



Unified Planning Work Program

of the

Lehigh Valley Transportation Study
in Collaboration and Partnership with
Lehigh Valley Planning Commission (LVPC)
and

Lehigh and Northampton Transportation Authority (LANTA)

July 1, 2022 through June 30, 2024

Adoption:

LVPC Executive Committee: November 18, 2021
LVPC Coordinating Committee: December 15, 2021

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PREFACE

On October 28, 1993, the U.S. Department of Transportation, under the joint sponsorship of the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA), released updated regulations covering the urban transportation planning and programming process. These regulations specified that:

- (a) In Transportation Management Areas (TMAs), the TMA(s), in cooperation with the State and operators of publicly-owned transit, shall develop unified planning work programs (UPWPs) that meet the requirements of 23 CFR Part 420, Subpart A and:
 - (1) Discuss the planning priorities facing the metropolitan planning area and describe all metropolitan transportation and transportation related air quality planning activities (including the corridor and subarea studies discussed in 450.318 of this part) anticipated within the area during the next one or two-year period, regardless of funding sources or the agencies conducting the activities. The description should indicate who will perform the work, the schedule for completing it and the products that will be produced.
 - (2) Document planning activities to be performed with funds provided under Title 23, U.S.C., and the Federal Transit Act (Federal Register, Vol. 58, No. 207, p. 58040).

The Infrastructure Investment and Jobs Act and signed on November 15, 2021 and Fixing America's Surface Transportation (FAST) Act signed on December 4, 2015, continues the Metropolitan Planning Program. The Program establishes a cooperative, continuous, and comprehensive framework for making transportation investment decisions in metropolitan areas. Program oversight is a joint Federal Highway Administration/Federal Transit Administration responsibility.

Within Lehigh and Northampton counties in Pennsylvania, the transportation planning process is conducted through the Lehigh Valley Transportation Study (LVTS). The purpose of this document is to describe the transportation planning and programming activities for the period July 1, 2022 through June 30, 2024 in Lehigh and Northampton counties and to comply with the Federal Planning regulations identified above. At the request of PennDOT, this document will cover a two-year period. The work order that results from this work program will cover the same two-year period.

LEHIGH VALLEY TRANSPORTATION STUDY (LVTS) TRANSPORTATION MANAGEMENT AREA (TMA)

Introduction

- A. The Unified Planning Work Program (UPWP) describes the transportation-related work activities that the Lehigh Valley Planning Commission (LVPC) and Lehigh and Northampton Transportation Authority (LANATA) (with the aid of a planning consultant, if necessary) will perform in the 2022 and 2023 state fiscal years for the two-county area.
- B. The Lehigh Valley Transportation Study (LVTS) is designated as the transportation management area (TMA) for the Lehigh Valley.
- C. As the federal designated metropolitan planning organization for Lehigh and Northampton Counties, LVTS must respond to the planning requirements of federal laws, including the Infrastructure Investment and Jobs Act (IIJA), the FAST Act and the Clean Air Act Amendments of 1990 (CAAA). The IIJA adopted November 15, 2021 and The FAST Act, adopted in December 2015, continue many of the regional transportation planning programs advanced in MAP-21. Under this legislation, the MPO is a partner in the planning for the use of all federal transportation funds allocated within their region. The IIJA and The FAST Act require MPO to produce and oversee a Transportation Improvement Program (TIP), the regions short-range capital investment plan, which must be consistent with and serve to implement the region's Long-Range Plan. The TIP prioritizes the Lehigh Valley's transportation-related projects within the constraints of federal and state funding that Pennsylvania can reasonably expect to receive within four years.

The Metropolitan Planning Regulations promulgated from the FAST Act identify ten planning factors that must be considered in the metropolitan planning process. The ten planning factors listed below are integrated within the tasks of the Program Areas and Projects detailed throughout this work program. Please see Appendix B for the Planning Factors matrix.

- 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 accessibility and mobility of people and freight.
- Protect and enhance the environment, promote energy conservation, improve the 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 stormwater impacts of surface transportation.

- Enhance travel and tourism.

D. The vision for LVTS's FY 2022-2024 UPWP, based on the region's work program and Long-Range Plan, FutureLV: The Regional Plan, is to support a seamless transportation network through high-quality transportation planning activities that are in accord with federal and state regulations. The transportation activities will be balanced, accurate, inclusive and provide timely and reliable information, data, analysis and guidance as it relates to relevant aspects of the Lehigh Valley Community.

Committees and Agency Responsibilities

A. The LVTS is comprised of two main committees - the Technical Committee and Coordinating Committee. The Technical Committee is an advisory body to the Coordinating Committee, reviewing plans, programs, and various other items brought before them for review and recommendation to the Coordinating Committee. The Coordinating Committee is the policy body which formally considers adoption/approval of items reviewed by the Technical Committee. The LVTS also has two advisory committees on specific topic areas of Freight and Multimodal transportation.

Technical Committee Voting Members and number of votes in parenthesis:

City of Allentown	(1)
City of Bethlehem	(1)
City of Easton	(1)
Lehigh and Northampton Transportation Authority (LANTA)	(1)
Lehigh-Northampton Airport Authority (LNAA)	(1)
Lehigh Valley Planning Commission (LVPC)	(3)
Pennsylvania Department of Transportation – Central Office	(1)
Pennsylvania Department of Transportation – District 5	(1)

Coordinating Committee Voting Members and number of votes in parenthesis:

Lehigh County	(3)
Northampton County	(3)
City of Allentown	(2)
City of Bethlehem	(2)
City of Easton	(2)
Lehigh and Northampton Transportation Authority (LANTA)	(1)
Lehigh-Northampton Airport Authority (LNAA)	(1)
Lehigh Valley Planning Commission (LVPC)	(1)
Pennsylvania Department of Transportation – Central Office	(1)
Pennsylvania Department of Transportation– District 5	(1)

The Freight Advisory Committee (WorkshopLV: Freight) is advisory to the LVTS on goods movement issues, studies and projects, and the development of a functional and efficient freight system. The Committee will consider the movement of freight to and from manufacturing sites, cities/downtown areas, intermodal facilities, warehouses, and utilities, as well as the region's freight transportation network (i.e., highways, railroads, ports, airports, and pipelines). Additionally, the Committee is a platform for information sharing and building of the region's knowledge base on goods movement issues and needs. The Freight Advisory Committee

consists of all members of LVTS, a truck driver, a law enforcement official, CDL training organizations, a freight insurance/risk management provider, a freight shipper/receiver, Class I and short line railroads, trucking firms and associations, a third party logistics/supply company, Lehigh Valley Industrial Parks, Federal Highway Administration, Pennsylvania Motor Truck Association, Lehigh Valley Economic Development Corporation, Greater Lehigh Chamber of Commerce, a private and regional bus operator, a developer. Neighboring regions and associated entities like the Pennsylvania Turnpike Commission are invited. All meetings are open to the public

The Multimodal Working Group (WorkshopLV: Multimodal) is advisory to the LVTS on the development of a functional and efficient bicycle, pedestrian and transit system and the intersection of these modes with other vehicular traffic. The working group facilitates discussions and provides input on policies, plans and projects to support the local, regional and state bicycle, pedestrian and transit system along with safety, access and mobility. The working group participates as an advisory body to the MPO in multimodal strategic action planning efforts. The working group is composed of all LVTS members along with members that represent the cycling community, pedestrian community, transit community, businesses, organizations and public agencies that depend on bicycle, pedestrian and transit and also residents with an interest in improving any of these communities. All meetings are open to the public.

- B. The LVPC serves as technical staff for LVTS and is responsible, in cooperation with PennDOT and LANTA, for providing information, analyses, and plan and program recommendations to the committees for their action. The staff of LVPC coordinates the required planning tasks to ensure that LVTS is meeting the federal transportation requirements and receiving federal and state funds to make necessary improvements to the transportation infrastructure. The staff assess data, congestion, feasibility, land use, transportation system performance and operations, safety and security, travel demand, freight and environmental linkages to develop plans for the reliable movement of people and goods. The planning efforts consult and coordinate with the Lehigh Valley Planning Commission, local, county, state and federal governments, transit operators, adjacent regions, transportation advocates, trail partners, the mobility-impaired, environmental justice communities and the public.
- C. The role of LVTS and other supporting agencies is to promote transportation policies, programs, and projects consistent with locally adopted regional comprehensive plan, transportation plan and transportation improvement program that are in accord with federal and state regulations. Specific studies and plans on goods movement, safety, transportation-land use connections, multi-modalism, congestion management, roadway functional classifications, highway performance monitoring, etc. are core roles, and work to enhance the long-range transportation plan, transportation improvement program and support optimal decision and policy-making by the LVTS. All LVTS Meetings are advertised and open to the public.

Priorities for 2022-2024: The top priorities for the LVTS during the FY 2022-2024 UPWP include:

1. Monitoring, education and implementation of the bi-county comprehensive general plan and long-range transportation plan, titled *FutureLV: The Regional Plan*.
2. Coordinate, facilitate and participate in *FutureLV: The Regional Plan* implementation efforts, like the development of multi-municipal plans, focused efforts on water management, climate change and infrastructure resiliency, support of sustainable infrastructure funding programs and, future forces planning such as electric and autonomous infrastructure studies.
3. Create a new organizational strategic plan to support the prioritization, facilitation and implementation of transportation plans and initiatives including, *FutureLV: The Regional Plan*.
4. Monitoring, education, implementation and possible revision of Transportation Performance Measures.
5. Implementation of the PennDOT Connects process with PennDOT and support of educational and capacity-building efforts, such as the Local Technical Assistance Program and Lehigh Valley Government Academy.
6. Implementation of the 2023-2026 Transportation Improvement Program (TIP) and begin preparations for the 2025-2028 TIP Update, including annual listing of obligated projects.
7. Participation in and response to the joint Federal Highway Administration and Federal Transit Administration Certification Review. The final report is expected by July 2024 with coordination and implementation of recommendations beginning immediately thereafter.
8. Begin update of *FutureLV: The Regional Plan* in 2022 for adoption in 2023.
9. Coordination with neighboring MPOs to address "Mega-Regional" needs through the Metropolitan Planning Area (MAP) Forum, among other venues and activities.
10. Educate, organize partner entities and begin implementation of the *Walk/RollLV: Active Transportation Plan*, through forums like the LVTS Multi-modal Working Group and The Link Trail Partnership.
11. Continue to improve the Regional Traffic Safety Program and the Congestion Management Process program.
12. Support the implementation *Moving LANTA Forward Plan* and the *Enhanced Bus/Bus Rapid Transit Study* by the Lehigh and Northampton Transportation Authority.
13. Continue the focus, dialogue, writing and leadership on freight issues as the Lehigh Valley has the fastest new freight facility growth in the nation, according to Transwestern Development Corporation. Strengthen these efforts through the Freight Advisory Committee, creation of the Eastern PA Freight Plan, and thorough municipal education and outreach on the transportation-land use connection.
14. Continue to work on the Eastern PA Freight Alliance with neighbor MPO's to accomplish an Eastern PA Freight Plan that will provide guidance on goods movement, community impacts, safety and overall mobility.
15. Update the *LVTS Public Participation Plan* to reflect the enhanced outreach and engagement already occurring and increase inclusion of environmental justice populations to improve overall equity.
16. Continue to monitor transportation system changes through the Highway Performance Monitoring and Segment Inventory System, National Highway System connector modifications, functional classification system and publishing transportation trends information. Continue to implement DataLV, online and interactive data sharing and economic-transportation modeling system to better communicate information and build a more collaborative approach to transportation planning and investment.
17. Build new partnerships, with agencies like the Workforce Investment Board, to enhance the knowledge base and discussion-making around mobility, the economy and the environment.

Milestones

Generally, the LVTS has targeted the following deliverable milestones in the work program:

Product	Update Cycle	Current Adoption/Completion	Next Adoption/Completion
Unified Planning Work Program (UPWP)	2 Years	January 19, 2022	January 2024
Long-Range Transportation Plan (LRTP)	4 Years	October 2, 2019	October 2, 2023
Transportation Improvement Program	2 Years	June 15, 2022	June 30, 2024
Public Participation Plan	As Needed	October 4, 2017	June 30, 2024
Limited English Proficiency Plan	As Needed	December 19, 2016	To Be Determined
Title VI Policy and Procedures	As Needed	August 17, 2011	To Be Determined
Traffic Safety Plan	As Needed	December 19, 2016	2024
Pedestrian, Bicycle, Last Feet to Transit Plan	As Needed	In Draft Form	To Be Determined
Freight Plan	As Needed	October 13, 2015	June 30, 2023
Local Coordinated Transit Plan	As Needed	June 6, 2018	To Be Determined
Annual List of Obligated Projects	1 Year	December 30, 2021	December 30, 2022 December 30, 2023
Local Technical Assistance Program (LTAP) Annual Report	1 Year	November 2021	November 2022 November 2023
Highway Performance Monitoring System (HPMS)	1 Year	December 2021	December 2022
Federal Certification Review	4 Years	Jan 2020	Spring 2024

Work Program Development

LVPC staff initiated the development process of the FY 2022-2024 UPWP in 2021. The staff has adapted to the changing world by moving online for meetings, workshops, training and educational sessions. Through all the engagement LVPC staff have with various partners and stakeholders, feedback is gathered to determine the transportation needs and opportunities within Lehigh and Northampton Counties.

Through the land development that is reviewed on a monthly basis at LVPC, the volume and rate of activity is the highest and most complex the region has seen. With the tremendous growth in industrial and logistics facilities, the conversations always include transportation impacts. The commissioners of LVPC are passionate and provide staff with feedback on the potential impacts. The public has participated in these meetings as well and have provided feedback about the impacts they've experience due to land development decisions. LVPC holds an all-municipal General Assembly for the elected officials of each 62 municipalities in Lehigh and Northampton Counties with the purpose of discussing planning topics and issues.

LVPC is also in the process of developing four multi-municipal comprehensive plans, covering 31 municipalities in the Lehigh Valley. Each one of these efforts looks to transportation planning to support their vision of maintaining what they love about their communities. Each planning effort has utilized different forms of public engagement throughout the planning process to identify the vision and goals. This feedback received has a dual benefit of informing their own plan updates as well as the transportation planning program of the staff of LVPC. The staff has a solid understanding of the transportation needs and concerns each of the multi-municipal planning areas has and has ensured that those planning needs and concerns are being looked at through the UPWP.

LVPC is also a member of the Metropolitan Area Planning Forum (MAP Forum) mega-region. The MAP Forum includes: Capital Region Council of Governments, Connecticut Metropolitan Council of Governments, Lehigh Valley Planning Commission, Lower Connecticut River Valley Council of Governments, Naugatuck Valley Council of Governments, New York Metropolitan Transportation Council, North Jersey Transportation Planning Authority, Orange County Transportation Council, South Central Regional Council of Governments and the Western Connecticut Council of Governments. This group meets on a bi-annual basis with several topic-specific committees that meet more frequently. The MAP forum members discuss issues that transcend the boundaries of any one MPO. These topics and issues include resiliency, freight, data and funding.

LVPC also has participated in external groups such as the Greater Lehigh Valley Chamber of Commerce (GLVCC) Board of Governors, Public Policy Committee, Transportation Committee and Energy and Environment Committee. The GLVCC has held meetings and events centered around transportation funding, alternative fuel sources to diversify energy as well as growth related to freight and industry. LVPC has participated at every step of the way with this business community forum for feedback and provided education where appropriate.

Feedback and input on transportation issues has also been provided by other external groups LVPC has participated, presented or attended meetings with, including The Lehigh Valley Auto Dealers Association, The Lehigh Valley Partnership, United Way of the Greater Lehigh Valley and the Workforce Board LV.

LVPC staff also contacted PennDOT Central Office and LANTA on several occasions regarding the specifics of the FY 2022-2024 UPWP update during the fall of 2021.

Specific meetings/workshops/conferences throughout 2021 include:

- Transformative Talks topic specific virtual workshops with stakeholders:
 - The Hot House: The Region's Burn, Blister and Bloom – June 25, 2021
 - BuildLV Mid-Year Report – August 6, 2021
 - Today's Planning – August 26, 2021
- National Association of Regional Councils
 - National Conference of Regions – February 2021
 - Executive Directors Conference – September 2021
- All Community General Assembly – meeting of all 62 municipalities, presentation of regional issues and open forum to discuss needs and issues of the communities:
 - 3/30/2021; 11/30/2021
- Multimodal Working Group – specific work group to focus on bicycle and pedestrian needs
 - 4/8/2021
- The meetings and conversations with the following organizations have occurred:
 - LVTS Joint Technical and Coordinating Committees: January 20, February 17 and 25, April 21 and 27, June 16, August 18, October 20, December 15
 - LVTS Technical Committee: March 17, November 17 and September 15.
 - LVPC Board meetings:
 - Environmental Planning: January 26, February 23, March 23, April 20, May 25, June 22, July 20, October 26, November 16, December 21
 - Comprehensive Planning: January 26, February 23, March 23, April 20, May 25, June 22, July 20, August 24, September 21, October 26, November 16, December 21
 - Transportation Planning: January 28, March 25, April 22, May 27, June 24, July 22, September 23, October 28, November 18, December 23
 - Full Commission: January 28, February 25, March 25, April 22, May 27, June 24, July 22, August 26, September 23, October 28, November 18, December 23
 - Lehigh County Board of Commissioners/General Services Committee: 2/10/2021, 4/14/2021
 - Northampton County Council: 10/6/2021, 10/20/2021
 - LANTA Board Meetings: January 12, 2021, February 9, 2021, March 9, 2021, April 6, 2021, May 5, 2021, June 8, 2021, August 10, 2021, September 14, 2021

All of the above discussed meetings, workshops, webinars and groups have provided feedback on what transportation needs are in the Lehigh Valley. Staff has ensured that planning for those needs is captured throughout this UPWP.

Constrained Funding

Total Constrained Funding for Years 1 and 2

Federal/State Sources	FY 2021 Actual	FY 2022 Proposed	FY 2023 Proposed	Total
				Proposed
Motor License Funds (MLF)	\$141,088.00	\$112,000.00	\$112,000.00	\$224,000.00
Federal Highway Administration (FHWA) Metropolitan Planning Funds (PL)	\$1,001,253.00	\$817,000.00	\$817,000.00	\$1,634,000.00
Federal Transit Administration (FTA) Distribution	\$138,560.00	\$114,000.00	\$114,000.00	\$228,000.00
FHWA Local Technical Assistance Program (LTAP) Supplement	\$25,000.00	\$25,000.00	\$25,000.00	\$50,000.00
FHWA Eastern Regional Freight Alliance Supplement	\$101,670.00	\$178,330.00	\$0.00	\$178,330.00
				\$2,314,330.00

Funding Source	Year 1	Year 2
Federal/State	\$1,246,330.00	\$1,068,000.00
Local	\$165,333.00	\$120,750.00
Total by Year	\$1,411,663.00	\$1,188,750.00
UPWP Total		\$2,600,413.00

**Budget Summary - Year 1
July 1, 2022 – June 30, 2023**

TASK		TOTAL TASK	HIGHWAY			TRANSIT	
			Planning Funds	Motor License Funds	Local Funds	Metropolitan Planning Program Funds	Local
I	Operations, Administration and Collaboration	\$349,125	\$245,100	\$33,600	\$27,675	\$34,200	\$8,550
II	Land Use Planning, Plans, Projects and Guidance	\$581,875	\$408,500	\$56,000	\$46,125	\$57,000	\$14,250
III	Data Collection and Surveillance	\$232,750	\$163,400	\$22,400	\$18,450	\$22,800	\$5,700
Subtotal		\$1,163,750	\$817,000	\$112,000	\$92,250	\$114,000	\$28,500
SUPPLEMENTAL FUNDS							
IV	LTAP	\$25,000	\$25,000	\$0	\$0	\$0	\$0
V	Eastern PA Regional Freight Project	\$222,913	\$178,330	\$0	\$44,583	\$0	\$0
Subtotal		\$247,913	\$203,330	\$0	\$44,583	\$0	\$0
TOTAL BUDGET		\$1,411,663	\$1,020,330	\$112,000	\$136,833	\$114,000	\$28,500

**Budget Summary - Year 2
 July 1, 2023 – June 30, 2024**

TASK		TOTAL TASK	HIGHWAY			TRANSIT	
			Planning Funds	Motor License Funds	Local Funds	Metropolitan Planning Program Funds	Local
I	Operations, Administration and Collaboration	\$349,125	\$245,100	\$33,600	\$27,675	\$34,200	\$8,550
II	Land Use Planning, Plans, Projects and Guidance	\$581,875	\$408,500	\$56,000	\$46,125	\$57,000	\$14,250
III	Data Collection and Surveillance	\$232,750	\$163,400	\$22,400	\$18,450	\$22,800	\$5,700
Subtotal		\$1,163,750	\$817,000	\$112,000	\$92,250	\$114,000	\$28,500
SUPPLEMENTAL FUNDS							
IV	LTAP	\$25,000	\$25,000	\$0	\$0	\$0	\$0
V	Eastern PA Regional Freight Alliance Project	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal		\$25,000	\$25,000	\$0	\$0	\$0	\$0
TOTAL BUDGET		\$1,188,750	\$842,000	\$112,000	\$92,250	\$114,000	\$28,500

TASK I – OPERATIONS, ADMINISTRATION AND COLLABORATION

<u>Estimated Cost</u>	<u>2022-2023</u>	<u>2023-2024</u>
Federal Highway Administration	\$ 245,100	\$ 245,100
Federal Transit Administration	\$ 34,200	\$ 34,200
Pennsylvania Department of Transportation	\$ 33,600	\$ 33,600
Local Highway	\$ 27,675	\$ 27,675
Local Transit	\$ 8,550	\$ 8,550
Total	\$ 349,125	\$ 349,125

Task I – Operations, Administration and Collaboration is the overall management task for the UPWP. This task handles all the contracting, budgeting, progress reporting and compliance for the agreements with PennDOT and USDOT. This task also includes LVTS committee management as well as public engagement.

Committee management includes all required committee meetings and associated tasks that are required and recommended for the Technical and Coordinating committees. All public engagement such as presentations, information dissemination and media are captured under this task. With the purpose of the public engagement being to inform the people of Lehigh and Northampton Counties about the transportation program and educate when possible about the process and ways to be involved.

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
General Office, Unified Planning Work, Program Management, Contracting and Compliance	Develop monthly, quarterly and annual progress reports and invoices for PENNDOT and other partners	LVPC	Monthly, quarterly, annually by report type
	Coordinate and collaborate on the development of the 2024-2026 Unified Planning Work Program	LVPC, PENNDOT, USDOT	Fall 2023
	Proposal development, implementation and contracting	LVPC	As needed
	Work with PENNDOT, LANTA and other partners to review and update relevant cooperative planning and information sharing agreements	LVPC, LANTA	As needed
	Continue to expand the use of technology to more efficiently coordinate and collaborate	LVPC	As needed
	Address Disadvantaged Business Enterprise (DBE) requirements during procurement of services	LVPC	As needed
	Participate in equal opportunity, non-discrimination, DBE and other trainings offered by PENNDOT, FHWA and FTA as appropriate	LVPC, LANTA	As needed
	Evaluate Indirect Cost Allocation Plan (ICAP) and update	LVPC	Annually

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Lehigh Valley Planning Commission (LVPC) and Lehigh Valley Transportation Study (LVTS) Committees	Coordination and participation in LVPC and LVTS Committee Meetings, including preparation and review of agendas, meeting minutes, notices, website updates, documents, presentations, and support	LVPC	Monthly
	Coordination and participation in Freight Advisory Committee meetings, including preparation and review of agendas, meeting minutes, notices, website updates and support	LVPC, PENNDOT	Quarterly
	Coordination and participation in the General Assembly and any associated sub-regional working groups on the transportation-land use connection, including preparation and review of agendas, meeting minutes, notices, website updates and support	LVPC, Municipal Officials	At least twice per calendar year; sub-regional meetings as needed
	Coordination and participation in the Multi-Modal Working Group and any ad hoc or specific issue meetings, including preparation and review of agendas, meeting minutes, notices, website updates and support	LVPC	As needed
	Continue organizational strategic plan to support the prioritization, administration, facilitation and implementation of FutureLV: The Regional Plan and adapt to the changing world	LVPC, PENNDOT, FHWA, Partners	Late 2023
	Provide meeting notices, agendas and meeting materials via website posting and email no less than one week prior to a meeting	LVPC, LANTA	On-going
	Develop an orientation package for new LVTS committee members	LVPC	2022

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Training	Coordinate and participate in Lehigh Valley Local Government Academy training	LVPC	Annually
	Develop, collaborate and participate with partners to deliver transportation training programs	LVPC, PENNDOT, Partners	At least Annually
	Training for staff such as webinars, conferences, meetings that provide professional development as well as expanded transportation planning skills	LVPC	On-going; As-needed

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Agency and Partner Collaboration and Coordination	Attend Planning Partner and transportation-related meetings and workshops	LVPC	Generally, Annually
	Collaboratively work with educational institutions and non-profits to share and promote innovative transportation planning ideas and concepts that might evolve from teaching, training and research opportunities	LVPC, Partners	As needed
	Coordinate planning activities with neighboring Metropolitan Planning Organizations, transportation planning agencies, transit agencies and governments	LVPC, PENNDOT, USDOT, Partners	Generally, Quarterly
	Coordinate, prepare for, participate in and comply with the US DOT Federal Certification review. Final Report is due June 2024	LVPC, LVTS, LANTA, PENNDOT, USDOT	On-site Visit Fall 2023/ Winter 2024
	Participate in committee and board meetings related to LANTA activities and planning studies	LVPC, LANTA	Monthly
	Continue to support the Commonwealth's efforts in modernizing the public outreach campaigns for the State Transportation Commission and the Twelve-Year Program through promotion of opportunities to participate in online surveys	LVPC	As needed

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Public Information	Provide data and information as requested by partners and the public	LVPC	On-going
	Procure support services for data and information as needed and appropriate to meet the spirit and intent of Title VI to provide and facilitate participation of minority, non-English speaking and Limited English Proficiency (LEP), low-income, and disabled populations	LVPC	As-needed
	Solicit public input and conduct public meetings	LVPC	On-going
	Evaluate and work to mitigate the impacts of plans and programs on environmental justice communities	LVPC	On-going
	Meet with community leaders and groups, including under-represented populations, to obtain input and collaborate on transportation issues	LVPC	On-going
	Review and evaluate the effectiveness of procedures and strategies in the current Public Participation Plan and modify document, process and procedures to reflect actual engagement	LVPC	2024
	Evaluate if updates are needed, maintain and implement a Title VI/Non-Discrimination Plan.	LVPC	Dec 2023

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Media/Articles/ Newsletters	Maintain, update and utilize the LVPC website (DATALV) and social media accounts to support participation in programs and plans and disseminate transportation information	LVPC	On-going

TASK II – LAND USE PLANNING, PLANS, PROJECTS AND GUIDANCE

<u>Estimated Cost</u>	<u>2022-2023</u>	<u>2023-2024</u>
Federal Highway Administration	\$ 408,500	\$ 408,500
Federal Transit Administration	\$ 57,000	\$ 57,000
Pennsylvania Department of Transportation	\$ 56,000	\$ 56,000
Local Highway	\$ 46,125	\$ 46,125
Local Transit	\$ 14,250	\$ 14,250
Total	\$ 581,875	\$ 581,875

Task II – Land use planning, plans, projects and guidance includes infrastructure legislation and funding, freight, future forces, planning, plan integration, project collaboration (PennDOT Connects), safety, LRTP and TIP processes. This is the primary planning task that integrates land use with transportation planning and considers other factors such as land development, housing and climate change. This tasks includes the required LRTP and TIP creation and maintenance activities as well as performance metrics. This task works closely with LANTA to ensure transit components throughout all activities are being considered.

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Infrastructure Legislation and Funding	Solicit, prioritize, evaluate, program, monitor and administer Transportation Alternatives Set-Aside (TASA) program requests	LVPC, PENNDOT	On-going
	Share information and support the use of infrastructure funding programs such as the Pennsylvania Infrastructure Bank (PIB), Multi-Modal Transportation Fund, and public-private partnerships	LVPC	On-going
	Explore and plan for the development of new, restructured, sustainable and increased funding for infrastructure maintenance and improvements	LVPC, PENNDOT, Partners	On-going
	Assist organizations and communities with transportation funding efforts, including support letters, coordinated partner meetings and joint development of funding strategies, as necessary	LVPC, PENNDOT, Partners	On-going
	Review project selection and prioritization processes for the Long-Range Transportation Plan, TIP and TASA for consistency with performance measures and to fairly adapt to 'less infrastructure funding' environment	LVPC	On-going
	Monitor current discussion and implement (when appropriate) final rulemaking/legislation as related to reauthorization of transportation legislation	LVPC, LANTA, PENNDOT, FHWA	On-going

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Freight and Future Forces Planning	Identify and coordinate critical freight, multi-modal transportation facilities and connectors that support the economy and deployment of new and future technologies and connect to employment centers, workforce catchment areas, national markets, and international markets	LVPC, PENNDOT, Adjacent MPOs, Mega Region Partners	On-going
	Coordinate the development of a strategic freight corridor program and begin exploring alternative fueling, connected and autonomous vehicle corridors for infrastructure management, safety and maintenance	LVPC, PENNDOT, Partners	On-going
	Designate industrial, recharge and connectivity zones to assist in better transportation movement	LVPC, Municipalities, Partners	On-going
	Support, facilitate, collaborate with local governments, private sector and the public on freight and freight-related issues, technological advancements and future forces deployment	LVPC	On-going
	Participate in member groups and contribute to the greater knowledge base and problem solving on freight, technological, fueling and other transportation advancements' needs and issues. Examples include: PENNDOT Comprehensive Freight Movement Plan Update, PENNDOT Truck Parking Stakeholder Group, PENNDOT Freight Working Group, USDOT Talking Freight and other governmental, non-profit and private partner collaborative initiatives	LVPC, PENNDOT, USDOT, Municipalities	On-going
	Expand freight planning, data and economic analysis capabilities and the availability of this information to the public	LVPC, Partners	On-going
	Collect and distribute data, seek potential partners, collaborations and funds that support the identification and designation of alternative fuel, connected and autonomous vehicle and other transportation future forces needs.	LVPC, PENNDOT, LANTA, LNAA, Utilities, Cellular Companies, Partners	On-going

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Transportation Planning + Plan Integration	Support and assist in the development of municipal access management plans and access control implementation	LVPC, PENNDOT, Municipalities, Partners	On-going
	Review and comment on street vacation requests, transportation impact assessments, transportation plan reviews, and transportation impact studies	LVPC	On-going
	Support and coordinate efforts associated with the continued implementation of the Moving LANTA Forward development program and transit studies	LVPC, LANTA	On-going
	Solicit and coordinate transit (LANTA) and airport (LVIA) review and comments on Land Developments, Comprehensive Plans and Zoning Ordinances	LVPC, LANTA	Monthly
	Implement recommendations from the Enhanced Bus/Bus Rapid Transit Study	LVPC, LANTA	On-going
	Coordinate, facilitate and support regional bicycle, pedestrian, last steps to transit, multi-modal and commuter corridor identification and designation, and other multi-modal activities	LVPC, PENNDOT, LANTA, Municipalities, Partners	On-going
	Integrate transportation planning with land-use planning in cooperation with local, county, state and federal partners	LVPC, PENNDOT, USDOT, LANTA, Municipalities, Partners	On-going
	Identify livability, sustainability, equity and resiliency planning strategies to tie the quality and location of transportation facilities and services to broader opportunities	LVPC, LANTA, PENNDOT, Municipalities	On-going
	Prioritize, develop and prepare corridor master plans and implementation strategies for those areas subject to growth pressures, redevelopment and access management issues	LVPC, Municipalities, Partners	On-going
	Collaborate with the Lehigh and Northampton Airport Authority on infrastructure improvements, enhanced logistical operations and implementation and, as consistent with land-use policy, implementation of the Airport Master Plan	LVPC, Airport Authority	On-going
	Support corridor urban/community design programs that guide corridor planning initiatives and engages stakeholders locally and regionally	LVPC, PENNDOT, LANTA, Municipalities, Partners	On-going

Transportation Planning + Plan Integration (cont'd)	Review and comment on Highway Functional Classification and update the National Highway Performance Program using the new defined urbanized boundary update from Census 2020 (Available Spring/Summer 2022), incorporating any changes into transportation planning and project work	LVPC, PENNDOT, USDOT	Fall 2022
	Maintain the Congestion Management Process (CMP) by reviewing high priority corridors, emphasizing freight trends and impacts, conducting studies, identifying mitigation strategies, developing action and after-action plans, assisting local governments in congested corridors, and providing guidance related to alternative access and circulation	LVPC, PENNDOT, Municipalities, Partners	2023
	Participate in, contribute to and collaborate on future technologies, shared economies, globalization and other transportation-based needs that require preparation	LVPC, PENNDOT, USDOT, LANTA, Municipalities, Partners	On-going
	Internal coordination and development of transportation-related content to LVPC regional planning documents, including the Comprehensive Plan, multi-municipal area plans, environmental management, housing and parks, recreation and open space plans	LVPC	On-going
	Partner with PENNDOT and other relevant parties to advance opportunities to manage travel demand	LVPC, PENNDOT, Partners	On-going and As-needed

Category	Tasks and Deliverables	Responsible Entity/Entities	Completion Date
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		+ Collaborators	
Project and Plan Collaboration and Delivery	Review and comment on PENNDOT reports and initiatives, including pilot projects, guidance reports, and operational plans	LVPC, PENNDOT	On-going
	Participate in and attend Planning Catalyst Team and other relevant PENNDOT committee meetings	LVPC, PENNDOT	On-going
	Assist PENNDOT with implementing the Pennsylvania Climate Change Action Plan and coordinate this effort with the <i>Lehigh Valley Hazard Mitigation Plan, ClimateLV: A Regional Climate Assessment</i> , any future climate action work and integrated water resources management efforts	LVPC, PENNDOT	On-going
	Work with PENNDOT to meet Linking Planning and the National Environmental Protection Act (NEPA), Congestion Mitigation and Air Quality requirements including analysis and reporting	LVPC, PENNDOT	On-going
	Coordinate, facilitate, participate in and support meetings between project sponsors, PENNDOT and the public, including PENNDOT Connects to assist with the implementation of the Program Development and Project Delivery Process	LVPC, PENNDOT, LANTA, Municipalities, Partners	On-going
	Through coordination and information from PENNDOT and USDOT, integrate Cultural Resources into the planning process	LVPC, PENNDOT, USDOT	On-going

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Safety Programs	Continue an outreach program to solicit input and promote and address walking and rolling safety issues	LVPC, PENNDOT, LANTA, Partners	Annually or more frequently
	Monitor and implement the <i>Traffic Safety Plan</i> and comprehensively update the plan	LVPC	On-going; Plan update 2024
	Prioritize, select areas, develop safety strategies and program capital improvement recommendations for the Highway Safety Improvement Projects (HSIP) and other programs as funding allows	LVPC, PENNDOT, LANTA, Municipalities	Annually
	Explore the creation of a Traffic Incident Management Task Force	LVPC, PENNDOT, PennTIME, Fire, Police, EMS, Partners	On-going; As-needed

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Transportation Improvement Program (TIP) & Long-Range Transportation Plan (LRTP/FutureLV)	Coordinate with PENNDOT, FHWA, and FTA on the preparation and adoption of the 2025-2028 TIP with narratives that use performance based planning language and/or explanations of how the project implements goals identified in the Transit Asset Management (TAM) plan and LRTP	LVPC, PENNDOT, USDOT	2024
	Monitor and advance non-traditional projects, evaluate projects that are likely to cause region-wide work zone impacts, and advance projects that promote or enhance transportation management plans	LVPC	On-Going
	Work with PENNDOT to document the process for coordinating changes to the TIP and LRTP/FutureLV to ensure fiscal constraint	LVPC, PENNDOT	As Needed
	Review the TIP and LRTP/Future LV updates and present them to LVTS, LVPC, the Counties and the public	LVPC	As Needed
	Incorporate performance metrics into the planning and decision-making processes of the TIP and LRTP/FutureLV	LVPC	On-Going
	Begin the update of the LRTP, for adoption in 2023	LVPC, PENNDOT, Counties	2023
	Incorporate overview of the Interstate TIP Lehigh Valley Region, analysis of local federal – aid routes and future needs, environmental mitigation strategies, into the planning and decision-making processes of the LRTP/FutureLV	LVPC	With LRTP Update 2023
	Provide Annual Obligations Reports for TIP highway and transit projects	LVPC, LANTA, PENNDOT	Annually by Dec. 29
	Enhance the usability, communication and understanding of the LRTP/FutureLV and TIP processes and projects	LVPC, PENNDOT	On-Going
	Conduct Environmental Justice (EJ) analysis using the EJ Core Elements approach on the TIP and LRTP as part of the update process	LVPC	During updates
	Develop, collaborate on, review and implement performance metrics and other new or enhanced portions of federal transportation legislation	LVPC, PENNDOT, USDOT, LANTA, Partners	On-going and As Needed
	Utilize PENNDOT’s Extreme Weather Vulnerability Assessment tool to incorporate flooding resiliency into TIP projects, enhance county hazard mitigation planning and improve emergency preparedness	LVPC, PENNDOT, Counties, Partners	On-going and As-needed
	Participate in Regional Planning Operations	LVPC, PENNDOT	As-needed

TASK III – DATA COLLECTION, ANALYSIS AND SURVEILLANCE

<u>Estimated Cost</u>	<u>2022-2023</u>	<u>2023-2024</u>
Federal Highway Administration	\$ 163,400	\$ 163,400
Federal Transit Administration	\$ 22,800	\$ 22,800
Pennsylvania Department of Transportation	\$ 22,400	\$ 22,400
Local Highway	\$ 18,450	\$ 18,450
Local Transit	\$ 5,700	\$ 5,700
Total	\$ 232,750	\$ 232,750

Task III – Data collection, analysis and surveillance includes all of our data management. This includes gathering and creation of data. This task will accomplish the traffic count collection and segment inventory activities required by PennDOT and USDOT. This task also includes all the data modeling, travel demand modeling and overall management and maintenance of the public facing data portal, DATALV.

Category	Specific Task + Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Transportation Counts and Segment Inventory	Collect and submit PENNDOT assigned traffic counts in accordance with PENNDOT's Traffic Counting Safety and Assistance Program (TCASP) procedures	LVPC, PENNDOT	Annually, first Friday in Dec
	Verify, update and submit roadway segment inventory and performance measures as assigned by PENNDOT	LVPC, PENNDOT	Annually, first Friday in Dec
	Attend Highway Performance Monitoring System (HPMS) and Traffic Workshop training provided by PENNDOT.	LVPC, PENNDOT	As Available
	Participate in bi-annual quality reviews and any Traffic County Safety Assistance Program (TCASP) reviews.	LVPC, PENNDOT	As Available
	Prepare, report and communicate findings detailing the LVPC's traffic counting program, traffic findings, and traffic trends (DataLV)	LVPC	Annually
	Collect key counts that assist in monitoring and managing the transportation-land use connection	LVPC	Annually
	Explore the potential of establishing a bicycle and pedestrian count program	LVPC	As Needed

Category	Specific Task + Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Data, Modeling and Information Systems	Develop, maintain and enhance transportation GIS coverages, including the creation of new coverage for locally owned, non-federal aid roadways, multimodal corridors, LANTA routes, rail lines and other transportation systems	LVPC	On-Going
	Investigate and implement alternatives and conflict scenario modeling to support land-planning and transportation projects	LVPC	On-Going
	Maintain and update the MOVES modeling software (Regional Travel Demand Model)	LVPC, PENNDOT	On-Going
	Explore the availability and attainability of new data resources that directly support the transportation program. Integrate them into safety, congestion management, project selection and other relevant processes	LVPC	On-Going
	Continue to develop alternative and future growth scenarios and their impact on the transportation network	LVPC	On-Going
	Build in capacity and utilize Regional Economic Modeling (REMI) to support the transportation program, improve metrics and impact understanding and decision-making	LVPC	On-Going
	Develop and maintain a comprehensive, publicly accessible online data portal (DataLV) on the transportation system and land use connection for the Lehigh Valley	LVPC	Bi-Annually

TASK IV – LOCAL TECHNICAL ASSISTANCE PROGRAM (LTAP)

<u>Estimated Cost</u>	<u>2022-2023</u>	<u>2023-2024</u>
Federal Highway Administration	\$ 25,000	\$ 25,000
Federal Transit Administration	\$ -	\$ -
Pennsylvania Department of Transportation	\$ -	\$ -
Local Highway	\$ -	\$ -
Local Transit	\$ -	\$ -
Total	\$ 25,000	\$ 25,000

Task IV – Local Technical Assistance Program (LTAP) includes all activities to host and hold the educational programming provided by PennDOT. This education and training are widely marketed to the appropriate audiences and highly sought after. LVTS also targets assisting communities with specific technical assistance on a particular issue they may have through direct help.

Category	Specific Task + Deliverables	Responsible Entity/Entities and Collaborators	Completion Date
Local Technical Assistance Program (LTAP)	Survey, identify, advertise, and schedule regional training needs	LVPC	Ongoing
	Create materials and market the value of the LTAP program	LVPC	Annually
	Participate in the LTAP Annual Meeting and other meetings and trainings	LVPC	As Needed
	Prepare and submit quarterly and annual reports to PENNDOT detailing project activities	LVPC	Quarterly and Annually
	Coordinate, promote and participate in LTAP technical assistance to Lehigh Valley municipalities; Incorporate projects into transportation planning programs, as needed	LVPC	Annually
	Plan, coordinate and execute a Lehigh Valley Annual Participant Meeting	LVPC	Annually

TASK V – Eastern PA Regional Freight Alliance - Supplemental

<u>Estimated Cost</u>	<u>2022-2023</u>	<u>2023-2024</u>
Federal Highway Administration	\$ 178,330	\$ -
Federal Transit Administration	\$ -	\$ -
Pennsylvania Department of Transportation	\$ -	\$ -
Local Highway	\$ 44,583	\$ -
Local Transit	\$ -	\$ -
Total	\$ 222,913	\$ -

Task V – Eastern PA Regional Freight Alliance – Supplemental is the task for the Eastern PA Freight plan being worked on by LVTS, NEPA, Berks Area Transportation Study, Lebanon and Lackawanna and Luzerne counties. Freight knows no boundaries and through a coordinated effort at studying the impacts in the eastern pa counties, a better management and recommendation plan will be created and provided to the MPOs who will implement.

Category	Specific Task + Deliverables	Responsible Entity/Entities and Collaborators	Completion Date
Project Administration	Project contract activities	LVPC, MPO Partners, Consultant	Ongoing
	Develop monthly, quarterly and annual progress reports and invoices for PENNDOT and other partners	LVPC	Ongoing

Category	Specific Task + Deliverables	Responsible Entity/Entities and Collaborators	Completion Date
Project Management	Manage consultant	LVPC	Ongoing
	Plan Advisory Committee	All MPO Partners	Ongoing
	Public Participation	All MPO Partners	As Needed
	Final Eastern PA Freight Plan deliverable	All MPO Partners; Consultant	June 30, 2023

Appendix A - TRANSIT

Lehigh and Northampton Transportation Authority (LANTA)

TASK I - ADMINISTRATION

A portion of the program is directed toward routine administrative functions and overhead costs. Supported tasks are accounting, general program administration, facility-related costs and other items associated with LANTA's cost allocation plan.

TASK II - PUBLIC INFORMATION

Activities necessary for the formation and implementation of a public involvement process and the provision of customer information are included under this work task. LANTA will coordinate its public transportation information efforts with those of LVTS in order to enhance both public involvement processes.

LANTA's public information and involvement process is ongoing and extensive. The following items are part of this overall effort: Provision and maintenance of service information through printed and online media; public hearings and meetings; public outreach efforts that include meetings that target specific interest groups (e.g., Center for Independent Living, local planning and municipal bodies, employer organizations, economic development organizations, etc.) and direct contact to under-represented individuals, including senior citizens, disabled, minorities, etc.; the distribution of specific announcements relative to planning and other program adjustments through on-board, direct mail or other similar procedures; other online communication methods as opportunities arise; and continued research and implementation of real-time service information tools.

LANTA's procedures for outreach and public participation are extensive and inclusive. Components of this program are available to LVTS and PennDOT District 5 to assist in the gathering of input on topics that are intermodal.

The primary goal of the public information program for this work year will be the continuous improvement of all phases of LANTA's suite of real-time bus information tools, including the Bus Tracker. This includes web page, social media, telephone call center and smart phone application-based utilities.

TASK III – SURVEILLANCE/ASSET MANAGEMENT

LANTA will maintain and enhance its public transportation management system and will participate, as appropriate, in the MPO's development of the congestion management process and the intermodal management system. Particular components of the public transportation management system will include: market research of both users and non-users of the public transportation system; maintenance of route ridership information and system-wide operating data through manual and automated collection methodologies; maintenance of equipment and facility inventory and condition information reflecting the Federal Transit Administration's (FTA) required Transit Asset Management (TAM) Plan; the development of special surveys and in-house reviews and the compilation of various database elements; the identification of necessary performance measures and the routine evaluation of system performance; the development, evaluation and routine monitoring of Americans with Disabilities Act (ADA) paratransit performance systems; and the collection and monitoring of information relative to major transportation terminals at key transfer points and intermodal interface points.

LANTA will utilize these data systems in planning for changes and revisions to the public transportation system and the required capital support. The data sets are available in usable form for necessary input into regional and statewide management systems.

In addition, data collected by LANTA will be shared with the LVPC for modeling purposes such as transit demand by bus stop location and average bus running speeds by corridor segment. With this data, the LVPC can also provide LANTA with demographic analysis and land use information along high performing corridors and around high performing stops, which will allow it to determine the mix of demographic and land use conditions that most effectively create transit demand in the service area.

TASK IV - SYSTEM PLANNING

The system planning component of LANTA's efforts will be directed toward the development of short and long range plans. Elements of these plans will address necessary metropolitan and system planning. Much of LANTA's efforts in these program years will involve continuous service improvement efforts based on its adopted LANTA Bus Service and Performance Guidelines. LANTA prepares an Annual Service Performance Report which compares its current service to its adopted guidelines. Findings from this report guide planning actions for the subsequent year.

In 2013, LANTA completed the Lehigh Valley Enhanced Bus/Bus Rapid Transit Study. Efforts in FY 2019 2023 and 2020 2024 will be directed toward implementing the recommendations of the study. This will include in-house service planning as well as coordination with the LVPC and PennDOT to incorporate recommended elements into other transportation projects involving the study corridors, including signal retiming, signal prioritization studies and intersection reconstruction. In addition, LANTA will work closely with the LVPC to use the long-range transportation plan process to help identify priorities for the Enhanced Bus/Bus Rapid Transit Study recommendations and to then include these prioritized recommendations in the long-range plan document.

Other key areas of the system planning component will include: service planning and coordination efforts associated with the continued implementation of the Moving LANTA Forward program; outreach and coordination efforts with local municipal planning officials regarding transit-friendly land use development; planning and provision of passenger amenities and signage at bus stops and transit centers; planning for safe and convenient access to bus stops and transit centers through the identification of needed improvements to the pedestrian environment; routine reassessment and planning of route adjustments throughout the fiscal year affecting the LANTA Bus division; capital improvement program analyses and updates for use in TIP development; the update and revisions to financial plans; maintenance of the strategic plan for system development; involvement in long range planning efforts per LVTS and other government agency requirements, including the preparation of the public transportation portion of the long range transportation plan ; the assessment of involvement of private carriers in program development efforts; the maintenance of clean air planning program elements; involvement in particular local projects related to community and industrial development, i.e. transit related components; the continuing assessment of transit system issues, including maintenance and operating procedures, safety and security, procurement, education and professional development; necessary updates to ADA implementation plans; and direct input to statewide plan efforts as required.

TASK V - TIP DEVELOPMENT AND MAINTENANCE

The annual programming process is a key part of LANTA's planning efforts. This work relates directly to the LVTS process as well as the internal needs of LANTA's operations. Key programming elements include: LANTA's annual Program of Projects; input to the development of the TIP; annual financial capacity assessments and budget plans; and provision of long range programming elements affecting LVTS's LRTP and PENNDOT 'S TYP.

TASK VI - SPECIAL STUDIES AND LTAP

Technical Support - LANTA will be involved as a liaison with projects that require major investment studies.

New Technology Applications - LANTA continues to explore new technology and how to employ it to make the transit system more efficient and more responsive to community needs. Staff work includes applications in the following areas:

- Data management and systems planning
- Geographic Information System (GIS) applications
- Automatic Vehicle Location (AVL) systems
- Computerized run-cutting programs for the LANTA Bus System

With LANTA's Advanced Transit Management System (ATMS) installed and functional, LANTA's efforts in these task years will include the continued optimization and improvement of the ATMS to maximize data quality and the continued incorporation of the data reporting capabilities of the system into planning and operations oversight processes.

Also, much of LANTA's work in this task will be directed towards the continued development of capabilities and procedures for fully automated run-cutting and schedule document preparation using fixed route scheduling software.

Appendix B – FAST Act Planning Factors and LVTS Tasks Matrix

FAST Act Planning Factors	LVTS UPWP 2022-2024					Appendix A - Transit					
	Task I - Operations, Administration and Collaboration	Task II - Land Use Planning, Plans, Projects and Guidance	Task III - Data Collection, Analysis and Surveillance	Task IV - Local Technical Assistance Program (LTAP)	Task V - Eastern PA Regional Freight Project	Task I - Administration	Task II - Public Information	Task III - Surveillance/Asset Management	Task IV - System Planning	Task V - TIP Development and Maintenance	Task VI - Special Studies and LTAP
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 accessibility and mobility of people and freight.		✓	✓	✓	✓			✓	✓	✓	✓
Protect and enhance the environment, promote energy conservation, improve the 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 stormwater impacts of surface transportation.		✓	✓	✓				✓	✓	✓	✓
Enhance travel and tourism.	✓	✓	✓		✓		✓		✓		



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