

## CHAPTER 1

# Introduction

**FY 2022 | UNIFIED PLANNING WORK PROGRAM**  
SERVING THE PHILADELPHIA, CAMDEN, TRENTON, METROPOLITAN AREAS





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# Delaware Valley Regional Planning Commission FY 2022 Unified Planning Work Program

## Introduction

The FY 2022 Unified Planning Work Program (UPWP) for the Delaware Valley Regional Planning Commission (DVRPC) incorporates the planning programs and support activities of DVRPC and its member governments for the period July 1, 2021 through June 30, 2022. A Unified Planning Work Program (UPWP) is developed annually by the DVRPC Board with its planning partners to reflect the region's short-range planning needs.

Federal laws and regulations require the formation of a metropolitan planning organization (MPO) for each urbanized area with a population of more than 50,000. The MPO designated for each urbanized area is obliged to carry out a continuing, cooperative and comprehensive, performance-based, multi-modal transportation planning process. For MPOs such as DVRPC with a population greater than 200,000, a designation of Transportation Management Area (TMA) is assigned. This designation brings with it additional planning requirements. The Delaware Valley Regional Planning Commission (DVRPC) is the federally-designated TMA MPO for the nine-county metropolitan region that includes Bucks, Chester, Delaware, and Montgomery counties and the City of Philadelphia in Pennsylvania, and Burlington, Camden, Gloucester, and Mercer counties in New Jersey.



The federal laws and regulations that require the formation of MPOs also provide for the formula allocation of federal funds to support the required planning activities of the MPOs. These federal regulations require an MPO to document the metropolitan transportation planning activities performed with funds provided under title 23 U.S.C. in a unified planning work program (UPWP). Each MPO, in cooperation with the State(s) and public transportation operator(s), shall develop a UPWP that includes a discussion of the planning priorities facing the MPO.

In addition to its formula funds, DVRPC is fortunate to receive other federal, state, local, foundation, and private funds to conduct a robust and comprehensive slate of regional planning activities. It is this full complement of financial resources that provides the support for the priority planning activities proposed by our member governments and stakeholders and spelled out in this FY 2022 Unified Planning Work Program.

## **Planning Priorities Facing the Region**

The metropolitan planning regulations promulgated through the FAST (Fixing America's Surface Transportation) Act stipulate that each MPO shall develop a UPWP that includes a discussion of the planning priorities facing the metropolitan area. The planning priorities facing the DVRPC region are easily identified by looking at the annual requests for new planning projects as submitted by the DVRPC Board and other stakeholders during the UPWP development process. Many of the requests for planning studies to be included in the FY 2022 Work Program focused on the following topics: improving access to transit, Transportation Systems Management and Operations, bicycle and pedestrian infrastructure improvements, transportation/land use connections, freight planning, and the collection of transportation data to enable data-driven analyses. These planning priorities track closely with the FAST Act Planning Factors as well as the State Departments of Transportation (DOT's) emphasis areas.

Within the framework of available financial and human resources, this work program effectively addresses the key regional transportation and land use issues facing the Delaware Valley. The program, however, is dynamic in nature and may be modified to respond to any emerging priority issue or special need vital to the orderly growth and development of the Delaware Valley. Throughout the fiscal year, new projects and funding may be added to this Unified Planning Work Program through an amendment process which would require an approval by the DVRPC Board.

## **UPWP Development Process**

DVRPC staff initiates the development process in the August/September time period as initial individual coordination meetings are scheduled with the member governments, state DOT's and transit operators. These coordination meetings are a helpful way for the partners to begin thinking about their potential project ideas and how those ideas relate to current projects or other emerging planning issues. Partners are encouraged to consider ideas of a regional nature in addition to ideas for planning studies that address localized issues. Throughout September and mid-October, staff works with our partners to refine and submit brief write-ups of their project ideas considering emerging local and regional priorities as well as continuation of ongoing priority projects. At a Board Work Program Committee meeting in October, project ideas are presented by the partners and priority projects are short-listed for initial selection. During November, staff works with the partners to refine the scopes of the selected projects as they consider potential sources and amounts of funding. In early December, the Draft UPWP document is presented at the Board Meeting. The Board is requested to approve the release of the document for public comment. The public comment period remains open for 30 days; during which time, DVRPC staff prepares a response to all comments submitted by our partners, advocacy organizations, or the general public. Staff presents the comments, responses and final document to the Board for adoption at the January Board meeting. Following Board adoption, staff incorporates responses to comments,

editorial corrections, and final funding tables into a final document that is submitted to our funding agencies in March. Work on the adopted UPWP begins on July first.

## **UPWP Document Organization**

The FY 2022 Unified Planning Work Program is divided into six chapters. Chapter One serves as an introduction to DVRPC's operations and relationships to other transportation and planning organizations in the Delaware Valley region. Chapter Two provides details of the Program Areas and Projects which DVRPC will be undertaking during FY 2022. Chapters Three and Four contain the Supportive Regional Highway Planning Program (SRHPP) and the Transit Support Program (TSP), respectively. These programs provide funding from DVRPC for our member governments to support their participation in the regional planning process. Chapter Five includes other projects funded through the UPWP to be carried out by member governments. Chapter six provides a summary of New Jersey Transportation Improvement Program (NJ TIP) -funded projects that span over multiple fiscal years due to the scope of work, consultant selection process, and extent of involvement required from various NJ member governments and municipalities. Appendix A contains Schedule 1 which provides a detailed breakdown of funding sources from New Jersey. Appendix B contains a list of acronyms commonly used in DVRPC's regional planning process.

## **Planning Emphasis Areas**

The products produced through this UPWP include technical analyses, policy recommendations, and planning services for member state and local governments. The Program Areas and Projects outlined in this document are directed by priority Planning Emphasis Areas as identified by our federal and state partners. Planning activities identified in this document strive to incorporate the requirements of the most recent federal surface transportation legislation, FAST Act, where applicable.

Examples of these Planning Emphasis Areas as identified by our state and federal partners include the following:

- Continue to collaborate with state DOTs and federal partners to implement provisions of the FAST Act including Performance Measure Targets and freight provisions.
- Continue to support greater coordination with other MPOs, state DOTs, transit agencies, TMAs and counties in mobility and land use planning. This can include Regional Models of Cooperation like the Central Jersey Transportation Forum, grant or technical assistance programs to encourage vibrant, sustainable communities, and developing and maintaining data bases in support of smart growth, and other related activities.
- Implement actions that support Ladders of Opportunity through fairness and improved coordination of services, access and mobility for low income, minority, persons with disabilities and seniors.

- Pursue congestion relief strategies such as Transportation Demand Management (TDM) strategies and low-cost operational improvements at intersections and bottlenecks.
- Implement actions to assist the DOTs with data collection such as Model Inventory of Roadway Elements (MIRE) on county and local roads and data on local-owned road and bridge assets.
- Collect and submit traffic counts to state DOTs.
- Where possible, support the collection of bicycle and pedestrian volume data on county roadways
- Provide opportunities to develop and complete the East Coast Greenway and Circuit Trails network
- Verify and update roadway inventory and performance measures on Highway Performance Monitoring System (HPMS) sample sections.
- Coordinate with state DOTs in the development and integration of standards and measures necessary to meet a performance-based approach to Asset Management and to implement the Capital Investment Strategy.
- Participate in data-driven safety planning activities.
- Improve primary freight corridors and hubs for more efficient access and improved system performance.
- Enhance the visibility and effectiveness of freight planning and support the improvement of intermodal freight connectors.
- Continue to champion truck parking improvements throughout the state.
- Continue to advance rail freight projects, connectivity solutions, and planning initiatives: specifically, enhance regional connectivity in South Jersey through New Jersey and Pennsylvania.
- Investigate the impacts of increased goods delivery from on-line sources with regard to land use and transportation.
- Improve safety as it regards freight related access to warehouses and industrial parks for trucks as well as employees.
- Maximize opportunities for Complete Streets implementation and consider adoption of a Complete streets Policy.
- Refine local project prioritization processes to include scoring factors that are based on potential health outcomes, safety improvements, connectivity for all modes, proximity to schools and transit stops, and other factors.
- Invest in compliance and adaptation of Intelligent Transportation systems (ITS) Regional Architecture in all pertinent and applicable projects.



- Improve traffic operations through Intelligent Transportation System upgrades and enhanced coordination at the interstate, state, county and local level.
- Work with state DOTs and other partners on risk management strategies for improving the resilience of transportation infrastructure against the impacts of extreme weather.
- In partnership with New Jersey Department of Transportation's (NJDOT's) Complete Team, institutionalize an improved process for initiating mobility and freight improvements with an updated, coordinated and streamlined approach to developing and vetting problem statements.
- Implement actions to assist NJDOT Division of Local Aid and Economic Development in expanding outreach and assistance to local public agencies to foster improved project delivery and compliance with federal regulations.
- Continue to engage with the public to strengthen public confidence and participation in the planning process through the use of web tools/technology, social media, outreach, education and public forums/meetings.
- Update and maintain the region's Long-Range Plan, TIP, Congestion Management Process, and Travel Demand Model and work with NJ DOT and NJ TRANSIT in the development of the Statewide Long-Range Transportation Plan.
- Partner with PennDOT to market and manage PennDOT's Local Technical Assistance Program (LTAP) in District 6.
- Work to incorporate automated/connected/electric/shared use vehicles into the planning process, recognizing the challenges, opportunities, and uncertainty associated with these technologies.
- Implement actions that uphold fairness and improved coordination of services, access, and mobility for low income and minority populations, persons with disabilities, and senior citizens.
- Work with willing county and municipal partners for integration of transportation and land use to promote community livability and maximize the efficiency of the transportation system.
- Continue programs that support communities as they initiate or expand work on transit-oriented development (TOD).

## **Federal Legislation Requirements**

As the federally designated metropolitan planning organization for the region, DVRPC must respond to the planning requirements of two federal laws: the FAST Act and the Clean Air Act Amendments of 1990 (CAAA). The FAST Act, adopted in December 2015, continues many of the regional transportation planning programs advanced in Moving Ahead for Progress in the 21<sup>st</sup>

Century (MAP-21) and many of the Program Areas and Projects set forth in this UPWP work directly to continue the implementation of those MAP-21 Programs.

The FAST Act authorized \$305 billion in federal highway, transit, safety and rail programs for five years. Under this legislation, the MPO is a partner in the planning for the use of all federal transportation funds allocated within their region. The FAST Act also requires the MPO to produce and oversee a Transportation Improvement Program, the region's short-range capital investment plan, which must be consistent with and serve to implement the region's Long-Range Plan. The TIP prioritizes the Delaware Valley's transportation-related projects within the constraints of federal funding that our Pennsylvania and New Jersey counties can reasonably expect to receive within four years.

The federal legislation that created the FAST Act was set to expire on September 30, 2020 but was extended through a Continuing Resolution (CR) by Congress and signed by the president on October 1, 2020. The extension continued original levels of funding for highway and transit programs through September 30, 2021.

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 in Chapter Two of this Unified Planning Work Program.

- 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**.

The Metropolitan Planning Regulations also require that MPO's with a population over 200,000 must undergo a certification review conducted jointly by the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) at least every four years to determine if their metropolitan transportation planning process meets the federal planning requirements. Federal certification of the planning process is a prerequisite to the approval of federal funding for transportation projects in their area. DVRPC underwent the site-visit portion of the review in October 2018 and received the Final Certification Review Report in February 2019. With the preparation and distribution of the Final Report, the FHWA and FTA certified DVRPC's metropolitan transportation planning process including DVRPC's successful actions to address one corrective action. The site-visit portion of the next federal certification review is expected to be conducted in the Fall of 2022.

The requirements of the Clean Air Act Amendments (CAAA) establish a program and set a timetable for improving the nation's air quality. The Philadelphia area has been classified as a non-attainment area for ground-level ozone and portions of the region are in maintenance of the fine particulate matter standards. The region must attain or continue to maintain the mandated air quality standards for these factors. Although the responsibility for attaining the standards falls directly on the states, DVRPC is responsible for a key role in developing many of the programs relating to air quality attainment or maintenance. The projects in the region's TIP and the Long-Range Plan must conform to the states' air quality implementation plans. These projects must not lead to any further violation of the federal clean air standards or impede the region's progress toward meeting those standards.

### **Coordination with Member Governments and Other Planning Partners**

The priority planning activities listed in DVRPC's annual Unified Planning Work Program are also defined in part by the planning needs of the city and county member governments. The member governments' financial contribution to a Comprehensive Planning fund enables DVRPC to provide a local match to other federal, state, or private funds to undertake projects of regional significance that require a local contribution. Comprehensive Planning funds also support initiatives such as open space and environmental planning projects, economic development planning, and local or regional land use planning.

Many programs, while broad in scope, affect transportation conditions in the region. For example, DVRPC's Transportation and Community Development Initiative (TCDI) Program is an important effort whereby DVRPC provides planning grants, based on the competitive review of proposals, to counties and municipalities, to support projects that link revitalization, economic development and transportation needs.

DVRPC also responds to the needs of other partners, including state and federal agencies, operating authorities, as well as nonprofit foundations and organizations. Consequently, DVRPC

annually undertakes a number of special projects funded under a variety of programs to address pressing regional issues. DVRPC continues to implement programs like coordination with the region's environmental protection and open space organizations and reporting on the region's locally funded open space programs; and promoting linkages between active transportation and healthy communities. DVRPC continues its involvement in the Pennsylvania Department of Transportation (PennDOT) Connects Program and continues energy, climate change and resiliency initiatives in both states that include coordination and facilitation, analyses, management, tool development and technical assistance to local governments.

Complementary and supportive initiatives also continue, including the development of the region's Comprehensive Economic Development Strategy, planning for transit system improvements, advancing transportation operations and safety projects, using DVRPC's Travel Demand Model to forecast travel movements on the region's transportation network, and responding to many other needs of DVRPC's member governments and agencies.

### **Supportive Regional Highway Planning Program (SRHPP), Transit Support Program (TSP), and Geographic Information System (GIS) Pass-Through Funding**

In order to support its member governments participation in the regional planning process, DVRPC passes federal funds to those partners to develop and maintain their planning programs and data as well as to participate in the region's key planning efforts such as development of the Transportation Improvement Program (TIP), Long-Range Plan, Congestion Management Process, Transportation Performance Management activities as well as other regional planning efforts. During FY22, the SRHP programs in Pennsylvania and New Jersey will be funded by their respective TIPs. The funding source for the PA SRHPP will be the urban allocation of the Surface Transportation Program (STP/STU), while the NJ SRHPP will be funded with funds from the Surface Transportation Block Grant Program (STBGP). Both the PA TSP and the NJ TSP will be funded from DVRPC's allocation of formula based federal Metropolitan Planning (PL) funds. In addition to their core planning functions, the SRHPP and the TSP programs offer a limited amount of funding for special planning studies to address current areas of need for member governments. DVRPC also passes federal funds to member governments which enables them to expand their GIS capability as necessary to maintain a level of technical sophistication that guarantees interoperability and compatibility among the partners across the region. Both the PA and NJ GIS Programs are funded from their respective TIPs. Pennsylvania uses STP/STU funds while New Jersey used STBGP funds.

SHRPP eligible activities include tasks related to regional planning coordination, and meetings for programs such as the TIP, Long-Range Plan, Congestion Management Process, Transportation Operations Master Plan, and Regional Transportation Safety Action Plan. Detailed scopes of work for each sub-recipient in the SRHPP are found in Chapter Three of this Unified Planning Work Program. Scopes of work may vary but must adhere to the comprehensive planning, programming, monitoring, and coordination of highway and trail networks within a jurisdiction.

TSP eligible activities include tasks related to promoting transit planning and coordination for programs such as TIP, Long-Range Plan, and Congestion Management Process. The detailed scopes for each sub-recipient that receives TSP funds are found in Chapter Four of this Unified Planning Work Program. Scopes vary but must adhere to the comprehensive planning, programming, monitoring, and coordination of transit services within a jurisdiction.

GIS eligible activities include tasks related to the use of GIS in transportation planning including upgrading capabilities and developing and sharing transportation data. A detailed scope is developed for each organization but it must adhere to the project description found in Chapter Five of this Unified Planning Work Program. Scopes may vary to some degree but tasks must relate to the comprehensive planning, programming, and monitoring to promote information sharing and maintenance of regional transportation GIS data.

### **UPWP Budget and Funding**

The total budget for the FY22 Unified Planning Work Program is \$28,495,460, a decrease of \$2,125,071 from the FY 2021 Unified Planning Work Program. Overall pass-through funding for member governments in FY 2022 is \$6,392,000 versus \$8,954,500 in FY 2021 partially driven by the absence of TCDI Program which is a two-year cycle program and no request for NJ Local Concept Development funds in FY22.

In addition to the core formula planning funds allocated by the FAST Act that DVRPC receives, the Commission is fortunate to receive funds from many other sources to support the planning activities and programs. The funds come from varied sources including federal agencies, state agencies, member governments, foundations and private sector organizations. Below is a sample of federal and non-federal sources:

Federal Highway Administration (FHWA) Metropolitan Planning Funds

Federal Transit Administration (FTA) Metropolitan Planning Funds

Federal Aviation Administration (FAA) Funding

PA/NJ Transportation Improvement Program Funds

Member Government Contributions

PennDOT Supplemental Funding

PennDOT Connects (State Planning and Research) Funding

PennDOT State Funds

PA Department of Environmental Protection (PADEP) Funding

DVRPC Local Initiatives

William Penn Foundation Grants

Table 1, *Funding Summary*, shows DVRPC's overall revenue by source to be applied to personnel and operating costs associated with UPWP activities and to the pass-through projects associated with member governments.

Table 2, *Project Funding by Source*, shows the budget and funding sources for each individual Program Area and Project.

Delaware Valley Regional Planning Commission  
 Fiscal Year 2022 | Unified Planning Work Program

**Table 1: Funding Summary**

FUNDING SOURCE	GENERAL FUND	HIGHWAY PROGRAM	TRANSIT PROGRAM	COMP PLANNING	OTHER PROGRAMS	TOTAL
MISCELLANEOUS	\$0	\$0	\$0	\$0	\$2,889,275	\$2,769,275
FAA	0	0	0	0	108,000	108,000
PA FTA	0	0	1,222,000	0	621,000	1,843,000
PA FHWA	0	4,724,000	0	0	4,838,500	9,682,500
PA STATE	0	670,000	0	0	303,600	973,600
PA OTHER	0	0	0	0	304,500	304,500
PA LOCAL	0	0	0	0	375,500	375,500
NJ FTA	0	0	544,676	0	-	544,676
NJ FHWA	0	2,538,545	0	0	1,476,600	4,015,145
NJ STATE	0	0	0	0	-	0
NJ LOCAL	0	0	0	0	22,500	22,500
<b>PA LOCALS</b>	<b>\$152,448</b>	<b>\$354,000</b>	<b>\$305,500</b>	<b>\$390,633</b>	<b>\$3,055</b>	<b>\$1,205,636</b>
Bucks County	23,782	35,100	36,348	60,940	611	156,781
Chester County	18,964	66,688	48,465	48,595	611	183,323
Delaware County	19,971	56,159	36,348	51,173	611	164,262
Montgomery County	30,413	52,649	48,465	77,931	611	210,069
City of Philadelphia	58,022	140,395	133,278	148,674	611	480,980
City of Chester	1,296	3,009	2,596	3,320	-	10,221
<b>NJ LOCALS</b>	<b>\$61,484</b>	<b>\$0</b>	<b>\$0</b>	<b>\$195,200</b>	<b>\$2,444</b>	<b>\$259,128</b>
Burlington County	17,068	0	0	54,188	611	71,867
Camden County	16,583	0	0	52,646	611	69,840
Gloucester County	10,963	0	0	34,804	611	46,378
Mercer County	10,704	0	0	33,984	611	45,299
City of Camden	2,939	0	0	9,330	-	12,269
City of Trenton	3,227	0	0	10,248	-	13,475
<b>SUBTOTAL DVRPC</b>	<b>\$213,932</b>	<b>\$8,286,545</b>	<b>\$2,072,176</b>	<b>\$585,833</b>	<b>\$10,944,974</b>	<b>\$22,103,460</b>
<b>MEMBER GOVERNMENTS AND TRANSIT OPERATING AGENCIES</b>						
PA FTA	\$0	\$0	\$900,000	\$0	\$0	900,000
PA FHWA	0	0	0	0	\$848,000	848,000
NJ FTA	0	0	386,600	0	\$0	386,600
NJ FHWA	0	0	0	0	\$1,159,000	1,159,000
PA LOCALS	0	0	225,000	0	\$174,500	399,500
NJ LOCALS	0	0	96,650	0	\$102,250	198,900
OTHER	0	0	0	0	\$2,500,000	2,500,000
<b>SUBTOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,608,250</b>	<b>\$0</b>	<b>\$4,783,750</b>	<b>\$6,392,000</b>
<b>GRAND TOTAL</b>	<b>\$213,932</b>	<b>\$8,286,545</b>	<b>\$3,680,426</b>	<b>\$585,833</b>	<b>\$15,728,724</b>	<b>\$28,495,460</b>

**Table 2: Project Funding by Source**

Page	PROJECT NUMBER	PROGRAMS/PROJECTS	FY 2022 BUDGET	HIGHWAY PLANNING	TRANSIT PLANNING	COMPREHENSIVE PLANNING	OTHER
	<b>Chpt. Two-Sect. A</b>						
		<b>DVRPC PROGRAM AREAS</b>					
43	22-23-010	Regional Forum	\$ 297,500	\$ 227,711	\$ 57,289	\$ 2,500	\$ 10,000
45	22-23-020	Work Program Administration	347,500	267,660	67,340	2,500	10,000
47	22-23-030	Public Participation, Involvement and Outreach	409,500	317,197	79,803	2,500	10,000
51	22-23-040	Title VI and Environmental Justice	206,900	155,003	38,997	2,500	10,000
55	22-23-050	Data Visualization and Communication	590,000	471,401	118,599	-	-
59	22-23-060	Web Development and Database Management	870,000	695,116	174,884	-	-
61	22-23-070	Data Coordination and Analysis	331,250	259,670	65,330	1,250	5,000
65	22-31-010	Geographic Information Systems	339,400	271,175	68,225	-	-
67	22-33-010	Smart Growth	703,500	404,479	101,763	57,258	140,000
71	22-33-020	Community & Economic Development	556,000	238,497	60,003	22,500	235,000
75	22-33-030	Energy and Climate Change Initiatives	341,508	149,017	37,491	55,000	100,000
81	22-33-040	Environmental Planning	309,500	259,500	-	50,000	-
85	22-34-010	Long-Range Planning	582,000	349,156	87,844	45,000	100,000
89	22-34-020	Freight and Aviation Planning	389,500	294,226	74,024	16,250	5,000
93	22-34-030	Transportation Safety	394,250	310,006	77,994	1,250	5,000
99	22-34-040	Regional Congestion Management Process	227,250	176,576	44,424	1,250	5,000
103	22-34-050	Air Quality Planning	249,250	194,153	48,847	1,250	5,000
109	22-34-060	Performance Based Planning and Asset Management	307,500	145,815	36,685	25,000	100,000
113	22-34-070	Socioeconomic and Land Use Analytics	220,000	159,797	40,203	20,000	-
117	22-41-010	Technical Assistance to Member Governments	295,946	215,421	54,200	16,325	10,000
121	22-41-020	Transportation Improvement Program (TIP)	651,250	515,345	129,655	1,250	5,000
125	22-41-030	Transportation Operations	562,950	133,191	33,509	1,250	395,000
131	22-41-050	Competitive Program & Project Management	1,249,500	59,500	-	-	1,190,000
133	22-51-010	Travel and Land Use Modeling	457,250	360,342	90,658	1,250	5,000
137	22-52-010	Regional Transit Planning Program	391,250	-	265,000	41,250	85,000
141	22-52-020	Bicycle and Pedestrian Planning Program	296,750	216,125	54,375	21,250	5,000
145	22-52-030	Mobility Analysis and Design Program	682,250	524,134	131,866	21,250	5,000
149	22-52-040	Regional Transportation Demand Management (TDM) Program	312,500	-	-	-	312,500
153	22-53-010	Travel Monitoring	739,500	594,500	-	-	145,000
		Subtotal	\$ 13,311,054	\$ 7,964,713	\$ 2,039,008	\$ 409,833	\$ 2,897,500
	<b>Chpt. Two-Sect. B</b>						
		<b>DVRPC PROJECTS</b>					
	15-44-300	William Penn-Planning, Design and Construction of Priority Trails**	\$ 80,000	\$ -	\$ -	\$ -	\$ 80,000
	18-33-140	William Penn - DRWI Data/GIS/Modeling Work Group**	25,000	-	-	-	25,000
	18-33-200	William Penn - Completing The Circuit **	40,000	-	-	-	40,000
	21-34-080	Regional Aviation System Planning**	40,000	-	-	-	40,000
	21-34-130	Reg. Aviation Plan - 2045**	125,000	-	-	-	125,000
	21-51-050	Route 422 Operations and Capacity Study**	100,000	-	-	-	100,000
	21-52-040	Regional Transportation Demand Management (TDM) Program**	250,000	-	-	-	250,000
	22-10-010	General Fund	213,932	-	-	-	213,932
159	22-31-020	Regional Transportation GIS Coordination	400,000	-	-	-	400,000
161	22-33-050	Local Technical Assistance Program (LTAP)	30,000	-	-	-	30,000
163	22-33-060	William Penn Regional Trail Program	157,000	-	-	-	157,000
167	22-33-070	Pennsylvania Coastal Zone Management Implementation Program	50,000	-	-	-	50,000
169	22-33-080	Healthy Communities Planning	125,000	79,898	20,102	5,000	20,000
173	22-33-090	PA/NU Local Planning Initiatives	150,000	-	-	40,000	110,000
177	22-33-150	Climate Adaptation Planning and Community Resiliency	50,000	-	-	-	50,000
179	22-33-160	Local Government Energy Implementation Strategies and Initiatives	85,000	-	-	-	85,000
181	22-33-170	TOD Next Steps/Station Screening	100,000	-	-	-	100,000
185	22-33-180	Regional Electric Vehicle Planning Program	150,000	-	-	-	150,000





Table 2 Continued

Page	PROJECT NUMBER	PROGRAMS/PROJECTS	FY 2022 BUDGET	HIGHWAY PLANNING	TRANSIT PLANNING	COMPREHENSIVE PLANNING	OTHER
189	22-34-080	Regional Aviation System Planning	120,000	-	-	-	120,000
191	22-34-090	Central Jersey Transportation Forum	125,000	-	-	-	125,000
193	22-34-100	PA Air Quality Action Supplemental Services	125,000	-	-	-	125,000
195	22-34-110	NJ Air Quality Action Supplemental Services	50,000	-	-	-	50,000
197	22-41-060	Transportation Systems Management and Operations (TSMO)	554,000	-	-	-	554,000
201	22-41-070	I-95 Planning Assistance	100,000	-	-	-	100,000
203	22-51-020	Enhance and Maintain Travel Forecasting Tools	640,000	-	-	-	640,000
207	22-51-040	District 6 Modeling Assistance	460,000	-	-	-	460,000
209	22-51-050	Philadelphia Trip Generation Model	103,700	-	-	-	103,700
213	22-51-060	I-95 Traffic Forecasts	150,000	-	-	-	150,000
215	22-52-050	Regional TDM Program Planning & Administration	320,000	-	-	40,500	279,500
217	22-52-060	Pottstown Area Regional Plan Development	65,000	51,934	13,066	-	-
219	22-52-070	PennDOT Connects Bike-Friendly Resurfacing Program	250,000	-	-	-	250,000
223	22-52-090	Commuter Services/Mobility Alternatives Program (Share-a-Ride)	251,000	-	-	-	251,000
227	22-52-110	ExPo: Experimental Pop-ups Program	200,000	-	-	-	200,000
231	22-52-120	Racial Minority Mobility Choices Study	225,000	-	-	-	225,000
233	22-52-130	Regional Sidewalk Development Program: Pilot Technical Assistance Round	150,000	-	-	-	150,000
237	22-52-160	Cecil B. Moore Avenue - Corridor Safety Study and Concept Development	200,000	-	-	40,000	160,000
239	22-53-020/025	HPMS and Functional Classification System (PA & NJ)	190,000	190,000	-	-	-
241	22-53-030	PennDOT District 6-0 Traffic Volume Data	300,000	-	-	-	300,000
243	22-59-700	Member Government Special Studies	901,944	-	-	-	901,944
245	22-59-701	New Projects and Misc. Carryover**	1,140,830	-	-	50,500	1,090,330
		Subtotal	\$ 8,792,406	\$ 321,832	\$ 33,168	\$ 176,000	\$ 8,261,406
		<b>SUBTOTAL DVRPC PROGRAM</b>	\$ 22,103,460	\$ 8,286,545	\$ 2,072,176	\$ 585,833	\$ 11,158,906

\*\* Carryover Projects

**MEMBER GOVERNMENT / TRANSIT OPERATING AGENCIES / OTHER PASS-THROUGH**

253-270	Chapter Three A & B						
277-300	A: 22-60-010 to 22-60-051	Supportive Regional Highway Planning Program	\$ 872,500	\$ -	\$ -	\$ -	\$ 872,500
	B: 22-61-010 to 22-61-110	PA Supportive Regional Highway Planning Program	511,250	-	-	-	511,250
		Subtotal	\$ 1,383,750	\$ -	\$ -	\$ -	\$ 1,383,750
307-328	Chapter Four A & B						
335-350	A: 22-63-000 to 22-63-010	Transit Support Program	\$ 1,125,000	\$ -	\$ 1,125,000	\$ -	\$ -
	B: 22-63-020 to 22-63-027	PA Transit Support Program	483,250	-	483,250	-	-
		Subtotal	\$ 1,608,250	\$ -	\$ 1,608,250	\$ -	\$ -
	Chpt. Five						
	15-44-320	Other Member Government Projects					
	18-33-200	William Penn- Planning, Design & Construction of Priority Trails**	\$ 1,000,000	-	-	-	\$ 1,000,000
355	22-53-300	William Penn - Completing The Circuit **	1,500,000	-	-	-	1,500,000
357	22-64-000	PA/NJ Regional GIS Implementation Coordination	300,000	-	-	-	300,000
359	22-65-100	New Jersey Regional Signal Retiming Initiative Project (2 Years)	220,000	-	-	-	220,000
		New Jersey Local HSIP Program Assistance (2 Years)	380,000	-	-	-	380,000
		Subtotal	\$ 3,400,000	\$ -	\$ -	\$ -	\$ 3,400,000
		<b>SUBTOTAL MEMBER GOVERNMENTS AND OPERATING AGENCIES</b>	\$ 6,392,000	\$ -	\$ 1,608,250	\$ -	\$ 4,783,750
		<b>GRAND TOTAL</b>	\$ 28,495,460	\$ 8,286,545	\$ 3,680,426	\$ 585,833	\$ 15,942,656

## **Agency Roles and Responsibilities**

DVRPC, as the federally-designated MPO, has a requirement to carry out a continuing, cooperative, and comprehensive, performance-based, multimodal transportation planning process. The member agencies that comprise the DVRPC Board and Regional Technical Committee also play key roles in this process, as described below.

The coordination of this planning process with the many involved partners and stakeholders is critical to the successful completion and implementation of the region's plans and programs. The member organizations that make up the DVRPC Board were identified in the legislation that originally created DVRPC in 1965.

The DVRPC Board is comprised of eighteen voting members representing the following organizations: Pennsylvania Department of Transportation, New Jersey Department of Transportation, Pennsylvania Governor's Policy and Planning Office, New Jersey Department of Community Affairs, Pennsylvania Governor's Appointee, New Jersey Governor's Appointee, Bucks County, Chester County, Delaware County, Montgomery County, Burlington County, Camden County, Gloucester County, Mercer County, City of Chester, City of Philadelphia, City of Camden, and City of Trenton.

The Commission receives input and guidance from fifteen additional non-voting Board member organizations. They are: Federal Highway Administration – PA Division, Federal Highway Administration - NJ Division, Federal Transit Administration - Region II, Federal Transit Administration - Region III, US Department of Housing and Urban Development, US Environmental Protection Agency - Region II, US Environmental Protection Agency - Region III, PA Department of Environmental Protection, NJ Department of Environmental Protection, NJ Office for Planning Advocacy, PA Department of Community and Economic Development, Southeastern Pennsylvania Transportation Authority, New Jersey Transit Corporation, Delaware River Port Authority, and Port Authority Transit Corporation.

***State Departments of Transportation (DOTs)*** – DVRPC works cooperatively with the Pennsylvania and New Jersey Departments of Transportation (PennDOT and NJDOT) in carrying out all of its transportation planning and programming activities. PennDOT and NJDOT representatives serve on all transportation related committees, as well as the DVRPC Board. Although outside our MPO boundary, staff from the Delaware and Maryland Departments of Transportation serve on DVRPC committees responsible for planning activities around freight, aviation, and transportation-related air quality issues.

The state DOTs are responsible for a number of activities that affect the metropolitan planning process. They are charged with development of statewide long-range plans, which include coordination with the long-range transportation plan developed by DVRPC. Each state DOT also

develops a Statewide Transportation Improvement Program (STIP), which must embody the appropriate sections of DVRPC's regional TIP. Accordingly, both state DOTs participate actively in the process by which projects are prioritized and included in DVRPC's TIP.

Initially designated in MAP-21 and carried over into the FAST Act, the state DOTs have the lead responsibility for developing a State Freight Plan, statewide asset management systems, and a Strategic Highway Safety Plan. Development of these plans and systems involves extensive consultation with DVRPC and other MPOs and helps DVRPC to identify transportation needs and recommendations for addressing them.

The state DOTs also serve as the primary intermediaries between DVRPC and federal transportation agencies, including the Federal Highway Administration (FHWA), Federal Transit Administration (FTA) and Federal Aviation Administration (FAA).

***City and County Planners*** – The nine counties (Bucks, Chester, Delaware, Montgomery, Philadelphia, Burlington, Camden, Gloucester, and Mercer) and three cities (Chester, Camden, and Trenton) that comprise the DVRPC region and whose representatives sit on the DVRPC Board are key partners in the regional planning process. Using some of the federal planning funds made available to DVRPC, resources are passed through to the member governments to support their transportation planning work and the extensive coordination needed to prepare and maintain a regional planning process. Member governments also have seats on DVRPC's working committees, identify and prioritize projects for the TIP, contribute needed input into the development of the Long-Range Plan, and provide the local knowledge and perspective needed to integrate with the regional planning process.

***NJ Department of Community Affairs*** – DCA is a State agency created to provide administrative guidance, financial support and technical assistance to local governments, community development organizations, businesses and individuals to improve the quality of life in New Jersey. DCA offers a wide range of programs and services that respond to issues of public concern including community planning and development, housing production, fire and building safety, and local government management and finance.

DVRPC's Board voting membership also includes a representative from the PA Governor's Policy and Planning Office and a PA Governor's appointee as well as an NJ Governor's appointee. These voting members provide input into the regional planning process from a guidance and policy development perspective. In addition to the organizations that formally make up the voting members of the DVRPC Board, coordination with several other federal and state partners and operating agencies is essential for the development of plans and programs which identify and implement the priority transportation investments in the region. Those agencies are identified below.

**Transit Operators** – the largest provider of public transportation in the Delaware Valley region is the Southeastern Pennsylvania Transportation Authority (SEPTA). Substantial service is also provided by New Jersey Transit Corporation (NJT), Port Authority Transit Corporation (PATCO), and Pottstown Area Rapid Transit (PART). Each is responsible for both the capital and operating needs in their respective service areas. They are the principal source for identifying transit projects for inclusion in the transit portion of DVRPC’s TIP. They also carry out many of the transit planning activities in the region, funded in part through DVRPC’s Planning Work Program. PATCO, a subsidiary of the Delaware River Port Authority (DRPA), is responsible for operations management of the transit agency, while DRPA is responsible for planning. Transit operating agencies are participatory non-voting members of the DVRPC Board but voting members of DVRPC’s Regional Technical Committee and other working committees.

**Federal Highway Administration** – As a bi-state MPO, DVRPC is served by FHWA Division Offices in both Pennsylvania and New Jersey. The FHWA Division Offices are local field offices that provide leadership, guidance, and direction to State Departments of Transportation and MPOs in the planning, construction and maintenance of transportation projects. Working collaboratively with State partners, FHWA Division Offices ensure that the nation's roads, bridges and tunnels are safe and continue to support economic growth and environmental sustainability.

**Federal Transit Administration** – The FTA field offices, organized by Region, help transit operators, MPOs and state DOTs plan, apply, execute, and complete transit projects in their region. Their primary role is to oversee federal funding, provide grant support and program management as well as guidance on environmental, planning and other critical elements of transit projects. The DVRPC region straddles parts of Region II (New York and New Jersey) and Region III (Delaware, Maryland, Pennsylvania, Virginia, West Virginia, and the District of Columbia).

**US Department of Housing and Urban Development** – HUD's mission is to create strong, sustainable, inclusive communities and quality affordable homes for all. HUD is working to strengthen the housing market to bolster the economy and protect consumers; meet the need for quality affordable rental homes; utilize housing as a platform for improving quality of life; build inclusive and sustainable communities free from discrimination, and transform the way HUD does business. The Department is also organized with DVRPC being served by both Region II (New York and New Jersey) and Region III (Delaware, Maryland, Pennsylvania, Virginia, West Virginia, and the District of Columbia).

**State Departments of Environmental Protection (DEPs)** – The Pennsylvania and New Jersey Departments of Environmental Protection have overall responsibility for compliance with the Clean Air Act, including development and adoption of air quality plans known as State Implementation Plans (SIPs). Both agencies rely on DVRPC as the lead planning agency for highway-related control measures for air quality in the metropolitan area. As a result, DVRPC provides transportation data

used in emissions inventories and identifies and analyzes potential air quality strategies. State air quality agencies from all four states in the Philadelphia Ozone Nonattainment Area serve on DVRPC's Regional Air Quality Committee.

***PA Department of Community and Economic Development*** – The mission of DCED is to foster opportunities for businesses to grow and for communities to succeed and thrive in a global economy. The Department seeks to improve the quality of life for Pennsylvania citizens while assuring transparency and accountability in the expenditure of public funds.

***NJ Office of Planning Advocacy*** – The office staffs the New Jersey State Planning Commission and the New Jersey Brownfields Redevelopment Task Force. Through the State Development and Redevelopment Plan, the office works to improve the efficiency and reduce the costs of land development and infrastructure in New Jersey by expanding areas of coordination and cooperation among State and local agencies.

***Delaware River Port Authority*** – DRPA is a regional transportation agency that serves as steward of four bridges that cross the Delaware River between Pennsylvania and New Jersey. Through its Port Authority Transit Corporation (PATCO), the DRPA also operates a transit line between Camden County, New Jersey and Center City Philadelphia. DRPA operates, maintains, improves and protects key transportation infrastructure for the benefit of the region's citizens.

Lastly, there are several other agencies and authorities that have jurisdiction over facilities that make up important components of the region's transportation system. It is important that DVRPC coordinates and shares information on our plans and programs with these organizations so that all stakeholders may make informed transportation investment decisions. Key regional agencies and authorities are also identified below.

***PA Turnpike Commission*** – The PA Turnpike consists of a 552-mile system of highways and bridges that are an integral component of the regional, state-wide, and national ground transportation network that must be maintained, protected and constantly improved. The Turnpike Commission strives to operate a safe, reliable, customer-valued toll road system that supports national mobility and commerce.

***New Jersey Turnpike Authority*** – The Turnpike Authority is dedicated to the safe and efficient movement of people and goods over two of the busiest toll roads in the United States -- the New Jersey Turnpike (148 miles) and the Garden State Parkway (173 miles). The Authority's highways are a critical link in the transportation network of the Northeast I-95 Corridor. Every day, they provide the safest, quickest, and most convenient routes for hundreds of thousands of commuters, truckers, and recreational travelers.

**South Jersey Transportation Authority** – The SJTA was established by the New Jersey Legislature in June 1991 to assume operational responsibilities for the 44-mile long Atlantic City Expressway, Atlantic City International Airport terminal, and parking facilities in Atlantic City. SJTA also operates several shuttles in their region providing access to employment and shopping sites, rail stations, and educational institutions. The SJTA serves six counties --- Atlantic, Camden, Cape May, Cumberland, Gloucester, and Salem.

**Delaware River Joint Toll Bridge Commission** – DRJTBC’s 140-mile jurisdiction extends from the Philadelphia-Bucks County line to the New Jersey/New York state border. In addition to its 20 Delaware River crossings (7 tolled, 13 non-tolled), the Commission owns and operates an additional 34 approach structures (smaller overpass/underpass type bridges) throughout its region. The Commission is committed to moving job commuters, commercial freight carriers, pedestrians and recreationists, it strives to deliver quality customer service, sound fiscal management, and dependable ground-transportation facilities.

**PhilaPort**, also referred to as The Port of Philadelphia, is an independent agency of the Commonwealth of Pennsylvania charged with the management, maintenance, marketing, and promotion of port facilities along the Delaware River in Pennsylvania, as well as strategic planning throughout the port district. PhilaPort works with its terminal operators to improve its facilities and to market those facilities to prospective port users around the world. Port cargoes and the activities they generate are responsible for thousands of direct and indirect jobs in the Philadelphia area and throughout Pennsylvania.

**South Jersey Port Corporation** – The South Jersey Port Corporation was created in 1968 to operate marine shipping terminals in the South Jersey Port District which consists of seven counties: Burlington, Camden, Gloucester, Salem, Cumberland, Mercer and Cape May. The SJPC is a quasi-state agency, which reports through the Department of Treasury to the Governor of New Jersey. The SJPC owns and operates the Joseph A. Balzano and Broadway Marine Terminals in the Port of Camden, the Salem Marine Terminal at the Port of Salem, and is constructing the Paulsboro Marine Terminal at the Port of Paulsboro.

It is the ongoing coordination and history of cooperation among all these organizations that has led to an efficient transportation planning process in this region which continues to result in priority investments aimed at preserving, maintaining, operating, and growing where necessary, a seamless multimodal regional transportation network.

### **DVRPC's Working Committees**

One of the primary roles of DVRPC is to coordinate its planning programs, and those of its member governments, with other organizations and citizens residing in the region. To accomplish this objective, DVRPC facilitates several committees to address the regional issues of transportation,

land use, air quality, housing, airports, goods movement, long range planning, and citizens' concerns. These committees enhance the regional forum provided by the Board and extend it so that all interested and involved parties can discuss and provide direction for policy on regional planning in the Delaware Valley. These working committees include:

**The Regional Technical Committee (RTC)** serves as an advisory unit, reporting directly to the DVRPC Board, in reference to: (1) Transportation Planning initiatives, (2) the development and maintenance of the Transportation Improvement Program, (3) the development of the Long-Range Plan, (4) the development of the Unified Planning Work Program, and (5) all other transportation planning as directed by the Board.

**The Public Participation Task Force (PPTF)** provides access for the public to the regional planning and decision-making process, to review timely issues, and to advise on public outreach strategies. The Task Force is composed of appointed members nominated by the member governments, as well as citizens at large, who are selected through an application process.

**The Delaware Valley Goods Movement Task Force (DVGMTF)** was established to maximize the Delaware Valley's goods movement capability by sharing information and technology between public and private freight interests, promoting the region's intermodal capabilities and capacity, and developing and implementing a regional goods movement strategy. It advises the DVRPC Board on all goods movement issues, studies and projects.

**The Information Resources Exchange Group (IREG)** provides a forum for the exchange of ideas, practices and experiences among regional data managers.

**The Regional Community and Economic Development Forum (RCEDF)** facilitates the various economic development, land use and housing agencies in the region to work together on issues of regional importance, fosters greater cooperation between agencies, strives to coordinate regional transportation and land use planning activities with the needs of the economic development community and advises on the development of the Comprehensive Economic Development Strategy.

**The Regional Aviation Committee (RAC)** provides technical and policy guidance concerning regional airport systems to the states, DVRPC and the Federal Aviation Administration.

**The Regional Safety Task Force (RSTF)** is an interdisciplinary team of safety stakeholders/professionals that offers guidance and direction to the Commission's transportation safety planning program. The focus of the task force is diverse and addresses all users and operators of the transportation network, as well as all modes. The Task Force provides valuable input in the development of the Regional Transportation Safety Action Plan.

**The Transportation Operations Task Force (TOTF)** is the focal point of regional ITS and operations coordination. The Task Force is a forum for agencies to share information on ITS deployments, develop a consensus on regional operations issues, and respond to federal and state initiatives. It has the ability to establish subcommittees to tackle specific issues as they arise. As a technical-level group, it informs DVRPC's ITS and Transportation Systems Management and Operations planning activities that in turn support the Task Force.

**The Central Jersey Transportation Forum (CJTF)** has been meeting since 1999 to address concerns of municipalities in Mercer, Middlesex, and Somerset counties focused on the US 1 corridor. High-level representatives from twenty-five municipalities, three counties, and numerous state agencies and other organizations meet to coordinate and to discuss transportation and land use issues and implement solutions.

**The Urban Waterfront Action Group (UWAG)** was created in 1980 through the PA Coastal Zone Management (CZM) Program to provide "one-stop" shopping for information about waterfront development permits in the Delaware Estuary in Pennsylvania.

**The Healthy Communities Task Force** was first convened in 2014 to bring together public health, planning, and related professionals in the Greater Philadelphia area. The Task Force provides a venue for people interested in fostering healthy communities to learn about other communities, both near and far, that are successfully integrating planning and public health including active transportation. It serves as a way for professionals in these fields and stakeholders in our communities to deepen their understanding of healthy communities and build the relationships to achieve them.

**The Futures Group** provides subject matter experts a forum to use exploratory scenario planning to understand how various forces (social, technological, environmental, economic, or political) are shaping the region; and to identify ways to better respond to, or benefit from, those forces.

## **UPWP Program Areas**

This Planning Work Program continues the reorganized structure begun in FY 2008 which consolidated many related projects into program areas. Some initiatives remain as stand-alone projects due to special circumstances. Each Program Area's concept allows various tasks and initiatives to be emphasized from year to year at the DVRPC Board's direction. Tasks and activities identified within the Program Areas seek to address the planning priorities facing the region. Samples of the key products to be undertaken within the Program Areas, during FY 2022, are highlighted in the Program Area descriptions below. Successful completion of these planning activities within these Program Areas and Projects may require the purchase of equipment or services.



## **Regional Forum**

This project ensures continued intergovernmental and policy coordination, as well as administrative oversight by the DVRPC Board and its Committees, through the provision of secretariat and management services. Through the Board Policy Committee, identification, monitoring and formulation of policy analyses for issues of regional significance is undertaken. Staff activities include researching and monitoring key issues, review of pertinent federal and state legislation or policy guidance, technical assistance and drafting proposed position statements or comment letters for consideration by the Policy Committee and the Board.

*Key Products: agendas and minutes of Board and Executive Committee meetings*

## **Work Program Administration**

Preparation of the Unified Planning Work Program includes undertaking significant outreach to member governments and other stakeholders to gather input on the region's planning priorities, refining existing and developing new scopes of work for the selected planning projects that will be conducted in the next fiscal year, and identifying/securing the required funding to support DVRPC and member government staff to undertake the regional planning process.

*Key Products: FY 2023 Unified Planning Work Program.*

## **Public Participation, Involvement, and Outreach**

DVRPC is committed to reaching audiences both familiar and unfamiliar with the regional planning process. This program supports DVRPC's responsibilities related to legal and public noticing, public information requests, and maintaining the Commission's website and social media platforms. This program also supports project-specific public outreach and meeting facilitation, and agency-wide earned media, government relations, and public affairs. DVRPC's current ongoing forum for public involvement is the Public Participation Task Force (PPTF). The mission of the PPTF is to provide ongoing access to the regional planning and decision-making process, to review timely issues, to serve as a conduit for DVRPC information to organizations and communities across the region, and to assist the Commission in implementing public outreach strategies.

*Key Products: DVRPC FY2021 Annual Report, Monthly e-Newsletter, and agendas and meeting documentation for the Public Participation Task Force.*

## **Title VI and Environmental Justice**

The Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) have had a longstanding policy of actively ensuring nondiscrimination in federally funded activities under Title VI of the 1964 Civil Rights Act and the 1994 President's Executive Order on Environmental Justice. Civil Rights and environmental justice issues are an integral focus of the transportation planning and programming process. This commitment is reflected in DVRPC's Work Program, products, communications, public involvement efforts, and general operations.

*Key Product: Refined and Updated Indicators of Potential Disadvantage Compliance Tool, ongoing evaluation of Commission's efforts, and updated Title VI Compliance Plan and associated policies.*

### **Data Visualization and Communication**

This effort will provide information and data to the public and decision-makers that is clearly understood and used, by applying graphic design and visualization techniques that explain and enhance the technical analyses and that presents materials in an attractive and accessible format.

*Key Products: campaigns, publication design, graphic resources for staff, ads, web application design, and graphic review for all DVRPC products*

### **Web Development and Database Management**

This project will ensure the DVRPC's website is constantly up-to-date and accessible. Accessing current, reliable, and relevant data is critical to planners and decision-makers. Web applications developed by DVRPC staff provide data visualizations and analyses not possible with traditional print products. As the region's MPO, DVRPC, through our website, provides an immense amount of information and offers a wide variety of products and services.

*Key Products: interactive data and GIS mapping applications, and online content for the DVRPC website*

### **Data Coordination and Analysis**

This program supports new and ongoing internal and external data coordination activities. DVRPC will continue to strengthen relationships with its planning partners such as the state DOTs and transit agencies in an effort to streamline data sharing workflows as well as improve general information and knowledge sharing about agency datasets. Along with Census products like the American Community Survey (ACS) and the Census Transportation Planning Package (CTPP), this program also includes reviewing and assessing other public and private data sources. Internal coordination efforts aim to: improve communication among staff; identify and support staff stewards of planning data to improve data development, maintenance, and sharing activities; and improve data discovery and dissemination. Additional program tasks include maintaining DVRPC's regional online information data tools; coordinating with the Census Bureau; and administering the Commission's Information Resources Exchange Group (IREG).

*Key Product: Data Search Tool*

### **Socio-economic and Land Use Analytics**

The Socioeconomic and Land Use Analytics program area includes new and ongoing data analysis in support of the long-range plan and other commission efforts by collecting and assessing data, identifying its importance and relevance, and disseminating the results of that research through reports, web applications, presentations, and other means. This program area supports the Office of Long-Range Planning's forecasting and scenario planning efforts, and the use of indicators to track progress on the vision and goals set in the region's long-range plan.

*Key Product: Tracking Progress indicators*

## **Geographic Information Systems**

A Geographic Information System (GIS) is an important planning tool that provides benefits to DVRPC, its member agencies, and others by supporting state, regional, county, and local planning and technical projects. GIS is the integration of hardware, software, and data used to collect, store, analyze and display spatially referenced information. GIS allows planners to view and query spatial data and perform advanced analysis to discover relationships, patterns, and trends that support their planning activities. Visualizing information is an integral part of nearly every project, and GIS is highly utilized to create maps necessary for meetings and reports. Improving the accessibility of spatial data is critical to the continued success of GIS and tasks under this program will be coordinated with the Data Coordination and Analysis, Data Visualization and Communication, as well as Web Development and Database Management programs.

*Key Products: Updated and new web mapping applications*

## **Smart Growth**

The Smart Growth work program is designed to support communities across the region as they coordinate land use and transportation planning. Through this program, DVRPC strives to advocate and promote support for smart growth principles that can enhance sustainability, housing and transportation choice, community resiliency, urban revitalization, economic development, and public health.

*Key Products: Smart Growth Project Database development examples and implementation techniques, Housing Needs Analysis*

## **Community and Economic Development**

This program develops local and regional economic and community development strategies for the region through the Comprehensive Economic Development Strategy (CEDS) planning process by convening meetings with economic development and municipal stakeholders, facilitating a municipal grant program (TCDI), developing revitalization strategies through retail and land use analysis, and advancing equity and opportunity for all across the region.

*Key Products: TCDI and CEDS related analyses*

## **Energy and Climate Change Initiatives**

This program focuses the attention of local governments on developing policies and actions for reducing energy use and associated greenhouse gas emissions and adapting to predicted climate change impacts by providing leadership, coordination, and technical assistance on these issues.

*Key Products: Region-wide support for municipal and county fleet electrification, Outreach on mitigating extreme heat impacts, Climate Adaptation Forum*

## **Environmental Planning**

This program promotes healthy ecological systems, protection of water quality, active transportation, climate change resiliency and the creation of livable communities. More

specifically, the program: 1) identifies and highlights key resources such as Connection 2045's planned Greenspace Network and Conservation Focus Areas, agricultural lands, and waterways, and works to protect them by developing and employing strategic planning tools at regional and municipal scales; 2) plans, funds, and develops a connected network of facilities for bicyclists and pedestrians with a focus on the Circuit Trails; and 3) engages partners to identify and develop targeted management practices and policy approaches for increasing resiliency to the impacts of climate change.

*Key Products: Comprehensive Trail Inventories and Maps for New Jersey and Pennsylvania, Woolwich Township Farmland Preservation Plan*

### **Long-Range Planning**

The Long-Range Plan Program Area works with the public and stakeholders to identify a vision to guide growth and development as well as regional transportation investments in the region and identifies strategies to implement the vision. The program ensures that the region's transportation investments are linked to long-range land use, environmental protection, economic development, and transportation goals, while providing guidance and a policy framework for numerous other DVRPC programs. The current Long-Range Plan, *Connections 2045*, was adopted in October 2017.

*Key Product: Connections 2050 Long-Range Plan Policy Manual and Process Manual*

### **Freight and Aviation Planning**

This program is intended to maximize the Delaware Valley's position in the global economy by promoting cooperation within the local freight and aviation communities and implementing regional strategies in accordance with State DOT and FAST Act guidance. This program will allow staff to continue to maintain and update Philly Freight Finder, enhance aviation planning products, and pursue local technical studies that improve considerations of the economic and transportation impacts of freight and aviation.

*Key Product: Future Impacts of e-Commerce in Greater Philadelphia*

### **Transportation Safety**

This program supports the goals of DVRPC's Long-Range Plan, Regional Safety Analysis and Plan, and the DOTs' Strategic Highway Safety Plan. It incorporates the transportation safety Planning Factor, as required by federal metropolitan planning regulations, into the transportation planning process, and seeks to improve the safety of the region's transportation system, while maintaining acceptable levels of accessibility and efficiency. The program addresses transportation safety from a multipronged approach in which coordination and outreach are important factors.

*Key Product: City of Trenton Vision Zero Action Plan*

### **Regional Congestion Management Process**

The CMP is a systematic process for managing congestion in the DVRPC region. It analyzes the multimodal transportation system, identifies and prioritizes congested corridors, and results in agreed-upon strategies for each congested sub-corridor at a regional planning level. The CMP

strengthens the connection between the Long-Range Plan, TIP, and other projects. It includes work with DOT, transit agencies, and county project managers and others to help make transportation investments more effective. Staff completed the most recent update of the CMP in January 2020. *Key Product: CMP Supplemental Project Status Memorandum and web site.*

### **Air Quality Planning**

The Air Quality Planning Program Area improves air quality in the region through coordination of intra- and interregional policies, public education and demonstration of transportation conformity of the region's Long-Range Plan and transportation improvement programs.

*Key Product: Transportation Air Quality Conformity Demonstration Report*

### **Technical Assistance to Member Governments**

This Program Area ensures intergovernmental coordination, technical evaluation, and regional policy formulation on transportation issues, projects, and plans through monthly meetings of the Regional Technical Committee (including meeting minutes and pertinent presentations, research and technical assistance activities). Special short-term studies and quick data collection activities are also included.

*Key Products: successful monthly meetings of the Regional Technical Committee including the documentation of agendas and minutes*

### **Transportation Improvement Program (TIP)**

This program area provides for transportation financial planning, project development, and capital programming for the DVRPC region. Staff works with state, regional, and federal planning partners to identify financial resources available from public and private sources to implement the Transportation Improvement Program as well as the Long-Range Plan. Serving as the facilitator for the region's stakeholders, DVRPC both develops and maintains a regional Transportation Improvement Program for Pennsylvania and New Jersey, as mandated by federal regulations; identifies, evaluates, and selects transportation projects that address the needs of the region and advance the goals of the Long-Range Plan; documents modifications to the program; and provides information and documents related to those processes, funding, and capital programming issues. This information will be provided to stakeholders and the public via meeting materials and postings on the DVRPC website. DVRPC will undertake an extensive public participation program that responds to the requirements of FAST Act and environmental justice concerns, as it relates to this program. Coordination with DOT program development and project development and delivery including PennDOT Connects in Pennsylvania and Local Concept Development in New Jersey will also occur. DVRPC staff along with significant input from our stakeholders developed, and our Board adopted, a TIP for PA in July of 2020. Also, in FY21, a similar process was undertaken for the development of a NJ TIP which is expected to be adopted in Fall of 2021.

*Key Products: development of a new TIP for NJ and an updated and maintained TIP for PA*

## **Transportation Operations**

Transportation Operations is one of the transportation planning factors mandated by federal metropolitan planning regulations. It represents a broad array of short-term improvement strategies employing training, technology, and interagency coordination that will address recurring and non-recurring congestion via a variety of approaches including traffic incident management and upgraded signal re-timing.

*Key Product: continued best-practice trainings via eight traffic Incident Management Task Forces and updated traffic signal retiming implemented along selected corridors*

## **Performance Based Planning and Asset Management**

Performance-based planning was one of the most transformative elements of the MAP-21 federal transportation legislation, which was reinforced in the FAST Act. This strategic approach sets targets for transportation system condition and performance, and uses real data to measure if these targets are being met. This process then informs investment decisions in order to enhance infrastructure and operations. US Department of Transportation (USDOT) has implemented new regulations related to Transportation Performance Management (TPM) through the Federal Rulemaking process. Within this Program Area, DVRPC will work closely with our state DOT's, and transit operators to address the transportation performance management requirements by coordinating on and setting performance measure targets.

*Key Product: continued coordination with planning partners to address US DOT Transportation Performance Management requirements and TPM webpage that reports current targets and transportation system and infrastructure performance relative to them.*

## **Competitive Program and Project Management**

This Program Area enables DVRPC staff to assist the state DOTs with the implementation of traditional and nontraditional projects by serving as adjunct project managers as well as running competitive grant programs with the state DOTs. The FAST Act includes funding for nontraditional transportation projects such as multiuse trails, streetscapes, historic restorations, alternative fueled vehicles, travel demand management, local highway and bridge projects, as well as projects that contribute to the attainment of the Clean Air Act by reducing emissions from highway sources. Three categories of federal funding that provide broad eligibility for these nontraditional and local transportation projects are: Transportation Alternatives, Congestion Mitigation and Air Quality and the Surface Transportation Program. Capital Program funds are also provided to the counties through the Local Concept Development Program in New Jersey.

*Key Product: successful completion of competitive project selection program and management of selected projects*

## **Travel and Land Use Modeling**

The Travel and Land Use Modeling work program element is intended to develop, enhance, maintain, and apply DVRPC's Land Use, Travel Demand, and Air Quality Models in support of a wide

variety of planning activities. Short and long-range regional, corridor, and facility planning studies require accurate socioeconomic, land use, and travel forecasts. Certification of the regional plan and planning process require up to date models that address federal regulations. The models that produce these projections and perform these analyses need to be validated and calibrated with current data. Furthermore, refinement and revalidation of DVRPC's land use, travel simulation, and mobile source emissions models are needed on a continuing basis to maintain the accuracy and credibility of forecasts and to respond to new mandates and guidance from the federal government, state agencies, and member governments. In addition to the studies performed by DVRPC, staff will also provide support and assistance under this program to DVRPC's consultants as they upgrade DVRPC's Freight models and related software.

*Key Product: updated freight model and travel demand model validation data*

### **Regional Transit Planning Program**

This program supports the conduct of transit planning studies, with project selections guided by our planning partners. Work includes evaluations of proposed services or facilities, corridor level transit analysis, evaluations of enhancements to transit access, studies to improve bicycle and pedestrian connectivity with transit, and examinations of the relationship between land use and transit for specific sites or corridors.

*Key Product: Ongoing support of SEPTA's Trolley Modernization Program*

### **Bicycle & Pedestrian Planning Program**

This program promotes transportation facilities and land use decisions that support active modes of transportation to make walking and biking more safe, convenient, affordable, and attractive transportation options throughout the region. Projects emphasize stakeholder outreach, the development and sharing of new data resources using bicycle and pedestrian counters, and the conduct of analysis to develop appropriate, safe, and context-sensitive bicycle and pedestrian facilities and "complete streets" in communities throughout the DVRPC region. This work includes an emphasis on bicycle and pedestrian policy, design and infrastructure that increases personal health, as well as the health of the environment and economic characteristics in the region.

*Key Product: Pedestrian and bicyclist counts for cyclical counting programs, before/after bicycle and pedestrian infrastructure projects, and planning project analysis.*

### **Mobility Analysis and Design**

This program seeks to balance the accessibility, efficiency, and safety of the existing transportation network for all modes. Work under this program draws on current best practices in transportation analysis and design, as well as stakeholder and public engagement, to identify context appropriate strategies to address transportation challenges. The process is designed to better inform regional transportation and land use decision making.

*Key Product: concept development for potential bicycle improvements on Mercer County's resurfacing program.*

## **Regional Transportation Demand Management Program**

This program supports development and oversight of regional Transportation Demand Management (TDM) Initiatives. This includes traditional TDM activities with demonstrated single-occupant vehicle (SOV) trip reduction benefit as well as pilots or experiments for new TDM projects and tools to manage demand and create and cultivate new mobility options for residents and workers.

*Key Product: TDM initiatives oversight and implementation of at least one additional pilot program.*

## **Travel Monitoring**

Under this Program Area, travel data is collected and processed. The primary form being traffic counts, including hourly and 48-hour traffic volumes, for selected locations on the regional highway network. Data collected will provide input to vehicle miles travelled (VMT) forecasting, the Traffic Monitoring System (TMS), the Congestion Management Process (CMP), travel simulation models, individual project level analysis and traffic monitoring and trend analysis. This information is vital to all project studies that address highway deficiencies and proposed solutions. The types of data collected have recently been enhanced to include the monitoring of selected bicycle and pedestrian movements. In addition, DVRPC facilitates the periodic review and revision of the region's highway functional classification system.

*Key Product: collection of approximately 3,000 new vehicle, bicycle, and pedestrian counts and upload those counts into DVRPC's web-based traffic count viewers*

## **UPWP Linkages**

The FY 2022 Unified Planning Work Program serves as an important implementation tool to achieve the directives of the FAST Act. In an effort to highlight the connection between the individual Program Areas in the Unified Planning Work Program and the ten Planning Factors stipulated in the FAST Act, a matrix was developed that shows that linkage (Table 3). Both primary and peripheral associations between the Program Areas and the Planning Factors are shown. As DVRPC develops future work programs, we will continue to strive to meet the key principles of the surface transportation act current at that time.

In addition to addressing the federal legislative requirements, the UPWP serves as an important implementation tool to achieve the future land use and transportation development vision that is set forth in the region's Long-Range Plan. The five key principles of the Long-Range Plan serve as a framework for many of the projects and programs undertaken by DVRPC. In an effort to highlight the connection between the individual Program Areas of the UPWP and the Long-Range Plan, a matrix was developed that shows the linkage between these two core documents (Table 4). Both primary and peripheral associations between the Program Areas and the five key principles of the Long-Range Plan are shown.



Another key function of the UPWP is its ability to identify and prioritize the tasks that DVRPC will be working on and designate the appropriate resources to undertake and complete those required tasks within the assigned timelines. Table 5 identifies the required Plans/Programs or Activities that DVRPC will undertake as part of the regional planning process and their assigned completion and update cycles.

**Table 3: FAST Act Planning Factors**

	1. Economic Vitality	2. Safety	3. Security	4. Accessibility and Mobility	5. Environment and Energy	6. Integration and Connectivity	7. Efficient System Management/ Operations	8. System Preservation	9. Resiliency and Reliability	10. Travel and Tourism
<b>DVRPC Program Areas</b>										
Regional Forum										
Work Program and Contract Administration										
Public Participation, Involvement, and Outreach										
Title VI and Environmental Justice										
Data Visualization and Communication										
Web Development and Database Management										
Geographic Information Systems										
Smart Growth										
Community and Economic Development										
Energy and Climate Change Initiatives										
Environmental Planning										
Long-Range Planning										
Freight and Aviation Planning										
Transportation Safety										
Congestion Management Programs										
Air Quality Planning										
Data Coordination and Analysis										
Technical Assistance to Member Governments										
Transportation Improvement Program (TIP)										
Transportation Operations										
Performance-Based Planning and Asset Management										
Competitive Program and Project Management										
Travel and Land Use Modeling										
Regional Transit Planning Program										
Bicycle and Pedestrian Planning Program										
Mobility Analysis and Design										
Regional Transportation Demand Management (TDM) Program										
Travel Monitoring										
Socio-economic and Land Use Analytics										

● Primary Association | ● Secondary Association | ○ N/A

**Table 4: Long Range Plan Key Principles**

<b>DVRPC Program Areas</b>	<b>Develop Livable Communities</b>	<b>Sustain the Environment</b>	<b>Expand the Economy</b>	<b>Advance Equity and Foster Diversity</b>	<b>Create an Integrated Multimodal Transportation Network</b>
Regional Forum					
Work Program and Contract Administration					
Public Participation, Involvement and Outreach					
Title VI and Environmental Justice					
Data Visualization and Communication					
Web Development and Database Management					
Geographic Information Systems					
Smart Growth					
Community and Economic Development					
Energy and Climate Change Initiatives					
Environmental Planning					
Long-Range Planning					
Freight and Aviation Planning					
Transportation Safety					
Congestion Management Process					
Air Quality Planning					
Data Coordination and Analysis					
Technical Assistance to Member Governments					
Transportation Improvement Program (TIP)					
Transportation Operations					
Performance-Based Planning and Asset Management					
Competitive Program and Project Management					
Travel and Land Use Modeling					
Regional Transit Planning Program					
Bicycle and Pedestrian Planning Program					
Regional Transportation Demand Management (TDM) Program					
Mobility Analysis and Design					
Travel Monitoring					
Socio-economic and Land Use Analytics					

● Primary Association | ● Secondary Association | ○ N/A

**Table 5: MPO Regional Planning Process Requirement Milestones**

<b>Plan/Program/Activity</b>	<b>Current Adoption/Completion</b>	<b>Next Adoption/Completion</b>
Unified Planning Work Program	January 2021	January 2022
Transportation Improvement Program	July 2020 (PA) September 2019 (NJ)	July 2022 (PA) September 2021 (NJ)
Air Quality Transportation Conformity Determination	July 2020	September 2021
Long-Range Plan	October 2017	September 2021
Title VI Compliance Plan	March 2014	Summer 2021
Public Participation Plan	July 2018	As needed – evaluated annually
Limited English Proficiency Plan	April 2019	April 2024 – evaluated annually
Congestion Management Process	January 2020	January 2024
Transportation Safety Analysis and Plan	January 2019	Spring 2021
Coordinated Human Services Transportation Plan	October 2020	October 2024
CMAQ Performance Plan	September 2020 (interim)	September 2022
US DOT MPO Planning Process Certification Review	October 2018 (site visit) February 2019 (final report)	October 2022 (site visit) February 2023 (final report)