

City of Lawrence
Transportation Commission Study Session
February 28, 2018 Minutes

MEMBERS PRESENT: Charlie Bryan, Mark Hurt, Steve Evans, Erin Paden, Donna Hultine, Ron May

MEMBERS ABSENT: Michele Dillon, John Ziegelmeier, Kathryn Schartz

STAFF PRESENT: David Cronin, Public Works Department
Amanda Sahin, Public Works Department
Jessica Mortinger, Senior Transportation Planner
Ashley Meyers, Transportation Planner
Ryan Pearson,
Margaret Campbell

A complete video recording of the meeting is available on the City's website at <https://lawrenceks.org/boards/transportation-commission/>

1. T2040 Update

Jeff Crick presented information on population data and Jessica Mortinger provided an update on T2040 ([T2040 Draft Document](#))

Population Data

February
2018

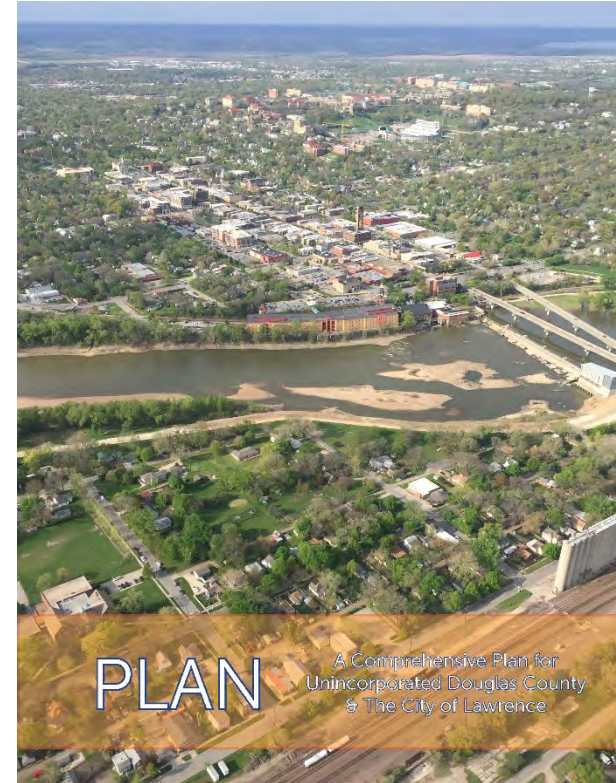


City of Lawrence
Douglas County
PLANNING & DEVELOPMENT SERVICES



Background

- Steering Committee
- 18+ Months of Public Input
- **Issue Action Report**
 - 6 Priority Items
 - 19 Key Issues



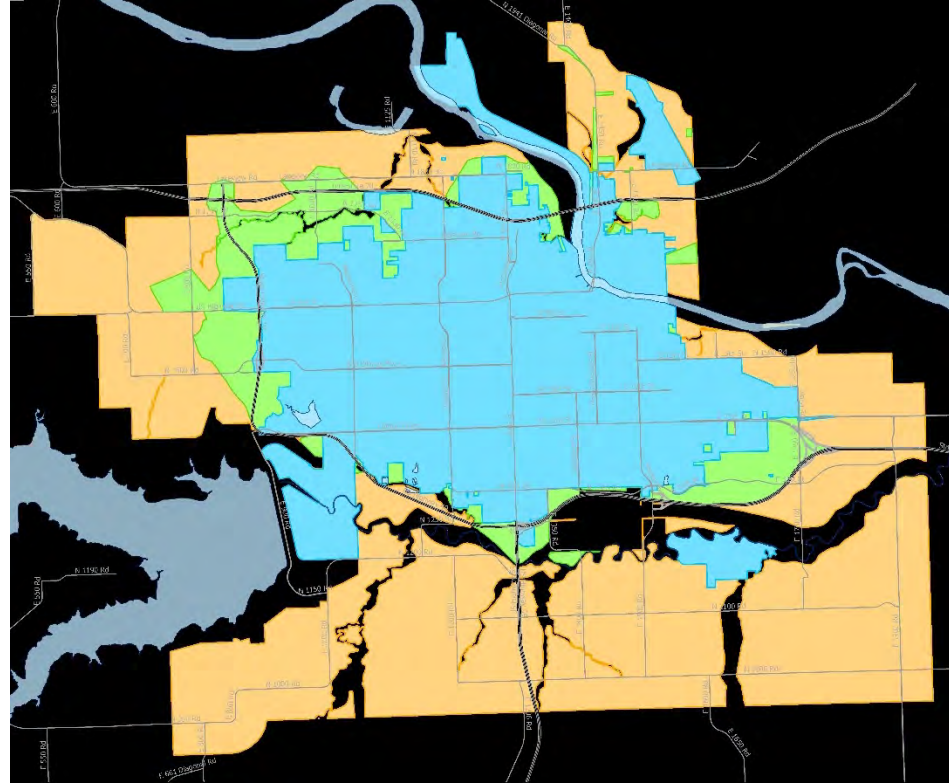
Issue Action Report

- Manage Future Growth
- Encourage Infill Development
- Increasing Height & Density
- Transportation Enhancements

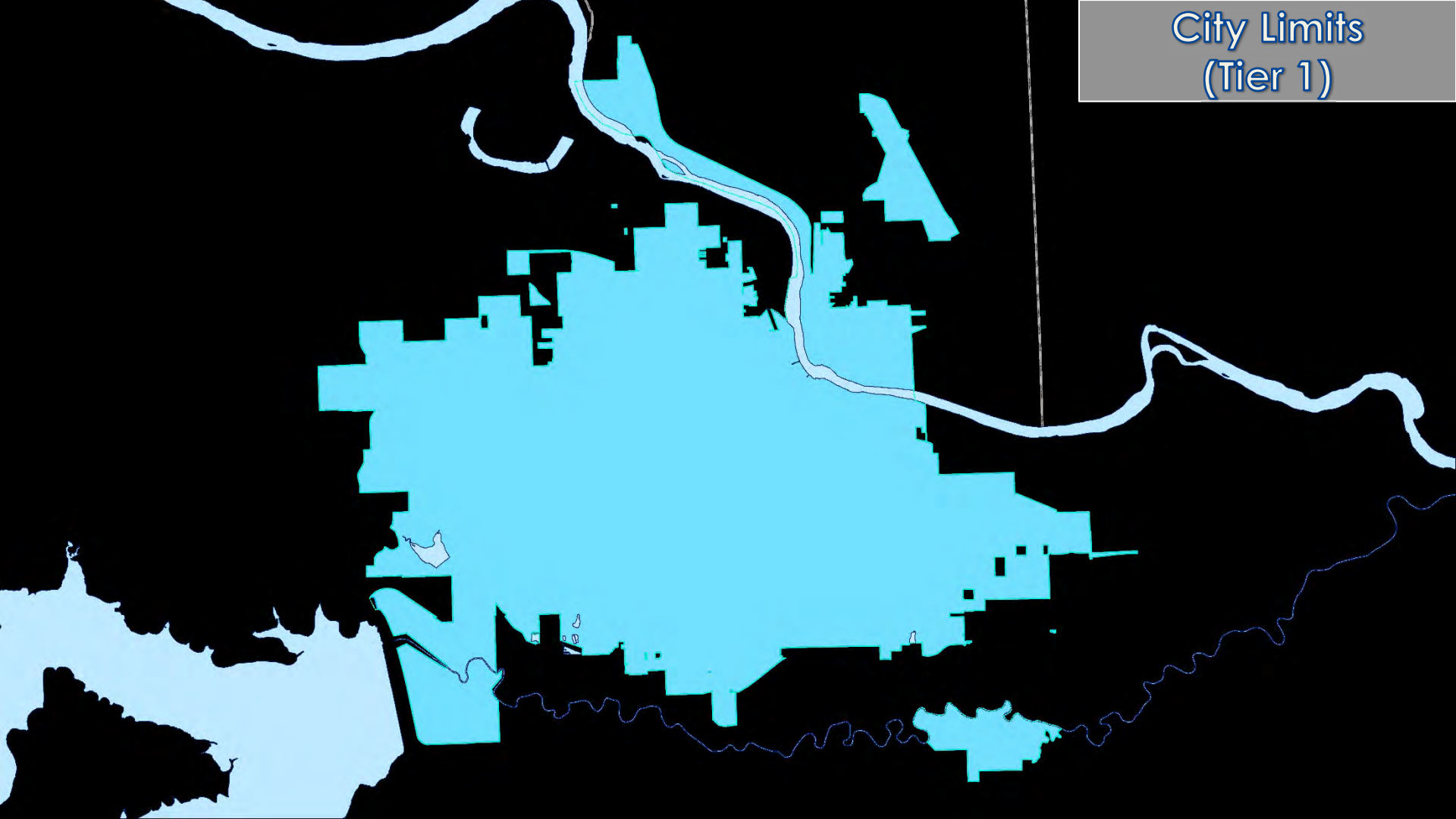


Growth Management

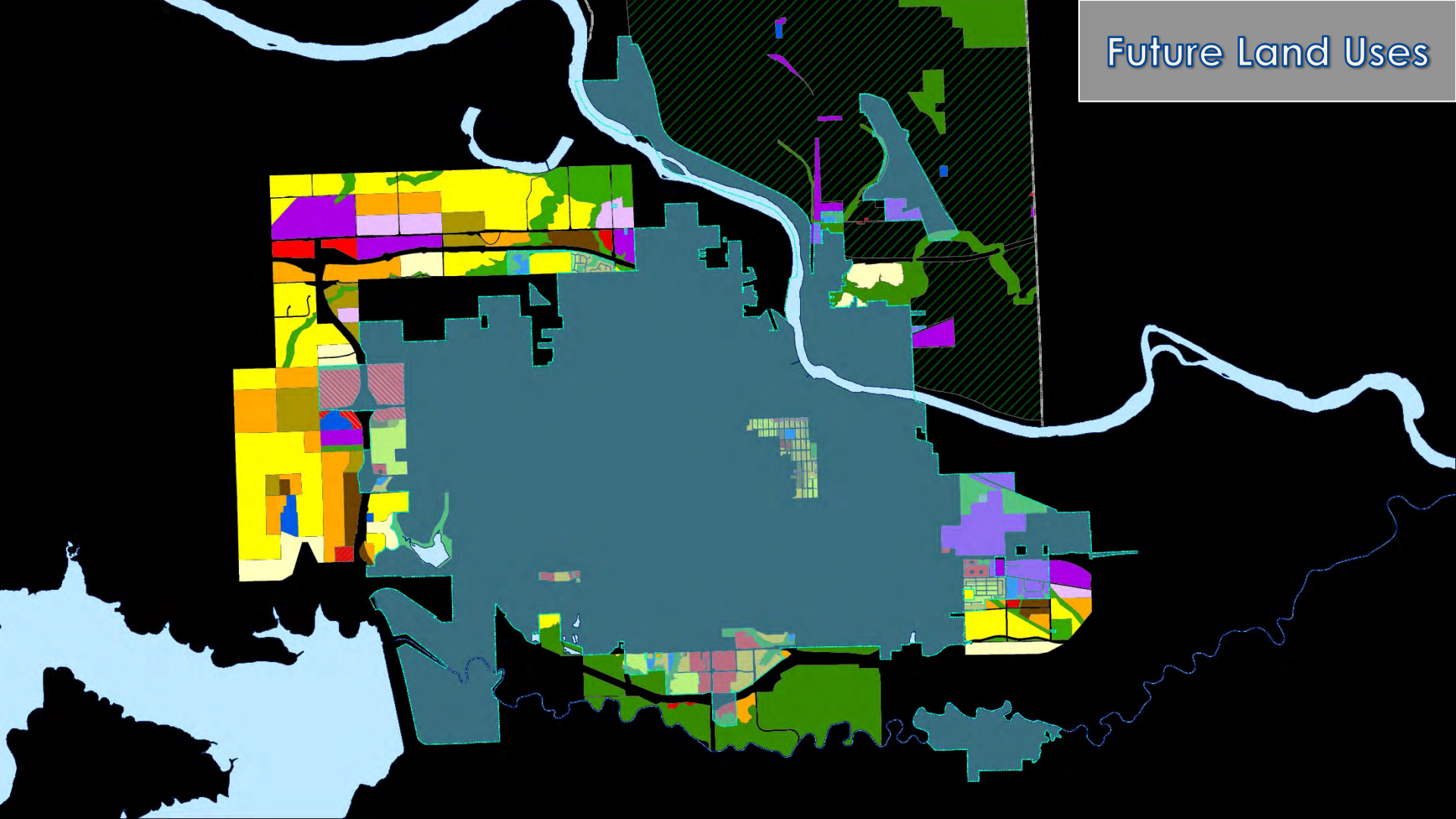
- **3 Tiers**
 - **Tier 1**: City Limits
 - **Tier 2**: Annexation
 - **Tier 3**: Beyond Plan



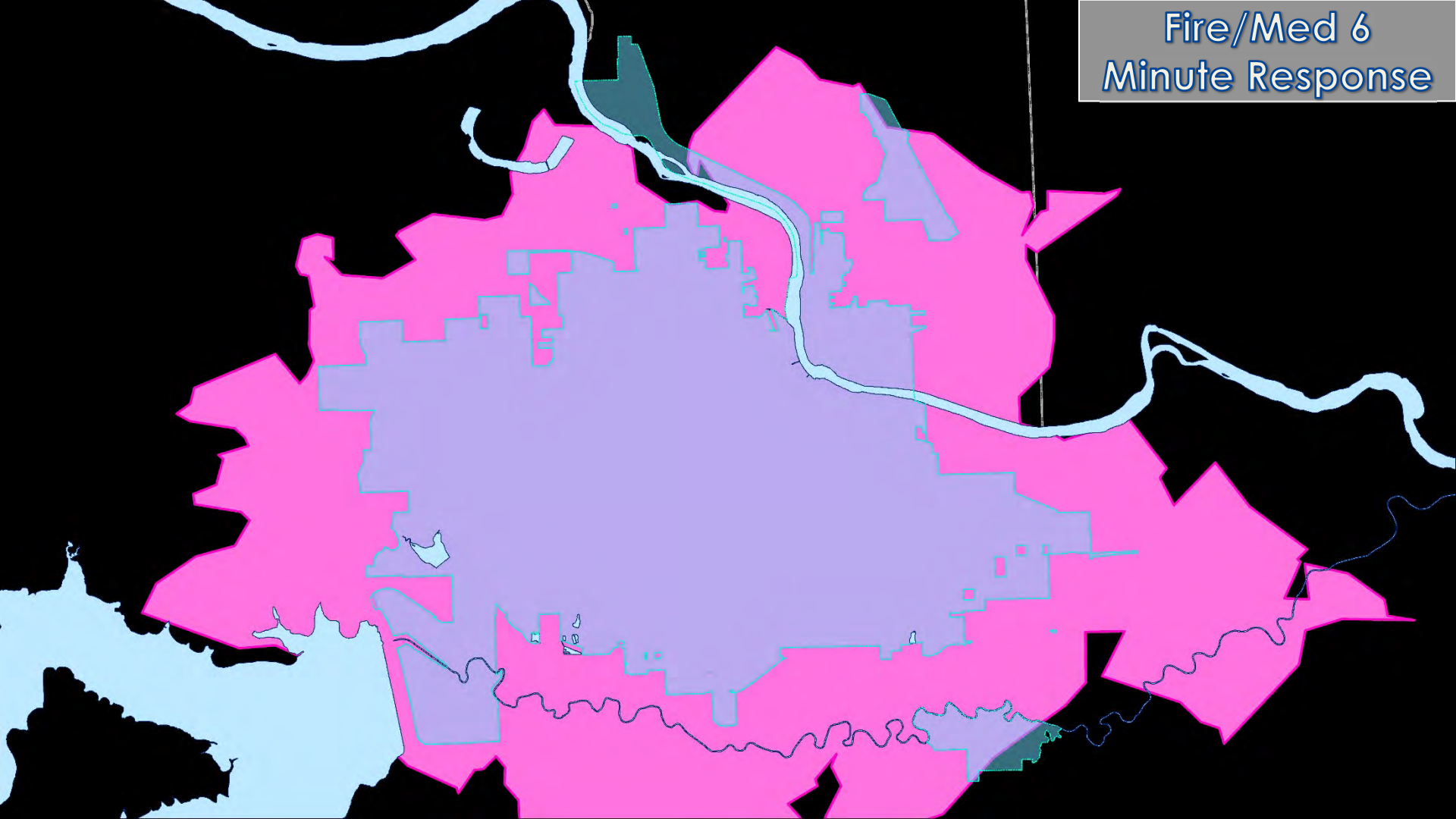
City Limits
(Tier 1)



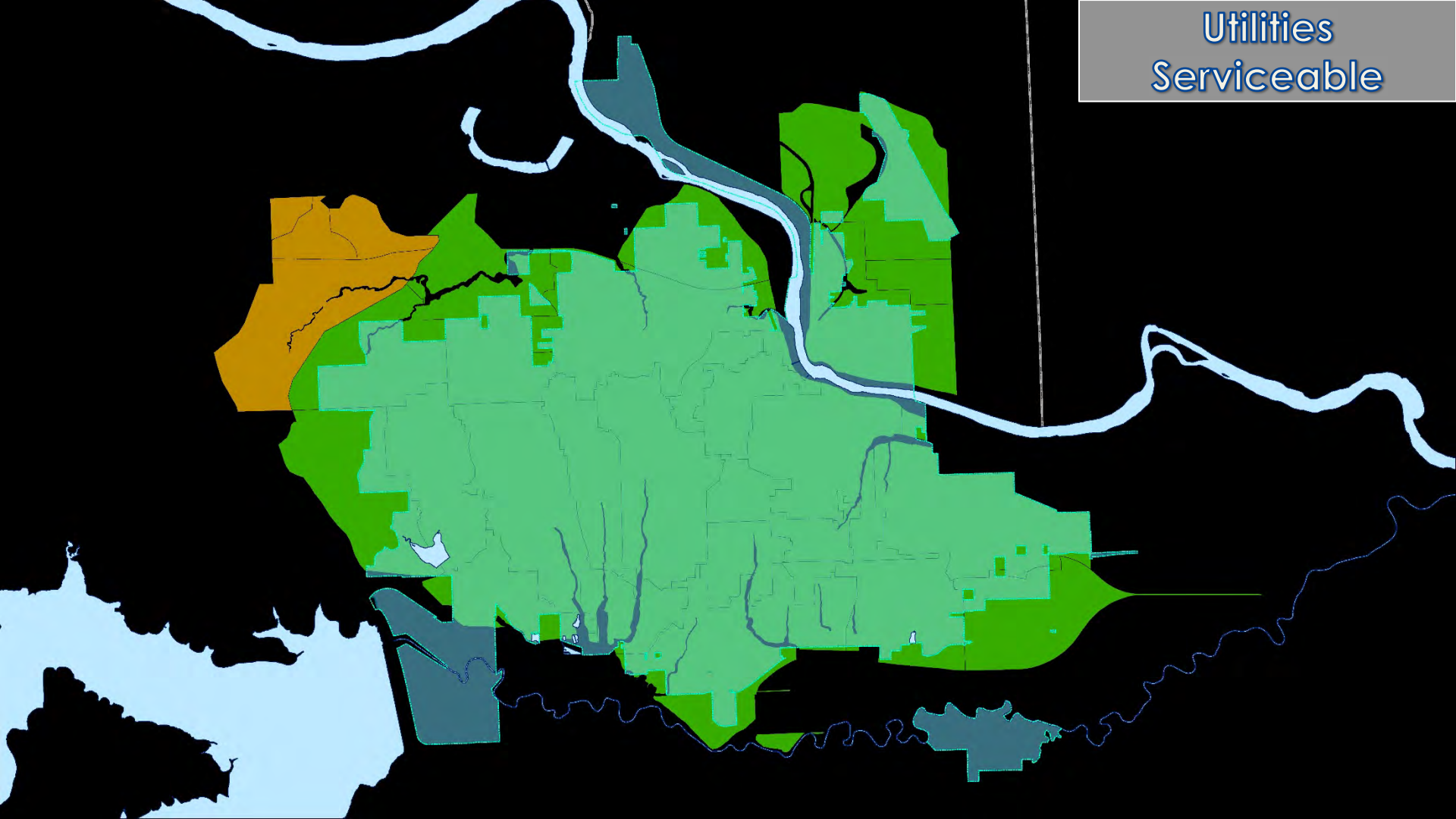
Future Land Uses



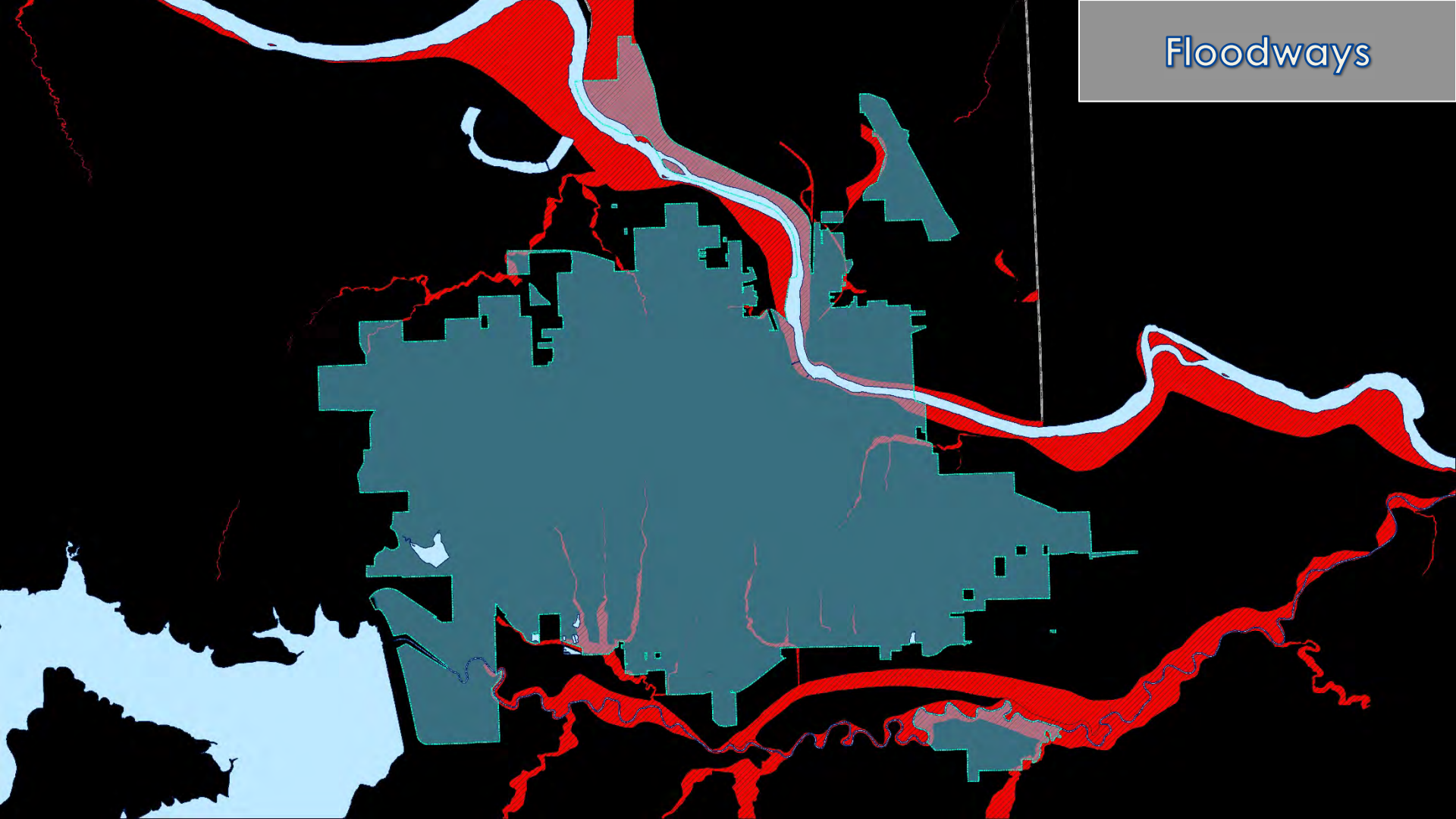
Fire/Med 6
Minute Response



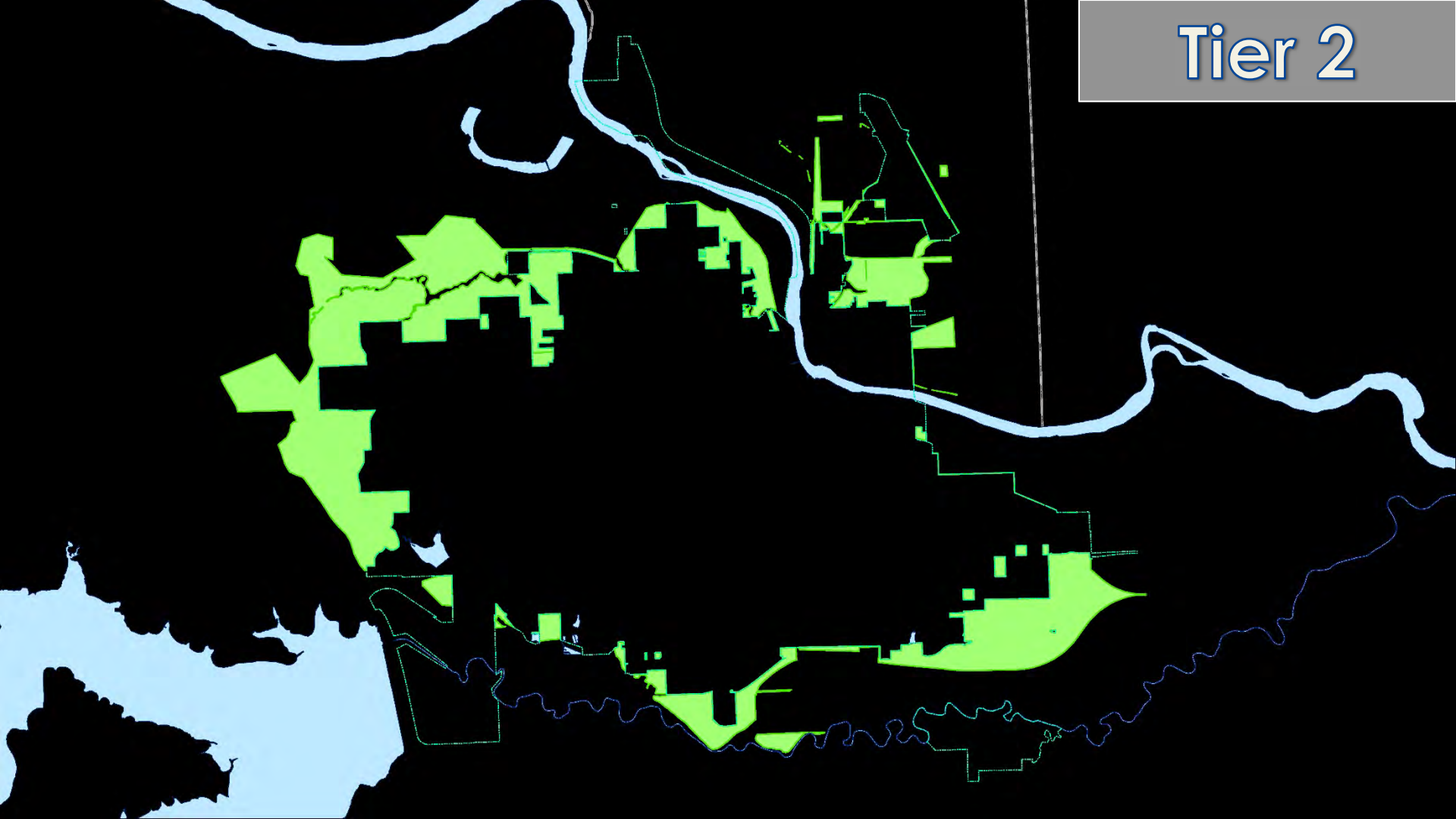
Utilities
Serviceable



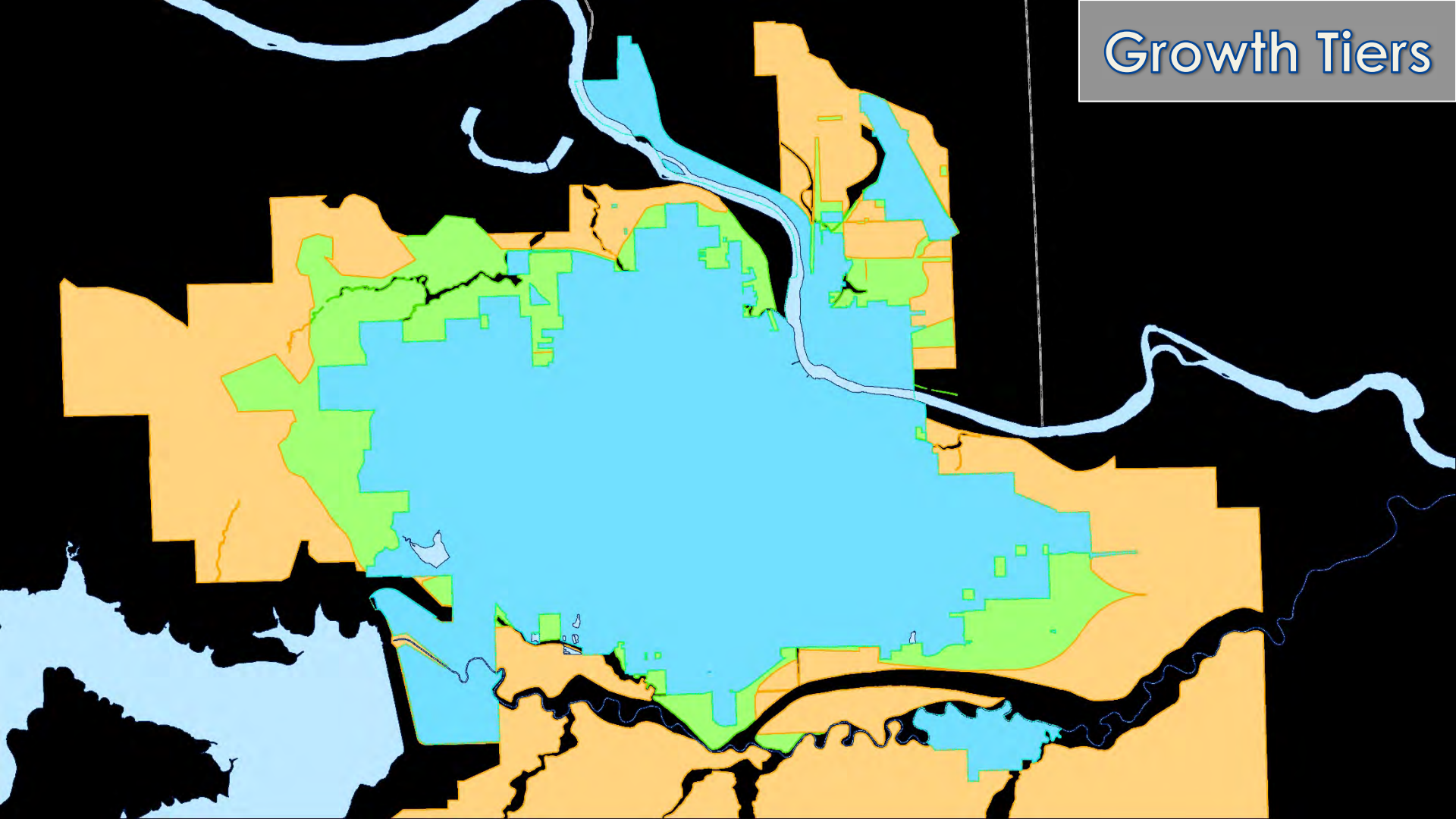
Floodways



Tier 2



Growth Tiers



Tier Population Estimates

Lawrence Population (2017)	99,496
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Tier 1 Est. Capacity	+17,400
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Tier 2 Est. Capacity	+18,500
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Estimated Population	135,300
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Estimated Timeframe	2050
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2040 Estimated Population	122,600
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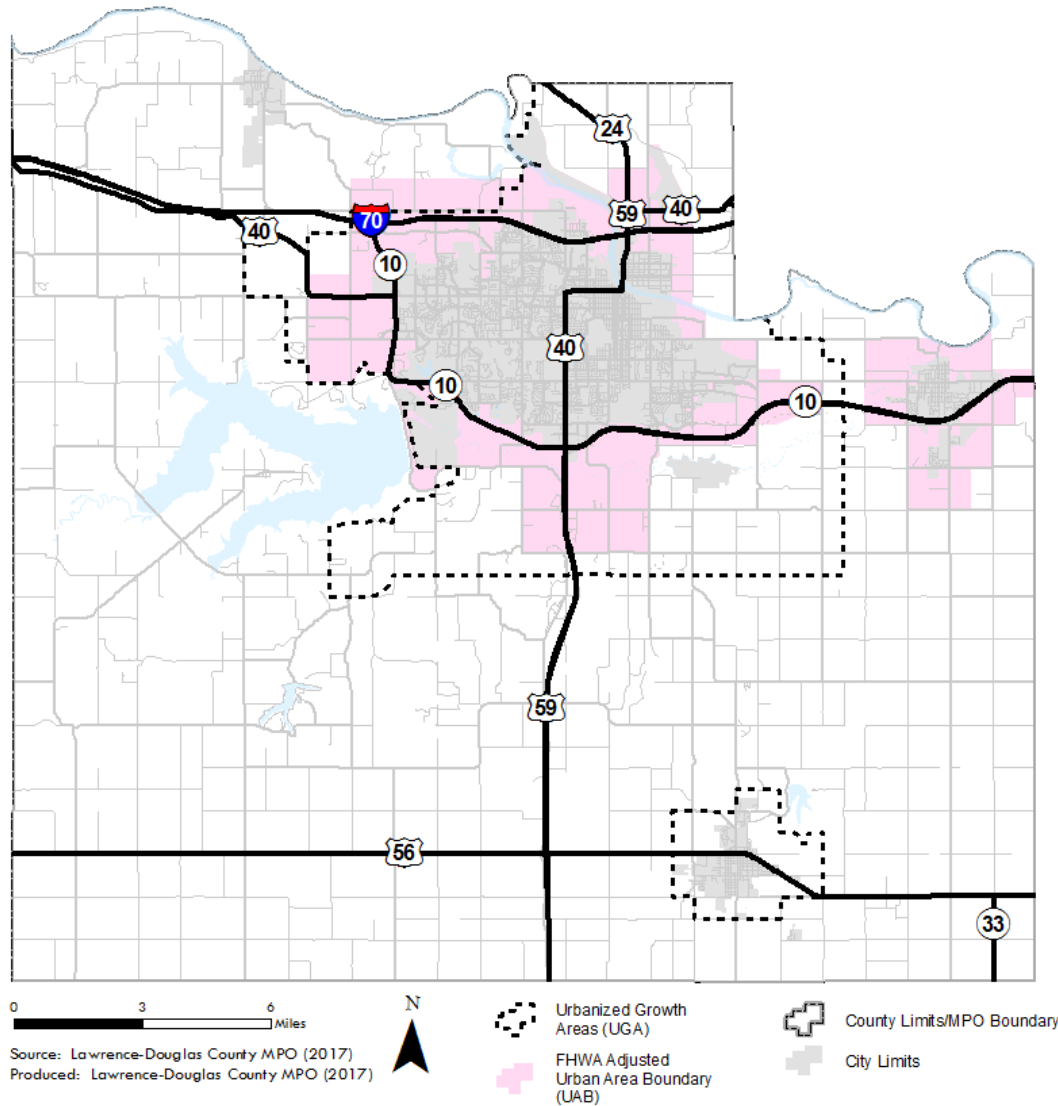


Transportation 2040

Metropolitan Transportation Plan
Lawrence – Douglas County

Douglas County Planning Area

2



Population

2016 Fact Finder

Total DG County:

119,440

Lawrence: 95,358

Eudora: 6,379

Baldwin City: 4,677

Lecompton: 638

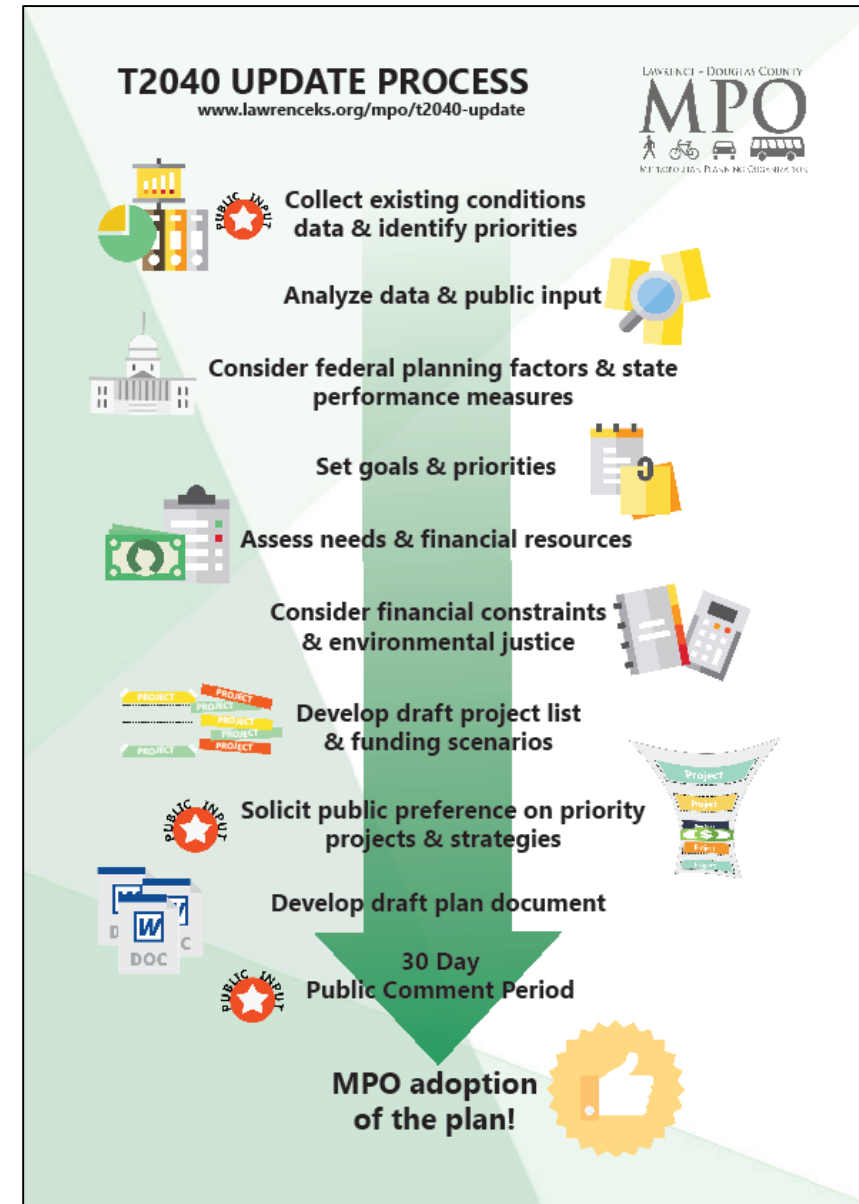
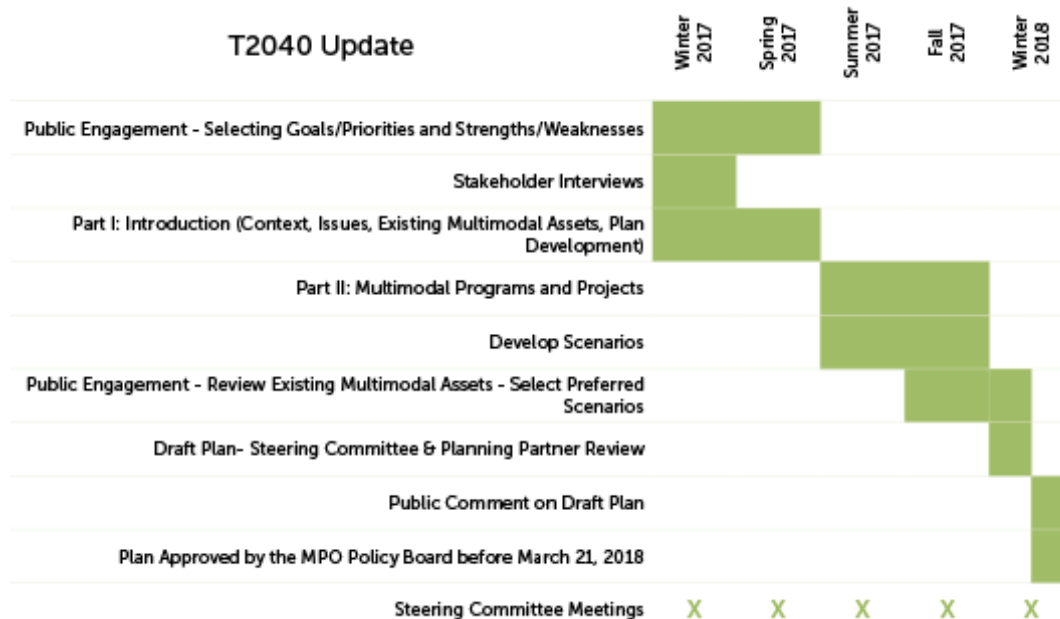


Plan Development

Metropolitan Transportation Plan – Federal Requirements



- Considers Planning Factors
- Collaborative Process
- Serves as the defining vision for transportation systems and services
- Plan covers 20 years
- Updated every 5 years
- Includes Federal Performance Measures
- Fiscally Constrained



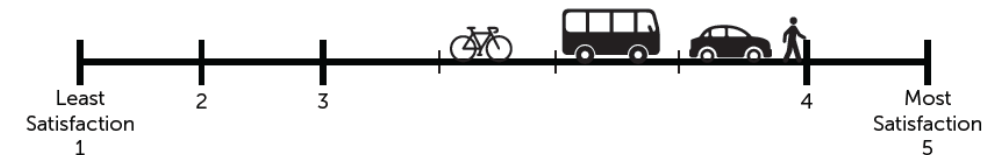
Public Involvement

5



Community members were asked *“What should be the Lawrence-Douglas County MPO’s priorities for planning a regional comprehensive transportation system?”* Respondents were asked to rank each of the following responses from 1-4 and identify the top strategy to support that priority.

Priority	Strategy
1 st Priority – To move people -	Maintain existing roads, sidewalks and bikeways
2 nd Priority -To create jobs -	Improve employees’ access to current employment centers
3 rd Priority – To strengthen neighborhoods-	Provide streets/sidewalks that are comfortable for bicycles and pedestrians
4 th Priority - To protect the environment -	Reduce reliance on fossil fuels







Existing Conditions & Identified Needs

	Estimated Need	Entity	Description
People who bicycle	\$ 31,209,926	Countywide	Bicycle infrastructure
	\$ 2,397,000	Lawrence	Identified programmed bikeway projects
People who walk	\$ 4,770,810	Countywide	Sidewalk maintenance on the priority network
	\$ 14,776,590	Countywide	Sidewalk installation on both sides of the street on the priority network
	\$ 2,497,000	Countywide	Sidewalk installation on one side of the street on the priority network
	\$ 4,428,000	Countywide	Repair or construct ADA curb ramps
	\$ 533,000	Lawrence	Identified programmed pedestrian projects
	\$ 193,282,400	Lawrence	24 yrs of \$6.75 million annual Lawrence Transit operations at current level of service
People who ride transit	\$ 14,315,500	Lawrence	24 yrs of \$500,000 annual Lawrence Transit night service operations
	\$ 28,634,500	Lawrence	24 yrs of \$1 million annual Lawrence Transit Sunday service operations
	\$ 86,400,000	Lawrence	24 yrs of \$3.6 million annual KU on Wheels operations
	\$ 5,000,000	Lawrence	Bus transfer hub development
	\$ 4,000,000	Lawrence	Transit technology for Lawrence Transit/KU on Wheels
	\$ 12,000,000	Lawrence	Lawrence Transit vehicle replacement
	\$ 37,223,700	Lawrence	KU on Wheels vehicle replacement
	\$ 21,781,600	Countywide	24 yrs of \$760,700 annual other human service transportation providers operations & capital expenses
People who drive	\$ 480,000	Lawrence	Currently identified and approved unfunded traffic calming
	\$ 15,167,065	Lawrence	Minor/major pavement rehabilitation (improve 55-65 PCI to ideal 100 PCI)
	\$ 30,020,683	Lawrence	Pavement preservation work (improve 66-85 PCI to ideal 100 PCI)
	\$ 35,000,000	Lawrence	Intelligent Transportation Systems (ITS) implementation
	\$ 2,700,000	Countywide	Replace 4 functionally obsolete bridges
	\$ 1,102,216,405	Countywide	Identified programmed roadway projects
	\$ 94,719,242	Countywide	Identified illustrative roadway projects
Total		\$ 1,743,553,421	

Note: Transit operations includes a 1.5% annual inflation rate. These estimates are not exclusive, but have been identified in the planning process.

Source: Lawrence-Douglas County MPO (2017), Regional Pedestrian Plan (2016), Countywide Bikeway System Plan (2014), Lawrence Transit (2017), and Lawrence Public Works Department (2017)

Goals & Objectives

		Goals	Objectives
Access & Choices		Enhance Transportation options and choices for improved system performance	Improve regional connectivity (urban/rural) of all modes of the transportation networks including access to desired destinations.
			Enhance transit service, amenities and facilities.
Mobility & Prosperity		Efficient movement of people, goods, and freight	Implement strategies that address system performance & improve reliability, capacity and competitiveness for regional freight.
Preservation, Safety, & Security		Prioritize preservation, safety, and security of the transportation network	Support projects and policies that improve safety.
			Preserve and enhance transportation infrastructure and assets.
Sustain & Enhance		Minimize adverse social, economic, and environmental impacts created by transportation	Promote density to reduce transportation costs & reduce environmental impacts of transportation.
			Reduce single occupancy vehicle trips.

Financial Analysis

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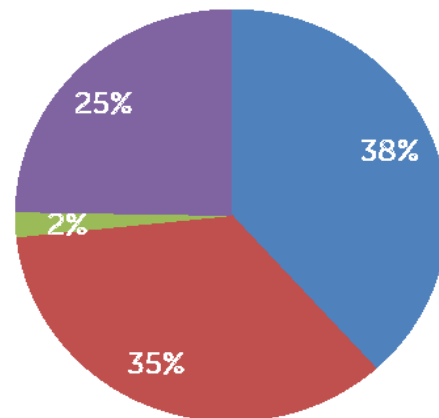


What are Operations & Maintenance (O&M)

Operations & maintenance (O&M) refers to the running & preservation of the transportation system, including roadways, sidewalks, bike routes, and transit vehicles.

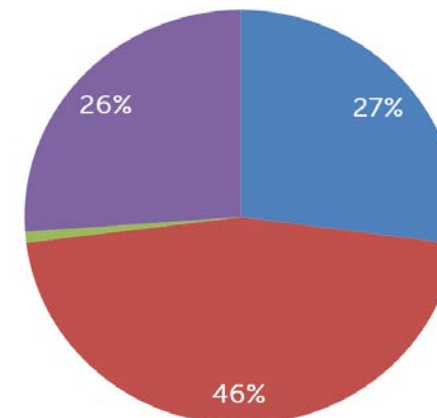


Draft T2040
FY2017-2040 Total
Revenues



- Road & Bridge O&M
- Road & Bridge Projects
- Non-Motorized Projects
- Transit Operations & Capital

Old T2040
FY2012-2040 Total Revenues

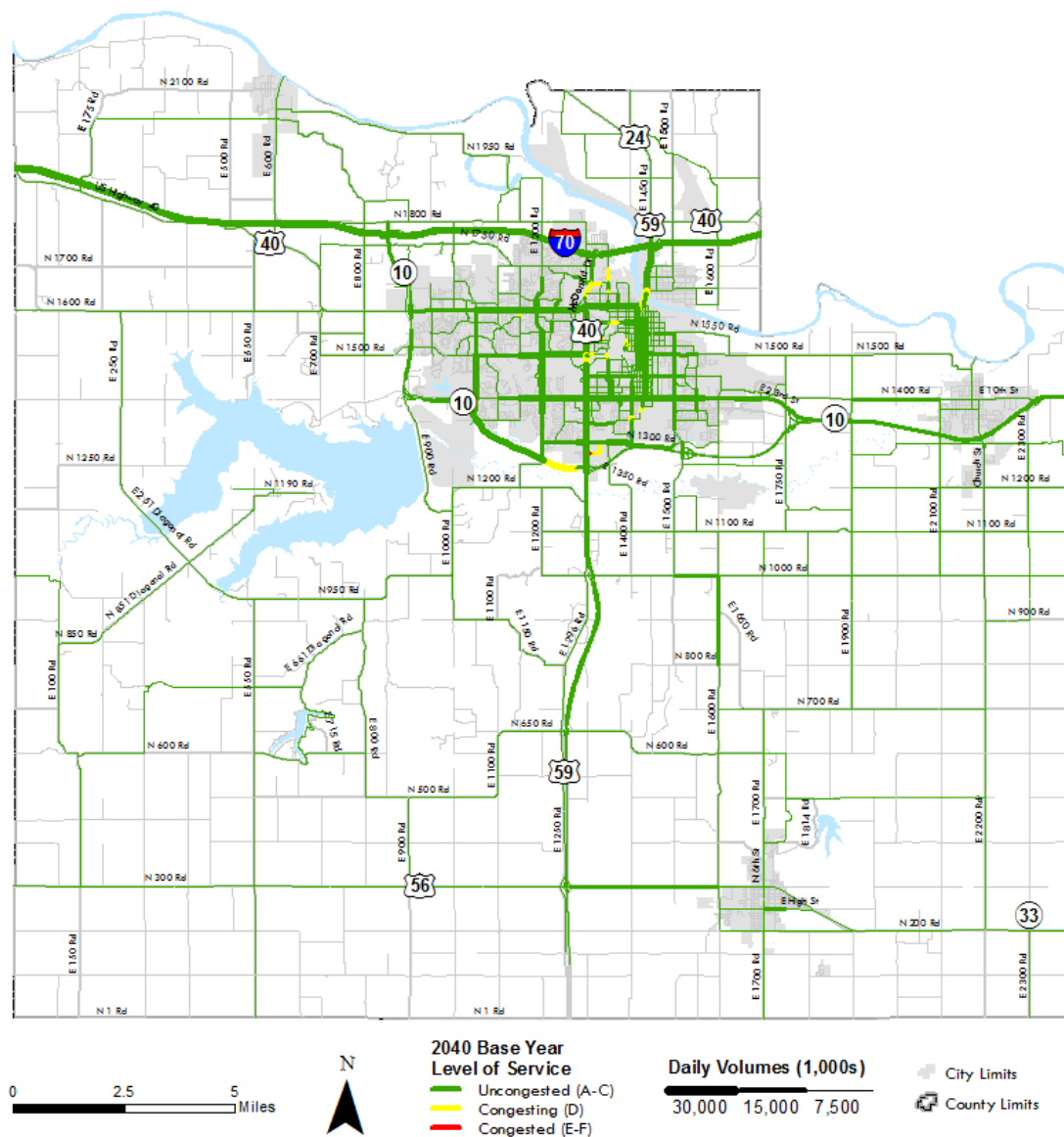


- Road & Bridge O&M
- Road & Bridge Projects
- Non-Motorized Projects
- Transit Operations & Capital



Travel Demand Model – Base Year

13

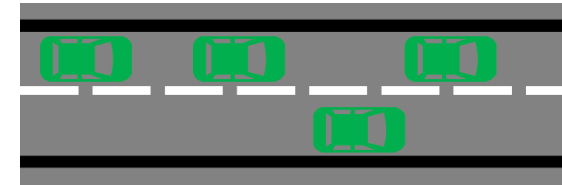


Source: Lawrence-Douglas County MPO Travel Demand Model (2017)
Produced: Lawrence-Douglas County MPO (2017)

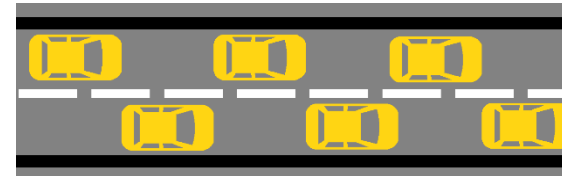


Level of Service (LOS) Categories

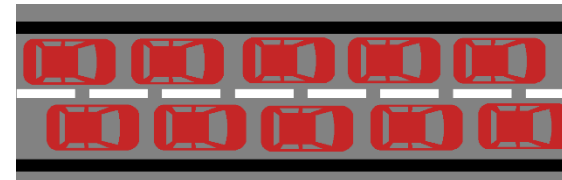
Uncongested (A-C)



Congesting (D)

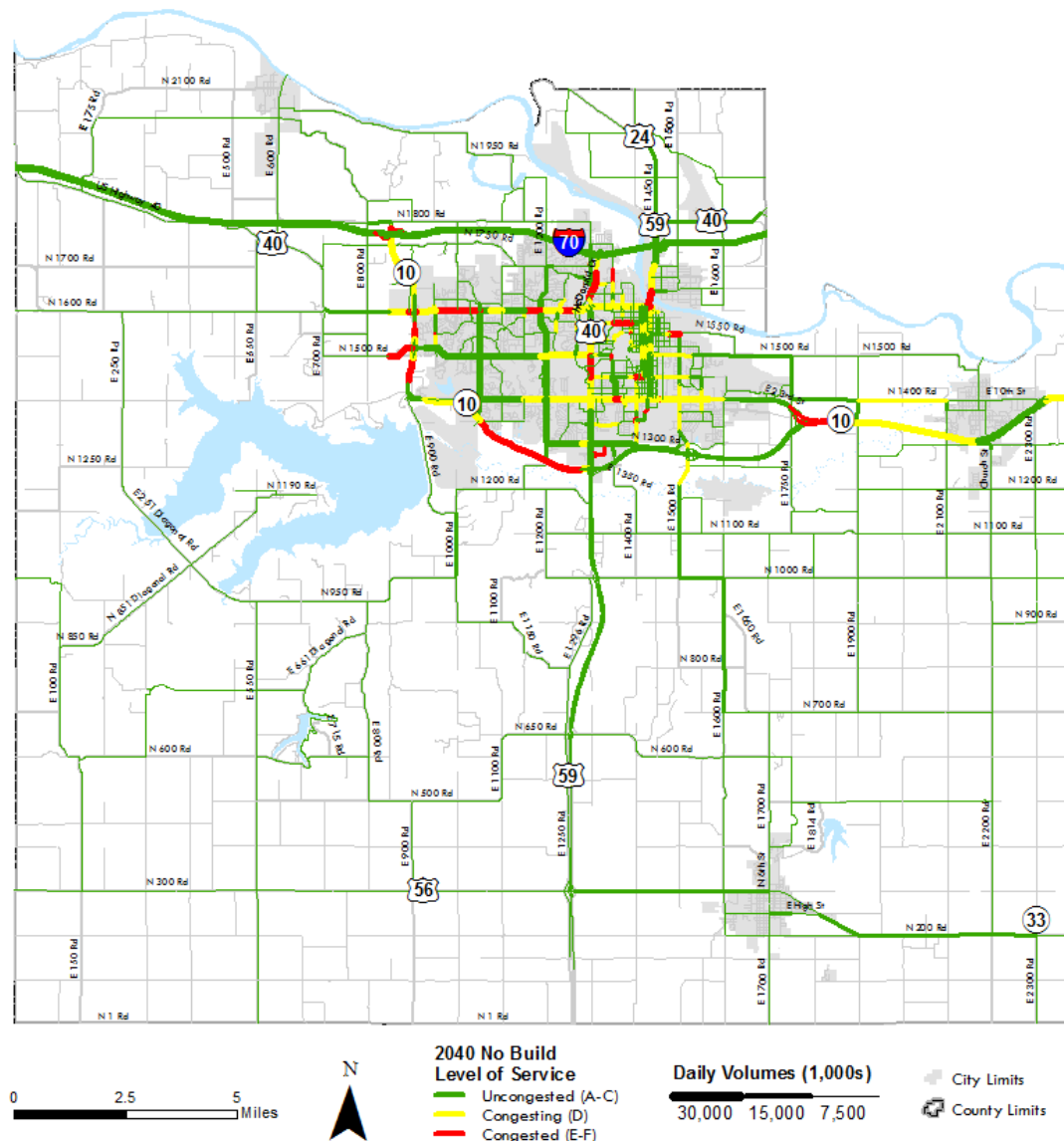


Congested (E-F)



Travel Demand Model –No Build 2040

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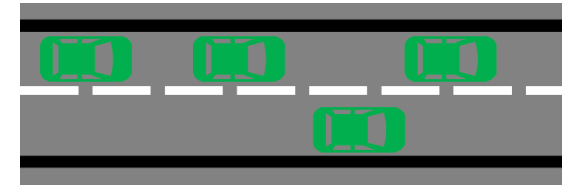


Source: Lawrence-Douglas County MPO Travel Demand Model (2017)
Produced: Lawrence-Douglas County MPO (2017)

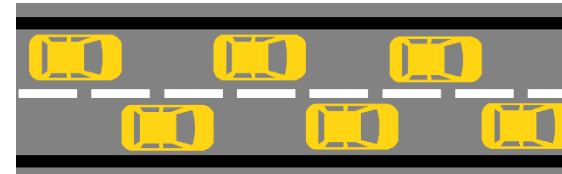


Level of Service (LOS) Categories

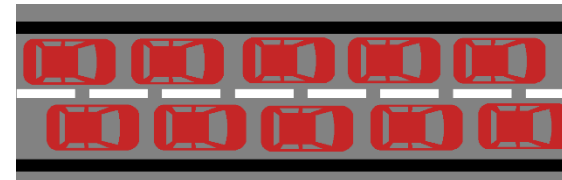
Uncongested (A-C)



Congesting (D)

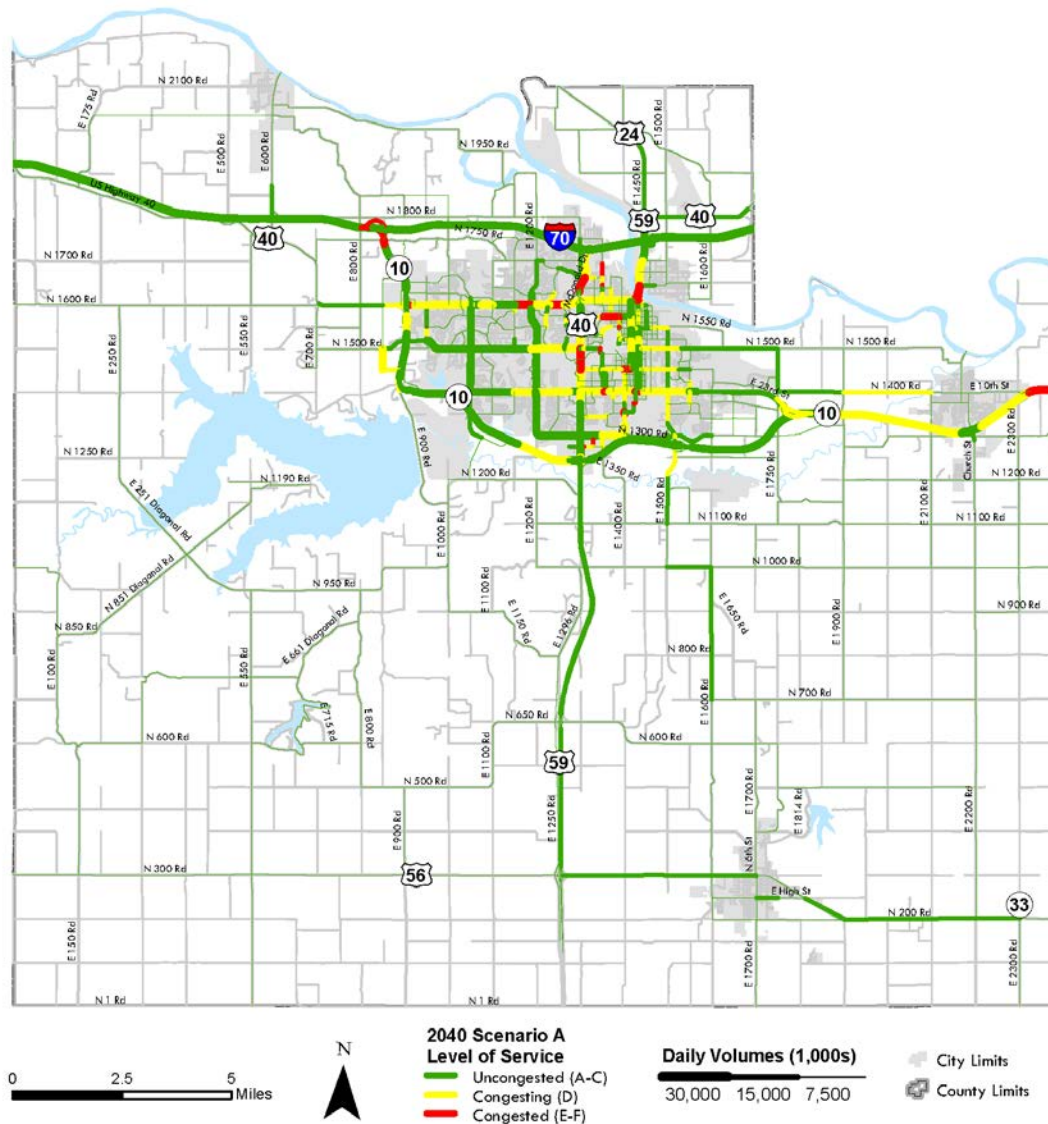


Congested (E-F)



Travel Demand Model – Preferred Scenario

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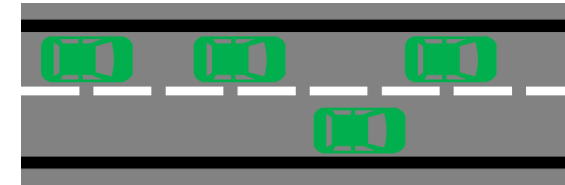


Source: Lawrence-Douglas County MPO Travel Demand Model (2017)
Produced: Lawrence-Douglas County MPO (2017)



Level of Service (LOS) Categories

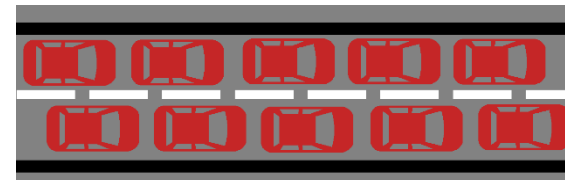
Uncongested (A-C)



Congesting (D)

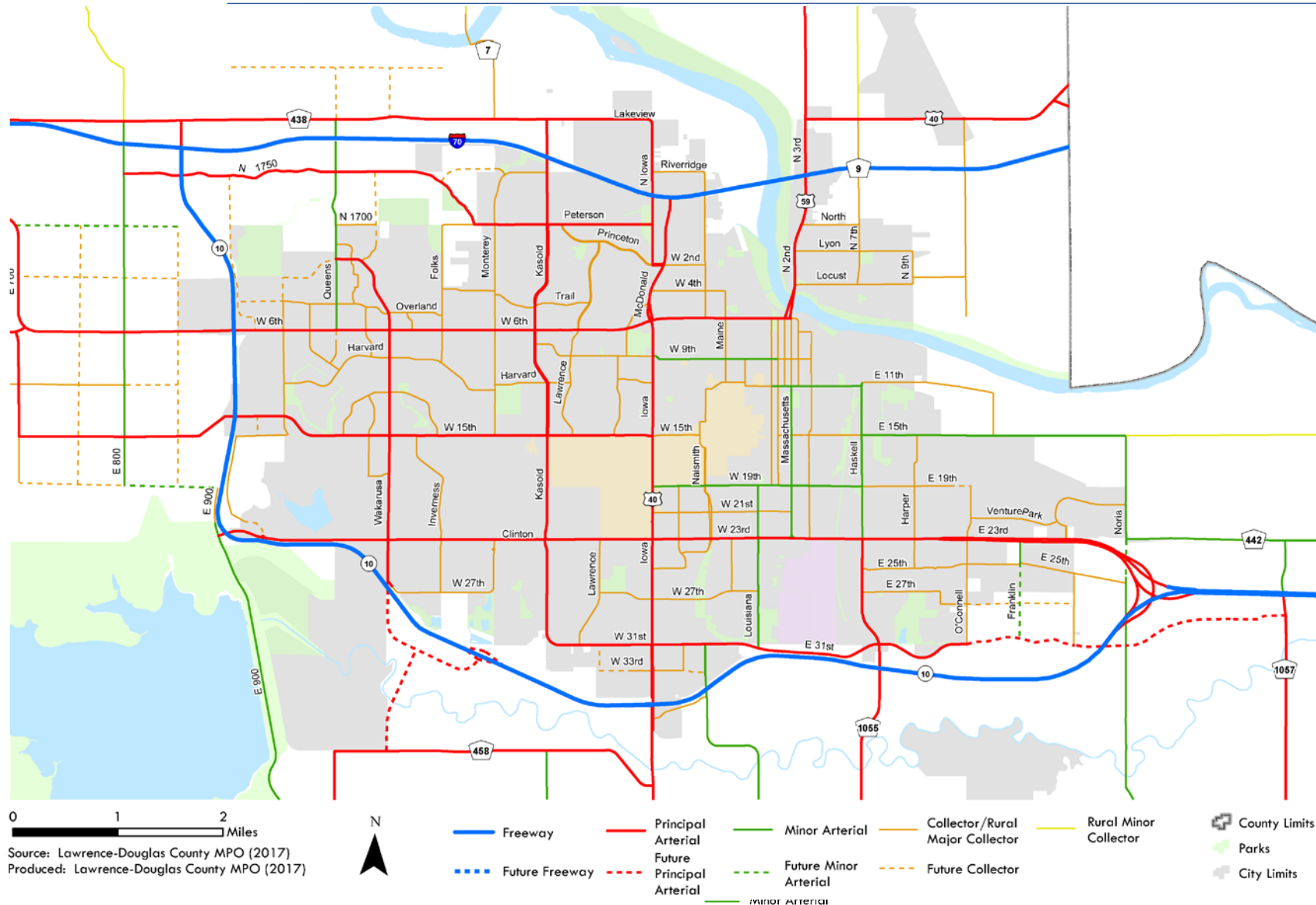


Congested (E-F)



Major Thoroughfares Map

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Federal Functional Classification & Major Thoroughfares



The Federal Functional Classification Map is a federally mandated map with certain requirements & is used on a state and national level for funding eligibility.

The Major Thoroughfares Map is used by Lawrence and Douglas County to balance land access and thru movement of traffic for network level planning. Network planning ensures connectivity and access, as well as guides local decisions on corridor preservation, access management, and roadway design.

Projects & Strategies- Multimodal

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Encourage safe and efficient traveling through the multimodal networks

- Integrate multimodal elements in project planning, design, construction, and maintenance, consistent with the Complete Streets Policy
- Plan and implement citywide multimodal wayfinding
- Prioritize crash (vehicle and non-motorized) hot spots for safety improvements
- Strengthen and implement access management for all users
- Facilitate, develop, and distribute safety education programming/materials for all users

Continue a transparent and coordinated transportation planning process that encourages participation and performance based planning

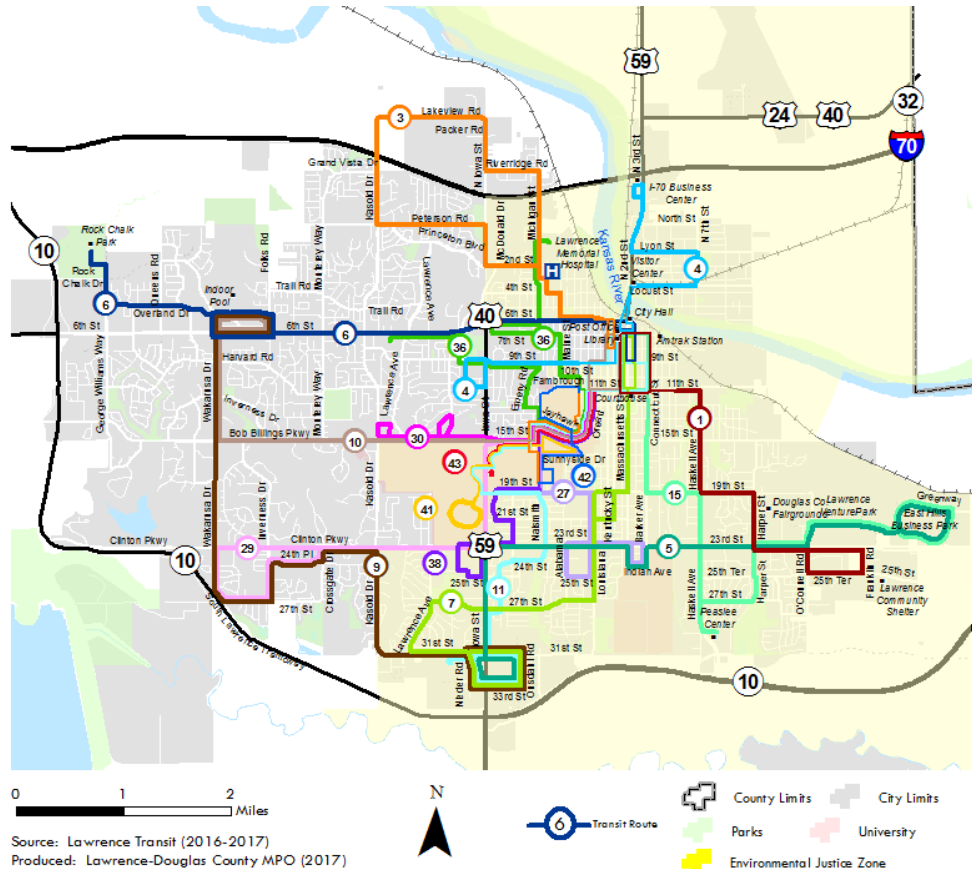
- Incorporate and evaluate the distribution and impacts of transportation programs, projects, and services during planning, design, and construction.

Coordinate decision making to balance land use and environmental impacts

- Employ site design requirements that encourage pedestrian travel and non-single occupancy vehicle trips
- Continue to follow emerging technologies and market driven transportation (automatic vehicles, electric vehicles, rideshare).

Projects & Strategies- Transit

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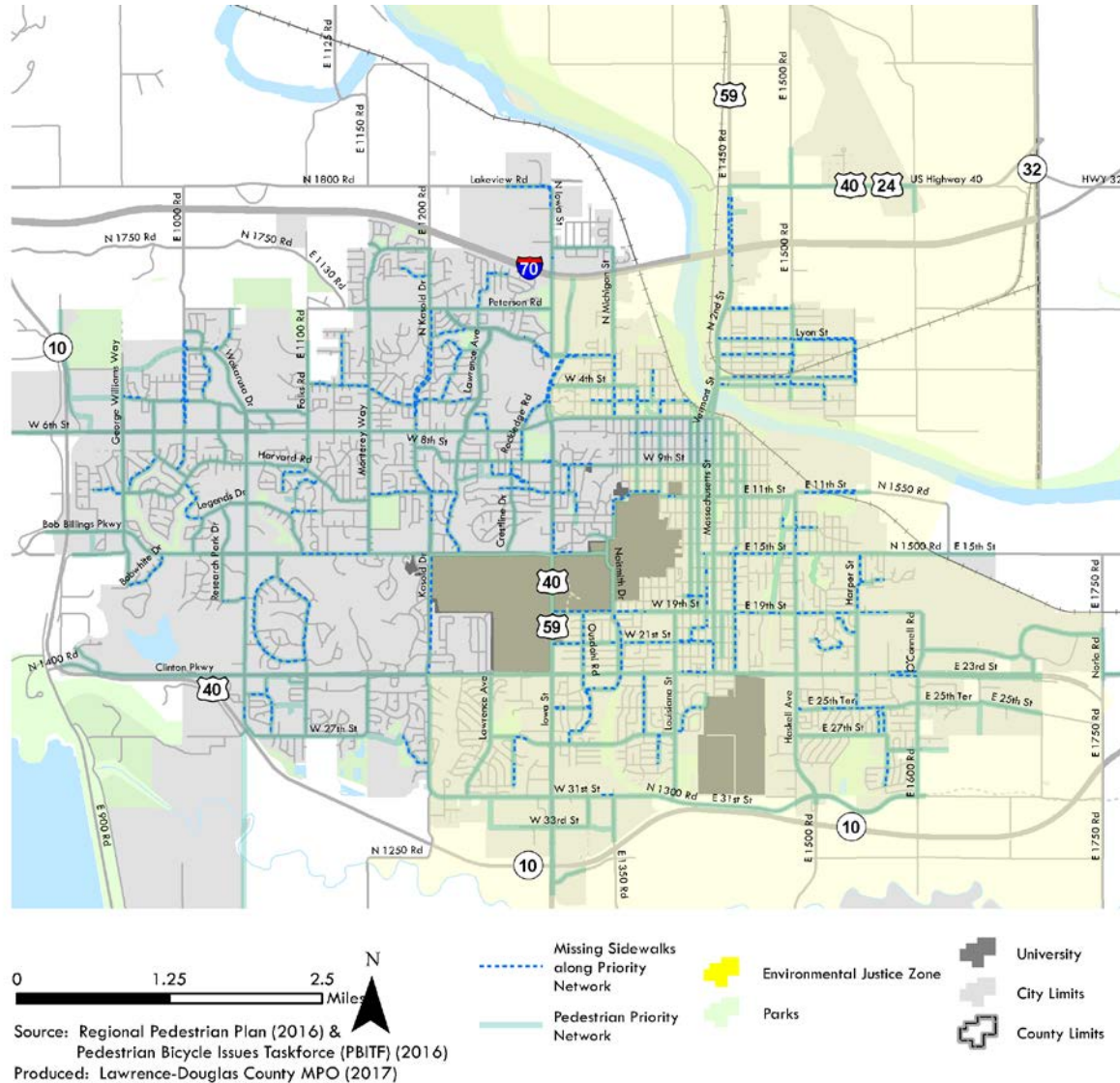
Implement the Transit Comprehensive Operations Analysis (COA) and Bus Transfer Location Analysis

- Providing responsive transit service reflective of demand
- Continue deployment transit amenities (shelters, benches, real time information, etc.) based on the Transit Amenities Policy
- Invest in technology supporting transit operations (ex: passenger counters, automatic vehicle location, etc.).
- Maintain and replace transit vehicles
- Establish permanent primary and secondary bus transfer locations

Operator	Bert Nash CMHC	Cottonwood, Inc.	Independence, Inc.	KU on Wheels Fixed Route	KU on Wheels JayLift	Lawrence - Douglas County Housing Authority Babcock Bus	Lawrence Transit Fixed Route	Lawrence Transit T-Lift	RideKC: K-10 Connector	Senior Resource Center for Douglas County	Total
Annual Ridership (2016)	4,639	1,838	4,481	1,898,884	3,410	1,986	1,120,805	66,934	104,969	5,959	3,213,905

Projects & Strategies - Pedestrian

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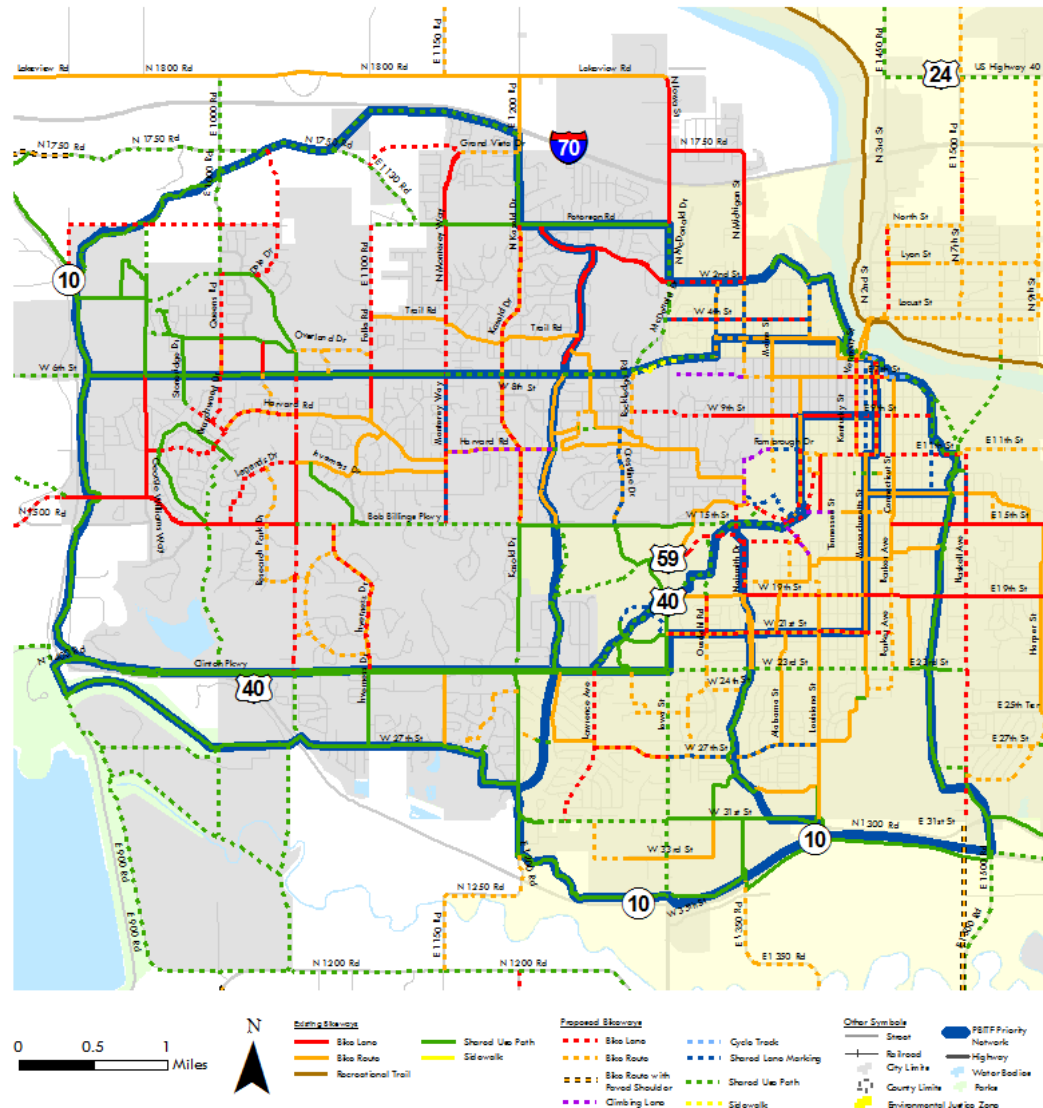


Implement the Regional Pedestrian Plan

- Prioritize pedestrian improvements to construct the priority pedestrian networks.
- Maintain and improve the existing pedestrian networks conditions and enforce sidewalk repair policy or establish a sidewalk maintenance program
- Plan and implement an Americans with Disabilities Act (ADA) Transition
- Maintain and Implement Safe Routes to School
- Use traffic calming to improve safety and implement a traffic safety campaign
- Develop tools to educate and encourage trips by walking through programs like wayfinding signage or open streets events

Projects & Strategies - Bikeway

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Source: Countywide Bikeway System Plan (2014) &
Pedestrian Bike Issues Task Force (PBITF) (2016)
Produced: Lawrence-Douglas County MPO (2017)

Implement the Countywide Bikeway Plan

- Enhance multimodal friendliness and minimize crashes and injuries of bicyclists through design.
- Prioritize bicycle improvements based on plan priorities to construct the bikeway networks.
- Maintain and improve bikeway networks conditions
- Develop tools and educational programs to encourage trips by bicycle such as the Bicycle Rideability Map



- Implement the Regional Intelligent Transportation System Plan strategies to maximize network capacity and improve efficiencies
- Implement Travel Demand Management (TDM) strategies to reduce single occupancy vehicle trips

Performance Measures

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Questions?

Transportation Commission February 28, 2018 Study Session

Name	Initials
Members	
Charlie Bryan Law DGCO Health Dept. Representative	CWB
Donna Hultine University of Kansas	dh
Kathryn Schartz Multi-Modal Transportation / Planning Eng Rep	
Mark Hurt PTAC representative	MH
Michele Dillon Pedestrian Representative	
Steve Evans Planning/Engineering Field Representative	SE
Erin Paden Bicyclist Representative	EP
John Ziegelmeyer Local Business Representative	
Ron May USD-497	
City Staff	
David Cronin City Engineer	✓
Charles Soules Public Works Director	
Jessica Mortinger Senior Transportation Planner	✓
Amanda Sahin Transportation Engineer	✓
Zach Baker Project Engineer	
Others Present	
RYAN PEARSON	✓
Margaret Campbell	✓
ASHLEY MYERS	✓
Jeff Crick	✓