



KYOVA Regional Freight Plan

2026 West Virginia Transportation Planning Conference

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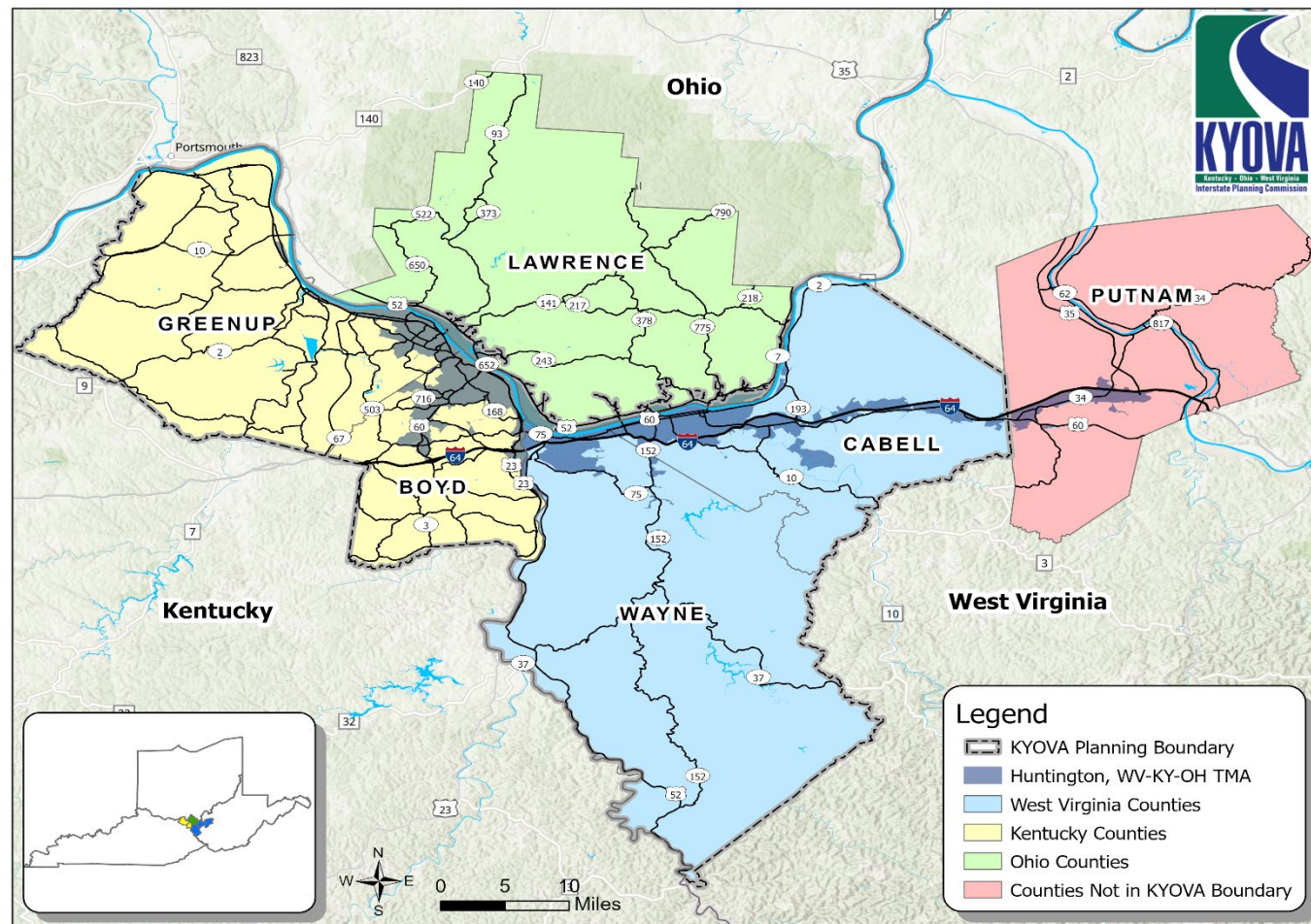
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KYOVA PLANNING BOUNDARY MAP

- KYOVA planning boundary spans 5 counties:
 - Cabell & Wayne in WV
 - Boyd and Greenup in KY
 - Urbanized Area in Lawrence County, OH
- Population in Urbanized Area – 200,157
- MSA Population ~ 365,000 (also includes Lincoln County, WV)
- Huntington, WV-KY-OH Urbanized Area designated a Transportation Management Area in 2012
- KYOVA Planning Boundary grew - RIC, the MPO in Charleston is taking lead in planning responsibilities for Putnam County





KYOVA Regional Freight Plan



Purpose

To *evaluate and address the freight network needs* in the KYOVA region and develop recommendations for needed freight transportation improvements.

The KYOVA Regional Freight Plan will be completed with an eye on *implementation* to guide and address the region's freight mobility needs and position itself for the future.



KYOVA Regional Freight Plan

Why a Regional Freight Plan?

The regional freight system provides the backbone for the regional economy. WE NEED TO KNOW HOW THE FREIGHT SYSTEM WORKS!

- How does it work?
 - What does it move?
 - How can we leverage it to benefit the region?
 - What is needed to do this?
 - What can be implemented in the short-, medium-, and long-term to guide and address the region's freight mobility needs for the future?
-





KYOVA Regional Freight Plan

Guiding Principles

- Ensure the plan is consistent with existing freight plans from Ohio, Kentucky and West Virginia
 - Develop a picture of current and future freight movements throughout the region including system performance and constraints
 - Provide freight information for the upcoming revised MTP
 - Develop prioritized projects and steps for implementing freight improvements
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KYOVA Regional Freight Plan

Tasks

-  1. Stakeholder Engagement & Public Involvement
-  2. Establish the KYOVA Freight Vision, Goals and Objectives
-  3. Data Collection and Analysis of Current and Future Freight Conditions
-  4. Identification of Freight Needs and Issues
-  5. Emerging Freight Trends Identification
-  6. Screen & Identify Freight Projects and Strategies
-  7. Complete Plan Document Development



Complete



In Progress



To be completed



KYOVA Regional Freight Plan



- ## Document Review

Transport Ohio (OH State Freight Plan)

Kentucky Statewide Freight Plan

West Virginia State Freight Plan

Appalachian Regional Truck Parking Study

City of Huntington Truck Route Study

Exit 8/I-64 Study

Greenup & Boyd County Freight Plan, November 2021

Huntington Tri-State Economic Impact Study

Ironton Truck Study

Kentucky 2022 Truck Parking Assessment and Action Plan

KYOVA 2050 Metropolitan Transportation Plan

Ohio Maritime Plan

Ohio River Bridge Study

US52/SR7 Safety Corridor Plan

Ohio Truck Parking Study





KYOVA Regional Freight Plan

KYOVA Freight Vision

“To coordinate freight planning and decision-making to ensure economic prosperity for the KYOVA region, job opportunities for our residents, safety and reliability on our roadways, and a continued improvement in quality of life for our communities by facilitating the movement of goods for our businesses and encouraging manufacturing and industrial growth while minimizing negative impacts through increased efficiency, reliability, safety, and environmental sustainability of freight movement throughout the region.”





KYOVA Regional Freight Plan

KYOVA Freight Goals and Objectives

- The Freight Plan Goals were derived from the 2050 MTP Goals due to their general relevance to freight.
 - They are consistent with the West Virginia, Ohio and Kentucky Freight Plan Goals.
 - The objectives are tailored for each goal to ensure they are specific to freight.
 - There are a total of 31 multimodal Freight Plan Objectives.
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KYOVA Regional Freight Plan



KYOVA Freight Plan Goals and Sample Objectives

Goal	Objective (sample)
Goal 1: Preserve, maintain, and enhance the existing transportation system.	Improve access management and design treatments to improve efficiency of goods movement within strategic freight corridors.
Goal 2: Support the economic vitality of the region, especially by enabling global competitiveness, productivity, and efficiency.	Prioritize freight transportation programs that meet business needs to retain existing businesses and attract new businesses.
Goal 3: Improve the operational efficiency of the transportation network.	Identify roadway improvements to improve truck travel time reliability.
Goal 4: Enhance the safety of the transportation system for all users.	Implement safety measures at high crash locations involving trucks; minimizing risks to shipments and property damage; and ensuring the safety, health, and well-being of freight employees.
Goal 5: Enhance the security of the transportation system for all users.	Support the security of cargo (from theft), driver security, and that of freight routes.
Goal 6: Protect and enhance the environment and promote energy conservation.	Integrate land use and transportation policies to limit adverse impacts of freight-oriented development while enhancing business opportunities.
Goal 7: Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight.	Develop freight-specific regional performance measures and incorporate into the project prioritization process.
Goal 8: Maintain financial responsibility in the development and preservation of the transportation system.	Uphold cost-effective operating strategies for freight transportation.



KYOVA Regional Freight Plan



Data Collection and Analysis of Current and Future Freight Conditions

Data Collection and Analysis

Step	Data Needs	Data Source(s)
Freight Network Identification	• Road Network • Rail Network • River Network	• State Freight Plans • KYOVA TDM • State Rail Plans • State Modal Plans • Bridge inventory
Estimate of Current and Future Freight Flows	• Commodity flows	• Freight Analysis Framework (FAF 5.6.1) County-to-County database
Freight Facilities Identification	• Freight generators • Freight clusters	• State freight plans • State truck parking plans • State Rail Plans • State Modal Plans • Stakeholder interviews
Freight Infrastructure Performance Assessment	• Truck VHT • Truck-involved crash data	• KYOVA TDM • KYOVA CMP • KYOVA Safety Action Plan



KYOVA Regional Freight System Performance

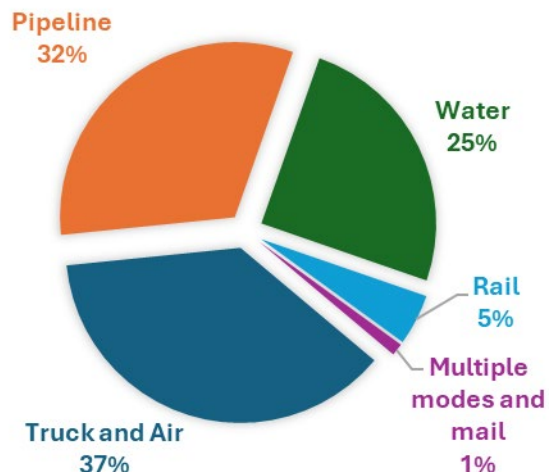


KYOVA Regional Freight Plan



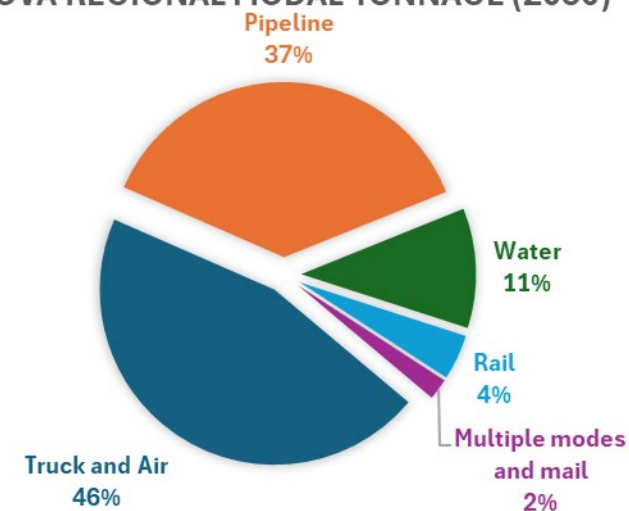
Current KYOVA Regional Freight Shipments

KYOVA REGIONAL MODAL TONNAGE (2022)



23% increase
in truck
tonnage

KYOVA REGIONAL MODAL TONNAGE (2050)



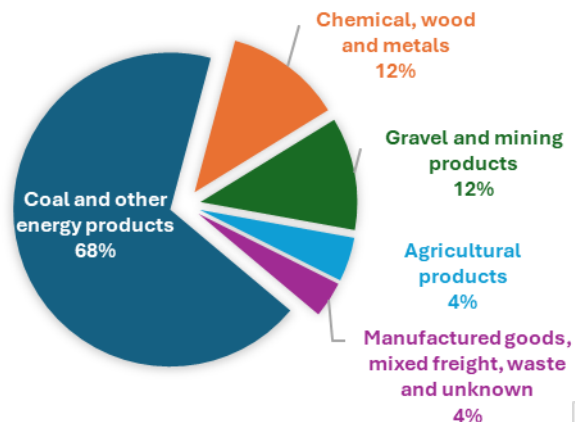


KYOVA Regional Freight Plan



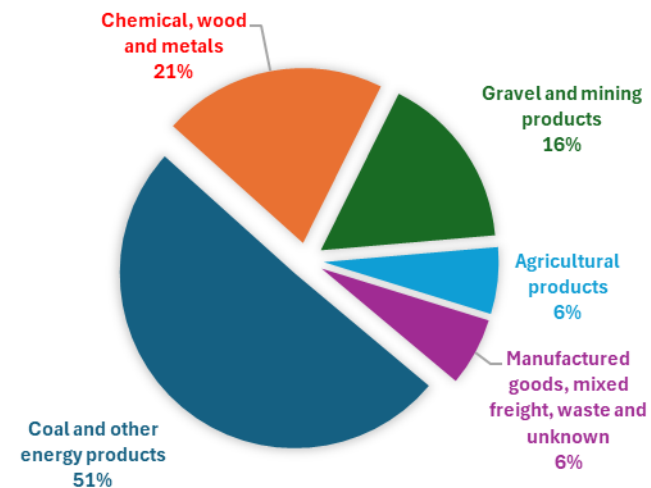
Current KYOVA Regional Freight Shipments

KYOVA REGIONAL COMMODITY TONNAGE
(2022)



25% decrease
in coal
tonnage

KYOVA REGIONAL COMMODITY TONNAGE (2050)





KYOVA Regional Freight Plan



Current KYOVA Regional Freight Shipments (Tons) (000)

Commodity	Tons (2022)	Tons (2050)	% Change
Coal and other energy products	53,762	40,451	-25%
Chemical, wood and metals	9,526	16,544	74%
Gravel and mining products	9,184	13,030	42%
Agricultural products	3,593	4,932	37%
Manufactured goods, mixed freight, waste and unknown	2,927	5,055	73%

Overall Expected Change: 1%



KYOVA Regional Freight Plan



Current KYOVA Regional Freight Shipments (Value) (\$000)

Commodity	Value (2022)	Value (2050)	% Change
Coal and other energy products	\$9,732	\$9,571	-2%
Chemical, wood and metals	\$9,308	\$20,969	125%
Gravel and mining products	\$206	\$319	55%
Agricultural products	\$2,151	\$3,676	71%
Manufactured goods, mixed freight, waste and unknown	\$10,096	\$19,728	95%

Overall Expected Change: 72%



KYOVA Regional Freight Plan



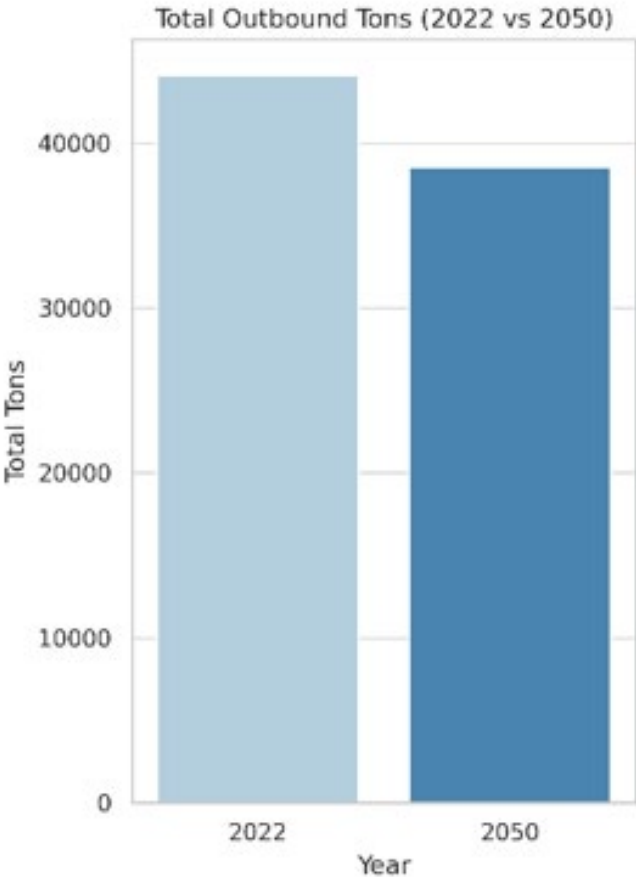
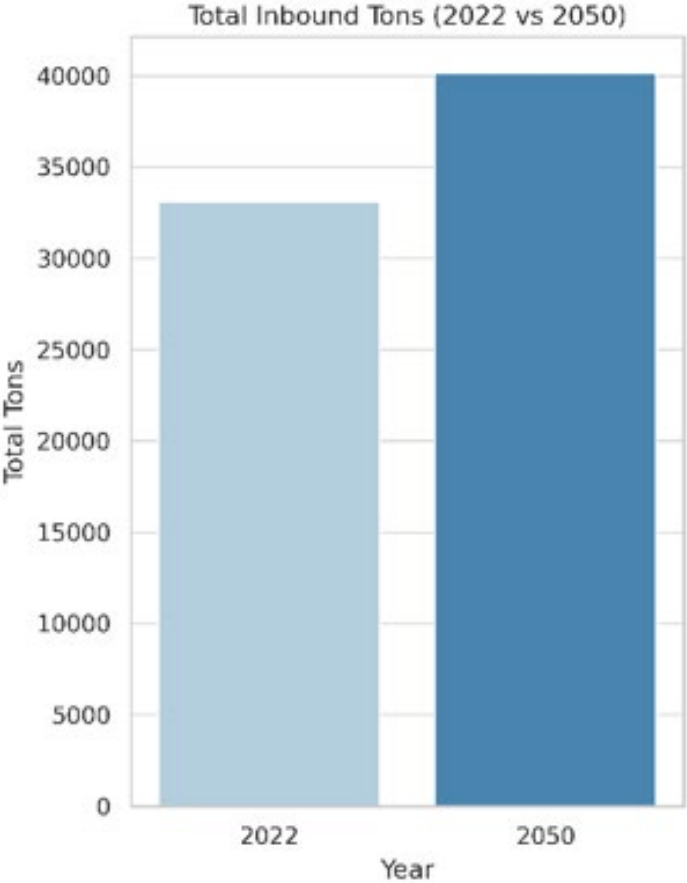
Current KYOVA Regional Freight Shipments (Tons) (000)

Mode	Tons (2022)	Tons (2050)	% Change
Truck and Air	29,450	36,355	23%
Pipeline	25,280	29,898	18%
Water	19,655	8,846	-55%
Rail	3,719	3,346	-10%
Multiple modes and mail	887	1,567	77%

Current KYOVA Regional Freight Shipments



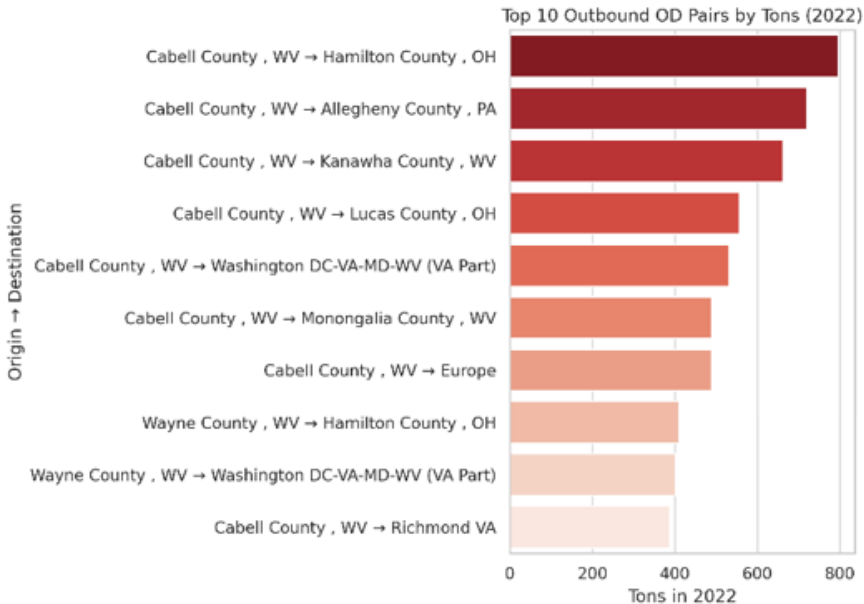
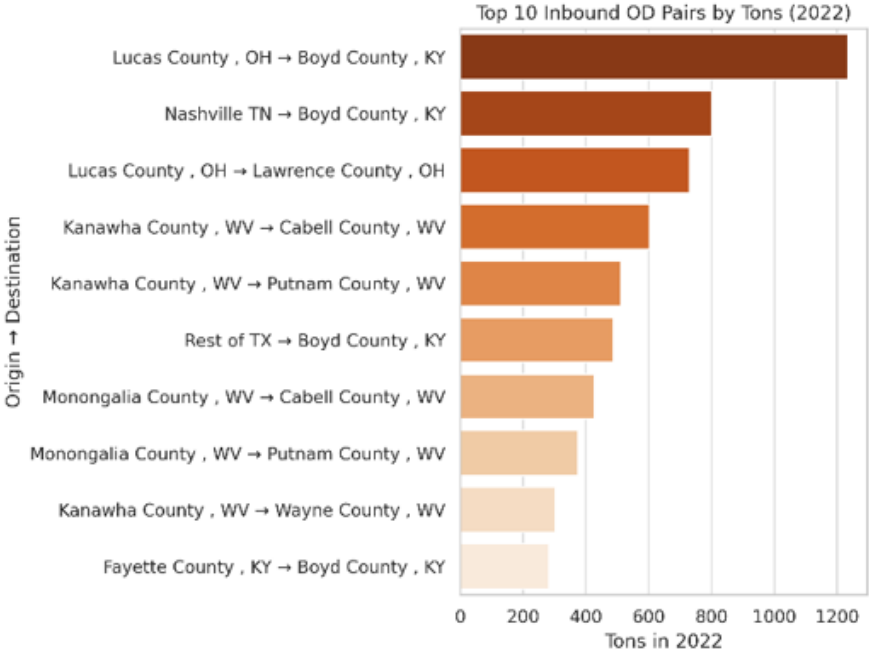
KYOVA Regional Freight Plan



Current KYOVA Regional Freight Shipments



KYOVA Regional Freight Plan

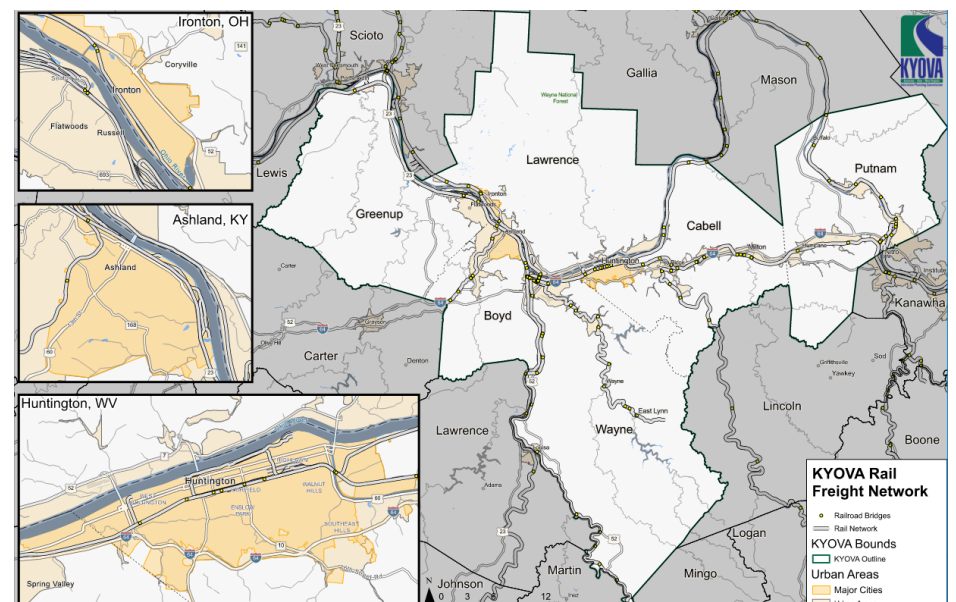
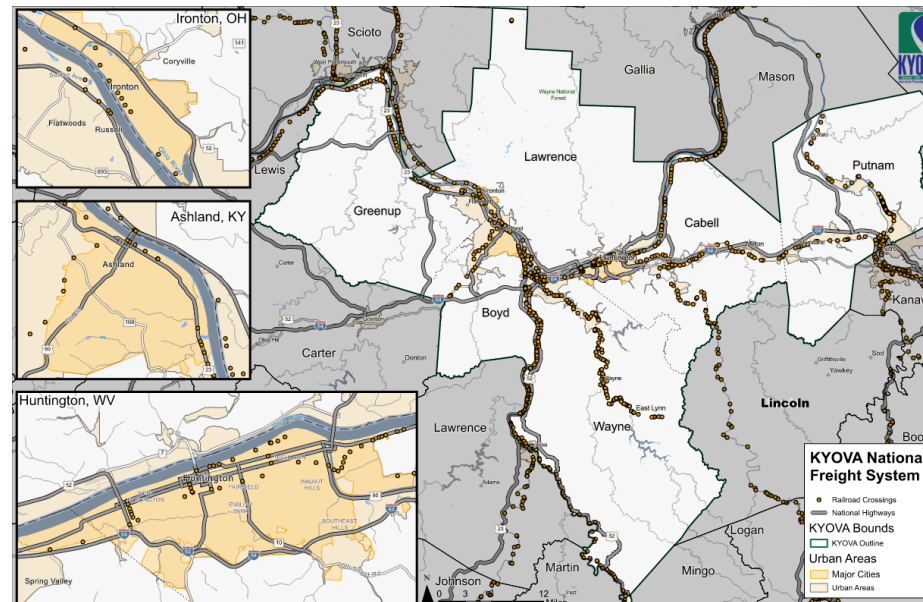
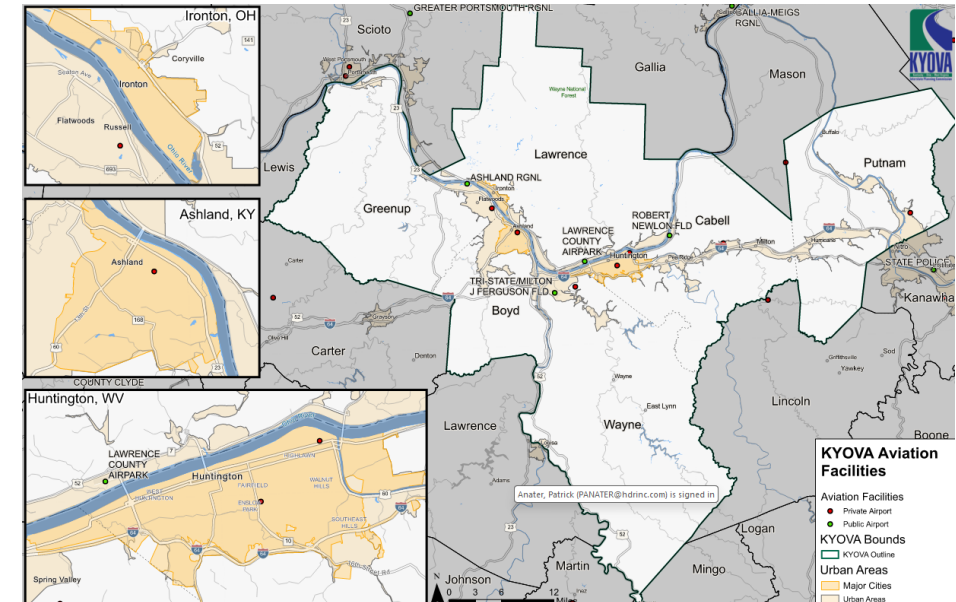
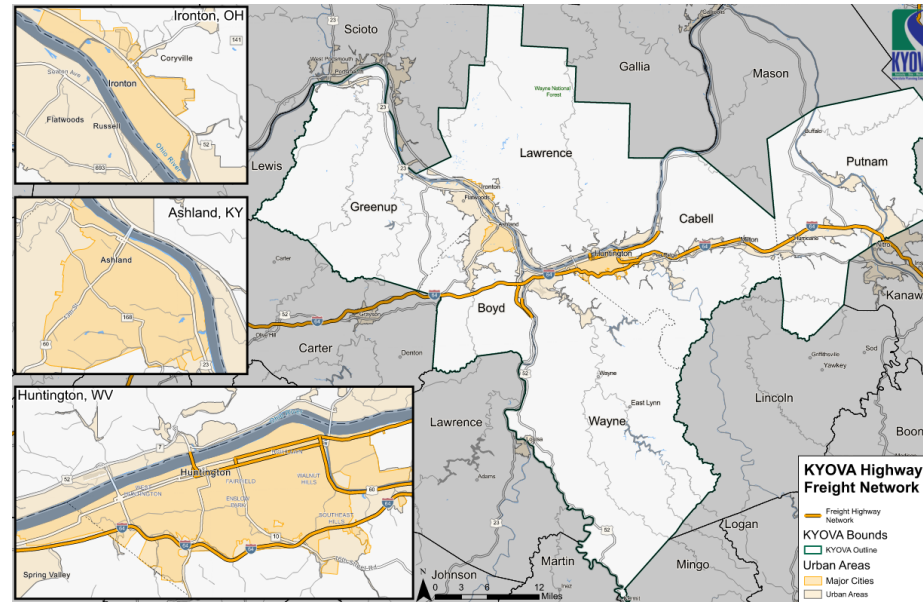




KYOVA Regional Freight Plan



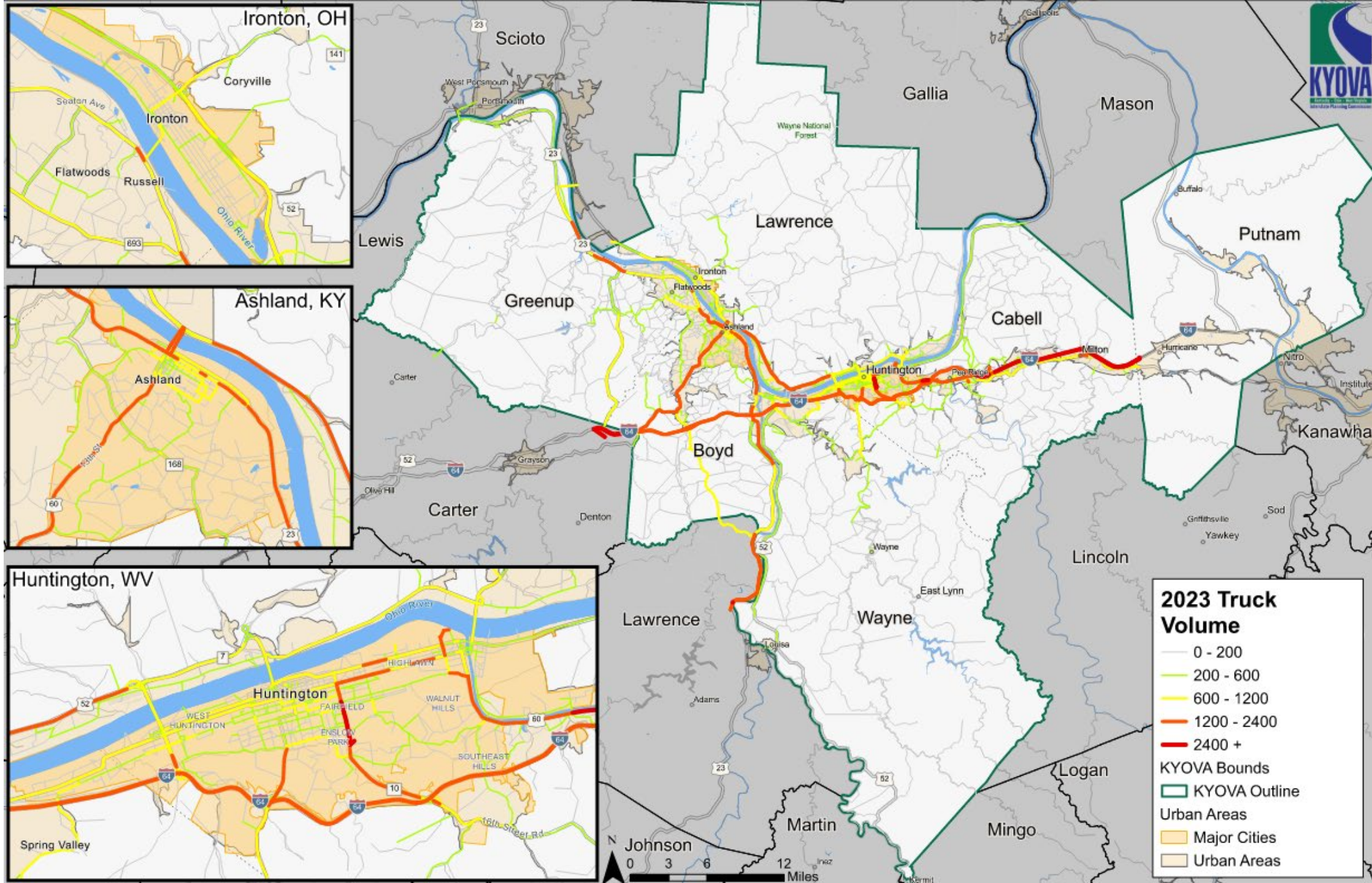
KYOVA Regional Freight Network





This map displays the annual truck tonnage by county for the KYOVA region. The tonnage is categorized into five ranges, represented by different colors: 0 - 1800 Ktons (light green), 1800 - 4500 Ktons (medium green), 4500 - 8500 Ktons (yellow), 8500 - 14500 Ktons (orange), and 14500+ Ktons (red). Major cities are highlighted with orange dots, and urban areas are shown in light gray. The map includes insets for Ironton, OH; Ashland, KY; and Huntington, WV, providing more detailed views of these areas. A legend in the bottom right corner explains the color coding and symbols used.

KYOVA Annual Truck Tonnage
Tonnage (Ktons)
0 - 1800
1800 - 4500
4500 - 8500
8500 - 14500
14500+
KYOVA Bounds
KYOVA Outline
Urban Areas
Major Cities
Urban Areas

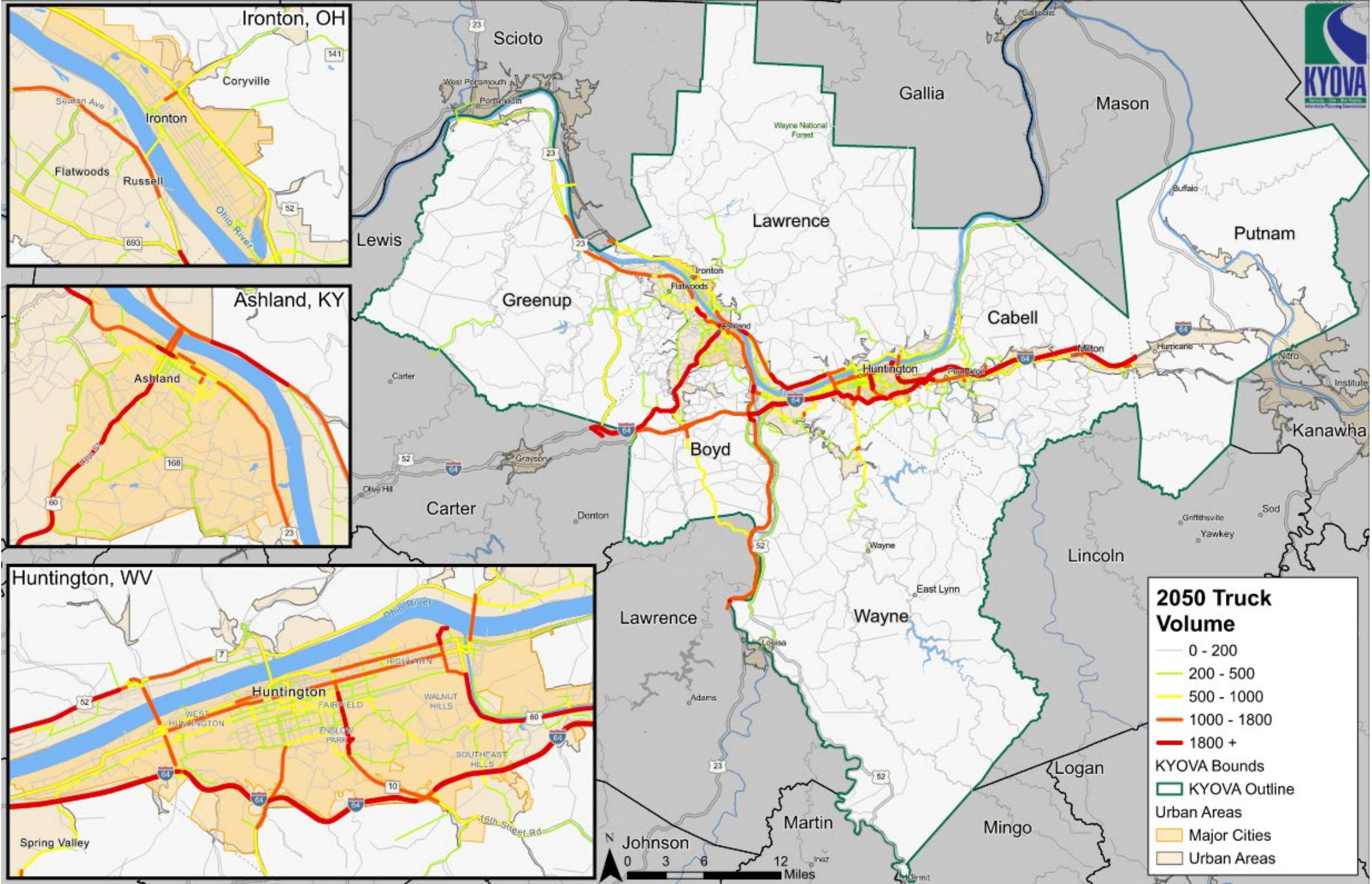


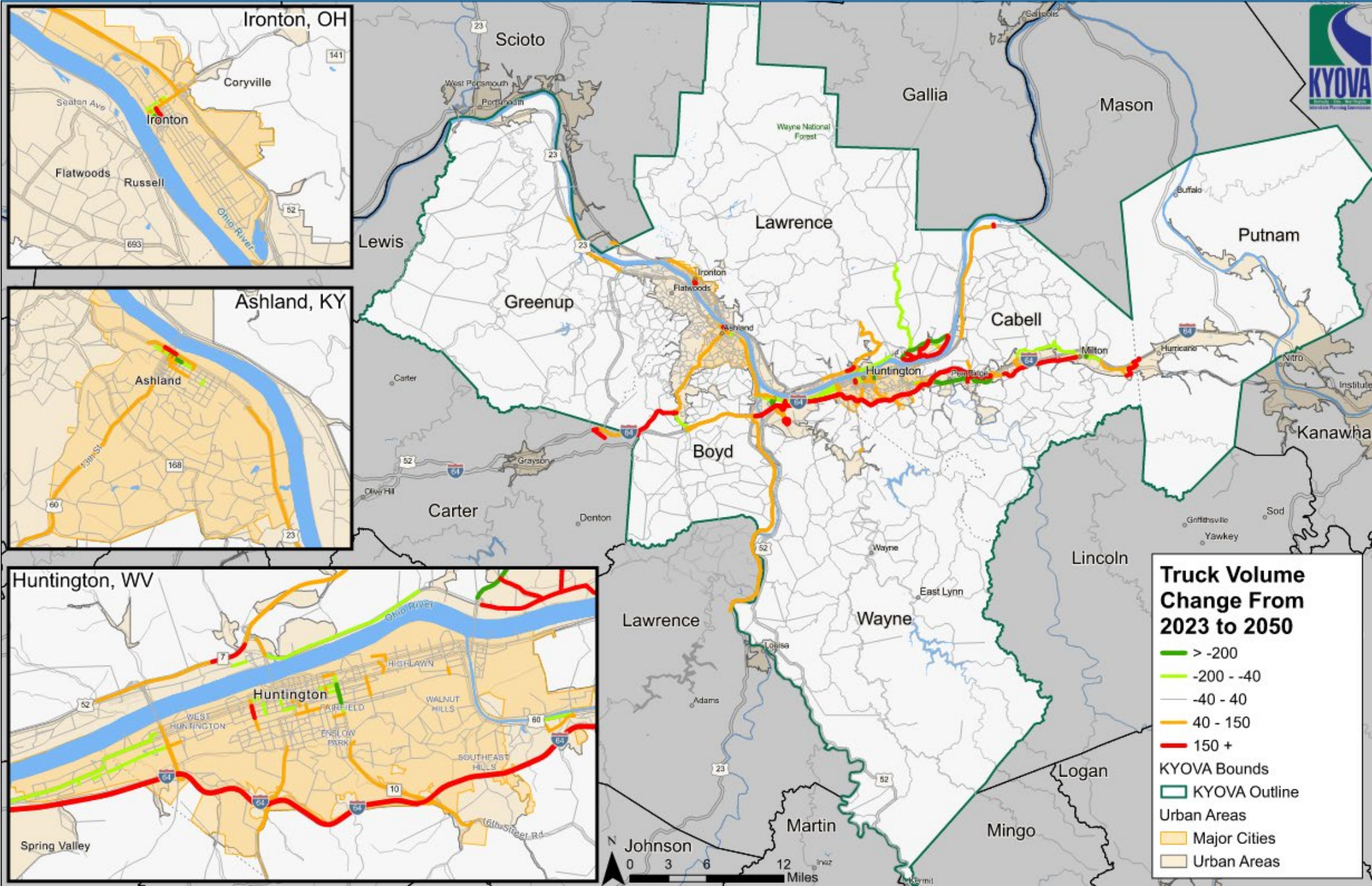
2023 Truck Volume

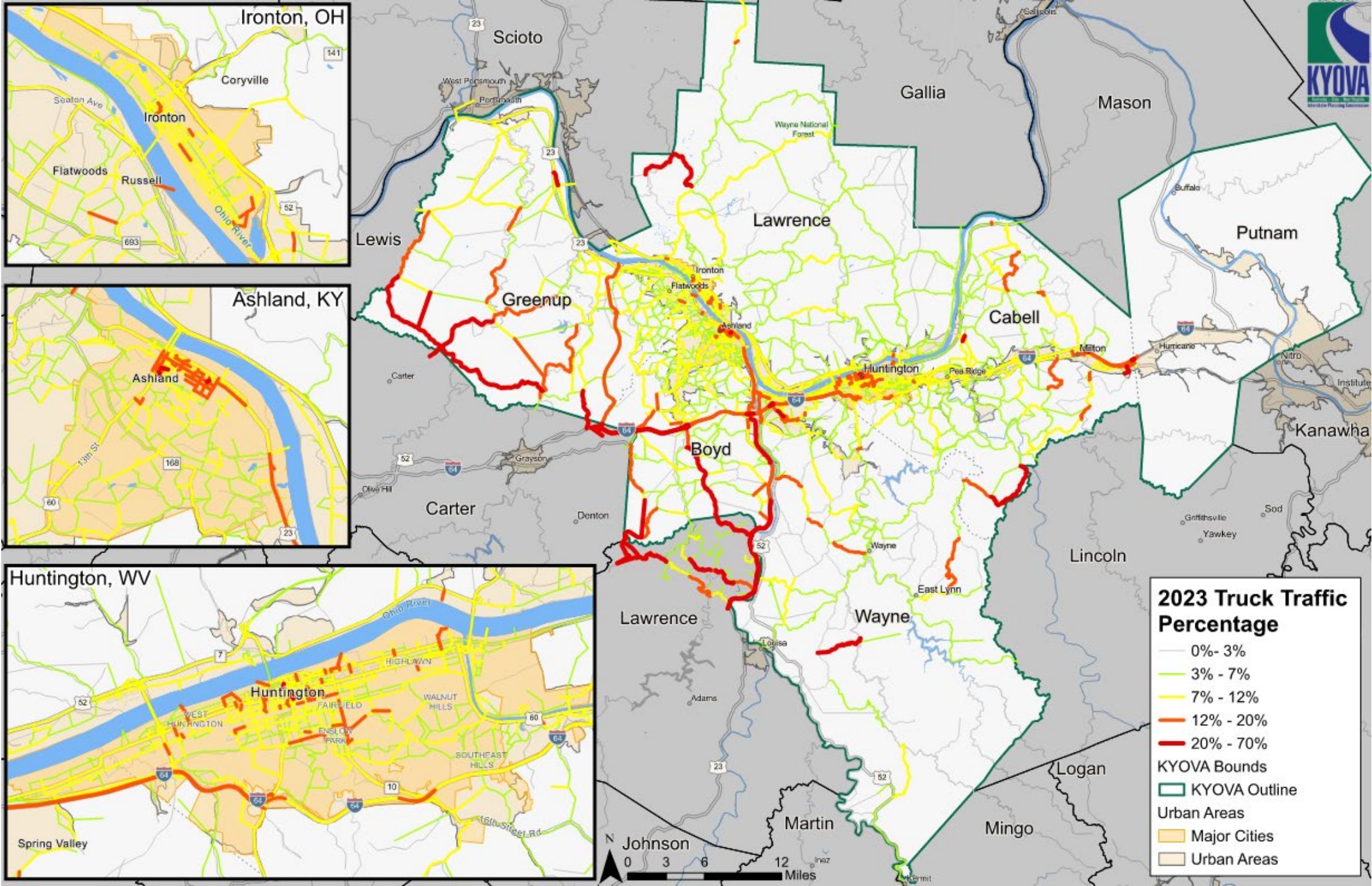
- 0 - 200
- 200 - 600
- 600 - 1200
- 1200 - 2400
- 2400 +

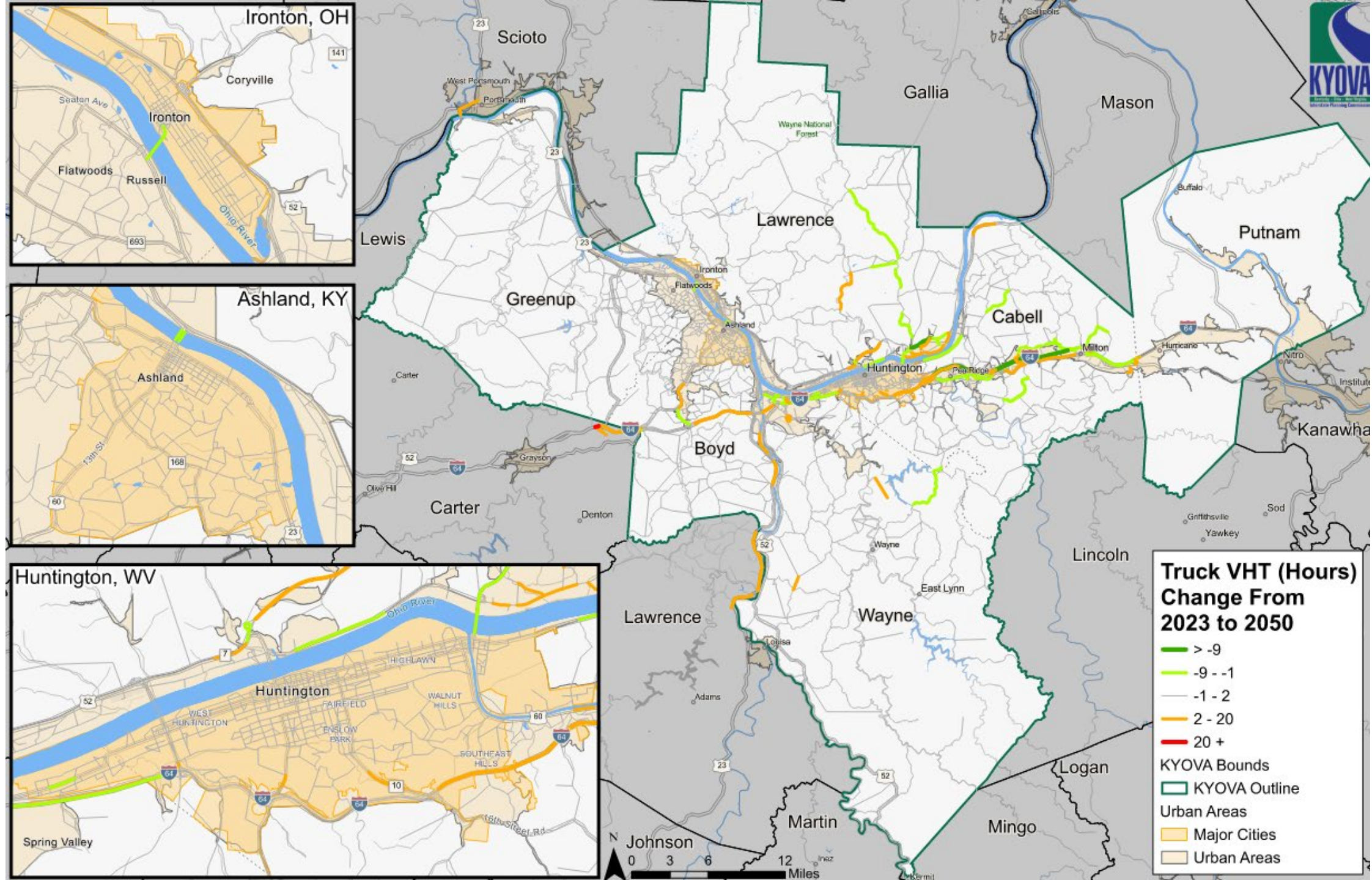
KYOVA Bounds

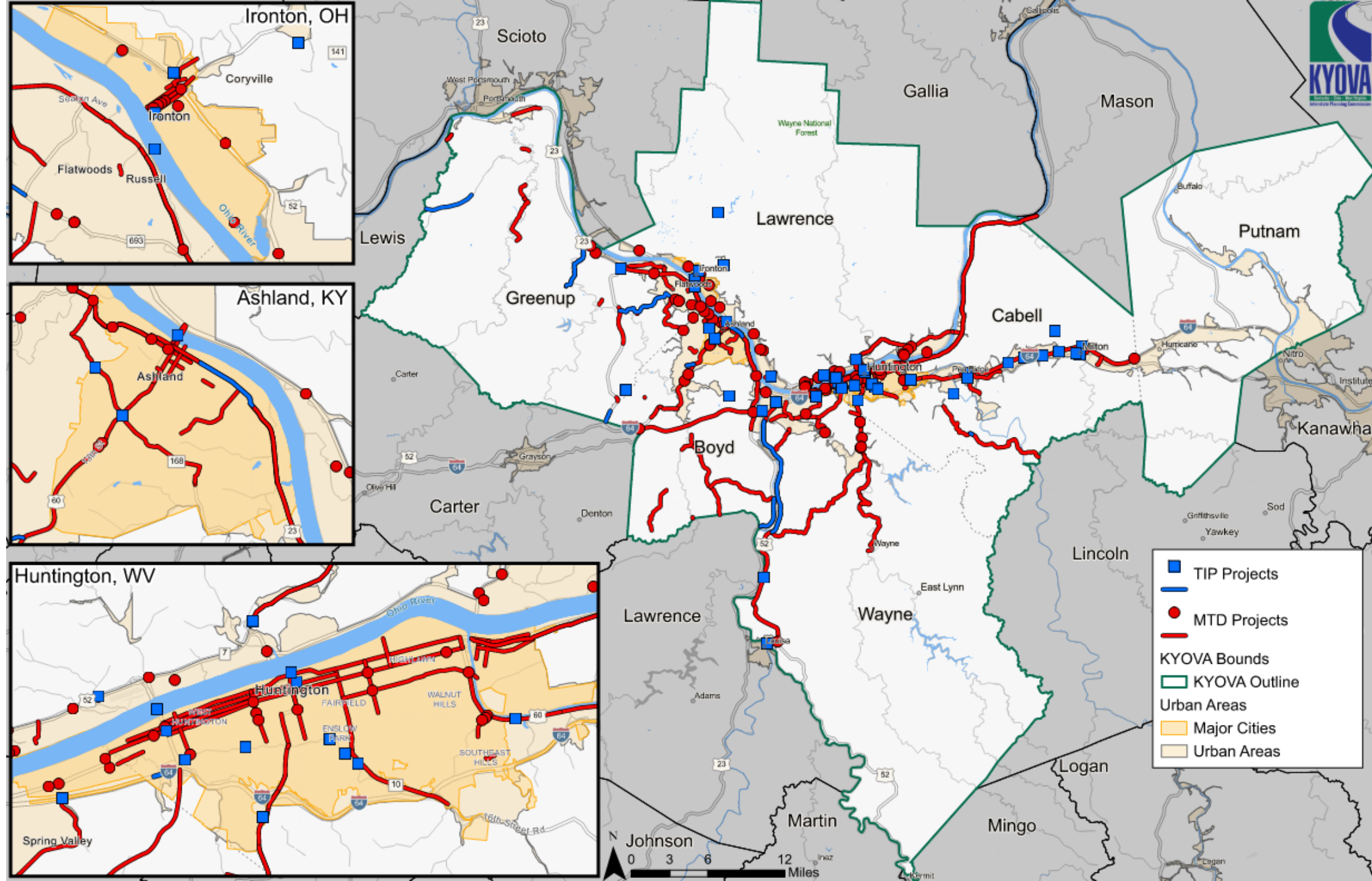
- KYOVA Outline
- Urban Areas
- Major Cities
- Urban Areas













KYOVA Regional Freight Plan



Emerging Freight Technology

- Artificial Intelligence (AI)
 - Electrification of Medium- / Heavy-Duty Trucks
 - Freight Traveler Information
 - Weigh-in-Motion/Weigh Station Bypass
 - Truck Parking Availability
 - Drayage Optimization
 - Automation/Platooning of Medium- / Heavy-Duty Trucks
 - Vertical Takeoff and Landing/Unmanned Aerial Systems
 - Electrification of Locomotives
 - Rail Crossing Safety Applications
-



KYOVA Regional Freight Plan

Regional Issues and Needs

1. Congestion along I-64 causes freight delay and reliability issues
 2. Older infrastructure to and from industrial sites may require pavement and horizontal and vertical clearance improvements
 3. Increased rail system capacity may create opportunities for regional shippers
 4. Aging River locks upstream and downstream create delays in the region
 5. Emerging technologies will create opportunities for increased shipping efficiencies
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KYOVA Regional Freight Plan

Next Steps

1. Finalize issues and needs analysis
2. Draft project identification
3. Stakeholder coordination and outreach
4. Project finalization and prioritization





Thank You

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