

Amendment to
Mapping the Future: The Southwestern PA Plan to Reflect Project Phasing and
Cost Information Included in the 2017-2020 Transportation Improvement Program
for Southwestern Pennsylvania

The four-year program of transportation improvements identified in the *2017-2020 Transportation Improvement Program for Southwestern Pennsylvania* (2017-2020 TIP) represents the first phase in the implementation of the Regional Vision outlined in the regional long range transportation plan (LRP), *Mapping the Future: The Southwestern PA Plan*.

As modifications are made to update the regional TIP, there is a need to maintain consistency between the TIP and the first four years of the LRP. In moving from the 2015-2018 TIP to the 2017-2020 TIP, projects have advanced, and revenue changes have been identified. It is therefore necessary to incorporate these changes into the *Mapping the Future*.

The project lists identified in Chapter 8 of *Mapping the Future* are not amended to add or delete any identified projects, but have been updated to reflect new costs and schedules for projects included in the 2017-2020 TIP. Revised LRP funding levels may also be observed in the reserve line items appearing in the project tables.

Mapping the Future was adopted in June 2015. Federal and state fiscal projections for *Mapping the Future* were based on Pennsylvania's 2015 Transportation Program Financial Guidance and used to establish the 2015-2018 Transportation Improvement Program (TIP). As part of development of the 2017-2020 TIP, 2017 Transportation Program Financial Guidance was issued in October 2016. This financial guidance assumed no significant change in funding at the federal level, but reflected revised projections for state revenues from Act 89, including increasing contributions from the motor license fund to the Pennsylvania State Police. Following passage of the federal FAST Act, revised financial guidance was issued in December 2016. The June 2016 plan amendment associated with adoption of the 2017-2020 TIP reflects new long-range fiscal projections based on this revised statewide financial guidance.

These revised tables are reproduced in the remainder of this report for information purposes.

Transportation Investment Plan Revenue Summary

Fiscal Category	Short-term 2017-2020	Mid-Term 2021-2028	Long-term 2029-2040	Total 2017-2040
Highway Program				
Federal NHPP	519,326,000	1,195,847,225	2,189,454,770	3,904,627,996
Federal STP	302,923,000	689,505,781	1,262,403,498	2,254,832,279
Federal Bridge Off-System	73,396,000	160,638,677	294,110,410	528,145,087
Federal CMAQ	75,436,000	171,223,023	313,489,095	560,148,118
Federal HSIP	43,239,000	99,627,672	182,406,478	325,273,150
Federal TAP	7,217,000	15,872,141	29,060,013	52,149,154
State Highway	400,107,000	768,061,062	1,406,228,923	2,574,396,984
State Bridge	200,918,000	379,171,712	694,218,539	1,274,308,251
Local Sponsor Matching Funds	52,725,087	132,929,937	243,378,985	429,034,009
Subtotal - Highway Program	1,675,287,087	3,612,877,229	6,614,750,711	11,902,915,027
Transit Program				
Fed Transit Formula Funds	264,934,516	541,972,782	992,288,035	1,799,195,334
Federal Transit Flex	24,688,000	49,376,000	63,308,935	142,030,502
State/Local/Other - Transit Operations	1,644,199,312	3,572,674,180	4,185,957,219	9,402,830,711
Subtotal - Transit Program	1,933,821,828	4,164,022,963	5,241,554,189	11,344,056,547
Spike Programs				
Federal Discretionary NHPP	7,500,000	501,411,765	587,483,798	1,426,937,377
Federal Discretionary STP	60,000,000	76,782,361	89,962,774	277,361,779
State Discretionary	9,000,000	259,582,916	304,142,759	743,848,520
Subtotal - Spike Programs	76,500,000	837,777,042	981,589,331	2,448,147,676
Other Discretionary Programs				
Federal Earmarks	1,819,352	0	0	1,819,352
PTC Toll Road Expansion	673,517,000	0	0	673,517,000
Local/Private	99,250,000	0	0	99,250,000
Total - Other Discretionary	774,586,352	0	0	774,586,352
Grand Total for SPC TIP/LRP	4,460,195,267	8,614,677,234	12,837,894,231	26,469,705,602

Figure 8.4 Capital Maintenance (Roadway) Projects

Project Name	County	Short-Term 2017-2020	Mid-Term 2021-2028	Long-Term 2029-2040	Total 2017-2040
Liberty Tunnel Phase 5 Rehabilitation	Allegheny	\$24,100,000			\$24,100,000
SR 28 Resurfacing and Bridge Preservation	Allegheny	\$22,400,000			\$22,400,000
SR 51 Road Resurfacing	Allegheny	\$1,000,000			\$1,000,000
SR 837 Reconstruction	Allegheny	\$16,200,000			\$16,200,000
Streets Run Road Reconstruction	Allegheny		\$15,000,000		\$15,000,000
City of Pittsburgh CBD Street Reconstruction	Allegheny	\$4,950,000	\$10,350,000	\$14,400,000	\$29,700,000
SR 28 Reconstruction	Allegheny	\$13,560,000	\$5,200,000		\$18,760,000
Smallman Street Reconstruction	Allegheny			\$9,300,000	\$9,300,000
Brush Creek Road Reconstruction	Allegheny			\$9,600,000	\$9,600,000
SR 66 Resurfacing	Armstrong		\$3,230,000		\$3,230,000
SR 28 Hays Run Road Improvements	Armstrong		\$20,890,300		\$20,890,300
SR 65 Reconstruction	Beaver		\$20,000,000		\$20,000,000
SR 3015 Mars-Evans City Road Resurfacing	Butler		\$2,688,984		\$2,688,984
SR 8 Resurfacing	Butler		\$3,660,000		\$3,660,000
SR 58 Resurfacing	Butler		\$4,490,000		\$4,490,000
US 40 Resurfacing	Fayette		\$4,710,000		\$4,710,000
SR 18 Resurfacing	Greene	\$7,500,000	\$2,000,000		\$9,500,000
SR 2003 Resurfacing	Greene	\$4,300,000	\$4,700,000		\$9,000,000
US 954 Resurfacing	Indiana		\$3,432,680		\$3,432,680
US 119 Resurfacing	Indiana	\$400,000	\$4,000,000		\$4,400,000
SR 286 Reconstruction	Indiana	\$13,329,600			\$13,329,600
US 22 Armagh Bypass Reconstruction	Indiana	\$2,294,800	\$29,005,200		\$31,300,000
SR 168 Third Street Reconstruction	Lawrence		\$14,300,000		\$14,300,000
SR 18 Reconstruction	Lawrence		\$15,600,000		\$15,600,000
SR 422 Reconstruction	Lawrence			\$25,000,000	\$25,000,000
SR 50 Resurfacing	Washington		\$6,330,000		\$6,330,000
SR 3029 Resurfacing	Washington		\$8,760,000		\$8,760,000
US119:County Line to Crossover Rd	Westmoreland	\$23,700,000			\$23,700,000
SR 981at Kennametal Improvements	Westmoreland	\$3,600,000			\$3,600,000
US 30 Resurfacing	Westmoreland	\$4,000,000	\$5,600,000		\$9,600,000

Figure 8.4 Capital Maintenance (Roadway) Projects, cont.

Project Name	County	Short-Term 2017-2020	Mid-Term 2021-2028	Long-Term 2029-2040	Total 2017-2040
Capital Maintenance Roadways Line Item	Allegheny, Beaver, Lawrence		\$603,737,677	\$1,077,789,688	\$1,681,527,364
Capital Maintenance Roadways Line Item	Armstrong, Butler, Indiana		\$136,899,571	\$434,909,474	\$571,809,045
Capital Maintenance Roadways Line Item	Fayette, Greene, Washington, Westmoreland		\$356,458,642	\$718,025,818	\$1,074,484,461

Figure 8.5 Capital Maintenance (Bridge) Projects

Project Name	County	Short-Term 2017-2020	Mid-Term 2021-2028	Long-Term 2029-2040	Total 2017-2040
Liberty Bridge Preservation	Allegheny				\$0
10th Street Bridge Rehabilitation	Allegheny	\$20,000,000			\$20,000,000
Glenwood Bridge Ramps Rehabilitation	Allegheny				\$0
Elizabeth Bridge Rehabilitation	Allegheny				\$0
9th Street Bridge Rehabilitation	Allegheny	\$21,000,000			\$21,000,000
Greenfield Avenue Bridge Replacement	Allegheny				\$0
Swinburne Street Bridge Rehabilitation	Allegheny	\$1,450,000			\$1,450,000
28th Street Bridge Rehabilitation	Allegheny	\$800,000	\$6,000,000		\$6,800,000
Talbot Avenue Ramp Bridge Rehabilitation	Allegheny	\$2,700,000	\$3,300,000		\$6,000,000
6th Street Bridge Rehabilitation	Allegheny	\$2,300,000	\$23,700,000		\$26,000,000
McKeesport-Duquesne Bridge Preservation	Allegheny	\$12,400,000	\$6,200,000		\$18,600,000
New Kensington Bridge Rehabilitation	Allegheny	\$4,500,000			\$4,500,000
SR 4017 over Pine Creek Bridge Rehabilitation/Replacement	Allegheny	\$2,200,000			\$2,200,000
Sutersville Bridge Preservation	Allegheny	\$4,400,000			\$4,400,000
Charles Anderson Bridge Rehabilitation	Allegheny	\$5,650,000			\$5,650,000
Jerome Street Bridge Rehabilitation	Allegheny	\$6,773,250			\$6,773,250
SR 366 Tarentum Bridge Preservation	Allegheny	\$16,768,250			\$16,768,250
Armstrong Tunnel Rehabilitation	Allegheny	\$5,812,000			\$5,812,000
Dookers Hollow Bridge Replacement	Allegheny	\$14,500,000			\$14,500,000
Nike Site Bridge Rehabilitation	Allegheny		\$10,000,000		\$10,000,000
Swindell Bridge Rehabilitation	Allegheny		\$11,000,000	\$11,000,000	\$22,000,000
Mission Street West Bridge Preservation	Allegheny		\$12,000,000		\$12,000,000
Boulevard of the Allies Ramps Bridge Preservation	Allegheny	\$3,500,000	\$10,500,000		\$14,000,000
McKees Rocks Bridge Rehabilitation	Allegheny	\$1,500,000	\$13,500,000		\$15,000,000
Forbes Avenue/Fern Hollow Bridge Rehabilitation	Allegheny		\$15,000,000		\$15,000,000
Larimer Avenue Bridge Preservation	Allegheny		\$20,000,000		\$20,000,000
Ivory Avenue Bridge Rehabilitation	Allegheny			\$4,000,000	\$4,000,000
Patton Street Bridge Rehabilitation	Allegheny			\$8,000,000	\$8,000,000
SR 28 Northbound Bridge Preservation	Allegheny			\$12,000,000	\$12,000,000
9-Mile Run Bridge and Connector	Allegheny			\$12,200,000	\$12,200,000
62nd Street Bridge Preservation	Allegheny			\$18,000,000	\$18,000,000

Figure 8.5 Capital Maintenance (Bridge) Projects, cont.

Project Name	County	Short-Term 2017-2020	Mid-Term 2021-2028	Long-Term 2029-2040	Total 2017-2040
16th Street Bridge Rehabilitation	Allegheny			\$20,000,000	\$20,000,000
West End Bridge Preservation	Allegheny			\$24,000,000	\$24,000,000
Homestead Grays Bridge Rehabilitation	Allegheny			\$50,000,000	\$50,000,000
Koppel Bridge Replacement	Beaver	\$32,500,000			\$32,500,000
Dutch Ridge Road Bridge Replacement	Beaver	\$6,350,000			\$6,350,000
Bradys Run Road Bridge Rehabilitation/Replacement	Beaver	\$2,700,000			\$2,700,000
SR 528 Bridge Reconstruction	Butler		\$21,500,000		\$21,500,000
Cast Iron Bridge Rehabilitation	Fayette	\$1,200,000	\$6,800,000		\$8,000,000
SR 711 Crawford Ave Bridge Replacement	Fayette	\$4,845,000	\$13,155,000		\$18,000,000
Layton Bridge Rehabilitation	Fayette	\$4,800,000	\$15,200,000		\$20,000,000
SR 88 Bridge Replacement	Greene	\$760,500	\$4,584,093		\$5,344,593
Home Railroad Bridge Replacement	Indiana	\$621,824			\$621,824
US 119 Homer City Group Bridges Rehabilitation	Indiana		\$25,538,000		\$25,538,000
Mahoning Viaduct Rehabilitation	Lawrence	\$3,250,000			\$3,250,000
SR 422 Eastbound Bridge Replacement	Lawrence			\$7,500,000	\$7,500,000
Belle Vernon Bridge Perseveration	Washington				\$0
I-70 Bridge Replacement	Washington		\$14,230,000		\$14,230,000
Old Brownsville Bridge Rehabilitation	Washington			\$22,810,000	\$22,810,000
Derry Borough Bridge Replacement	Westmoreland				\$0
SR 366 Bridge Replacement	Westmoreland	\$4,970,000	\$10,000,000		\$14,970,000
Salina Bridge Rehabilitation	Westmoreland	\$3,200,000	\$13,070,000		\$16,270,000
West Newton Bridge Rehabilitation/Replacement	Westmoreland	\$1,000,000	\$9,660,000		\$10,660,000
Capital Maintenance Bridge Line Item*	Allegheny, Beaver, Lawrence		\$474,365,317	\$994,882,789	\$1,469,248,106
Off System Bridge Line Item	Allegheny, Beaver, Lawrence		\$64,498,595	\$159,831,360	\$224,329,955
Capital Maintenance Bridge Line Item*	Armstrong, Butler, Indiana		\$181,471,524	\$434,909,474	\$616,380,998
Off System Bridge Line Item	Armstrong, Butler, Indiana		\$34,897,824	\$48,741,861	\$83,639,685
Capital Maintenance Bridge Line Item*	Fayette, Greene, Washington, Westmoreland		\$291,647,980	\$689,867,943	\$981,515,923
Off System Bridge Line Item	Fayette, Greene, Washington, Westmoreland		\$61,242,259	\$85,537,188	\$146,779,447

Figure 8.8 Traffic Operations, Safety & System Reliability Projects

Project Name	County	Short-Term 2017-2020	Mid-Term 2021-2028	Long-Term 2029-2040	Total 2017-2040
I-376 Pkwy East Corridor Safety and Congestion Improvements	Allegheny	\$4,080,000	\$35,359,791		\$39,439,791
Beaver Avenue Conversion/Access	Allegheny		\$3,500,000		\$3,500,000
Duncan Avenue / Thompson Run Road / Ferguson Road Intersection Improvements	Allegheny		\$5,000,000		\$5,000,000
Corrigan Drive Upgrade/Road Diet	Allegheny		\$6,000,000		\$6,000,000
Penn Circle Conversion	Allegheny	\$2,500,000	\$4,500,000		\$7,000,000
I-79 & SR 910 Interchange Improvements	Allegheny		\$14,000,000		\$14,000,000
City of Pittsburgh Traffic Signal System Upgrades	Allegheny	\$5,500,000	\$8,900,000	\$41,520,000	\$55,920,000
Painters Run Road Widening	Allegheny		\$23,000,000		\$23,000,000
SR 50 Lane Widening and Signal Upgrades	Allegheny		\$24,500,000		\$24,500,000
I-376/Banksville Interchange	Allegheny		\$29,000,000		\$29,000,000
Highland Park Bridge/Ramps Reconstruction	Allegheny	\$13,560,000	\$26,440,000		\$40,000,000
Cliff Mine Road, Reconstruction and Safety Improvements	Allegheny			\$4,000,000	\$4,000,000
I-376 Pkwy West Carnegie Interchange	Allegheny			\$26,000,000	\$26,000,000
I-376 Pkwy West Green Tree Interchange Improvements	Allegheny			\$28,000,000	\$28,000,000
SR 286 Improvements	Allegheny			\$50,000,000	\$50,000,000
SR 3003 (Washington Pike) Capacity Upgrades from SR 50 to SR 3006	Allegheny			\$10,000,000	\$10,000,000
SR 885 (Bates Street) Reconstruction with capacity Upgrades	Allegheny			\$35,000,000	\$35,000,000
I-79 Capacity Upgrades: WACO Line to Bridgeville (4-lanes to 6-lanes)	Allegheny			\$76,000,000	\$76,000,000
US 422 Wray Road Cut Safety Improvement	Armstrong	\$13,100,000			\$13,100,000
US 422 Kittanning Elementary Intersection	Armstrong	\$7,500,000			\$7,500,000
SR 28 Goheenville DIP Safety Improvements	Armstrong	\$6,800,000			\$6,800,000
US 422 Margaret Road Intersection Improvement	Armstrong	\$7,592,282	\$20,817,818		\$28,410,100
SR 28 Truck Climbing Lane	Armstrong			\$10,000,000	\$10,000,000
SR 85 Geometry Improvement	Armstrong			\$10,000,000	\$10,000,000
US 422 Dutch Run Road Intersection	Armstrong			\$12,000,000	\$12,000,000
SR 28 Geometry Improvements	Armstrong			\$20,000,000	\$20,000,000
SR 51 and SR 68 Interchange Improvement	Beaver			\$5,000,000	\$5,000,000
SR 2004 Freedom Road Improvements	Beaver	\$39,000,000			\$39,000,000

Figure 8.8 Traffic Operations, Safety & System Reliability Projects, cont.

Project Name	County	Short-Term 2017-2020	Mid-Term 2021-2028	Long-Term 2029-2040	Total 2017-2040
I-376/SR 18 Intersection Realignment	Beaver	\$60,000,000			\$60,000,000
SR 228 Pittsburgh Street Intersection Improvement	Butler	\$8,200,000			\$8,200,000
SR 228 Mars West Expansion	Butler		\$74,050,000		\$74,050,000
SR 228 Balls Bend Improvements	Butler	\$3,800,000	\$13,000,000		\$16,800,000
SR 228 Three Degree Road Intersection Improvement	Butler	\$19,800,000			\$19,800,000
US 422 /Greenwood Drive intersection Improvement	Butler		\$1,000,000		\$1,000,000
SR 68 Safety Improvements - Evans City to Butler	Butler	\$295,890	\$4,704,110	\$20,000,000	\$25,000,000
SR 356 Corridor Upgrades	Butler	\$806,900	\$8,193,100		\$9,000,000
Rochester Road Widening	Butler		\$10,000,000		\$10,000,000
SR 3020 (Freedom Road) Improvements & Capacity Upgrades	Butler	\$20,400,000			\$20,400,000
I-79 Widening: SR 228 to SR 528 (4-lanes to 6-lanes)	Butler			\$65,000,000	\$65,000,000
SR 21 Corridor Improvements	Fayette		\$20,000,000	\$70,000,000	\$90,000,000
US 119 McClure Road/Kingview Road Intersection Improvements	Fayette	\$3,500,000	\$36,500,000		\$40,000,000
U.S. 19 / S.R. 221 Ruff Creek Intersection Improvements	Greene		\$2,000,000		\$2,000,000
SR 88 Spot Safety Improvements	Greene		\$5,000,000		\$5,000,000
US 119 Grove Chapel Climbing Lane	Indiana	\$9,000,000			\$9,000,000
US 119 Wake Robin Curve	Indiana	\$500,000	\$14,143,200		\$14,643,200
US 422 Geometry Improvement	Indiana		\$13,000,000		\$13,000,000
US 22 / SR 217 Interchange Reconstruction	Indiana			\$14,315,966	\$14,315,966
US 119 Geometry Improvement	Indiana			\$17,000,000	\$17,000,000
SR 519 / SR 980 / I-79 Intersection Improvements	Washington	\$23,500,000			\$23,500,000
SR 1010 / SR 1019 Intersection Improvement	Washington		\$2,000,000		\$2,000,000
SR 1002 / SR 1019 Intersection Improvement	Washington		\$2,625,000		\$2,625,000
Secondary traffic impacts of Southern Beltway on SR 22 to I-79	Washington		\$30,000,000		\$30,000,000
Secondary traffic impacts of Southern Beltway I-79 to Mon-Fayette Expressway	Washington			\$50,000,000	\$50,000,000
I-79 Meadowlands Auxiliary Lanes	Washington			\$10,000,000	\$10,000,000
I-79 Expansion: ALCO Line to 1-70 North Junction (4-lanes to 6-lanes)	Washington			\$70,000,000	\$70,000,000
PA 356 Safety Improvement	Westmoreland	\$5,530,450			\$5,530,450

Figure 8.8 Traffic Operations, Safety & System Reliability Projects, cont.

Project Name	County	Short-Term 2017-2020	Mid-Term 2021-2028	Long-Term 2029-2040	Total 2017-2040
SR 31 SR 711 Intersection Improvements	Westmoreland	\$19,900,000			\$19,900,000
PA 356 Truck Climbing Lane	Westmoreland	\$8,730,450			\$8,730,450
US 30 Traffic Signal Replacements	Westmoreland		\$1,250,000		\$1,250,000
PA 981 Signals - Latrobe	Westmoreland	\$2,760,000			\$2,760,000
WECO Signal Upgrades	Westmoreland	\$4,808,000			\$4,808,000
US 30 Corridor Improvements	Westmoreland	\$4,000,000	\$36,000,000		\$40,000,000
SR 981/ Laurel Valley Transportation Improvements	Westmoreland	\$2,000,000	\$43,000,000	\$55,000,000	\$100,000,000
US 30 / Georges Station Road Intersection Improvement	Westmoreland			\$5,000,000	\$5,000,000
SR 51 North of I-70 to Allegheny Line Safety Improvement	Westmoreland			\$15,000,000	\$15,000,000
Traffic Operations & Safety Line Item	Allegheny, Beaver, Lawrence		\$198,383,991	\$417,622,108	\$616,006,099
Traffic Operations & Safety Line Item	Armstrong, Butler, Indiana		\$12,598,052	\$90,765,288	\$103,363,340
Traffic Operations & Safety Line Item	Fayette, Greene, Washington, Westmoreland		\$55,205,198	\$152,657,704	\$207,862,902

Figure 8.10 Multimodal Transportation for Economic & Community Development Projects

Project Name	County	Short-Term 2017-2020	Mid-Term 2021-2028	Long-Term 2029-2040	Total 2017-2040
Lower Hill Redevelopment Interior Roads	Allegheny	\$11,880,000			\$11,880,000
PPC-Marine Diesel Engine Retrofit	Allegheny	\$10,009,600			\$16,000,000
I-579 Cap*	Allegheny	\$39,250,000			
Allegheny Riverfront Infrastructure Projects	Allegheny			\$46,080,000	\$46,080,000
SR 228 I-79 to Franklin Road Enhancements	Butler	\$5,000,000			\$5,500,000
Moraine State Park Access Road	Butler	\$5,200,000			\$4,988,300
I-79, Mt. Morris Interchange Area Improvements	Greene		\$6,000,000		\$6,000,000
US 22 Pedestrian and Bicycle Bridge	Indiana	\$2,432,044			\$2,432,044

*This project was amended to the plan on September 28, 2015. Projected revenues are expected to come from a combination of private funds and state and federal discretionary funding. These revenues are in addition to those included in Figure 8.1 on page 8-2.