments
- Typically 25K-50K early stage SAFE Notes/grants
- Follow on amounts up to \$750K

#### COMMONWEALTH SEED CAPITAL (CSC)

Seed and Series A investments, Fund of Funds, Impact Investing

#### ANGEL TAX CREDIT/FUND TAX CREDIT

\$3M annually each/\$6 M total credit per year. Returned in 2021





# KENTUCKY SMALL BUSINESS TAX CREDIT

- Non-refundable tax credit for businesses creating full-time jobs and investing \$5K or more in qualifying equipment or technology.
- Tax credits range from \$3,500 to \$25,000 per calendar year per applicant business.
- \$3 Million Tax Credit Allotment per State
   Fiscal Year shared with KY Selling Farmer
   Tax Credit

# KENTUCKY SMALL BUSINESS CREDIT INITIATIVE

- A tool for lenders to use on creditworthy loan requests that are just outside acceptable underwriting standards.
- The lender underwrites the loan and makes the credit decision.
- KSBCI support up to 20% on Collateral Support projects.





## **2021-2022 PRIORITIES**





## **2021-22 PRIORITIES**

- 1 Connectivity
- Metrics, Data & Transparency
- 3 Diversity, Equity & Inclusion
- 4 Industry Clusters
- 5 Maximize Investment Dollars
- 6 Talent and Innovation Attraction





# PRIORITY 4: INDUSTRY CLUSTERS

FORM THRIVING CLUSTERS AROUND REGIONAL, STATEWIDE INDUSTRY STRENGTHS

#### **GOVERNOR'S AGRITECH INITIATIVE**

- June 2020: Gov. Andy Beshear and AppHarvest spearhead an international agreement with the Dutch government and 15 other partners to establish Kentucky as America's AgriTech Capital.
- Research programs, construction of a center of excellence and the building of additional private infrastructure similar to AppHarvest's 2.76 million-square-foot farm in Morehead.

#### SUPPORT EXISTING CLUSTERS/CREATE NEW CLUSTERS

- LHCC
- Blue North Supply Chain Meetup
- Regional Cluster Recommendations in 2021







# THANK YOU

CED.ky.gov





#### Adam Wasserman

Adam Wasserman, GLD Partners is Managing Partner in economic strategy, infrastructure development, ports management and public policy. Adam has an extensive knowledge of transportation, global logistics, infrastructure, competitiveness, economic development, and finance. He has US and Europe experience in ports and economic development, delivering infrastructure and property projects such as the redevelopment of a 350-acre site to a maritime-oriented industrial district, a new \$600M marine terminal & 1200-acre international logistics park and the development of a port hinterland district around the UK's largest ports complex. Adam has public policy experience, investment plans and legislation at the US federal government, UK Government, and the EU. Adam is responsible for delivering \$4.5B of project investment. He has a MA/MBA degree in Environmental Planning and Finance and a BS degree in Real Estate and Finance from Arizona State University, international finance from the Export-Import Bank of the United States, the Thunderbird School of International Management and earned further credentials from Loyola College in International Trade. Adam has long been involved with the International Economic Development Council, American Association of Port Authorities, British Urban Regeneration Association, US Chamber of Commerce (Maritime Committee), Council for Supply Chain Management Professionals. Coalition for America's Gateway's and Corridors and the European Development Association. He is leadership roles with the International Economic Development Council.

adam@gldpartners.com



# Kentucky's Inland Ports and Economic Development Opportunity

GLOBAL LOGISTICS DEVELOPMENT PARTNERS | GLDPARTNERS



# Global Logistics Development Partners | GLDPartners



Corporate
Supply Chain
Strategy

Airport-Seaport-Inland Port Investment Districts

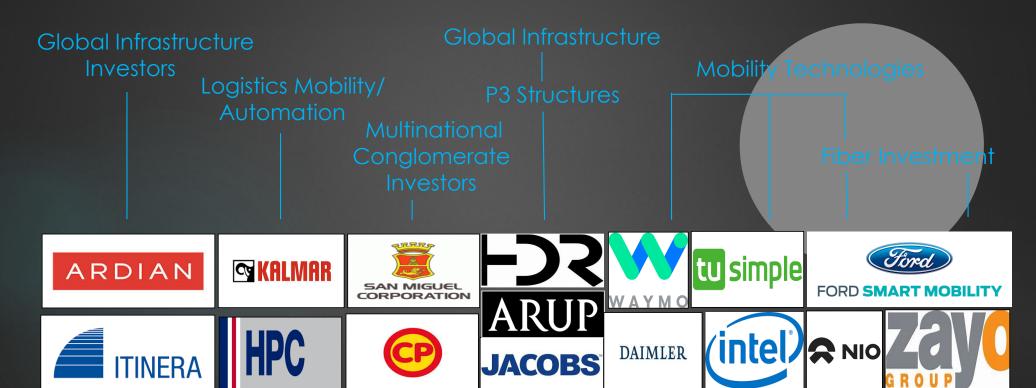
Mobility and Automation

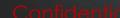
Automotive
Electronics
Pharma
Industrial Equipment
Food Production
Logistics
Aerospace

US Thailand Philippines India Indonesia UK France



# GLDPartners Project Partner Examples







# Project Examples

▶ US: California Inland Port

▶ US: Utah Inland Port

▶ US: New Mexico Mobility Strategy and Infrastructure System

▶ US: Truck and Truck/Rail Inland Port Mobility Districts

▶ US: Michigan Investment Strategy – Rail, Bridge, Airport/Inland Port

► US: Atlanta Airport Investment District

Canada: CentrePort Canada

Philippines: New Manila Airport/Seaport Investment City

▶ Thailand: Bangkok New Airport and Free Trade Zone

► UK: Edinburgh Brexit Freeport Zone

France: Airport/Inland Port Investment District (Lyon)



# Core Supply Chain Markets

- **▶** ECommerce
- Automotive
- ▶ Electronics
- Apparel
- Industrial Equipment
- Medical Products and Supplies
- ► Food Products
- ▶ Pharma





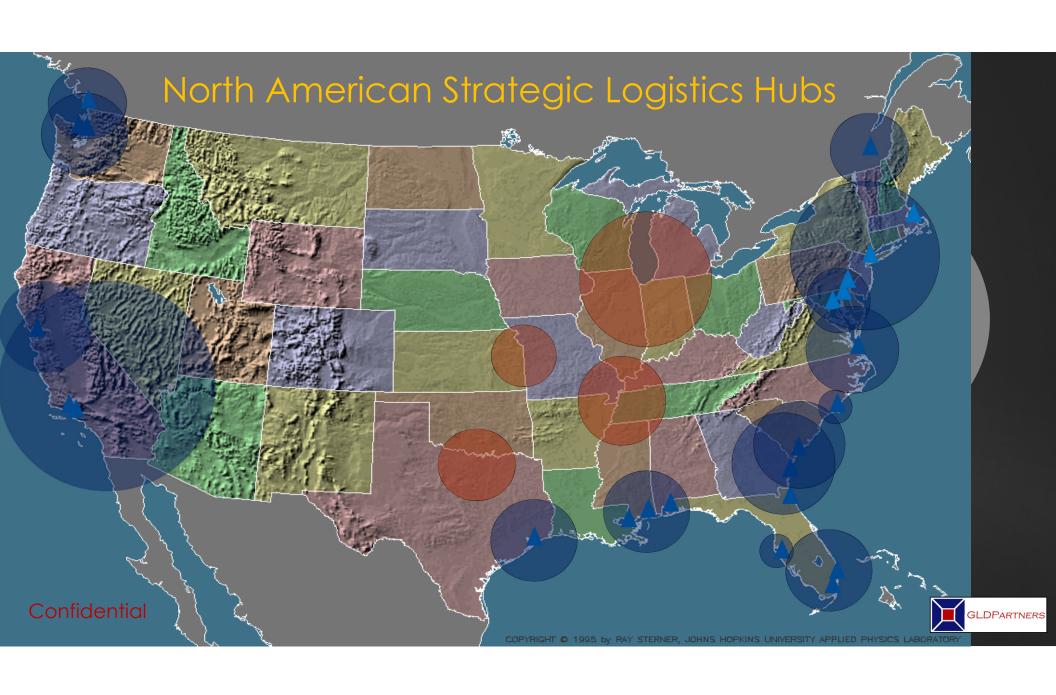
# Observations: US Inland Port System

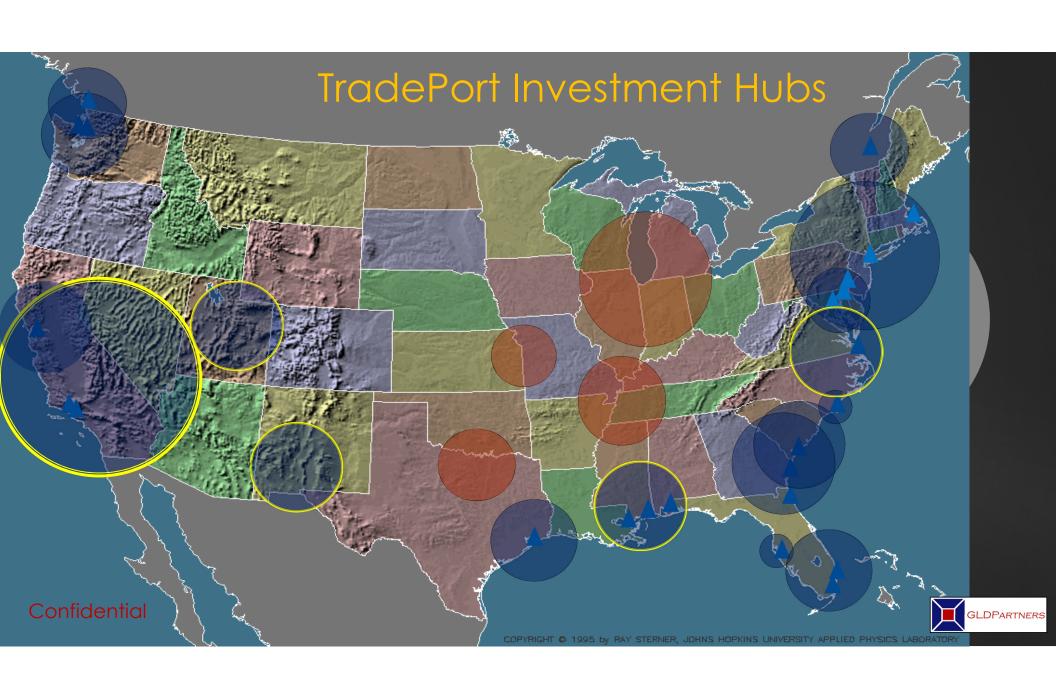
- Generally US Logistics Assets Are Underdeveloped
- ▶ Inland Ports Are Clearly the Most Underdeveloped Logistics Assets in US
- ▶ Though Generally Publicly-Owned, Assets Managed & Operate in Silos
- Many Corporate Clients Increasingly Attracted to "Portcentric" Options
- Legacy Assets, Dominated By Legacy Cargo Business
- Many With Operating Expenses (Dredging, Other) Imbalanced to Revenues
- Value to System Strategy Approach
- ▶ Some Assets Have Significant Value, But As Strategic & Multimodal Assets
- ▶ Total Product: 1) Land/Public, 2) Rail Connectivity, 3) Water Transport
- Private Investors: Looking for Underlying Value, Investable P3 Projects

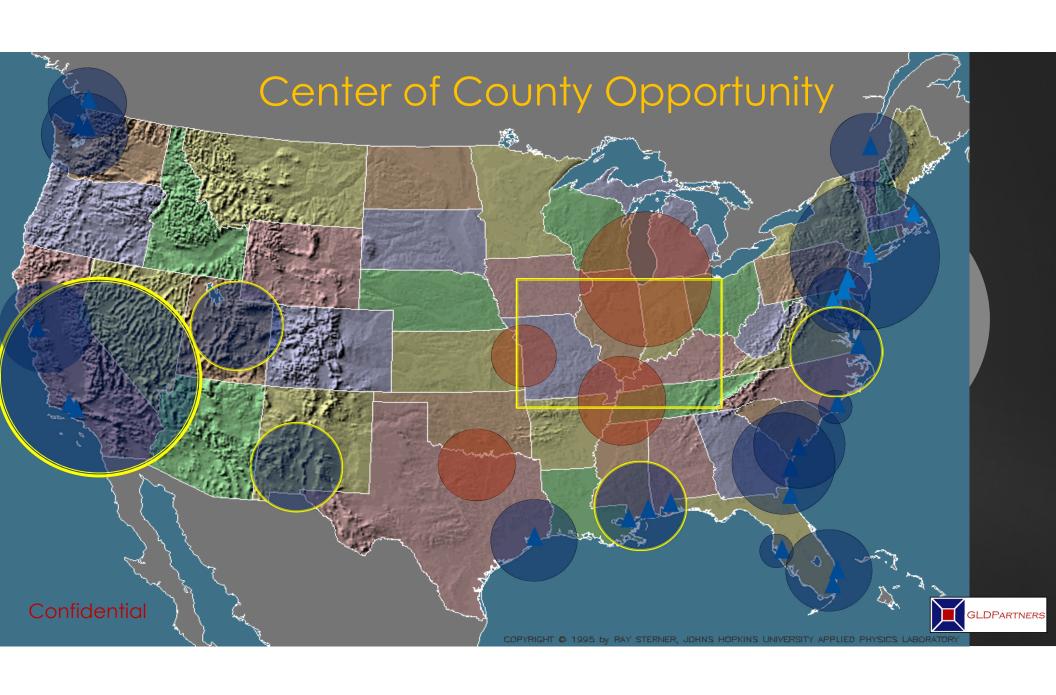


# US Market Logistics System



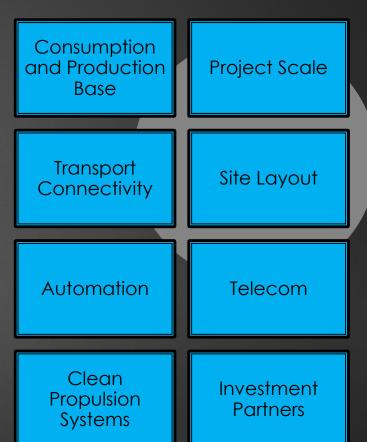




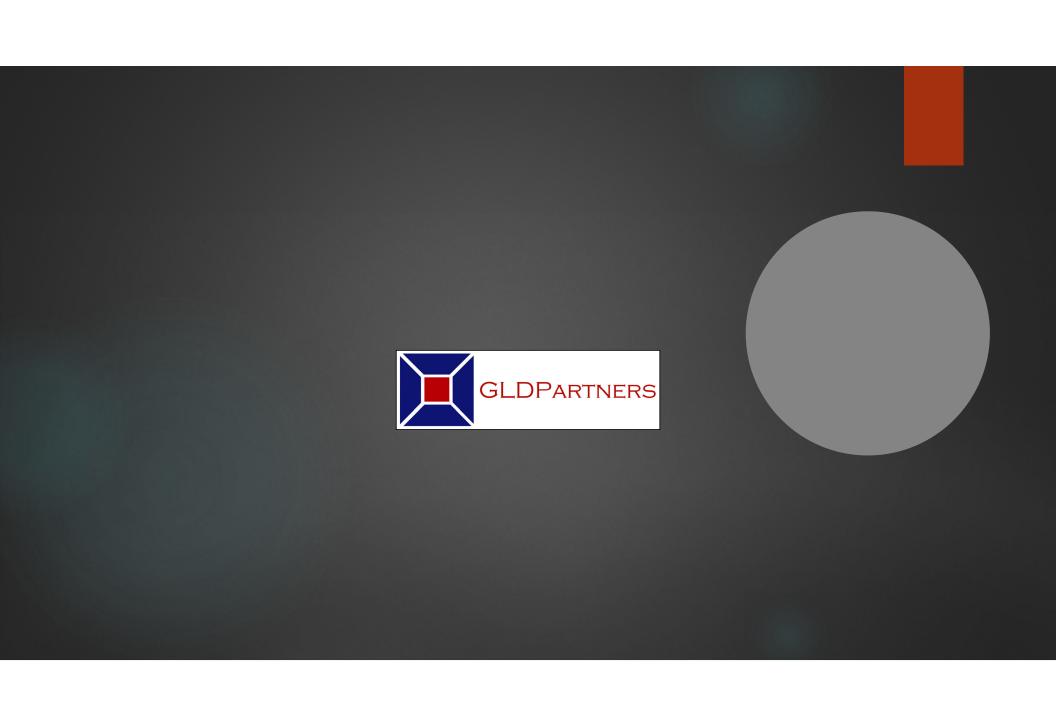


# Opportunity

- ▶ Build on Legacy Business
- Capitalize on Location and Specific Supply Chain Connectivity
- All About Multimodal
- Deepwater Partner is Valuable, Beyond PoNO
- Aggregated or Separate Product
- Multiple Locations + Assets + Connectivity + Market Proximity
- World-Class Infrastructure
- Whole-System Product Could Attract Attention of Risk Capital Partners
- ▶ Differentiator: <u>Clean and Automated</u>



GLDPARTNERS



# Seamless Efficiency Via Technology

Truck Mobility

Rail Mobility

Investment
District
Automation

Mobility Testing and Development





#### Derek Cutler

Derek Cutler is the Chief Economist at EBP. He primarily focuses on studying freight-economy relationships and models to quantify the role that infrastructure plays in supporting regional economic development. His recent work experience also includes assembling large freight and trade datasets and making and applying economic impact models for both domestic and international clients, including the recent Marine Transportation System Plan for Illinois DOT. Mr. Cutler is also senior developer of TREDIS Software, supporting development of custom impact analysis tools to support decision making.

Telephone +1 617 338 6775, x216 derek.cutler@ebp-us.com www.ebp-us.com





## **Mastering Your Data**

How to Filter the Signal From the Noise to Support Decision Making



#### Agenda

- Purpose
- Getting the Most out of your Freight Data
- Identify Behavior
  - Looking at Markets [Transearch: MI], [I-80]
- Communicate Importance
  - Integrating Freight-Economy
  - Case Study [Illinois Marine Transportation System Plan]
- ➤ Inform Solution Planning
  - Case Study [Georgia Rail]
- ➤ Integrate into Broader Analysis
  - Case Study [Transearch: MI Supply Chains]
  - Blueprint for Economic Development
  - Case Study [NC Clean Energy]
- Summary

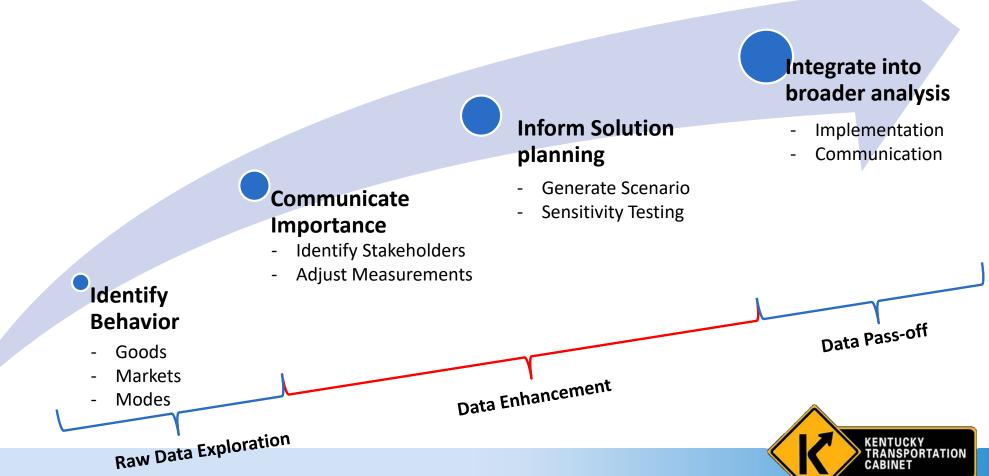


#### **Purpose:**

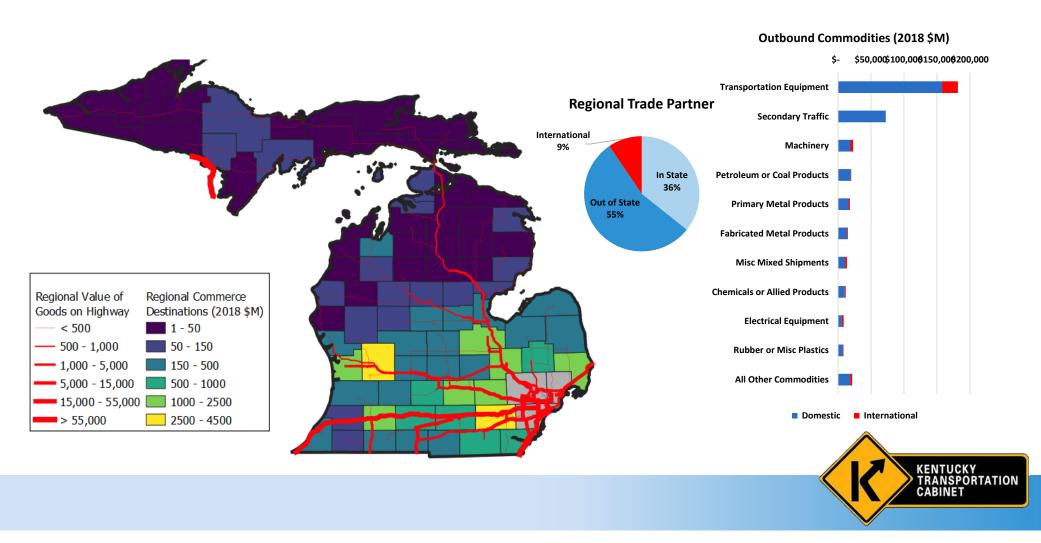
- Identify Available Resources, Capabilities
- Demonstrate Common Freight Usage
- Methods to Improve Stakeholder Engagement
- Logical Linkages to Integrate Processes



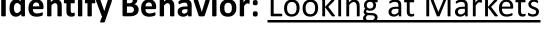
## **Getting the Most out of your Freight Data**

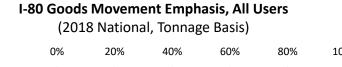


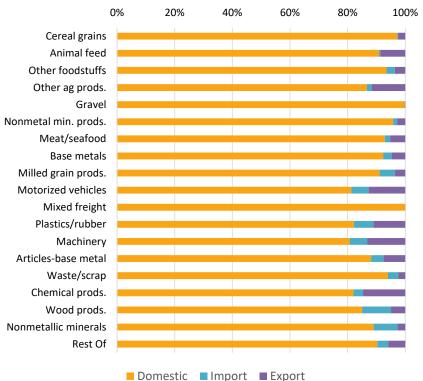
#### **Identify Behavior:** Looking at Markets



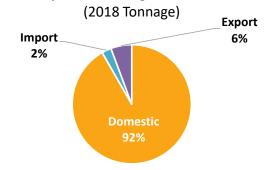
## **Identify Behavior:** Looking at Markets







#### I-80 Emphasis on Freight & Trade Served



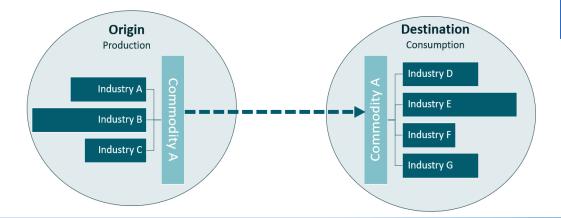
#### **Top States Using I-80 to Conduct International Trade**

(2018 Thousands of Tons)



### **Communicating Importance:** Enriching Data

- Matching the right units of measurement to the audience
- Economic models provide structural framework to increase applications

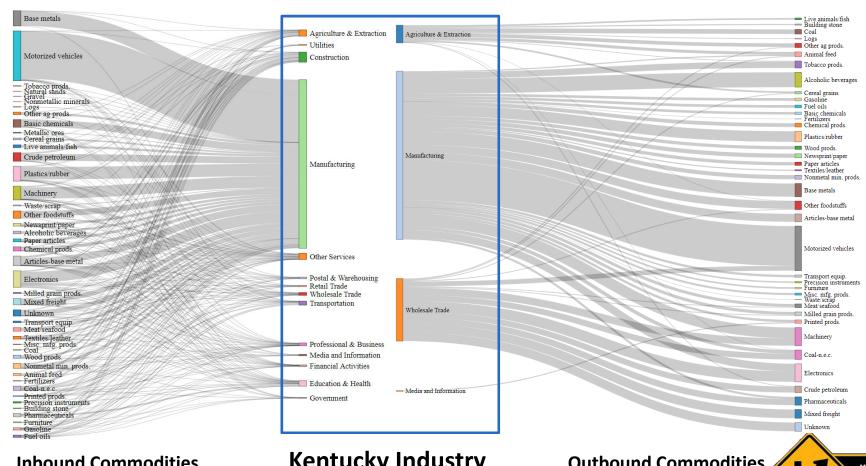


#### **Enrichment ENABLES**

- Market Analysis
- Corridor Demand
- Spatial Disaggregation
- Impact Analysis
- Forecasting
- Induced Freight Activity
- Workforce Analysis



#### Communicating Importance: Mapping the KY Freight-Economy



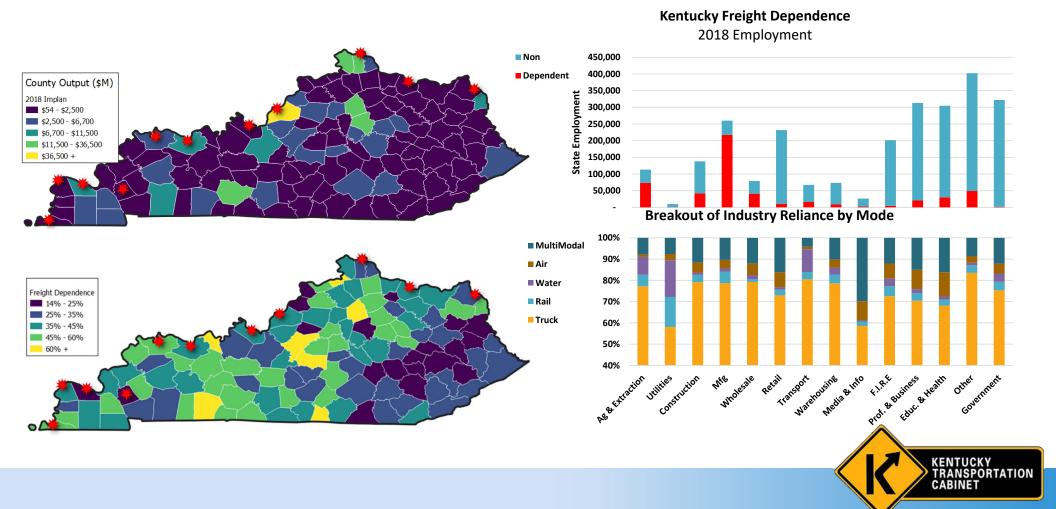
**Inbound Commodities** 

**Kentucky Industry** 

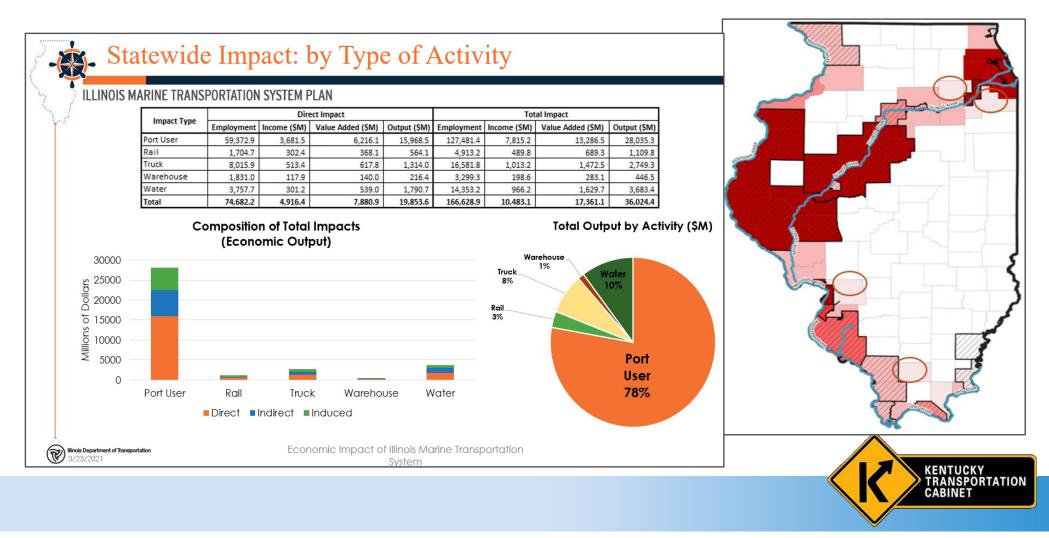
**Outbound Commodities** 



### Communicating Importance: Tying in the Human Element

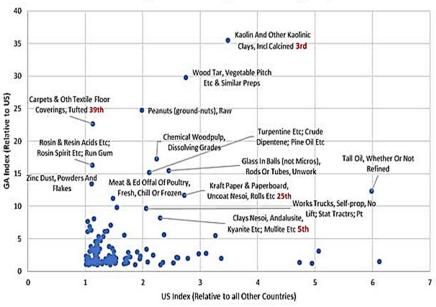


### **Communicating Importance:** Case Study



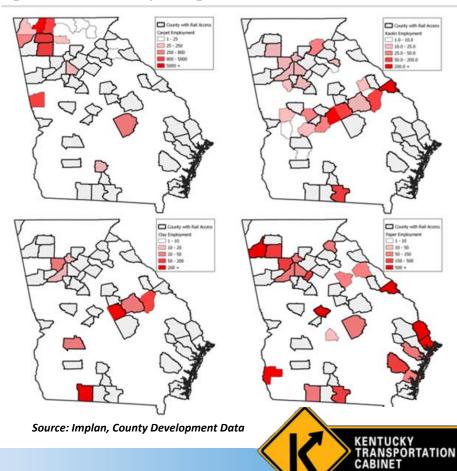
### **Inform Solution Planning:** Case Study



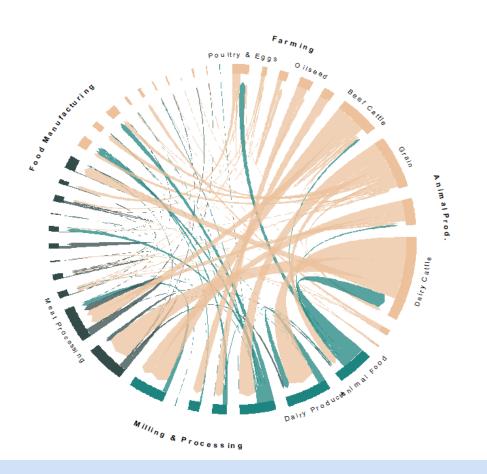


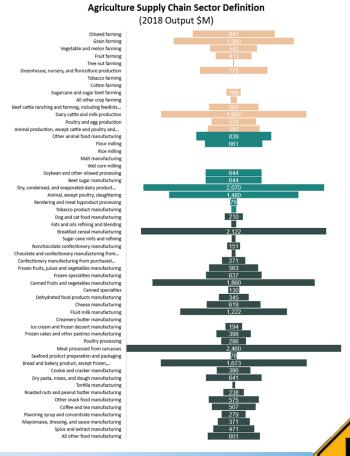
Source: USA Trade, UN COMTRADE

Figure 3. Relation of Strategic Sectors to Rail Sites



## Integrate into Broader Analysis: Case Study



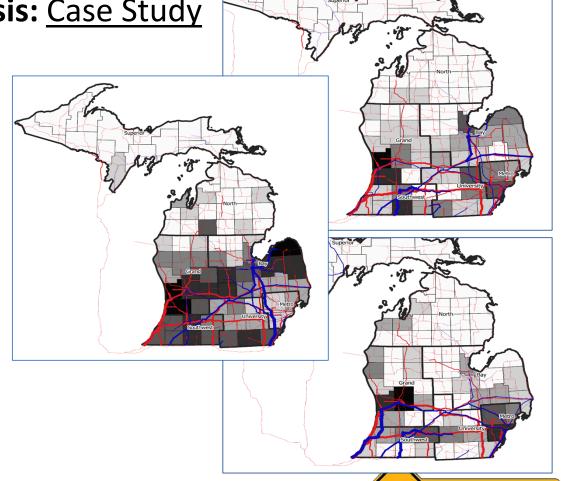


KENTUCKY TRANSPORTATION CABINET

## Integrate into Broader Analysis: Case Study

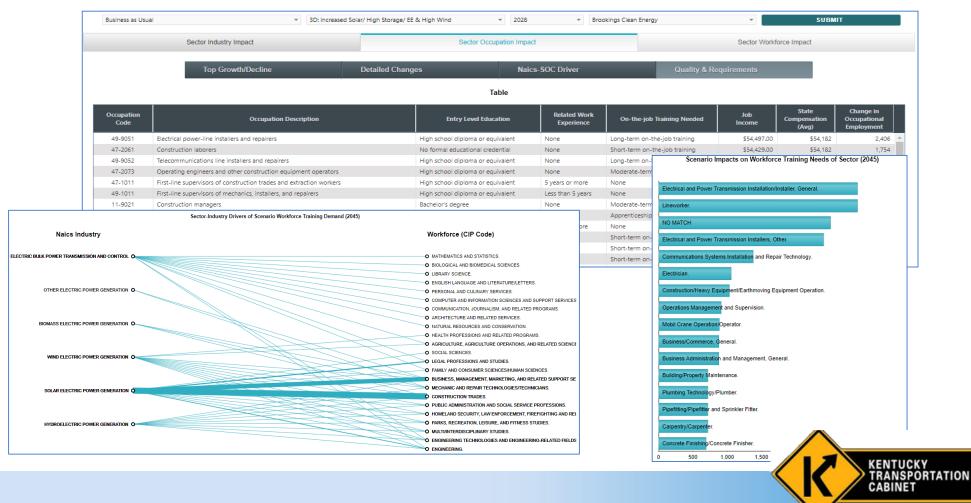
# Demonstrate which corridors matter for growth industries

- Capacity and Bottleneck implications
- Strategic investment fostering growth industries
- Trade Integration with Broader Regions



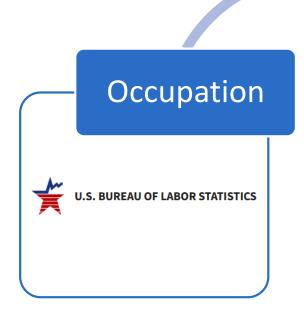


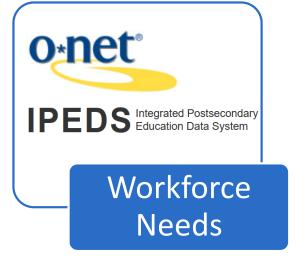
## Integrate into Broader Analysis: Case Study



# Integrating into Broader Analysis: Blueprint for Economic Development

• Impacts by Industry (NAICS)







#### Summary

- ✓ Identify Available Resources, Capabilities
- ✓ Demonstrate Common Freight Usage
- ✓ Methods to Improve Stakeholder Engagement
- ✓ Logical Linkages to Integrate Processes

#### Data might seem daunting,

but resources exist to simplify the task

# Resources Already Available to the State

- Transearch
- Vfreight
- IMPLAN
- TREDIS
- Freight Finder

#### **FREE RESOURCES**

- IPEDS
- O\*NET
- US Army Corps Data
- CENSUS' LEHD Data

#### **Additional**

Data Axle (formerly INFOUSA)



## **Thank You**

Derek Cutler <u>derek.cutler@ebp-us.com</u> (617) 338-6775 x 216



#### Matt Yates

Matt Yates is the VP of the Louisville Riverport Authority, where he handles new investment, Foreign Trade Zone, and daily operations. He has worked in economic development for a decade, previously working in Louisville Forward, and under the CFO for the city of Louisville. He resides in South End Louisville with his wife, son, and daughter where he is active in the local community ministries, his kid's sports, and making frequent trips to the lake.

matt.yates@louisvilleriverport.com



# Questions





#### **Kentucky Summit on**

Economic Development
Strategies to Leverage
Kentucky Riverports and
Freight Network

Recap

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