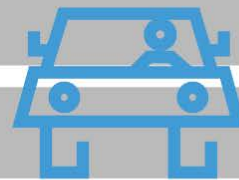
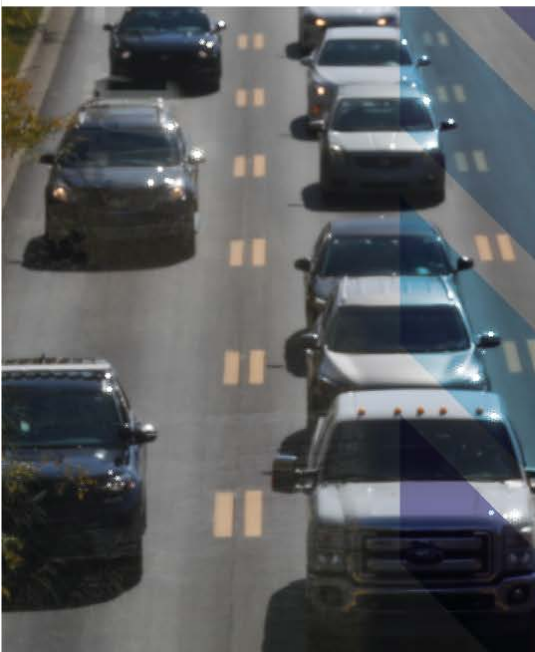
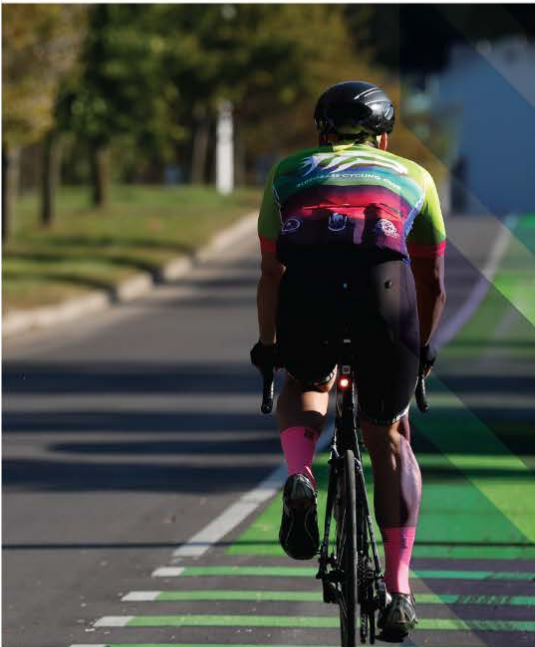
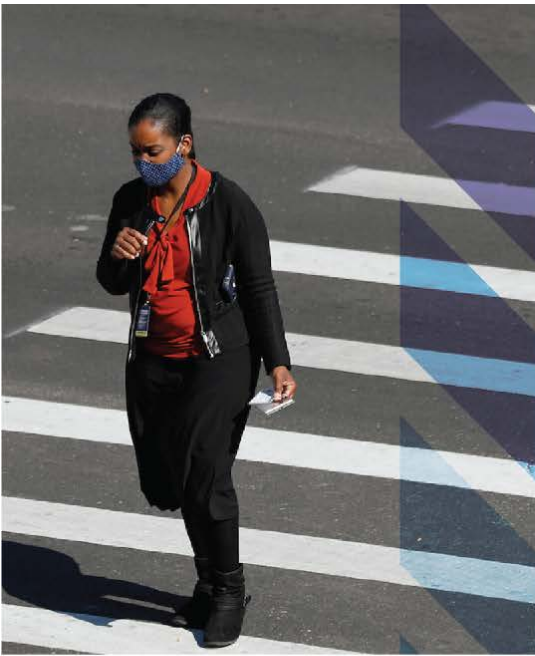


UNIFIED PLANNING WORK PROGRAM

FISCAL YEAR 2023

*Transportation
Planning for Fayette
and Jessamine Counties*



Lexington Area Metropolitan Planning Organization
101 East Vine Street, Lexington, KY 40507
www.LexAreaMPO.org

This Unified Planning Work Program is financed in part by the following:

US Department of Transportation: Federal Highway Administration (FHWA)

US Department of Transportation: Federal Transit Administration (FTA)

Kentucky Transportation Cabinet (KYTC)

Lexington Fayette Urban County Government (LFUCG)

Lextran

Jessamine County Fiscal Court

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Introduction

ABOUT THE MPO

Federal law requires all US Census defined urbanized areas with populations greater than 50,000 to designate a Metropolitan Planning Organization (MPO) to develop transportation plans for the region. Urbanized areas with populations over 200,000 are designated as Transportation Management Areas (TMA) which carry additional planning and funding requirements. The Lexington Area MPO consists of Fayette and Jessamine County which includes the cities of Lexington, Nicholasville and Wilmore. The 2010 U.S. Census designated a small densely populated portion of Scott County as part of the Urbanized Area and part of the MPO planning area. The 2020 Census may identify additional areas as part of the Urbanized Area with those designations anticipated in April 2022. This document will incorporate any new portions of the designated Urbanized Area into the MPOs planning efforts after Census designation.

MPOs ensure that local people and governments are represented in an impartial setting in an effective transportation planning process. To that end, each MPO collaborates with federal, state and local governments, transit agencies, stakeholders and the public to ensure transportation policies, plans, projects and programs move the region forward based on mutually agreed upon goals.

The MPO is responsible for four major transportation planning documents that are regularly “Certified” by the Federal Highway Administration (FHWA). These documents guide the allocation and expenditure of federal transportation dollars in our region.

Unified Planning Work Program	Participation Plan	Transportation Improvement Program	Metropolitan Transportation Plan
<ul style="list-style-type: none">• Outlines the work activities of the MPO• Updated annually	<ul style="list-style-type: none">• Outlines strategies for effective public and stakeholder involvement• Updated as needed or at least every 5 years	<ul style="list-style-type: none">• Short range implementation plan for projects and programs (4 year horizon)• Updated every 4 years (modified as needed)	<ul style="list-style-type: none">• Long range transportation plan for the region• Planning horizon of 25 years• Updated every 5 years (modified as needed)

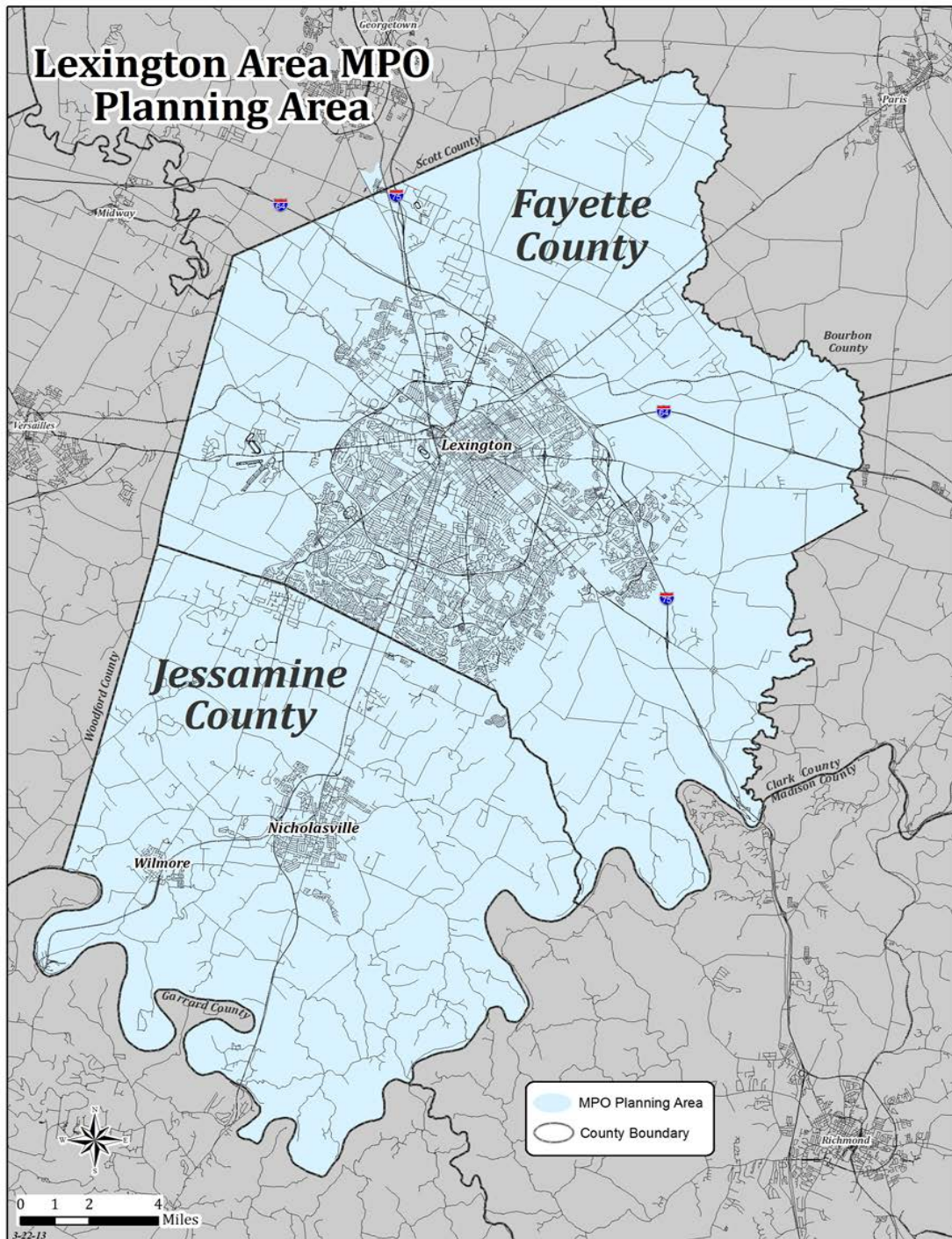
MPOs are charged with developing documents, plans and programs utilizing the 3Cs approach:

Continuing: Planning must be maintained as an ongoing activity and should address short-term needs and a long-term vision for the region.

Cooperative: The process must involve a wide variety of stakeholders and interested parties through a participation process.

Comprehensive: The process must cover all surface transportation modes and be consistent with regional and local land-use and economic-development.

The MPO functions under a committee structure with a decision-making Transportation Policy Committee (TPC), technical committees, and technical staff. The Lexington Area MPO Memorandum of Agreement (MOA) describes the MPO's organizational structure, partner responsibilities, planning policies, and procedures.



Lexington Area Metropolitan Planning Organization (MPO)

Organizational Structure

Transportation Policy Committee

Chairman: David K. West
Jessamine County Judge Executive

Lexington-Fayette Urban County Government:
 Mayor Linda Gorton
 Kevin Atkins (Rep.)

Fayette County, Kentucky:
 Judge Executive Don Blevins Sr.
 Gloria Martin (Rep.)

City of Nicholasville, Kentucky:
 Mayor Pete Sutherland
 Doug Blackford (Rep.)

City of Wilmore, Kentucky:
 Mayor Harold Rainwater
 David Carlstedt (Rep.)

LFUCG Council Districts 1, 2 & 6:
 Councilmember Josh McCurn

LFUCG Council Districts 3, 5 & 11:
 Councilmember Jennifer Reynolds

LFUCG Council Districts 4, 7 & 8:
 Councilmember Fred Brown

LFUCG Council Districts 9, 10 & 12:
 Councilmember Whitney Baxter

Vice-Mayor / Councilmember-at-Large:
 Vice-Mayor Steve Kay

Councilmember-at-Large:
 Councilmember Chuck Ellinger II

Councilmember-at-Large:
 Councilmember Richard Moloney

LexTran Chairman (or Representative):
 Adrienne Thakur, Chair of Board
 Jill Barnett, LexTran General Mgr. (Rep.)

KYTC Sec. of Transportation (or Rep.):
 Jim Gray, Secretary of Transportation
 Kelly Baker, Chief District 7 Engineer (Rep.)

Federated Transit Services of the Bluegrass:
 Executive Director Pam Shepard

Federal Non-Voting Advisory Members:
FHWA: Todd A. Jeter, Division Administrator
FHWA Representative: Bernadette Dupont
FTA: Yvette Taylor
FTA Representative: Aviance Webb

MPO Staff

LFUCG Transportation Planning

Manager/MPO Director: Christopher Evilia

Administrative Officer: Kenzie Gleason
 MTP, Special Projects, Grants, Title VI/ADA

Planners:

Joseph David: Transit Planning, GIS
Vacant: Land Use & Traffic Impact, Modeling
Sam Hu: Congestion Mgmt., Air Quality
Stuart Kearns: TIP, Performance Measures
Scott Thompson: Bike & Pedestrian
Hannah Crepps: Outreach

Administrative Specialist:

Deborah Woods

MPO Subcommittees

- **Transportation Technical Coordination Committee (TTCC)**
- **Congestion Management & Air Quality Committee (CMAQ)**
- **Bicycle & Pedestrian Advisory Committee (BPAC)**
- **Transportation Project Coordination Committee (PCT)**
- **Other Special Committees**

ABOUT THE UNIFIED PLANNING WORK PROGRAM

The UPWP is a federally required document that communicates to the public and stakeholders how their federal transportation planning dollars will be used on regional planning activities over the coming year. It describes how the MPO will carry out the transportation planning process including related planning activities, studies, products and timelines. It also outlines expenditures attributed to individual work elements and the funding sources to be used. The current federal regulations that guides MPOs in developing an annual UPWP include 23 USC 134 (a); 49 USC 5303(a) & (b); 23 CFR 420.111; 23 CFR 450.308; and 49 CFR 613.

PLANNING FACTORS

The “Infrastructure Investment and Jobs” Act (IIJA) or sometimes referred to as the “Bipartisan Infrastructure Law” (BIL) was signed into law on November 15, 2021 and authorizes federal surface transportation programs through FY 2026. The IIJA reestablished ten planning factors that MPOs must consider when developing transportation plans and programs to ensure consistency with established national goals including:

- Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency.
- Increase the safety of the transportation system for motorized and non-motorized users.
- Increase the security of the transportation system for motorized and non-motorized users
- Increase the accessibility and mobility options available to people and for freight.
- Protect and enhance the environment, promote energy conservation, improve quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns.
- Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight.
- Promote efficient system management and operation.
- Emphasize the preservation of the existing transportation system.
- Improve the resiliency and reliability of the transportation system and reduce or mitigate storm water impacts of surface transportation.
- Enhance travel and tourism.

To accomplish these goals the MPO has organized our work into six focus areas:

- 1.0** Transportation System Data & Monitoring
- 2.0** Project Identification & Prioritization
- 3.0** Program & Project Implementation
- 4.0** Land Use & Traffic Impact
- 5.0** Participation & Outreach
- 6.0** Program Administration

FHWA & FTA PLANNING EMPHASIS AREAS FOR FY 23

The Federal Highway Administration and Federal Transit Administration periodically issues Planning Emphasis Areas (PEAs) for MPO's to include in their work program to further implement federal priorities of the IIJA. In FY 23, these include:

Planning Emphasis Area	Work Task	Work Elements
Tackling the Climate Crisis – Transition to a Clean Energy, Resilient Future	<ul style="list-style-type: none">• Determine methods to ensure the 2050 MTP includes strategies that help achieve national greenhouse gas reduction goal.• Identify proposed projects, programs and strategies to reduce congestion and improve system reliability through the Congestion Management Process and incorporate identified projects into the MPO's MTP and TIP. This will include strategies to reduce greenhouse gas emissions to achieve national climate change goals.• See also Complete Street tasks below that seek to reduce greenhouse gas emissions.	2.0 & 3.0
Equity and Justice 40 in Transportation Planning	<ul style="list-style-type: none">• Update and maintain the MPO's equity maps developed from US Census data to identify concentrations of Title VI, Environmental Justice (EJ) communities and Limited English Proficiency individuals in the MPO area.• Utilize the MPO's Census-based equity maps to evaluate the priority, distribution and impact of transportation improvements and services when developing, modifying and amending the MPO's MTP and TIP.• Work with federally-funded transit agencies including Lextran and their paratransit service provided by the American Red Cross (Wheels), Federated Transit Services of the Bluegrass (FTSB), and Blue Grass Community Action Partnership (BGCAP) to implement and expand public transit programs and projects in the Lexington area, with an emphasis on disadvantaged communities.• Strategically target participation and outreach efforts to engage Title VI, LEP individuals and other disadvantaged communities as outlined in the Participation Plan and Title VI Program Plan.• Participate in developing a regional Coordinated Public Transit-Human Services Transportation Plan to improve transportation services and mobility for persons with disabilities, older Americans, and individuals with lower incomes.• See also Complete Streets tasks below emphasizing disadvantaged communities.	1.0, 2.0, 3.0 & 4.0
Complete Streets	<ul style="list-style-type: none">• Develop an MPO Complete Streets Policy and seek adoption from the TPC.	2.0 & 3.0

	<ul style="list-style-type: none"> • Coordinate with the City of Lexington and KYTC on developing and adopting state and local Complete Street policies. • Coordinate with various agencies to implement projects identified in the MPO's Regional Bicycle & Pedestrian Plan, with an emphasis on Complete Street projects in disadvantaged communities. • Work with KYTC to incorporate recommendations from the Local Road Safety Plan for Fayette County into the MPO's MTP, with an emphasis on disadvantaged communities. • Participate in the LFUCG Pedestrian Safety Working Group and coordinate with LFUCG agencies to implement identified improvements, with an emphasis on disadvantaged communities. • Assist in developing and updating local design and maintenance standards for pedestrian and bicycle facilities to create more Complete Streets. 	
Public Involvement	<ul style="list-style-type: none"> • Update the Participation Plan in FY 23 in advance of developing the 2050 MTP, to include strategies to Integrate Virtual Public Involvement (VPI) tools into the overall public involvement approach, as well as methods to reach individuals without access to computers and mobile devices. 	5.0
Strategic Highway Network (STRAHNET) / US Dept of Defense Coordination	<ul style="list-style-type: none"> • Ensure that projects within the 2050 MTP and TIP that involve STRAHNET routes (I-64 & I-75) are prioritized and coordinated with Department of Defense agencies, as appropriate. 	2.0 & 3.0
Federal Land Management Agency (FLMA) Coordination	<ul style="list-style-type: none"> • Ensure that projects in the 2050 MTP and TIP that involved federal lands are coordinated with Federal Land Management Agencies and are prioritized, as appropriate. Coordinate with Federal Land Management Agencies to identify challenges and opportunities regarding access to federal lands. 	2.0
Planning & Environmental Linkages (PEL)	<ul style="list-style-type: none"> • Ensure that MPO project selection criteria for the MTP and TIP consider the environmental, community, and economic goals identified in these local Comprehensive, Small Area and Corridor Plans and that environmental considerations are included early in the planning process. 	2.0, 3.0 & 4.0
Data in Transportation Planning	<ul style="list-style-type: none"> • Conduct an inventory of transportation-related data that is available for the region and facilitate a dialogue with the various agencies to identify opportunities for data sharing. 	1.0

LEXINGTON AREA MPO WORK PROGRAM HIGHLIGHTS

The following list summarizes major work efforts and tasks that were initiated or completed by the Lexington Area MPO during FY 2022. MPO priorities for the upcoming FY 2023 Work Program are summarized on the following page.

FY 2022 UPWP ACCOMPLISHMENTS

- **Transportation Improvement Program** – Processed two amendments and ten modifications to the FY2021-2024 [Transportation Improvement Program](#) to advance priority transportation projects.
- **KYTC Six Year Highway Plan & SHIFT Program** - Coordinated the MPO's 2022 SHIFT Program to ensure the KY State Highway Plan is consistent with the MPO's MTP and TIP and reflects priorities identified by the MPO Transportation Policy Committee.
- **Local Road Safety Plan** - Coordinated with KYTC to develop this safety plan for Fayette County.
- **East Fayette Trail Connectivity & Traffic Safety Study** – Initiated this study to determine an alignment for a shared use trail from Third Street / Isaac Murphy Memorial Art Garden (IMMAG) to trails planned for construction along Liberty Road.
- **Northeast New Circle Road Coordinate Land Use & Transportation Plan** – Initiated this study to develop a coordinated corridor land use plan and transportation study for the signalized portion of Northeast New Circle Road.
- **Imagine Nicholasville Road** – Worked to implement the plan by seeking support / funding to conduct traffic simulation studies, transit service / capital needs assessments, and to develop land use & design regulations.
- **Jessamine-Fayette Connectivity Study** – Coordinated with KYTC to complete this study that identifies potential options for future consideration to improve east-west connectivity between northeast Jessamine and southeast Fayette counties to improve safety and mobility.
- **Congestion Management Bottleneck Study** – Completed this study that identified low cost, high impact improvements to relieve congestion at top bottleneck locations.
- **Lextran Comprehensive Operational Analysis** – Completed funding commitments for the COA which will guide service improvements for Lextran over the next 5 years.
- **Land Subdivision Regulation and Zoning Ordinance Amendments** – Coordinated updates to Lexington's planning and zoning regulations to provide for improved street connectivity, complete streets, parking requirements, curbside management and traffic impact studies.
- **Lexington Bicycle Map** – Updated the print and digital interactive map which allows residents to plan bicycle routes based on location, type of bicycle facility and their individual skill and comfort level.
- **Shared Mobility Vehicle Program** – Administered Shared Mobility Vehicle permits, managed current licensees, and oversaw associated data collection and enforcement.
- **Participation & Outreach** – Updated the [Title VI Program Plan](#). These plans outline how the MPO will seek meaningful and equitable input in the transportation planning process.
- **Annual Work Plans & Reporting** – Developed the MPO's [Unified Planning Work Program](#); [Annual Performance and Expenditure Report](#) & [Annual Listing of Obligated Projects](#).

UPWP PRIORITIES FOR FY 2023

- **KYTC Six Year Highway Plan & SHIFT Program** - Coordinate with KYTC to incorporate projects identified within the State Highway Plan for FY 2023/2024 into the MPO's TIP.
- **2050 Metropolitan Transportation Plan** - Begin work to develop the 2050 Metropolitan Transportation Plan including data collection and analysis, goals & objectives development.
- **Travel Demand Model** - Update population, employment and network data in the Lexington Area MPO's Travel Demand Forecasting Model based on the 2020 Census and regional plans.
- **Participation Plan** - Update the Participation Plan in advance of the 2050 MTP.
- **Freight Study** – Complete the Lexington Area Freight Study to assess the current and projected flow of goods within the region, identify freight bottlenecks and opportunities to improve the efficiency of regional goods movement.
- **Virginia / Red Mile / Forbes Rd Trail Connectivity Safety Study** – Initiate this study in partnership with the University of Kentucky to evaluate cross-town bicycle & pedestrian improvements from the Meadowthorpe neighborhood (off Leestown Rd) to the University of Kentucky Campus.
- **Northeast New Circle Road Coordinate Land Use & Transportation Plan** - Complete this study to develop a coordinated corridor land use plan and transportation study for the signalized portion of Northeast New Circle Road.
- **Imagine Nicholasville Road** – Initiate a feasibility study in coordination with KYTC and Lextran to evaluate various design and modal concepts identified within the Imagine Nicholasville Road and Congestion Management Study in order to inform decision-making.
- **Congestion Management / Bottleneck Study** - Integrate recommended projects into the MTP and TIP.
- **Local Road Safety Plan** – Integrate recommended improvements into the MPO's MTP and TIP.
- **East Fayette Trail Connectivity & Traffic Safety Study** – Integrate recommended improvements into the MPO's MTP & TIP.
- **Lextran Comprehensive Operational Analysis** - Work with Lextran to implement recommendations from the COA for service improvements over the next 5 years.
- **Land Subdivision Regulation and Zoning Ordinance Amendments** – Continue work with the City of Lexington to develop and implement a series of regulatory changes to local Zoning Ordinances and Subdivision Regulations to achieve desired regional transportation planning outcomes including increased roadway connectivity, walkability, bike-friendly and transit-oriented development.
- **Infrastructure Investment & Jobs Act** - Monitor IJA guidance and ensure compliance with resulting rules and regulations.
- **Grant / Discretionary Funding Opportunities** - Research, disseminate information and assist local agencies with federal grant applications for bicycle, pedestrian, transit and roadway projects.
- **Participation & Outreach** – Continue collaboration with the City of Lexington's Division of Environmental Quality to conduct a public information campaign for transportation planning activities, project development, operational improvements and maintenance activities.
- **Annual Work Plans & Reporting** – Develop the MPO's Unified Planning Work Program, Performance and Expenditure Report, Annual Listing of Obligated Projects & Title VI Program Plan.

1.0 TRANSPORTATION SYSTEM DATA & MONITORING

PURPOSE

To collect and analyze data and track the performance of the transportation system. To monitor transportation trends, rules, regulations and best practices to inform the transportation planning process.

WORK ACTIVITIES

- Compile, analyze and maintain data (including GIS data) for the following:
 - US Census and other demographic/socioeconomic data
 - Population & employment growth
 - Regional travel patterns
 - Roadway characteristics and condition
 - Transit routes and ancillary facilities
 - Inventory of transit assets and condition
 - Bicycle and pedestrian facilities
 - Freight-related data
 - Safety & crash data (including transit safety data)
 - Air quality data (ozone & particulate matter)
 - Congestion data (including travel time reliability and delay)
 - Transportation system usage data (traffic counts, bicycle/pedestrian counts, transit ridership, shared mobility device usage)
- Conduct an inventory of transportation-related data that is available for the region and facilitate a dialogue with the various agencies to identify opportunities for data sharing.
- Coordinate with KYTC and Lextran (5307 recipient) to monitor and report on national Transportation Performance Management metrics and progress toward meeting the established targets for safety, infrastructure condition, system performance, transit asset management and transit safety. Performance targets are set by Lextran and by KYTC and have been adopted and supported by the MPO. MPO adoption of safety targets and transit asset condition targets must occur annually. In FY 23, the MPO will evaluate the possibility of setting regional targets for safety performance measures.
- Monitor congestion and transportation system performance in accordance with federal planning requirements for a Congestion Management Process (CMP). Work with stakeholder groups to acquire and utilize the best available congestion-related data to inform the CMP. An RFP for a Transportation Data Analytics was issued in FY2022. An executed contract with the selected vendor is anticipated in Q4 of FY2022 and will extend through FY2023.
- Update and maintain the MPO's equity maps developed from US Census data to identify concentrations of Title VI, Environmental Justice (EJ), Underserved and Historically Disadvantaged communities, and Limited English Proficiency individuals in the MPO area. These maps are used to inform project prioritization, project development and targeted outreach efforts. Work to update these maps began in FY 2022 when US Census 2020 data was made available and will be completed in FY2023.

WORK ELEMENTS

- Assist Lextran and other federally funded transit entities in the Lexington area with data analysis and mapping, including maintenance of the GIS-based “Transit Route Facilities Inventory Database.”
- Monitor the safety of the transportation system by mapping crash and incident data.
- Monitor the security of the transportation system by coordinating with emergency and public safety agencies regarding emergency management operations and disaster preparations.
- Review local air quality monitor readings to track trends and compliance with air quality standards.
- Identify and maintain maps of critical urban freight corridors in the Lexington MPO area in consultation with KYTC.
- Monitor corridors within the National Highway Freight Network and identify freight movements of significance within the MPO area.
- Update roadway functional classification maps in coordination with local and state agencies.
- Update the MPO’s Urbanized Area Boundary as necessary per U.S. 2020 Census data.
- Update population, employment and network data in the Lexington Area MPO’s Travel Demand Forecasting Model. Submit updates to KYTC.
- Monitor transportation-related rules, regulations, standards/guidelines and best practices.

PRODUCTS*

- Current data sets and GIS layers of transportation-related data (ongoing)
- Current Transportation Performance Management System data for the Lexington area and resolutions in support of statewide or regional performance targets (ongoing)
- Annual adoption of safety targets and transit asset condition targets (annual)
- Updated equity maps (ongoing)
- Updated roadway functional classification maps (ongoing)
- Updated “Transit Route Facilities Inventory Database” (ongoing)
- Updated population, employment and network data in the Lexington Area MPO’s Travel Demand Forecasting Model and submitted to KYTC (ongoing).

**MPO IS RESPONSIBLE AGENCY UNLESS OTHERWISE NOTED*

Total Staff Months 10.5	FHWA (PL)			FHWA (STBG-SLX)		FTA (5303)		TOTAL
	FHWA (80%)	KYTC (5%)	LOCAL (15%)	FHWA (80%)	LOCAL (20%)	FTA (80%)	LOCAL (20%)	
Personnel	\$42,571	\$2,661	\$7,982	\$22,038	\$5,510	\$7,432	\$1,858	\$90,051
Operating								
Total	\$42,571	\$2,661	\$7,982	\$22,038	\$5,510	\$7,432	\$1,858	\$90,051

2.0 Project Identification & Prioritization

PURPOSE

To identify and prioritize transportation projects and programs that are consistent with regional goals. To maintain a long-range multimodal Metropolitan Transportation Plan (MTP). To ensure projects identified in the MTP are informed by the Congestion Management Process (CMP) and by regional plans that provide additional focus on bicycling, walking, transit, freight and corridor planning.

WORK ACTIVITIES

- Maintain and implement the 2045 Metropolitan Transportation Plan (MTP). Modify and amend the MTP as needed.
- Utilize the MPO's Census-based maps to evaluate the priority, distribution and impact of transportation improvements and services when modifying and amending the MPO's MTP
- Utilize the MPO's Travel Demand Forecasting Model (TDFM) as necessary when evaluating and advancing projects in the MTP.
- Provide a description of national performance measures and targets in the MTP, including a system performance report.
- Begin work to develop the 2050 Metropolitan Transportation Plan including data collection and analysis, goals & objectives development.
- Review the MPO Congestion Management Process and recommended projects in coordination with developing the 2050 MTP. Ensure seamless integration of the CMP within the MTP.
- Determine methods to ensure the following is addressed in the 2050 MTP update: 1) there are strategies that help achieve national greenhouse gas reduction goals, 2) environmental considerations are included early in the planning process, 3) the MPO involves Federal Land Management and the Department of Defense agencies, as appropriate, in the development of the MTP.
- Work with KYTC to incorporate recommendations from the Local Road Safety Plan for Fayette County into the MPO's MTP, with an emphasis on disadvantaged communities.
- Conduct the Congestion Management Process (CMP) in accordance with all federal requirements. Integrate the CMP documentation into applicable planning documents, including the MTP.
- Identify proposed projects, programs and strategies to reduce congestion and improve system reliability through the Congestion Management Process and incorporate identified projects into the MPO's MTP and TIP. This will include strategies to reduce greenhouse gas emissions to achieve national climate change goals.
- Update and maintain a list of priority MTP projects in the KYTC Continuous Highway Analysis Framework (CHAF) database for prioritization during the development of the 2024 KYTC Highway Plan.
- Coordinate with the Lexington Fayette Urban County Government, KYTC and Lextran to jointly maintain the MPO area ITS Architecture.
- Conduct a Freight Study to assess the current and projected flow of goods within the region, identify freight bottlenecks and opportunities to improve the efficiency of regional goods movement. Includes the collection and analysis of freight-related data available for the

WORK ELEMENTS

Lexington Area. Data collection for the freight study began in FY 2022. The Transportation Data Analytics Platform acquired by the MPO at the end of FY 2022 will be utilized to further inform the freight study, currently planned for completion in FY2023.

- Coordinate with KYTC to update and maintain the Kentucky Freight Plan.
- Coordinate with Lextran to maintain the regional Coordinated Public Transit-Human Services Transportation Plan to improve transportation services and mobility for persons with disabilities, older Americans, and individuals with lower incomes.
- Work with Lextran and BGCAP to prioritize and program short and long range transit plans and projects in the TIP and MTP, with an emphasis on improving public transportation options for disadvantaged communities.

PRODUCTS*

- MTP administrative modifications and amendments (ongoing)
- Completed Freight Study for the MPO region
- Maintained Coordinated Public Transit-Human Services Transportation Plan for the MPO region (Responsible Agency - Lextran)
- CHAF database entries to be utilized by KYTC to develop the Six Year Highway Plan (ongoing)
- Maintained ITS Architecture (ongoing)

**MPO IS RESPONSIBLE AGENCY UNLESS OTHERWISE NOTED*

Total Staff Months 17	FHWA (PL)			FHWA (STBG-SLX)		FTA (5303)		TOTAL
	FHWA (80%)	KYTC (5%)	LOCAL (15%)	FHWA (80%)	LOCAL (20%)	FTA (80%)	LOCAL (20%)	
Personnel	\$72,024	\$4,501	\$13,504	\$37,286	\$9,321	\$12,574	\$3,144	\$152,354
Operating								
Total	\$72,024	\$4,501	\$13,504	\$37,286	\$9,321	\$12,574	\$3,144	\$152,354

3.0 Program & Project Implementation

PURPOSE

To maintain a short-range Transportation Improvement Program (TIP). To coordinate with state and local agencies on program and project development to implement MPO plans and studies to achieve regional goals and desired outcomes. To identify opportunities to implement MPO projects, plans and programs through community and agency partnerships, grants and other funding programs, and during routine roadway operation and maintenance activities.

WORK ACTIVITIES

- Maintain and implement the FY 2021-2024 TIP. Modify and amend the TIP as needed to add projects and update project information, phasing and cost estimates.
- Reconcile the FY 2021-2024 TIP with the enacted 2022 State Highway Plan. Work began when the State Highway Plan was finalized in Q4 of FY 2022 and will be completed in Q1 of FY 2023.
- Utilize the MPO's Census-based equity maps to evaluate the priority, distribution and impact of transportation improvements and services when modifying and amending the MPO's TIP.
- Ensure the selection of TIP projects includes strategies that 1) help achieve national greenhouse gas reduction goals, 2) address environmental considerations early in the planning process 3) consider the environmental, community, and economic goals identified in these local Comprehensive, Small Area and Corridor Plans.
- Ensure that projects within the TIP that involve STRAHNET routes (I-64 & I-75) are prioritized and coordinated with Department of Defense agencies, as appropriate.
- Ensure that projects within the TIP that involve federal lands are coordinated with Federal Land Management Agencies and are prioritized, as appropriate.
- Provide a description of how projects identified in the TIP are anticipated to provide progress toward achieving national performance measures and targets for safety, infrastructure condition, system performance, transit asset management and transit safety.
- Monitor the status of dedicated STGB-SLX and STBG-TA projects and fund balances, particularly in light of new IIJA funding levels. Conduct a call for projects as available fund balances and apportionments warrant.
- Work with KYTC to incorporate recommendations from the Local Road Safety Plan for Fayette County into the MPO's TIP, with an emphasis on disadvantaged communities.
- Prepare an Annual Listing of Obligated Projects for all federally funded highway and transit projects that were obligated funding in the MPO's TIP during the prior fiscal year.
- Research, disseminate information and assist LPAs with federal grant applications for bicycle, pedestrian, transit and roadway projects.
- Prioritize CMAQ funding applications submitted by LPAs in the Lexington Area and submit rankings to the KYTC. Assist LPAs with air quality improvement calculations for CMAQ funding applications.
- Utilize the MPO's Travel Demand Forecasting Model (TDFM) to inform project development and design decisions.
- Develop partnerships with public, private and non-profit agencies to advance transportation projects and programs of mutual interest.

WORK ELEMENTS

- Participate in project development meetings with the KYTC and local public agencies to provide input on projects goals and design alternatives.
- Work with federally-funded transit agencies including Lextran and their paratransit service provided by the American Red Cross (Wheels), Federated Transit Services of the Bluegrass (FTSB), and Blue Grass Community Action Partnership to implement and expand public transit programs and projects in the Lexington area, with an emphasis on disadvantaged communities.
- Coordinate with the City of Lexington, KYTC and Lextran to implement ITS technologies, projects and programs. Approve the annual scope of work for the ITS/CMS program funded through the STBG-SLX program.
- Coordinate with the City of Lexington, KYTC and Lextran to implement the Congestion Management / Bottleneck Study that was completed for the Lexington area in FY 2022. Work to integrate recommended projects into the MTP and TIP in FY 2023 (and beyond).
- Coordinate with various agencies to implement projects identified in the MPO's Regional Bicycle & Pedestrian Plan, with an emphasis on Complete Street projects in disadvantaged communities.
- Coordinate with the City of Nicholasville to implement the Jessamine County School Connector Study.
- Develop an MPO Complete Streets Policy and seek adoption from the TPC. Work on the policy began in Q3 of FY 2022 and is anticipated to be completed in Q2 of FY2023.
- Coordinate with the City of Lexington and KYTC on developing and adopting state and local Complete Street policies. Work on these policies began in Q3 of FY 2022 and is anticipated to be completed in Q3 of FY2023.
- Participate in the LFUCG Pedestrian Safety Working Group and coordinate with LFUCG agencies to implement identified improvements, with an emphasis on disadvantaged communities.
- Coordinate with state and local agencies to identify opportunities to implement transportation improvement projects and initiatives during routine operation and maintenance activities (ADA and bus stop improvements, lane re-configurations to improve traffic safety and flow, bike lane installations, etc).
- Assist in developing and updating local design and maintenance standards for pedestrian and bicycle facilities to create more Complete Streets.
- Facilitate the deployment of Shared Mobility Devices and Mobility as a Service initiatives in the Lexington Area.
- Assist Lextran in completing a Comprehensive Operational Analysis (FY 2022 see Studies) and incorporate recommended projects into the MTP and TIP in FY 2023 (and beyond).
- Coordinate with Lextran to implement improvement projects identified through the Lextran Transit Route Facilities Inventory including ramps/landing pads, connecting sidewalks, signage, shelters, benches and other amenities with an emphasis on disadvantaged communities.
- Coordinate with the non-profit Via Creative to install artistic bus shelters in the Lexington area.

PRODUCTS*

- TIP administrative modifications and amendments (ongoing)
- Annual Listing of Obligated Projects (Q2)
- Attendance at program and project development meetings noted in MPO Quarterly Reports.
- Attendance at coordination meetings to implement MPO plans and related work efforts noted in MPO Quarterly Reports.

WORK ELEMENTS

- Approved scope of work and approved contracts for the annual ITS/CMS program (STBG-SLX funds)
- Approved construction designs, encroachment permits and utility relocations for Lextran and Via Creative bus stop improvements (ongoing).
- TPC Approved MPO Complete Streets Policy (Q2)
- Funding applications for bicycle, pedestrian, transit & roadway projects submitted by the MPO & partnering agencies.
- Locally adopted policies, rules, regulations fees, etcetera for shared mobility device programs and documented in local ordinance (ongoing).
- Completed Lextran Comprehensive Operations Analysis (see Studies) (Responsible Agency – Lextran – Summer 2022/2023)
- Prioritized list of CMAQ projects submitted to KYTC (as requested)

**MPO IS RESPONSIBLE AGENCY UNLESS OTHERWISE NOTED*

Total Staff Months 20	FHWA (PL)			FHWA (STBG-SLX)		FTA (5303)		TOTAL
	FHWA (80%)	KYTC (5%)	LOCAL (15%)	FHWA (80%)	LOCAL (20%)	FTA (80%)	LOCAL (20%)	
Personnel	\$82,770	\$5,173	\$15,519	\$42,849	\$10,712	\$14,451	\$3,613	\$175,087
Operating								
Total	\$82,770	\$5,173	\$15,519	\$42,849	\$10,712	\$14,451	\$3,613	\$175,087

WORK ELEMENTS

4.0 Land Use & Transportation Impact

PURPOSE

To ensure local planning goals are integrated into the MPO's transportation planning process. To support and inform local and regional comprehensive planning and land use development to achieve regional transportation goals including safety, access, equity and system efficiency.

WORK ACTIVITIES

- Provide transportation planning input into Comprehensive, Small Area and Corridor Plans. LFUCG will conduct their Comprehensive Plan update in FY 23 with MPO input and support.
- Participate in the Northeast New Circle Road Coordinated Land Use & Transportation Plan (see Studies). The study commenced in Q3 of FY 22 and will conclude in FY23.
- Ensure that MPO project selection criteria for the MTP and TIP consider the environmental, community, and economic goals identified in these local Comprehensive, Small Area and Corridor Plans.
- Ensure projects and priorities identified through local planning processes are evaluated in the MPO's transportation planning process for inclusion in the MTP and TIP.
- Update the MPO's Travel Demand Forecasting Model with projected population and employment growth and planned transportation network connections identified in local planning documents, especially in light of the 2020 Census. The MPO may consider consultant services for this activity.
- Provide input on Zoning, Subdivision and Development Plan proposals within the MPO area. Coordinate with KYTC District 7, local planning and traffic engineering agencies to develop recommendations on network connectivity; bicycle, pedestrian, transit facilities; access management; and other transportation improvements related to development proposals.
- Review and critique Traffic Impact Studies submitted as part of development applications.
- Recommend and develop regulatory changes to local Zoning Ordinances and Subdivision Regulations to achieve desired regional transportation planning outcomes including increased roadway connectivity, walkability, bike-friendly and transit-oriented development.
- Implement the Imagine Nicholasville Road land use and transportation plan through land use policy and design regulations.

PRODUCTS*

- Technical memoranda of staff findings on Subdivision, Zoning, Development Plans and Traffic Impact Studies (ongoing)
- Zoning Text Amendments (ZOTAs) and Subdivision Regulation Amendments (SRAs) adopted by local Planning Commissions and City Council (ongoing)
- Completed Northeast New Circle Road Coordinated Land Use & Transportation Plan (Q3).
- Lexington Area Travel Demand Forecasting Model updates on population and employment changes reports to KYTC (ongoing)

**MPO IS RESPONSIBLE AGENCY UNLESS OTHERWISE NOTED*

Total Staff Months 18.5	FHWA (PL)			FHWA (STBG-SLX)		FTA (5303)		TOTAL
	FHWA (80%)	KYTC (5%)	LOCAL (15%)	FHWA (80%)	LOCAL (20%)	FTA (80%)	LOCAL (20%)	
Personnel	\$70,995	\$4,437	\$13,312	\$36,753	\$9,188	\$12,395	\$3,099	\$150,178
Operating								
Total	\$70,995	\$4,437	\$13,312	\$36,753	\$9,188	\$12,395	\$3,099	\$150,178

WORK ELEMENTS

5.0 Participation & Outreach

PURPOSE

To engage the public and stakeholders in the transportation planning process in accordance with the MPO's Participation Plan (PP). To conduct outreach campaigns to inform the general public of transportation options available in the Lexington Area and to promote safety across all travel modes.

WORK ACTIVITIES

- Update the Participation Plan in FY 23 in advance of the 2050 MTP, to include strategies to integrate Virtual Public Involvement (VPI) tools into the public involvement approach, as well as methods to reach individuals without access to computers and mobile devices.
- Strategically target participation and outreach efforts to engage Title VI, LEP individuals and other disadvantaged communities as outlined in the Participation Plan and Title VI Program Plan.
- Issue media releases for plan updates, amendments and public meetings.
- Conduct outreach and surveys when developing studies and plans.
- Update the MPO website & maintain the "TIP projects" digital map on the MPO website.
- Update the Lexington Area digital bike map and publish an annual print version.
- Maintain and expand the MPO's public email database and issue notices to the list.
- Utilize social media to share transportation-related information including to the MPO's Facebook and Twitter page and Lex Bike Walk Facebook and Instagram page.
- Attend neighborhood and community-based / non-profit organization meetings to share information about transportation planning activities.
- Collaborate with the LFUCG Division of Environmental Quality to conduct a public information campaign for transportation planning activities, project development, operational improvements and maintenance activities. The program will utilize intern personnel as denoted below (STBG-SLX funds only).
- Implement a marketing plan to promote alternative transportation options and to target drivers, pedestrians, bicyclists and scooter users with safety messages. (STBG-SLX funds only)
- Respond to public information requests regarding transportation planning activities, projects and programs for roadways, drivers, bicycles, pedestrians and transit users.

PRODUCTS*

- Updated Participation Plan
- Updated MPO website (ongoing) and statistics on website page views (quarterly)
- Regular social media updates and statistics on page followers, views and reach (quarterly)
- Press releases issued for appropriate MPO activities (as needed)
- Public meetings and/or surveys to guide MPO products and work (as needed)
- Updated digital bike map (ongoing) and print bike map
- Paid advertising to communicate MPO activities and solicit public comment

*MPO IS RESPONSIBLE AGENCY UNLESS OTHERWISE NOTED

Total Staff Months 11.0	FHWA (PL)			FHWA (STBG-SLX)		FTA (5303)		TOTAL
	FHWA (80%)	KYTC (5%)	LOCAL (15%)	FHWA (80%)	LOCAL (20%)	FTA (80%)	LOCAL (20%)	
MPO Personnel	\$36,489	\$2,281	\$6,842	\$18,890	\$4,723	\$6,371	\$1,593	\$77,187
Intern Personnel				\$36,000	\$9,000			\$45,000
Operating	\$0	\$0	\$0	\$91,902	\$22,975	\$0	\$0	\$114,877
Total	\$36,489	\$2,281	\$6,842	\$146,792	\$36,698	\$6,371	\$1,593	\$237,064

6.0 Program Administration

PURPOSE

To support and manage a continuous, cooperative and comprehensive metropolitan planning process that is compliant with the IIJA to ensure state and local partners remain eligible for federal transportation funds to improve the transportation system. Develop and administer an annual work program and budget, and execute applicable agreements with partner agencies. Provide a trained professional staff to develop MPO products and facilitate MPO committee work.

WORK ACTIVITIES

- Administer the overall MPO planning process in coordination with local, regional, state and federal partners.
- Monitor state and federal policies, legislation and other transportation information to ensure compliance with all KYTC, FHWA, and FTA requirements and regulations.
- Monitor IIJA guidance and ensure compliance with resulting rules and regulations.
- Oversee consultant activities to complete the East Lexington Trail & Traffic Safety Study (STBG-SLX funded) (see Studies). The study commenced in Q3 of FY 22 and will conclude in FY23.
- Initiate and oversee consultant activities for the Virginia / Red Mile / Forbes Trail Connectivity Safety Study (STBG-SLX funded) (see Studies).
- Coordinate with KYTC to initiate and oversee consultant activities for the Nicholasville Rd Transportation Feasibility Study, Traffic & Transit Analysis (SPR/PL funded) (see Studies).
- Coordinate with the City of Wilmore and KYTC to complete the Wilmore Trail Feasibility Study (CRRSAA funded). The study commenced in Q4 of FY 22 and will conclude in FY23.
- Manage the implementation of work tasks and budgets outlined in the FY 23 Unified Planning Work Program.
- Prepare and submit Quarterly Reports to KYTC on the progress of FY 23 Work Program activities and related expenditures.
- Prepare and submit an Annual Performance and Expenditure Report to KYTC outlining all FY 22 Work Program activities and related expenditures.
- Develop the FY 24 Unified Planning Work Program.
- Maintain MPO Planning Agreements and update as needed to comply with guidance set forth as a result of the IIJA.
- Provide administrative and technical assistance to the Transportation Technical Coordinating Committee (TTCC), Transportation Policy Committee (TPC), Congestion Management Air Quality Committee (CMAQ), Bicycle Pedestrian Advisory Committee (BPAC) and Project Coordination Team (PCT).
- Participate in KYTC, FHWA and other state and federally required meetings.
- Participate in LFUCG Division of Planning, Planning Commission and Urban County Council meetings to meet LFUCG transportation planning obligations.
- Participate in Jessamine County / Nicholasville Planning, Transportation Task Force and project development meetings.
- Respond to inquiries from various agencies, citizens groups and other stakeholders.

WORK ELEMENTS

- Administer a competitive project selection process for Lexington Area MPO sub-allocated Surface Transportation Block Grant – Transportation Alternatives (STBG-TA) funding.
- Distribute information to LPAs on KYTC funding application cycles for Congestion Mitigation and Air Quality (CMAQ) and Transportation Alternatives (STGB-TA).
- Assist Local Public Agencies (LPAs) in complying with federal requirements for STBG-SLX, STBG-TA and CMAQ funding and to ensure timely progress on implementing awarded projects.
- Maintain and update the MPO's Title VI Program Plan to ensure compliance with Title VI of the Civil Rights Act of 1964, Executive Order 12898: Environmental Justice in Minority and Low Income Populations, and Executive Order 13166: Improving Access to Services for Persons with Limited English Proficiency. Submit the Title VI Program Plan for review and approval by KYTC, FHWA and FTA agencies as requested (annual or triennial).
- Monitor the requirements and status of Local Public Agency ADA Transition Plans.
- Conduct an ADA self-evaluation of MPO policies, practices and premises (pending further guidance by KYTC/FHWA).
- Attend relevant transportation-related training programs, courses, conferences, workshops and webinars (out-of-state training to be pre-approved through KYTC and FHWA).
- Procure software, computer hardware, office equipment and office supplies to support the work activities of MPO staff.

PRODUCTS*

- Draft FY-2024 UPWP (Q3)
- Approved FY-2024 UPWP (Q3)
- FY-2023 UPWP Progress Reports (quarterly)
- FY 2022 Annual Performance and Expenditure Report
- Annual Title VI Program Plan (Q4)
- Agendas and Minutes of MPO Committee meetings (monthly to bi-monthly)
- Competitive selection process for STBG-TA funds (as needed)
- Training activities (noted Quarterly Reports)
- Software, computer hardware, office equipment and supplies (as needed)
- RFP, scope of work and executed contract with selected consultant for the Virginia / Red Mile / Forbes Trail Connectivity Safety Study (MPO lead)
- RFP, scope of work and executed contract with selected consultant for the Nicholasville Rd Transportation Feasibility Study, Traffic & Transit Analysis (KYTC lead with MPO support)
- Completed Wilmore Trail Feasibility Study (City of Wilmore lead with MPO & KYTC support).
- Completed East Lexington Trail & Traffic Safety Study (MPO lead)

*MPO IS RESPONSIBLE AGENCY UNLESS OTHERWISE NOTED

Total Staff Months 31.0	FHWA (PL)			FHWA (STBG-SLX)		FTA (5303)		TOTAL
	FHWA (80%)	KYTC (5%)	LOCAL (15%)	FHWA (80%)	LOCAL (20%)	FTA (80%)	LOCAL (20%)	
Personnel	\$110,991	\$6,937	\$20,811	\$57,458	\$14,365	\$19,377	\$4,844	\$234,783
Operating	\$35,361	\$2,210	\$6,630					\$44,201
Total	\$146,351	\$9,147	\$27,441	\$57,458	\$14,365	\$19,377	\$4,844	\$278,984

WORK ELEMENTS

SUMMARY OF WORK ELEMENTS BY FUNDING SOURCE

WORK ELEMENT	PL PLANNING FUNDS			SLX FUNDS		SEC. 5303 FUNDS		EST. COST
	FHWA 80%	KYTC 5%	LFUCG 15%	FHWA 80%	LFUCG 20%	FTA 80%	LFUCG 20%	
1.0 Transportation System Data & Monitoring	\$42,571	\$2,661	\$7,982	\$22,038	\$5,510	\$7,432	\$1,858	\$90,051
2.0 Project Identification & Prioritization	\$72,024	\$4,501	\$13,504	\$37,286	\$9,321	\$12,574	\$3,144	\$152,354
3.0 Program & Project Implementation	\$82,770	\$5,173	\$15,519	\$42,849	\$10,712	\$14,451	\$3,613	\$175,087
4.0 Land Use & Transportation Impact	\$70,995	\$4,437	\$13,312	\$36,753	\$9,188	\$12,395	\$3,099	\$150,178
5.0 Participation & Outreach	\$36,489	\$2,281	\$6,842	\$146,792	\$36,698	\$6,371	\$1,593	\$237,064
6.0 Program Administration	\$146,351	\$9,147	\$27,441	\$57,458	\$14,365	\$19,377	\$4,844	\$278,984
TOTAL	\$451,200	\$28,200	\$84,600	\$343,176	\$85,794	\$72,600	\$18,150	\$1,083,720

SUMMARY OF MPO STAFF MONTHS BY ELEMENT

WORK ELEMENT	STAFF MONTHS (9 Staff)	
	MONTHS	PERCENT
1.0 Transportation System Data & Monitoring	10.5	9.7%
2.0 Project Identification & Prioritization	17.0	15.7%
3.0 Program & Project Implementation	20.0	18.5%
4.0 Land Use & Transportation Impact	18.5	17.1%
5.0 Participation & Outreach	11.0	10.2%
6.0 Program Administration	31.0	28.7%
TOTAL	108.0	100.0%

Lextran Comprehensive Operations Analysis (COA)

SCOPE

In FY 2021 Lextran initiated a Comprehensive Operations Analysis (COA) to provide a path to better align resources and service demands. The purpose of the COA is to determine if transit service is being provided in the appropriate areas with adequate frequency at the appropriate times of day. The COA will provide vision and direction to Lextran through 2025. Completion of the COA is anticipated in FY 2022, however MPO-related work tasks in consultation with Lextran may extend into FY 23, including presentations to the TPC and incorporating study recommendations in the MTP and TIP as appropriate.

Phase 1 of the COA included an existing conditions analysis to 1) analyzing existing fixed-routes and schedules in light of current market conditions, including a review of Title VI issues and Americans with Disabilities Act considerations; 2) conducting a survey of existing fixed-route, paratransit, and ride share ridership to determine demographics, trip patterns, and customer perspectives on service; 3) investigating Lextran's current position and glean future needs through public outreach, focus groups, and strategic sessions with the Lextran Board of Directors and staff; and 4) Evaluate existing funding sources.

Phase 2 of the COA included a service alignment analysis: 1) A data-driven analysis to suggest modifications that improve fixed-route service efficiency. This included short term and long-range changes to the route structure and the pulse system and the exploration of a more grid-based system with multiple transfer points; 2) A data-driven analysis that identifies and evaluates areas for investment, including new service areas, park-and-ride facilities, economic development and so forth; 3) Fixed-route schedules in light of local market conditions that continue to provide effective service while increasing efficiency; 4) Operational policies and procedures to improve paratransit effectiveness and efficiency; 5) Target markets for rideshare expansion.

Phase 3 of the COA, which may extend into FY23 includes exploring project and programmatic feasibility including: Create comprehensive transit service scenarios, including programs of projects, for consideration by Lextran's staff and Board of Directors; evaluating emerging transportation delivery models, such as mobility as a service, and their application within the Lexington context; identifying and evaluating potential funding sources; Concluding with a summary of findings for dissemination to stakeholders and for TPC consideration for inclusion in the MTP and TIP.

COST & SCHEDULE

Total cost is \$400,000 using \$320,000 (80%) in federal FTA 5303 funds and \$80,000 (20%) in matching funds from Lextran. The project commenced in FY 21 and is planned for completion by June 2022. MPO and Lextran coordination to finalize and implement recommendations will extend into FY23. Lextran is the responsible agency. Federal funding for the study is administered by the MPO. MPO participation in study meetings, reviewing work projects and coordinating with the consulting team will be charged to work element 3.0 Program & Project Implementation.

Northeast New Circle Road Corridor Plan

SCOPE

Complete a coordinated corridor land use plan and transportation study for the entirety of the signalized portion of Northeast New Circle Road. The primary purpose of the study is to identify how land use changes and incremental densification of the corridor will result in needed transportation improvements and how transportation improvements may spur and enhance redevelopment. The study will identify opportunities for intensifying residential and mixed land uses along the corridor; Identify potential impacts and solutions for transit, non-motorized and vehicular travel that will result from more intensive land uses; Estimate the cost and recommend phasing of needed transportation improvements; Develop a regulatory framework for implementing the plan; and facilitate public and stakeholder engagement.

COST & SCHEDULE

Total cost is \$250,000 using \$200,000 (80%) in federal STBG-SLX funds with LFUCG providing \$50,000 (20%) in matching funds. The study commenced in Q3 of FY 22 and will conclude in FY23. It is anticipated \$85,000 will be expended in FY22, with the remaining \$165,000 in funds being expended in FY 23. The MPO will be the responsible agency. MPO participation in study meetings, reviewing work projects and coordinating with the consulting team will be charged to work element 4.0 Land Use & Transportation Impact.

East Lexington Trail Connectivity & Traffic Safety Study

SCOPE

Determine an alignment for a shared use trail from Third Street / Isaac Murphy Memorial Art Garden (IMMAG) to trails planned for construction along Liberty Road as part of roadway improvements both inside and outside New Circle Road. The study will evaluate off-road trail alignments paralleling Liberty Road, including along active and inactive rail corridors. It will also evaluate alignments along roadways, including Winchester Road, and recommend any vehicular and trail-related improvements needed to improve safety. The study will include detailed traffic and engineering analysis of improvements on Winchester Rd at the intersection of Midland Ave and Third Street to provide for 1) safe pedestrian and bicycle crossings to IMMAG; 2) improved vehicular safety and intersection geometrics; 3) improved freight movements and access to the Smucker Company property; and 4) a new visual and multimodal gateway to downtown and East End neighborhoods. The study will include detailed traffic engineering analysis and recommendations as necessary for intersections upstream and downstream from Third Street (such as Walton Ave/Main Street/Liberty Rd) that may require coordinated improvements.

COST & SCHEDULE

Total cost is \$150,000 using \$120,000 (80%) in federal STBG-SLX funds with LFUCG providing \$30,000 (20%) in matching funds. The study commenced in Q3 of FY 22 and will conclude in FY 23. It is anticipated \$70,000 will be expended in FY22, with the remaining \$80,000 in funds being expended in FY 23. The MPO will be the responsible agency. MPO participation in study meetings, reviewing work projects and coordinating with the consulting team will be charged to work element 6.0 Administration.

Nicholasville Rd Transportation Feasibility Study, Traffic & Transit Analysis

SCOPE

The Imagine Nicholasville Road (INR) Land Use & Transportation Plan and the Lexington Area Congestion Management Bottleneck Study (CMS), completed in 2021, outline various corridor and intersection design concepts intended to address current and future congestion along Nicholasville Rd. This feasibility study will evaluate the various design and modal concepts in those plans by collecting data for various transportation modes, utilizing a travel demand model, developing traffic simulation models and transit service models in order to evaluate the benefits/impacts to traffic operations and associated multimodal trade-offs given various conceptual designs. It will also utilize a Simplified Trip-on-Projects Software (STOPS) model to evaluate transit ridership for 3 service scenarios and the cost/benefit of proposed transit services. The results of the data-driven study will help decision-makers including the KY Transportation Cabinet, Lexington Area MPO, City of Lexington and Lextran Board of Directors evaluate the cost/benefit of various interventions in terms of congestion, sustainability and equity, and to determine what project concepts they may wish to pursue for future federal highway and transit funding programs, including through the KY State Highway Plan, Lexington Area MPO and Federal Transit Administration.

COST & SCHEDULE

Total cost is study cost is estimated at \$500,000 with the proposed funding breakdown below, pending approval of federal and non-federal funds in FY23.

Funding Source	Federal (80%)	Non-Federal (20%)
MPO Planning (PL) funds - discretionary	\$200,000	
- Lexington Fayette Urban County Government		\$25,000
- Lextran		\$25,000
KYTC Statewide Planning & Research (SPR) funds - discretionary	\$200,000	
- KY Transportation Cabinet		\$50,000
Total	\$400,000	\$100,000

The study will commence in FY 23 and will conclude in FY 24. The KYTC will be the responsible agency. MPO participation in study meetings, reviewing work projects and coordinating with the consulting team will be charged to work element 6.0 Administration.

Virginia / Red Mile / Forbes Trail Connectivity Safety Study

SCOPE

The study will evaluate cross-town bicycle & pedestrian improvements along Forbes Rd, Red Mile Rd and Virginia Ave from the Meadowthorpe neighborhood (off Leestown Rd) to the University of Kentucky Campus at S Limestone. Improvement concepts will address multimodal facilities along the corridor; safe pedestrian and bicycle crossings; and multimodal gateways to the adjacent neighborhoods, Town Branch Trail and UK Campus. Project phasing and cost estimates developed through the study will be considered for inclusion in the MTP and TIP.

COST & SCHEDULE

Total cost is \$150,000 using \$120,000 (80%) in federal STBG-SLX funds with LFUCG and University of Kentucky providing \$30,000 (20%) in matching funds (\$15,000 per agency), pending funding approval. The study will commence in in FY 23 and will conclude in FY 23 or FY 24. The MPO will be the responsible agency. MPO participation in study meetings, reviewing work projects and coordinating with the consulting team will be charged to work element 6.0 Administration.

STUDIES & PLANS

SUMMARY OF STUDIES & PLANS BY FUNDING SOURCE

Study	Lead Agency	Completion Date	FHWA (PL)		FHWA (SPR)		FHWA (STBG-SLX)		FTA (5303)		TOTAL
			FED	NON FED	FED	NON FED	FED	NON FED	FED	NON FED	
Lextran Comprehensive Operational Analysis	Lextran	FY22/23	\$0	\$0	\$0	\$0	\$0	\$0	\$320,000	\$80,000	\$400,000
Northeast New Circle Road Corridor Plan	MPO / LFUCG	FY23		\$0	\$0	\$0	\$200,000	\$50,000	\$0	\$0	\$250,000
East Lex. Trail Connectivity & Traffic Safety Study	MPO / LFUCG	FY23	\$0	\$0	\$0	\$0	\$120,000	\$30,000	\$0	\$0	\$150,000
Nicholasville Rd Transportation Feasibility Study, Traffic & Transit Analysis	KYTC	FY24	\$200,000	\$50,000	\$200,000	\$50,000	\$0	\$0	\$0	\$0	\$500,000
Virginia / Red Mile / Forbes Trail Connectivity Safety Study	MPO / LFUCG	FY24	\$0	\$0			\$120,000	\$30,000	\$0	\$0	\$150,000
Total			\$200,000	\$50,000	\$200,000	\$50,000	\$440,000	\$110,000	\$0	\$0	\$1,450,000

FINANCIAL SUMMARY

Work Element / Study	Lead Agency	Complete Date	PL PLANNING FUNDS			SPR FUNDS			SLX FUNDS		SEC. 5303 FUNDS		EST. COST
			FHWA	KYTC	LOCAL	FHWA	KYTC	LOCAL	FHWA	LOCAL	FTA	LOCAL	
1.0 Transportation System Data & Monitoring	MPO	FY23	\$42,571	\$2,661	\$7,982	\$0	\$0	\$0	\$22,038	\$5,510	\$7,432	\$1,858	\$90,051
2.0 Project Identification & Prioritization	MPO	FY23	\$72,024	\$4,501	\$13,504	\$0	\$0	\$0	\$37,286	\$9,321	\$12,574	\$3,144	\$152,354
3.0 Program & Project Implementation	MPO	FY23	\$82,770	\$5,173	\$15,519	\$0	\$0	\$0	\$42,849	\$10,712	\$14,451	\$3,613	\$175,087
4.0 Land Use & Transportation Impact	MPO	FY23	\$70,995	\$4,437	\$13,312	\$0	\$0	\$0	\$36,753	\$9,188	\$12,395	\$3,099	\$150,178
5.0 Participation & Outreach	MPO	FY23	\$36,489	\$2,281	\$6,842	\$0	\$0	\$0	\$146,792	\$36,698	\$6,371	\$1,593	\$237,064
6.0 Program Administration	MPO	FY23	\$146,351	\$9,147	\$27,441	\$0	\$0	\$0	\$57,458	\$14,365	\$19,377	\$4,844	\$278,984
Lextran Comprehensive Operational Analysis	Lextran	FY22/23	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$320,000	\$80,000	\$400,000
Northeast New Circle Road Corridor Plan	MPO / LFUCG	FY23	\$0	\$0	\$0	\$0	\$0	\$0	\$200,000	\$50,000	\$0	\$0	\$250,000
East Lex. Trail Connectivity & Traffic Safety Study	MPO / LFUCG	FY23	\$0	\$0	\$0	\$0	\$0	\$0	\$120,000	\$30,000	\$0	\$0	\$150,000
Nicholasville Rd Transportation Feasibility Study, Traffic & Transit Analysis	KYTC	FY24	\$200,000	\$0	\$50,000	\$200,000	\$50,000	\$0	\$0	\$0	\$0	\$0	\$500,000
Virginia / Red Mile / Forbes Trail Connectivity Safety Study	MPO / LFUCG	FY24	\$0	\$0	\$0	\$0	\$0	\$0	\$120,000	\$30,000	\$0	\$0	\$150,000
Total													\$2,533,720



LEXINGTON AREA METROPOLITAN PLANNING ORGANIZATION *Transportation Planning for Fayette and Jessamine Counties*

RESOLUTION 2022-6 **APPROVAL OF THE FISCAL YEAR 2023 UNIFIED PLANNING WORK PROGRAM (UPWP)**

WHEREAS, Section 134, Title 23, USC requires that a continuing, comprehensive transportation planning process be carried out cooperatively in areas of more than 50,000 population; and

WHEREAS, the LEXINGTON AREA MPO Transportation Policy Committee (TPC) is the designated Metropolitan Planning Organization (MPO) for the Lexington, Kentucky urbanized area; and

WHEREAS, 23CFR450 requires MPOs to produce a Unified Planning Work Program (UPWP) to identify planning activities for which federal dollars are intended to be used and the funds necessary to accomplish these activities; and

WHEREAS, the Lexington Area MPO has prepared a UPWP for Fiscal Year 2023 which identifies the regional planning activities intended to be accomplished utilizing federal dollars and the funds necessary to accomplish these activities; and

WHEREAS, the FY 2023 UPWP further identifies work tasks necessary for compliance with planning requirements identified in 23CFR450; and

WHEREAS, the funds provided to the Lexington Area MPO are sufficient to accomplish the planning activities identified within the proposed FY 23 UPWP; and

WHEREAS, the FY 2023 UPWP has been reviewed by appropriate state and federal agencies for appropriateness and compliance with applicable state and federal requirements.

NOW, THEREFORE BE IT RESOLVED that the Transportation Policy Committee of the LEXINGTON AREA MPO hereby approves the Lexington Area MPO Fiscal Year 2023 Unified Planning Work Program.

Adopted by the LEXINGTON AREA MPO Transportation Policy Committee this 27nd day of April, 2022.

David K West

Jessamine County Judge Executive, David West
Lexington Area Metropolitan Planning Organization
Transportation Policy Committee (TPC) Chair

4/27/2022

Date

101 E. Vine St., Suite 700, Lexington, KY 40507
859-258-3160
www.lexareampo.org

Attest:



Christopher Evilia, AICP
Director, Lexington Area Metropolitan Planning Organization

4/27/22

Date

LEXINGTON AREA MPO PLANNING AGREEMENT (MOA)

MEMORANDUM OF AGREEMENT

By and Between

LEXINGTON AREA METROPOLITAN PLANNING ORGANIZATION

The

TRANSIT AUTHORITY OF LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT (LEXTRAN)

And the

KENTUCKY TRANSPORTATION CABINET

This Memorandum of Agreement (MOA) is made by and between the Lexington Area Metropolitan Planning Organization (hereinafter referred to as MPO), the Transit Authority of Lexington-Fayette Urban County Government (hereinafter referred to as Lextran), and the Kentucky Transportation Cabinet (hereinafter referred to as KYTC).

Lexington Area MPO Structure

The MPO organizational structure consists of the Transportation Policy Committee (TPC), the Transportation Technical Coordinating Committee (TTCC), and two advisory subcommittees - Congestion Management Air Quality Committee (CMAQ) and Bicycle Pedestrian Advisory Committee (BPAC).

The TPC serves as the decision-making body of the MPO, and has responsibilities including approval of plans, implementation of programs, transportation projects prioritization, provision of transportation planning and guidance, and other similar related actions.

The TTCC serves as an advisory body to the TPC and provides transportation related technical review, guidance and assistance.

The MPO also utilizes specialized advisory committees and working groups which may include members such as transit operators and consumers, bicycle groups, various technical staff, members of MPO committees and other interested parties to help inform and advise the TTCC and TPC.

THE AGENCIES AGREE AS FOLLOWS:

The Lexington Fayette Urban County Government (LFUCG) Transportation Planning Section of Fayette County Kentucky is the designated staff agency for the MPO, serving the planning area of Fayette, Jessamine Counties and a small portion of Scott County at the Northern Fayette County border, the Lexington urbanized area and the two Jessamine County cities: Nicholasville and Wilmore.

Fayette and Jessamine County governments and the cities within actively participate and have regular representation on the various MPO committees. In consultation with Scott County on June 4, 2014 (following the 2010 Census that added a small portion of Scott County to the MPO Urbanized Area) Scott

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County Officials decided not to actively participate or be represented within the MPO process at this time. There was an interest to revisit participation in the future. The MPO pledged to continue conscientious coordination with Scott County in the on-going transportation planning process.

Lextran is the designated recipient of Federal Transit Administration funds designated for the urbanized area. Lextran constitutes an agency and instrumentality of the LFUCG and a political subdivision and public body corporate of the Commonwealth of Kentucky created pursuant to KRS 96A.020(1) for the purpose of promoting and developing mass transportation in its transit area and adjoining areas. The Board of Directors of Lextran manages, controls, and conducts the business, activities, and affairs of Lextran pursuant to KRS 96A.040(1) and may employ an Executive Director or General Manager pursuant to KRS 96A.070 (1).

In addition, Bluegrass Community Action, Bluegrass Ultra Transit (BUS) provides regional public transit between the city of Nicholasville and Lexington (hereinafter referred to as Jesslex). Federated Transportation Service of the Bluegrass (FTSB) also provides para-transit Medicare transportation services within the MPO planning area.

Performance-Based Transportation Planning & Programming

The MPO will develop and carry out a performance-based metropolitan transportation planning process in cooperation and consultation with KYTC and Lextran for Fayette and Jessamine Counties.

KYTC and the MPO mutually agree to share available data related to performance measurement and target setting with each other, subject to the policies and procedures of each agency. Examples of such data include, but are not limited to traffic counts, travel times/speeds, socioeconomic data, travel demand modeling information, transit ridership data and infrastructure condition measures.

The MPO will plan and program projects that contribute to the achievement of KYTC's statewide performance targets and/or commit to quantifiable performance targets for the metropolitan planning area or any portion thereof.

KYTC will notify the MPO as soon as practicable upon the establishment and/or modification of its performance targets.

Quantifiable performance targets must be approved by the MPO Policy Committee and reported to KYTC within 180 days of the establishment of statewide performance targets by KYTC.

The MPO will consider integration of relevant goals, objectives, and performance measures and targets developed by KYTC and Lextran into the transportation plans, programs and processes of the MPO. KYTC and Lextran will consider integration of relevant goals, objectives, and performance measures and targets developed by the MPO in decisions regarding their plans and planning activities within the MPO planning area.

The MPO, in collaboration with the KYTC and other agency partners, will develop, implement, and maintain a Congestion Management Process to assist in the identification and selection of projects for the Transportation Improvement Program (TIP) and Metropolitan Transportation Plan (MTP). The Congestion Management Process will be consistent with the KYTC's statewide performance targets or the MPO's performance targets as applicable.

Metropolitan Transportation Plan (MTP)

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In cooperation and coordination with KYTC, Lextran and other agency partners, the MPO will develop and maintain a Metropolitan Transportation Plan (MTP) in compliance with all relevant laws and regulations. The MPO shall review and update the transportation plan at least every five years to confirm the transportation plan's validity and consistency with current and forecasted transportation and land use conditions and trends, and to extend the forecast period to at least a 20-year planning horizon.

The MPO will initiate, in consultation with KYTC, Lextran and other agency partners, the selection of projects to include in the MTP. The initial list of MTP projects will be confirmed, supplemented by or revised by public input received during the public comment period of the MTP. The MPO will receive and address all comments and include documentation as part of the MTP.

KYTC will provide the MPO with sufficient details, including location, description and cost for projects proposed or endorsed by KYTC for inclusion in the MTP.

LFUCG {including the Division of Engineering, Traffic Engineering, and other agencies as appropriate} will provide the MPO with sufficient details, including location, description and cost for projects proposed or endorsed by the LFUCG for inclusion in the MTP.

Lextran will provide the MPO with sufficient details, including location, description and cost for projects proposed or endorsed by Lextran and the MPO for inclusion in the MTP.

At the request of the MPO, KYTC will provide preliminary system-level estimates of costs necessary to adequately operate and maintain the Federal-aid highway system within the planning **area**. The MPO may adjust these preliminary cost estimates with KYTC's concurrence.

At the request of the MPO, Lextran, BUS, FTSB, Jessamine County Fiscal Court and the cities of Nicholasville and Wilmore, LFUCG agency partners including Engineering - Traffic Engineering - Streets and Roads and other agencies as necessary will provide preliminary system-level estimates of costs necessary to adequately operate and maintain the local highway system and transit systems within the planning area. The MPO may adjust these preliminary cost estimates with KYTC's concurrence.

At the request of the MPO, KYTC will provide available information on historic levels of transportation expenditures for Fayette and Jessamine Counties and the state of Kentucky; an estimate of current typical annual transportation spending at the **state** level; an estimate of the annual construction cost inflation rate over the time horizon covered by the MTP; and an estimate of the annual rate of change of transportation spending over the life of the MTP. The MPO may adjust the annual construction cost inflation rate based on local conditions. Upon agreement with KYTC, the MPO may also adjust the annual rate of change of transportation spending.

The MPO is responsible for developing a financially reasonable MTP in consultation with KYTC, Lextran and other agency partners, and will be in compliance with current federal planning regulations set forth by the Federal Highway Administration (FHWA) and Federal Transit Administration (FTA). The MTP will follow public participation guidelines outlined in the MPO Participation Plan and in compliance with state and federal regulations.

The MPO will prepare necessary amendments and/or administrative modifications to the MTP that will include a project description, location, cost estimates, and impact on financial constraint, if applicable. Amendments and administrative modifications will follow the procedures outlined in the latest approved MPO Participation Plan.

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The final MTP will be approved by the MPO Transportation Policy Committee and will include a financial plan that clearly states the methods and assumptions used to determine the financial reasonableness of the MTP.

Transportation Improvement Program (TIP)

In cooperation and coordination with KYTC, Lextran and other agency partners, the MPO will develop and maintain a Transportation Improvement Program (TIP) as the short-range program of projects for the MPO **area**. The TIP will be consistent with all federal requirements and will cover a period of no less than four years at the time of its adoption, and it will be updated at least every four years. The final TIP will be approved by the MPO Policy Committee.

Projects included in the TIP will be consistent with the Kentucky Highway Plan, developed by KYTC in cooperation with the MPO and reviewed/approved biennially by the Kentucky General Assembly.

The MPO is responsible for developing a fiscally constrained TIP. The cooperative process for completing the TIP Financial Plan shall be as follows:

For federal funding categories not sub-allocated to the MPO, the financial plan is based on the fiscal constraint maintained by the KYTC and demonstrated in the Kentucky STIP.

KYTC will provide an estimate of available federal funds for the funding categories that are sub-allocated to the MPO.

The MPO will ensure that fiscal constraint is maintained for funds that are sub-allocated to the MPO.

The MPO is responsible for ensuring that the estimated available funds and project costs in the TIP reflect year of expenditure (YOE) amounts. KYTC, Lextran, and other agency partners will assist the MPO in identifying YOE costs for TIP projects.

At the request of the MPO, KYTC will provide cost estimates and project schedules for projects sponsored or endorsed by KYTC. LFUCG (including the Division of Engineering, Traffic Engineering, and other agencies as appropriate) will provide this information for projects proposed or endorsed by the LFUCG for inclusion in the TIP. KYTC may, at its discretion, provide cost estimates for projects sponsored by other agencies.

The MPO will amend or modify the TIP as needed to reflect changes in project implementation schedules and costs; the development of new operations, maintenance or safety projects by KYTC; or successful grant applications for federal program funds.

Participation Plan

In compliance with metropolitan planning regulations, the MPO has developed a Participation Plan which outlines a formal public involvement process, including public notice and comment periods, which is followed in the development of the TIP and MTP. The MPO agrees to follow its public involvement process **as a** part of all metropolitan-wide transportation planning initiatives. The MPO will review the Participation Plan annually and initiate a major update on a 5-year cycle or as determined by the annual review. Minor revisions to the Participation Plan will not require public review and notifications.

Annual Listing of Obligated Projects

The MPO will develop an Annual Listing of Obligated Projects outlining all projects within the metropolitan planning area for which funding has been obligated over the past fiscal year.

Following the end of each fiscal year, KYTC will provide information to the MPO on funds obligated under 23U.S.C.

Lextran and BUS will prepare an annual listing of obligated projects that meet all applicable Federal requirements and will share the information with the MPO on funds obligated under 49

U.S.C. Chapter 53 or other funding sources.

The MPO will provide the annual listing of obligated projects to KYTC in time for KYTC to submit the listing to FHWA by the Federal deadline.

Unified Planning Work Program

The MPO will annually prepare a Unified Planning Work Program (UPWP) for the following fiscal year based on anticipated funding levels. The MPO will submit a copy to all applicable parties for review and determination of eligibility, in accordance with established schedules and document routing requirements.

The MPO will coordinate with KYTC, Lextran and other agency partners to determine appropriate work tasks to be included in the UPWP.

Funding parameters for the UPWP will be determined by the amount of Kentucky Metropolitan Planning (PL) funds distributed to the MPO by the Kentucky MPO Council. This is determined each year in consultation with KYTC. Additionally, the inclusion of FTA funds shall be considered during the development of the UPWP.

The MPO will coordinate with Lextran on the development and submittal of the FTA 5303 application. The LFUCG contracts with Lextran for all transit services, with Lextran as the recipient of FTA funds. The MPO will not be responsible for providing the local match to FTA 5303 funds, unless otherwise negotiated.

Committee Membership

KYTC will be permitted to appoint at least one voting member to the MPO Policy Committee and at least two voting members to the MPO Technical Committee.

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Lextran will be represented by the General Manager on the MPO Policy Committee, with voting membership.

Lextran transit staff will be permitted one voting member on the MPO Transportation Technical Coordinating Committee (TTCC).

Transit Coordination

The MPO will coordinate with Lextran and other regional transit providers on matters related to public transportation as they pertain to the MPO transportation planning process.

The MPO will provide input to Lextran on MPO related planning projects and can represent the MPO on Lextran committees or meetings on an as needed or ad-hoc basis.

The MPO will coordinate with Lextran to ensure that all identified transit-related projects are included in the TIP.

The MPO, Lextran and KYTC agree that the public and agency outreach procedures for TIP Amendment and Administrative Modification processes included in the Participation Plan are adequate to meet the public input required for Lextran's Program of Projects (POP) and meet the intent of the federal planning regulations.

The MPO will coordinate and assist Lextran and other public transit providers in the development of the Coordinated Public- Human Services Transportation Plan

Termination and Modification

It is the intent of the MPO, KYTC, and Lextran to carry forward the planning process on a continuing basis. It is the intention of the parties that this agreement will be in effect for a period beginning on the execution of this agreement.

This agreement will remain in effect until terminated or superseded by a new agreement. Any agency subject to this agreement may withdraw from the agreement by giving thirty (30) days written notice to all other agencies subject to the agreement. In the event that an agency withdraws from this agreement, the rights and responsibilities of the remaining agencies will remain unchanged with respect to each other until this agreement is amended or replaced.

In the event that this agreement requires modification for any reason, the required modifications may be accomplished through the execution of a letter modification or supplementary agreement between all agencies subject to this agreement.

This agreement may be amended or replaced with a new agreement at any time upon the written consent of all remaining signatory agencies. In the event that this agreement is replaced with a new agreement, this agreement will become null and void when the new agreement goes into effect.

Dispute Resolution

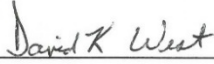
Should a dispute arise which cannot be resolved between agency staffs and/or MPO committee members, the matter will be elevated to agency executives and, if necessary, the governor. The Federal Highway Administration (FHWA), Federal Transit Administration (FTA) and any other relevant agencies will be consulted throughout the dispute resolution process, as needed, and their input will be taken into consideration in attempting to resolve disputes. In the event that a dispute cannot be resolved, any

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signatory agency to this agreement may withdraw from the agreement as described above under Termination and Modification.

The signatures below signify the acceptance and approval of this agreement.

LEXINGTON AREA METROPOLITAN PLANNING ORGANIZATION

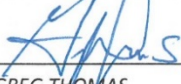


DAVID WEST
JESSAMINE COUNTY JUDGE EXECUTIVE
LEXINGTON AREA MPO POLICY COMMITTEE CHAIRMAN

7/12/17

DATE

COMMONWEALTH OF KENTUCKY TRANSPORTATION CABINET



GREG THOMAS
KYTC SECRETARY of TRANSPORTATION

8/8/17

DATE

TRANSIT AUTHORITY OF LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT (LEXTRAN)



CARRIE BUTLER
LEXTRAN GENERAL MANAGER

7/12/17

DATE

APPROVED AS TO FORM & LEGALITY TRANSPORTATION CABINET



OFFICE OF LEGAL SERVICES

7/31/17

DATE