

Appendix B: Project List and Revenue Narrative

CONSTRAINED PROJECT LIST

Corridor Revitalization

Linking Tahoe: Regional Transportation Plan 2017 | Page B-1

EIP Project #	Project Name	Lead Implementer	Implementation Start Year	Completion Year	Funding Type	Estimated Total Cost in 2017 Dollars	Estimated Total Cost in Year of Expenditure
03.01.02.0023	SR 89/Fanny Bridge Community Revitalization Project- Phase 1 Highway Improvements and Dollar Creek Path	Tahoe Transportation District	2016	2018	Capital	\$38,271,000	\$38,271,000
03.01.02.0016	SR 89/Fanny Bridge Community Revitalization Project - Phase 2 Complete Street Improvements and Meeks Bay Path	Tahoe Transportation District	2017	2018	Capital	\$5,400,000	\$5,400,000
03.01.02.0005	Al Tahoe Safety and Mobility Enhancement Project	City of South Lake Tahoe	2017	2018	Capital	\$2,160,928	\$2,145,000
03.01.02.0004	Sierra Boulevard Complete Streets Project (From US Highway 50 to Barbara Avenue)	City of South Lake Tahoe	2018	2019	Capital	\$4,000,000	\$4,284,900
01.01.02.0003	U.S. Highway 50 Water Quality Improvement Project - "Y" to Trout Creek	California Department of Transportation	2017	2020	Capital	\$52,641,000	\$52,641,000
03.01.01.0015	Mobility Improvements at SR 267 / SR 28 Intersection	Placer County, CA	2019	2020	Capital	\$4,750,000	\$5,088,319
03.01.02.0074	Meyers Corridor Operational Improvement Project	El Dorado County, CA	2019	2020	Capital	\$11,000,000	\$11,783,475
03.01.01.0018	Meyers Intersection Improvements at US Highway 50 and State Route 89	California Department of Transportation	2018	2021	Capital	\$5,240,000	\$5,240,000
03.01.02.0024	U.S. 50 South Shore Community Revitalization Project	Tahoe Transportation District	2018	2021	Capital	\$72,000,000	\$74,520,000
03.01.02.0072	Tahoe City Complete Streets Highway Improvements	Placer County, CA	2018	2018	Capital	\$570,000	\$589,950
03.01.02.0118	Tahoe City Downtown Access Improvements	Placer County, CA	2021	2023	Capital	\$5,000,000	\$5,737,615
03.01.01.0004	Apache Avenue Pedestrian Safety and Connectivity Project	El Dorado County, CA	2019	2021	Capital	\$1,873,650	\$2,007,101
03.01.02.0108	US 50 Safety Improvement and Complete Streets	Nevada Department of Transportation	2020	2022	Capital	\$9,000,000	\$9,978,461
03.01.02.0138	Meeks Bay Highway Corridor Improvements	U.S. Forest Service - Lake Tahoe Basin Management Unit	2021	2023	Capital	\$1,500,000	\$1,721,285
01.01.04.0014	Tallac Historic Site, Valhalla, and the Visitor Center Improvements	U.S. Forest Service - Lake Tahoe Basin Management Unit	2013	2027	Capital	\$5,225,628	\$5,225,628
01.01.03.0036	State Route 89 Recreation Corridor Improvements	U.S. Forest Service - Lake Tahoe Basin Management Unit	2021	2023	Capital	\$5,000,000	\$5,737,615
04.01.03.0137	Round Hill Pines Resort Highway Intersection Improvements	U.S. Forest Service - Lake Tahoe Basin Management Unit	2018	2018	Capital	\$3,000,000	\$3,105,000
01.01.02.0019	US Highway 50 Water Quality Improvement Project - Wildwood to State Line	California Department of Transportation	2025	2025	Capital	\$2,222,000	\$2,925,950
03.01.02.0125	West Shore Highway Crossing Improvements	Placer County, CA	2021	2022	Capital	\$500,000	\$593,843
					TOTAL	\$229,354,206	\$236,996,142

EIP Project #	Project Name	Lead Implementer	Implementation Start Year	Completion Year	Funding Type	Estimated Total Cost in 2017 Dollars	Estimated Total Cost in Year of Expenditure	Estimated Annual Operating Cost in 2017 Dollars	Estimated Total Operating Cost for Life of Project
03.01.02.0092	TTD Transit Technology and Amenities	Tahoe Transportation District	2020	2021	Capital	\$1,725,000	\$1,912,538		
03.01.02.0109	TTD Only Free to the User Transit	Tahoe Transportation District	2020	2040	O&M			\$742,011	\$22,319,380
03.01.02.0119	TART Only Free to the User Transit	Placer County, CA	2022	2040	O&M			\$750,000	\$20,912,940
03.01.02.0059	Inter-Regional Transit Service Operations - Short Term	Tahoe Transportation District	2020	2040	O&M			\$1,100,000	\$33,087,538
03.01.02.0060	Inter-Regional Transit Capital Project - Short Term	Tahoe Transportation District	2020	2020	Capital	\$11,000,000	\$12,195,897		
03.01.02.0038	TTD Fleet and Facilities Upgrade - Baseline Short term	Tahoe Transportation District	2017	2020	Capital	\$18,425,000	\$18,425,000		
03.01.02.0054	TTD Transit Operations - Baseline Short Term	Tahoe Transportation District	2017	2040	O&M			\$6,500,000	\$215,548,511
03.01.02.0117	TTD Fleet and Facilities Upgrade - Medium and Long Term	Tahoe Transportation District	2021	2040	Capital	\$82,095,000	\$94,205,901		
03.01.02.0085	TTD Transit Operations Enhancements - Short Term	Tahoe Transportation District	2020	2040	O&M			\$2,900,586	\$87,248,410
03.01.02.0139	TTD Capital for Operations Enhancements - Short Term	Tahoe Transportation District	2020	2021	Capital	\$8,560,000	\$9,490,625		
03.01.02.0113	TTD Expanded East Shore Service	Tahoe Transportation District	2020	2040	O&M			\$827,610	\$24,894,162
03.01.02.0114	TTD Capital for Expanded East Shore Service	Tahoe Transportation District	2020	2020	Capital	\$3,050,000	\$3,381,590		
03.01.02.0058	East Shore Transit Service Facility Upgrades	Tahoe Transportation District	2021	2025	Capital	\$5,200,000	\$5,200,000		
03.01.02.0116	South Shore Transit Enhancements Operations - Short Term	Tahoe Transportation District	2018	2040	O&M			\$2,875,011	\$92,464,118
03.01.02.0115	South Shore Transit Enhancements Capital - Short Term	Tahoe Transportation District	2017	2020	Capital	\$5,570,000	\$5,570,000		
03.01.02.0056	TART Transit Fleet and Facility Upgrades - Short Term	Placer County, CA	2020	2021	Capital	\$3,500,000	\$3,880,513		
03.01.02.0126	TART Transit Fleet and Facility Upgrades - Long Term	Placer County, CA	2031	2040	Capital	\$5,614,600	\$9,088,322		
03.01.02.0055	TART Local Service Enhancements - Short Term	Placer County, CA	2017	2040	O&M			\$868,260	\$28,792,638
03.01.02.0129	TART Additional and Expanded Service to Truckee - Short Term	Placer County, CA	2020	2040	O&M			\$981,100	\$29,511,076
06.01.03.0013	TART Transit Ongoing Operations and Maintenance	Placer County, CA	2017	2040	O&M			\$4,500,000	\$150,353,260
03.01.02.0021	Lake Tahoe Waterborne Ferry Project	Tahoe Transportation District	2020	2023	Capital	\$40,000,000	\$44,348,715		
03.01.02.0052	Lake Tahoe Waterborne Ferry Operations	Tahoe Transportation District	2023	2040	O&M			\$4,600,000	\$123,010,582
03.01.02.0121	South Shore Water Taxi Pilot Project	Tahoe Transportation District	2023	2040	O&M			\$100,000	\$2,674,143
03.01.01.0020	South Lake Tahoe Airport Improvement Project	City of South Lake Tahoe	2017	2022	Capital	\$8,103,500	\$8,103,500		
					TOTAL	\$192,843,100	\$215,802,601	\$26,744,578	\$830,816,759

EIP Project #	Project Name	Lead Implementer	Implementation Start Year	Completion Year	Funding Type	Estimated Total Cost in 2017 Dollars	Estimated Total Cost in Year of Expenditure
03.01.02.0002	El Dorado Beach to Ski Run Boulevard Bike Trail	City of South Lake Tahoe	2017	2017	Capital	\$3,100,000	\$3,100,000
01.01.01.0012	Tahoe Valley Greenbelt	City of South Lake Tahoe	2017	2017	Capital	\$6,000,000	\$6,000,000
01.01.02.0032	SR 28 Shared Use Path and Water Quality Improvements GMP 2 - Incline Village to Sand Harbor	Nevada Department of Transportation	2017	2018	Capital	\$23,000,000	\$23,000,000
03.01.02.0094	Lake Tahoe Boulevard Class 1 Bicycle Trail (Viking Way to South Wye)	City of South Lake Tahoe	2018	2019	Capital	\$2,500,000	\$2,587,500
03.01.02.0087	South Tahoe Greenway Shared Use Trail Phases 1b & 2	California Tahoe Conservancy	2015	2020	Capital	\$4,027,000	\$4,464,807
03.01.02.0040	Class I Bike Path: East San Bernardino - West San Bernardino	El Dorado County, CA	2019	2020	Capital	\$1,460,000	\$1,563,989
03.01.01.0019	Pioneer Trail Pedestrian Project - Phase II	City of South Lake Tahoe	2020	2021	Capital	\$2,110,000	\$2,339,395
03.01.02.0049	SR 28 Central Corridor Improvements – Sand Harbor to Spooner State Park	Tahoe Transportation District	2019	2021	Capital	\$36,200,000	\$38,775,345.00
03.01.02.0011	North Tahoe Regional Bike Trail	Placer County, CA	2021	2023	Capital	\$12,000,000	\$13,770,276
03.01.02.0044	Baldwin Beach Bike Path	U.S. Forest Service - Lake Tahoe Basin Management Unit	2021	2021	Capital	\$500,000	\$573,762
Not yet identified	Bicycle and Pedestrian Improvements from the Active Transportation Plan 2021-2030	Various		2021-2030	Capital	\$10,000,000	\$10,000,000
Not yet identified	Bicycle and Pedestrian Improvements from the Active Transportation Plan 2031-2040	Various		2031-2040	Capital	\$10,000,000	\$10,000,000
					TOTAL	\$110,897,000	\$116,175,074

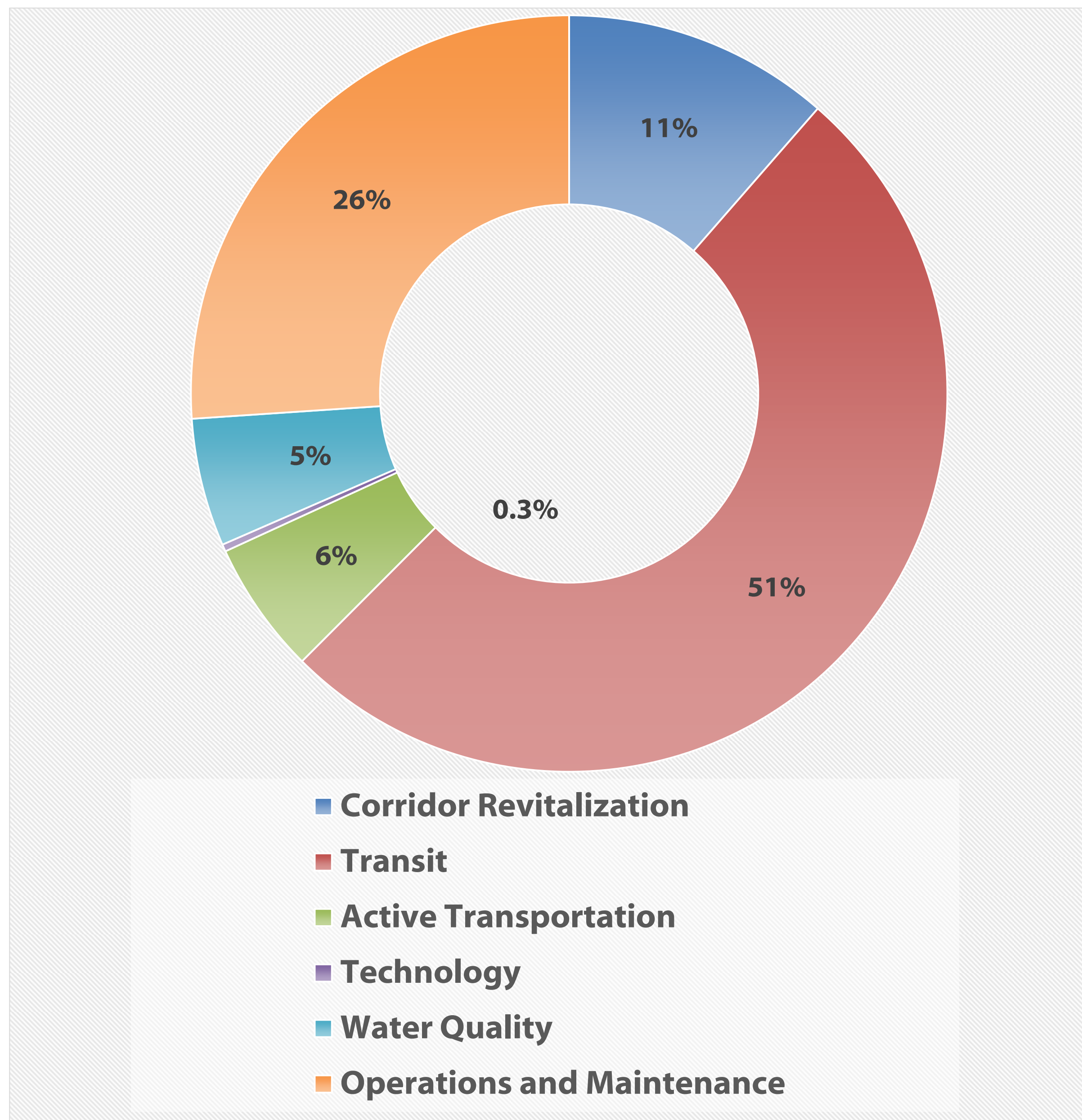
EIP Project #	Project Name	Lead Implementer	Implementation Start Year	Completion Year	Funding Type	Estimated Total Cost in 2017 Dollars	Estimated Total Cost in Year of Expenditure	Estimated Annual Operating Cost in 2017 Dollars	Estimated Total Operating Cost for Life of Project
03.01.02.0102	Tahoe Basin Transportation Smartphone Application Pilot	Tahoe Transportation District	2018	2025	Capital	\$350,000	\$362,250		
03.01.02.0077	Traffic Monitoring Stations in Nevada	Nevada Department of Transportation	2020	2021	Capital	\$200,000	\$221,744		
03.01.01.0016	Parking Lot Information and Guidance System Integration/Parking Lot Detection System	Tahoe Transportation District	2017	2021	Capital	\$600,000	\$600,000		
03.01.02.0076	Sierra Nevada Operation System	California Department of Transportation	2017	2021	Capital	\$1,700,000	\$1,700,000		
03.01.02.0075	Changeable Message Signs in Nevada	Nevada Department of Transportation	2021	2021	Capital	\$500,000	\$573,762		
03.01.02.0078	California Multi-Modal Signal Control Optimization	California Department of Transportation	2021	2021	Capital	\$1,000,000	\$1,147,523		
03.01.02.0090	TTD Transit Safety and Security	Tahoe Transportation District	2017	2020	Capital	\$750,000	\$750,000		
03.01.02.0106	Transit Signal Priority Along South Shore	California Department of Transportation	2031	2031	Capital	\$475,000	\$768,880		
Not Located in Tracker	Transportation Demand Management Programs	Tahoe Regional Planning Agency	2017	2020	Program			\$180,000	\$180,000
					TOTAL	\$5,575,000	\$6,124,159	\$180,000	\$180,000

EIP Project #	Project Name	Lead Implementer	Implementation Start Year	Completion Year	Funding Type	Estimated Total Cost in 2017 Dollars	Estimated Total Cost in Year of Expenditure
Grouped in Tracker	Nevada Department of Transportation Stormwater / TMDL Projects	Nevada Department of Transportation	2017	2018	Capital	\$14,986,113	\$14,986,113
Grouped in Tracker	California Department of Transportation Stormwater/ TMDL Projects	California Department of Transportation	2017	2017	Capital	\$93,382,000	\$93,382,000
Grouped in Tracker	Local County and City Stormwater / TMDL Projects	Various	2017	2017	Capital	\$3,873,680	\$3,873,680
					TOTAL	\$112,241,793	\$112,241,793

EIP Project #	Project Name	Lead Implementer	Implementation Start Year	Completion Year	Funding Type	Estimated Total Cost in 2017 Dollars	Estimated Total Cost in Year of Expenditure	Estimated Annual Operating Cost in 2017 Dollars	Estimated Total Operating Cost for Life of Project
01.01.02.0030	Highway 50 Echo Summit Bridge Rehabilitation	California Department of Transportation	2018	2020	Capital	\$10,645,000	\$10,645,000		
Grouped in Tracker	Equipment upgrade to support Air and Water Quality Improvements - Short-term	Various	2018	2020	Capital	\$697,850	\$784,635		
Grouped in Tracker	Equipment upgrade to support Air and Water Quality Improvements - Medium -Term	Various	2021	2031	Capital	\$200,000	\$1,000,000		
06.01.03.0003	Nevada Department of Transportation Sweeping Program	Nevada Department of Transportation	2015	2040	O&M			\$150,000	\$5,499,979
Grouped in Tracker	Bicycle and Pedestrian Facilities Operation and Maintenance	Various	2017	2040	O&M			\$907,098	\$33,260,134
Grouped in Tracker	Stormwater Treatment Facilities Operations and Maintenance	Various	2017	2040	O&M			\$1,347,300	\$49,400,813
Grouped in Tracker	Streets and Roads Operations and Maintenance	Various	2017	2040	O&M			\$10,527,151	\$385,994,079
06.01.03.0034	Emergency Roadway Repair Program	Nevada Department of Transportation	2017	2040	O&M			\$100,000	\$3,666,653
Not Yet Identified	SHOPP- Various Safety, Mobility, Road Preservation, Collision Reduction, and Emergency Roadway Repair	California Department of Transportation	2021	2040	Capital	\$44,000,000	\$44,000,000		
					TOTAL	\$55,542,850	\$56,429,635	\$13,031,549	\$477,821,658

Category	Estimated Total Cost in 2017 Dollars	Cost in Year of Expenditure for RTP	Est. Annual Operating Cost	Total Operating Cost for life of project
Corridor Revitalization	\$227,132,206	\$234,070,192		
Transit	\$192,843,100	\$215,802,601	\$26,744,578	\$830,816,760
Active Transportation	\$110,897,000	\$116,175,074		
Technology & Transportation System Management	\$5,575,000	\$6,124,159	\$180,000	\$180,000
Water Quality	\$112,241,793	\$112,241,793		
Operations & Maintenance	\$55,542,850	\$56,429,635	\$13,031,549	\$477,821,659
TOTAL	\$704,231,949	\$740,843,454	\$39,956,127	\$1,308,818,419

Project Timeframes	Years	Total Capital Project Costs	Total O & M Costs	Total Capital and O & M Costs	Constrained Revenues
Short Term	2017-2020	\$407,209,431	\$120,844,361	\$528,053,792	\$530,505,420
Medium Term	2021-2030	\$236,650,796	\$500,839,111	\$737,489,907	\$740,455,640
Long Term	2031-2040	\$96,983,227	\$687,134,947	\$784,118,174	\$784,175,620
TOTAL		\$740,843,454	\$1,308,818,419	\$2,049,661,873	\$2,055,136,680



UNCONSTRAINED PROJECT LIST

Transit

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EIP Project #	Project Name	Lead Implementer	Implementation Start Year	Completion Year	Funding Type	Estimated Total Cost in 2017 Dollars	Estimated Total Cost in Year of Expenditure	Estimated Annual Operating Cost in 2017 Dollars	Estimated Total Operating Cost for Life of Project
03.01.02.0120	Mobility Hub and Transit Center Operations	Various	2025	2040	O&M			\$2,125,000	\$51,771,540
03.01.02.0123	Mobility Hub and Transit Center Capital	Various	2025	2040	Capital	\$107,100,000	\$141,030,248		
03.01.02.0099	Reno/Sparks - South Shore Transit Connection Subsidy	Washoe RTC & Tahoe Transportation District	2021	2040	O&M			\$500,000	\$14,498,187
03.01.02.0098	TART - Additional Summer/Winter Transit Service	Placer County	2020	2040	O&M			\$876,000	\$26,349,712
03.01.02.0131	TTD Inter-Regional Transit Services - Long-Term	Tahoe Transportation District	2031	2040	O&M			\$15,000,000	\$246,272,135
03.01.02.0135	TTD Inter-Regional Transit Capital - Long-Term	Tahoe Transportation District	2031	2040	Capital	\$8,500,000	\$13,758,903		
03.01.02.0128	South Shore Transit Service Enhancements - Medium-Term	Tahoe Transportation District	2021	2040	O&M			\$12,000,000	\$347,956,485
03.01.02.0136	South Shore Transit Capital Enhancements - Medium-Term	Tahoe Transportation District	2021	2030	Capital	\$8,500,000	\$9,753,946		
03.01.02.0137	Inter-Regional Rail Capital Corridor to Truckee to Reno - Capital	Various	2021	2030	Capital	\$3,000,000	\$3,442,569		
03.01.02.0132	Inter-Regional Rail Capital Corridor to Truckee to Reno - Operation	Various	2031	2040	O&M			\$7,000,000	\$114,926,996
03.01.02.0127	Regional Water Taxi Service Capital	Tahoe Transportation District	2031	2040	Capital	\$5,000,000	\$8,093,473		
06.01.03.0038	Regional Water Taxi Service operations	Tahoe Transportation District	2031	2040	O&M			\$2,000,000	\$32,836,285
					TOTAL	\$132,100,000	\$176,079,139	\$39,501,000	\$834,611,339

EIP Project #	Project Name	Lead Implementer	Implementation Start Year	Completion Year	Funding Type	Estimated Total Cost in 2017 Dollars	Estimated Total Cost in Year of Expenditure
Not yet identified	Regional Active Transportation Improvements from the Active Transportation Plan - Short-Term	Various	2017	2020	Capital	\$101,722,100	\$116,728,449
Not yet identified	Regional Active Transportation Improvements from the Active Transportation Plan - Medium-Term	Various	2021	2030	Capital	\$30,764,000	\$48,113,544
Not yet identified	Regional Active Transportation Improvements from the Active Transportation Plan - Long-Term	Various	2031	2040	Capital	\$40,221,900	\$88,734,116
					TOTAL	\$172,708,000	\$253,576,110

EIP Project #	Project Name	Lead Implementer	Implementation Start Year	Completion Year	Funding Type	Estimated Total Cost in 2017 Dollars	Estimated Total Cost in Year of Expenditure
03.01.02.0097	Information Kiosks at Activity Centers	Tahoe Transportation District	2018	2020	Capital	\$2,240,000	\$2,318,400
Grouped in Tracker	Various ITS Solutions	Various	2018	2040	Capital	\$5,000,000	\$5,000,000
06.01.03.0036	Improved Parking Management and Wayfinding in Tahoe City	Placer County	2018	2021	Capital	\$2,000,000	\$2,070,000
03.01.02.0133	Adaptive Traffic Management on US 50	Various	2021	2031	Capital	\$5,000,000	\$5,737,615
03.01.02.0100	Adaptive Traffic Management on SR 89 and SR 267	Various	2018	2021	Capital	\$5,000,000	\$5,175,000
					TOTAL	\$19,240,000	\$20,301,015

EIP Project #	Project Name	Lead Implementer	Implementation Start Year	Completion Year	Funding Type	Estimated Total Cost in 2017 Dollars	Estimated Total Cost in Year of Expenditure
Grouped in Tracker	Local Stormwater / TMDL Projects	Various	2020	2022	Capital	\$14,925,000	\$16,273,940
					TOTAL	\$14,925,000	\$16,273,940

EIP Project #	Project Name	Lead Implementer	Implementation Start Year	Completion Year	Funding Type	Estimated Annual Operating Cost in 2017 Dollars	Estimated Total Operating Cost for Life of Project
06.01.03.0030	Deferred Maintenance – Washoe County	Washoe County, NV	2017	2040	O&M	\$1,950,000	\$71,499,730
06.01.03.0027	Deferred Maintenance – Placer County	Placer County, CA	2017	2040	O&M	\$1,000,000	\$36,666,528
06.01.03.0029	Deferred Maintenance – City of South Lake Tahoe	City of South Lake Tahoe	2017	2040	O&M	\$49,000,000	\$1,796,659,882
06.01.03.0031	Deferred Maintenance - Douglas County	Douglas County, NV	2017	2040	O&M	\$2,000,000	\$73,333,056
06.01.03.0028	Deferred Maintenance - El Dorado County	El Dorado County, CA	2017	2040	O&M	\$14,360,000	\$526,531,345
					TOTAL	\$68,310,000	\$2,504,690,542

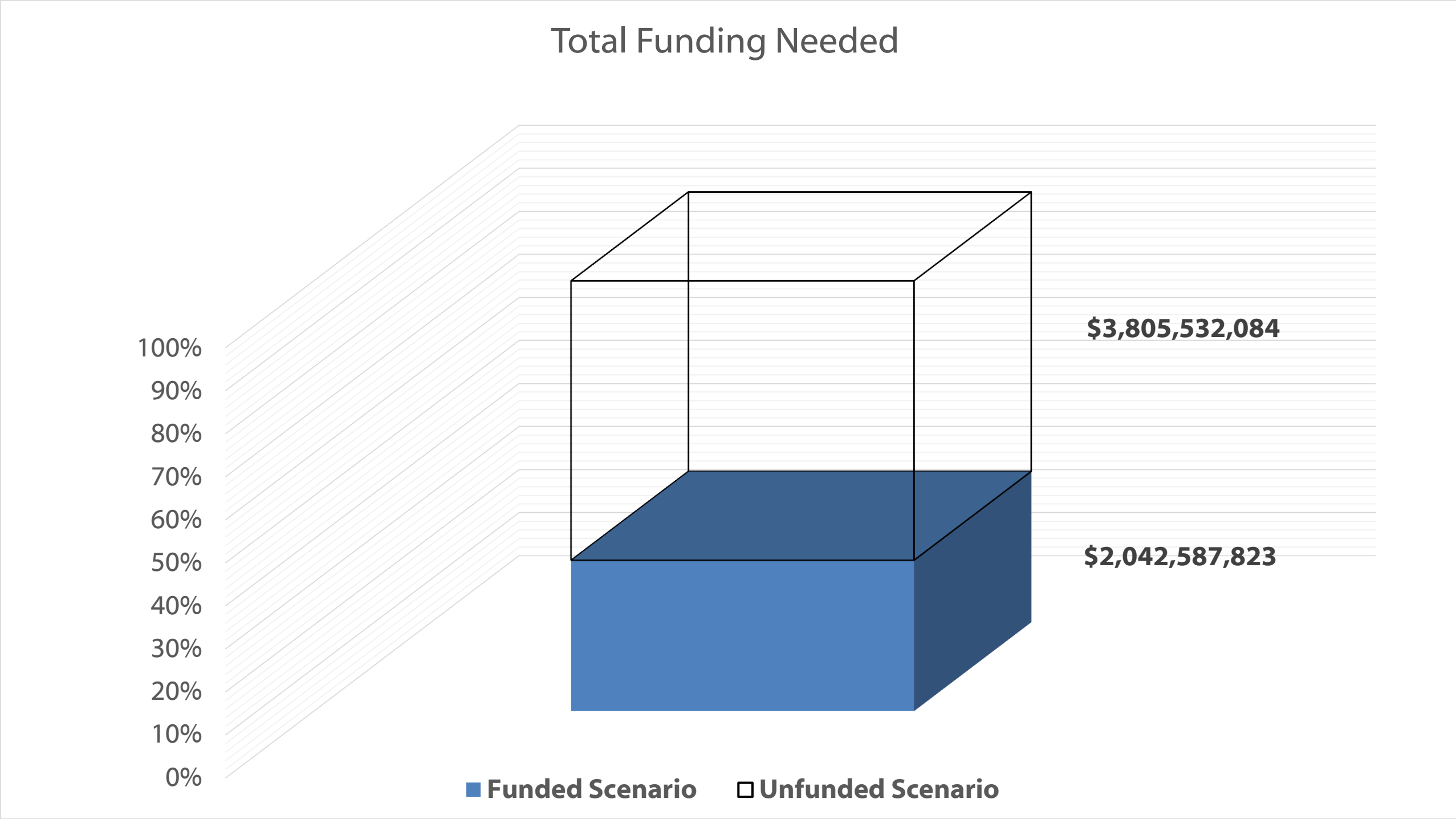
UNCONSTRAINED PROJECT LIST TOTAL COSTS

Total By Project Category

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Category	Estimated Total Cost in 2017 Dollars	Cost in Year of Expenditure for RTP	Est. Annual Operating Cost	Total Operating Cost for life of project
Transit	\$132,100,000	\$176,079,139	\$39,501,000	\$834,611,339
Active Transportation	\$172,708,000	\$253,576,110		
Technology & Transportation System Management	\$19,240,000	\$20,301,015		
Water Quality	\$14,925,000	\$16,273,940		
Operations & Maintenance			\$68,310,000	\$2,504,690,542
Totals	\$338,973,000	\$466,230,203	\$107,811,000	\$3,339,301,881

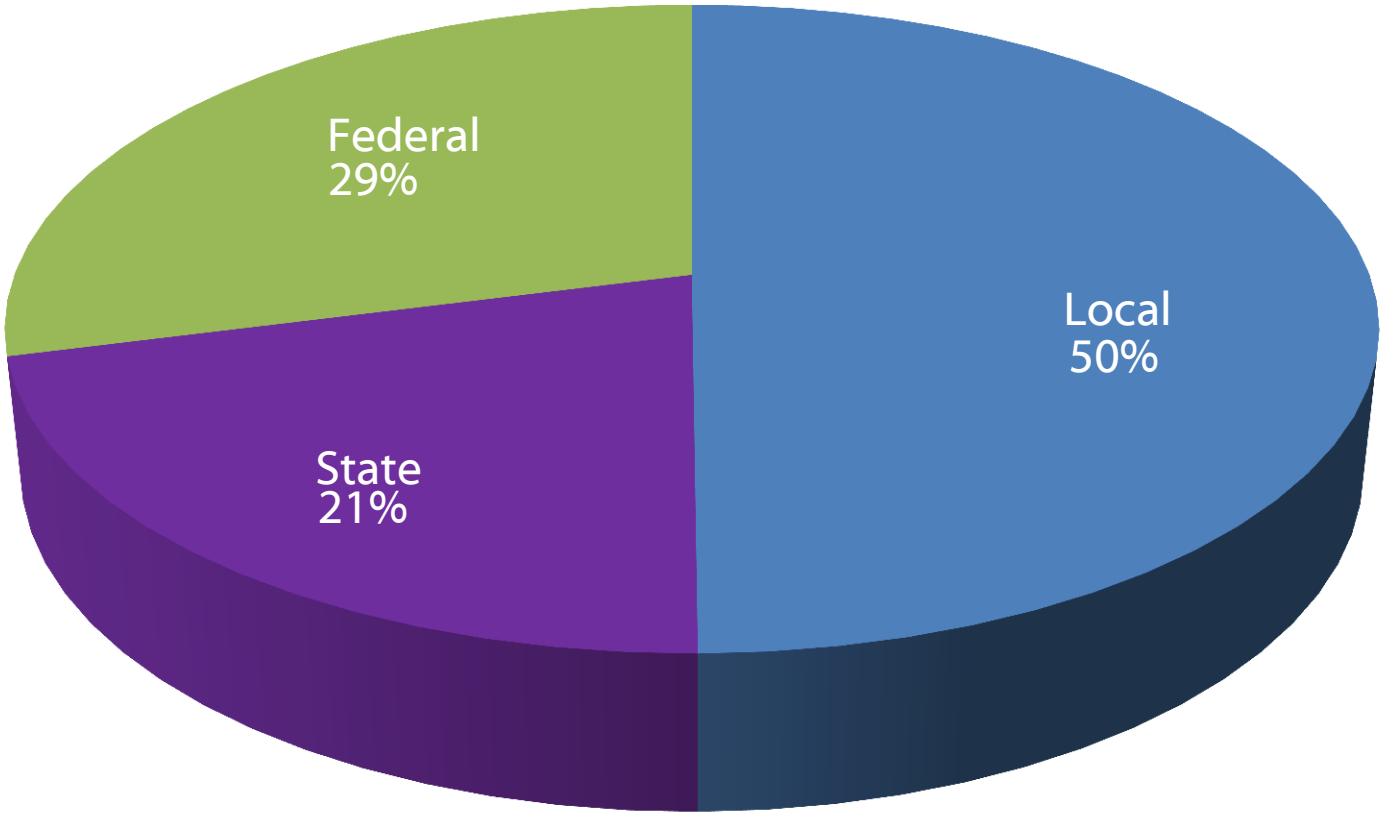
Project Timeframes	Years	Total Capital Project Costs	Total O & M Costs	Total Capital and O & M Costs
Short Term	2017-2020	\$147,565,789	\$288,871,637	\$436,437,426
Medium Term	2021-2030	\$208,077,922	\$1,104,721,600	\$1,312,799,522
Long Term	2031-2040	\$110,586,492	\$1,945,708,643	\$2,056,295,135
Total		\$466,230,203	\$3,339,301,881	\$3,805,532,084



LINKING TAHOE: REGIONAL TRANSPORTATION PLAN 2017 - 2040 REVENUE FORECASTS

Source	2017-2020	2021-2030	2031-2040	Total
LOCAL SOURCES				
Farebox Revenues	\$4,071,661	\$507,333	\$0	\$4,578,995
TRPA Rental Car Mitigation Fund	\$502,408	\$1,444,753	\$1,761,146	\$3,708,307
TRPA Air Quality Mitigation Fund	\$1,677,828	\$4,824,858	\$5,881,475	\$12,384,162
TRPA Water Quality Mitigation Fund	\$1,999,240	\$5,749,127	\$7,008,154	\$14,756,521
Local Funds (on-going)	\$28,343,639	\$81,506,578	\$99,356,064	\$209,206,281
Local Funds (project specific)	\$13,172,000	\$81,350	\$0	\$13,253,350
Private Funds	\$6,100,000	\$14,375,000	\$12,200,000	\$32,675,000
Ferry Partnership	\$46,000,000	\$39,481,658	\$59,014,979	\$144,496,637
O&M (bike trail, ped facilities, roadway, stormwater)	\$54,927,235	\$175,431,279	\$247,463,145	\$477,821,659
Environmental Stormwater Capital	\$112,241,793	\$0	\$0	\$112,241,793
Total Local	\$269,035,804	\$323,401,937	\$432,684,964	\$1,025,122,704
STATE SOURCES				
State Transit Assistance and Local Transportation Fund	\$8,086,656	\$49,273,745	\$60,064,420	\$117,424,820
Regional Improvement Program (STIP)	\$14,766,000	\$22,378,423	\$20,428,424	\$57,572,847
Low Carbon Transit Operations	\$735,707	\$2,115,641	\$2,578,954	\$5,430,302
Affordable Housing Sustainable Communities	\$3,250,000	\$9,950,000	\$11,940,000	\$25,140,000
California Proposition 1B	\$75,431	\$0	\$0	\$75,431
California Tahoe Conservancy	\$3,362,204	\$6,154,007	\$7,501,700	\$17,017,911
Active Transportation Program (CA)	\$10,198,800	\$13,690,611	\$16,688,779	\$40,578,190
Emergency Road Repair	\$420,404	\$1,208,938	\$1,473,688	\$3,103,030
California SHOPP	\$70,226,000	\$25,184,358	\$24,609,498	\$120,019,856
Nevada Question 1	\$2,700,000	\$0	\$0	\$2,700,000
Nevada State Funds	\$15,778,320	\$13,283,177	\$16,192,118	\$45,253,615
Total State	\$129,599,522	\$143,238,900	\$161,477,582	\$434,316,004
FEDERAL SOURCES				
Surface Transportation Block Grant	\$12,842,244	\$38,030,347	\$46,358,781	\$97,231,372
Surface Transportation Block Grant Set-Aside (TAP)	\$673,597	\$1,937,032	\$2,361,232	\$4,971,861
Federal Lands Transportation Program	\$840,808	\$21,287,823	\$7,079,790	\$29,208,421
Federal Lands Access Program	\$54,018,000	\$82,050,000	\$2,500,000	\$138,568,000
Congestion Mitigation & Air Quality Program	\$7,835,737	\$22,323,481	\$27,212,199	\$57,371,417
National Highway Performance Program	\$3,000,000	\$6,000,000	\$9,000,000	\$18,000,000
Highway Safety Improvement Program	\$5,034,860	\$19,779,005	\$11,018,456	\$35,832,321
FHWA Ferry Program	\$21,020,201	\$5,520,404	\$0	\$26,540,605
FTA 5307 Urbanized Area Formula Program	\$18,077,373	\$51,984,320	\$63,368,596	\$133,430,289
FTA 5310 Enhancement Mobility of Seniors and individuals with Disabilities	\$344,731	\$991,329	\$1,208,424	\$2,544,485
FTA 5311 Rural Area Formula Grants (NV)	\$5,476,534	\$14,338,995	\$17,479,156	\$37,294,685
FTA 5339 Bus and Bus Facilities	\$1,051,010	\$2,278,916	\$2,426,442	\$5,756,368
Federal Aviation Administration Airport Improvement Program	\$0	\$7,293,150	\$0	\$7,293,150
High Priority Projects Program	\$1,655,000	\$0	\$0	\$1,655,000
Total Federal	\$131,870,094	\$273,814,803	\$190,013,075	\$595,697,972
Total Local/State/Federal	\$530,505,420	\$740,455,640	\$784,175,620	\$2,055,136,680

Forecast Revenue Percentages by Source (2017 – 2040)



Funding Source	Description	Source
Farebox Revenues	Revenues collected by transit operators from passenger fees.	TART Short Range Transit Plan and South Shore transit actuals for 2015
TRPA Rental Car Mitigation Fund	Cars rented in the Region are assessed a mitigation fee of \$5.50 per day. This fee is used for transit operations. Mitigation fees found in the Rules of Procedure Section 10.8.5.	TRPA: Average of past four years
TRPA Air Quality Mitigation Fund	This fee offsets impacts from indirect sources of air pollution in the Basin. The current program charges \$325.84 per daily vehicle trip for new tourist accommodations units or for new campground site or recreational site.	TRPA: Average of past four years
TRPA Water Quality Mitigation Fund	This fee is assessed for each square foot of additional land coverage created. The current fee is \$1.86 per square foot.	TRPA: Average of past four years
Local Funds (On-Going)	Funds that local jurisdictions generate and use towards transportation capital and operations.	Placer County Traffic Impact Fees, North Lake Tahoe Resort Association Transient Occupancy Tax, City of South Lake Tahoe, Tahoe Douglas Transportation District Transient Occupancy Tax, PUDs, GIDs, and others, Transit local funds
Local Funds (Project Specific)	Funds that local jurisdictions generate and use towards transportation capital.	Placer County, Tahoe City Public Utility District, Nevada Department of Transportation, City of South Lake Tahoe
Private Funds	Private funding consists of revenue from South Shore Transit operations, skier shuttles, the Tahoe Fund, and mitigation fees from large projects in the Region.	South Shore Transit, Tahoe Fund, Mitigation Fees from large projects
Ferry Partnership	Public and private funds to operate waterborne transit.	Tahoe Transportation District
Operations and Maintenance	Estimates of funding expenditures to maintain active transportation facilities, roadways, and stormwater in the Region. This amount is adjusted to match the costs reported by local jurisdictions.	Jurisdiction consultation and confirmation through Environmental Improvement Program Tracker.
Environmental Stormwater Capital	Funding for Environmental Improvement Program projects in the Region from 2017 - 2019. This amount is adjusted to match the costs reported by local jurisdictions.	Jurisdiction consultation and confirmation through Environmental Improvement Program Tracker.

Funding Source	Description	Source
State Transit Assistance and Local Transportation Fund	The Transportation Development Act provides two funding sources: Local Transportation Fund (LTF) and State Transit Assistance Fund (STA). Annual increase in revenue is in anticipation of CA legislation recognition of the Tahoe FAST Act population increase.	Transportation Development Act Allocations
Regional Improvement Program California only	The Statewide Transportation Improvement Program is a capital improvement program that provides transportation funding for projects on and off the State Highway System.	California Department of Transportation Statewide Transportation Improvement Program Shares
Low Carbon Transit Operations Program California Only	The Low Carbon Transit Operations Program is one of several programs that are part of the Transit, Affordable Housing, and Sustainable Communities Program. It was created to provide operating and capital assistance for transit agencies to reduce greenhouse gas emissions and improve mobility with a priority on serving disadvantaged communities.	California State Controller 2016-2017 Allocation
Affordable Housing Sustainable Communities Program California Only	Administered by the Strategic Growth Council and implemented by the Department of Housing and Community Development, this program funds land-use, housing, transportation, and land preservation projects to support infill and compact development that reduce greenhouse gas emissions. Tahoe Region expects to be competitive for three grants over the 24 year planning horizon.	California Strategic Growth Council
California Proposition 1B	The California 2006 Proposition 1B Transportation Act established a series of discretionary funding programs through voter approval on November 7, 2006. Funding expires in 2017.	California Department of Transportation
California Tahoe Conservancy	The California Tahoe Conservancy provides funding for projects that sustain a balance between the natural and human environment and between public and private uses.	Propositions 84 & 12
Active Transportation Program California Only	Competitive program in California promoting active modes of transportation. This program consolidated existing federal and state transportation programs into a single program. The Tahoe Region expects to be competitive every other funding cycle.	California Department of Transportation
Emergency Road Repair	State funds set aside for unforeseen emergency repairs on roadways.	California Department of Transportation
California State Highway Operation and Protection Program	Estimates of revenues to maintain state roadway operational improvements.	California Department of Transportation
Nevada Question 1	Nevada voters approved a bond for trails and recreation. \$5 million was available for Lake Tahoe Bicycle Trails, expiring 2013. NV Division of State Lands provides funds carried over to 2016/2017.	Nevada Division of State Lands
Nevada State Funds	The majority of Nevada state funding comes from the state gas tax. Estimates of revenues fund projects in the Annual Work Plan.	Nevada Annual Work Program

Funding Source	Description	Source
Surface Transportation Block Grant Program (STBG)	The STBG program replaces the Regional Surface Transportation Program (RSTP). The program provides flexible funding to address State and local transportation needs.	Fixing America's Surface Transportation Act
Surface Transportation Block Grant Program set-aside (TAP)	These set-aside funds include all projects and activities that were previously eligible under TAP, encompasses a variety of smaller scale transportation projects such as pedestrian and bicycle facilities, recreational trails, and safe routes to school projects.	Fixing America's Surface Transportation Act
Federal Lands Transportation Program	Administered through the United States Forest Service (USFS)	Fixing America's Surface Transportation Act
Federal Lands Access Program	The program provides funds for projects on Federal Lands Access Transportation Facilities that are located on, adjacent to, or that provide access to Federal lands.	Fixing America's Surface Transportation Act
Congestion Mitigation and Air Quality Funds (CMAQ)	The CMAQ program funds projects and activities that reduce congestion and improve air quality. Local jurisdictions within El Dorado County are eligible for CMAQ funding in the Tahoe Region.	2016 California Department of Transportation Final Estimate CMAQ table
National Highway Performance Program (NHPP)	The NHPP provides funding for federal aid highway system bridges that are not on the National Highway System since the Highway Bridge Program was eliminated in MAP-21.	Federal Highway Administration
Highway Safety Improvement Program	Federal program that strives to achieve a significant reduction in traffic fatalities and serious injuries on all public roads through the implementation of infrastructure-related highway safety improvements.	Federal Highway Administration
Federal Highway Administration Ferry Boat Program	The FAST Act continues the Ferry Boat Program which funds the construction of ferry boats and ferry terminal facilities.	Fixing America's Surface Transportation Act
FTA 5307 Urbanized Area Formula Program	Formula based program provides funding to states to support public transportation in urban areas.	Fixing America's Surface Transportation Act
FTA 5310 Enhancement Mobility of Seniors and Individuals with Disabilities	This FTA program is intended to serve the special needs of transit-dependent populations beyond traditional public transportation services and Americans with Disabilities Act complementary paratransit services.	California Department of Transportation & Nevada Department of Transportation
FTA 5311 Rural Area Formula Grants - Nevada Only	FTA program that provides capital, planning, and operating assistance to states for rural areas. NDOT is reimagining how they allocate 5311 statewide and looking to implement a competitive process.	Fixing America's Surface Transportation Act & 2016 Tahoe Transportation District Apportionment
FTA 5339 Bus and Bus Facilities	FTA program that makes federal resources available to states and direct recipients to replace, rehabilitate and purchase buses and related equipment and to construct bus-related facilities including technological changes or innovations to modify low or no emission vehicles or facilities.	Fixing America's Surface Transportation Act
Federal Aviation Administration (FAA) Airport Improvement Program	The FAA program provides federal funds for airport improvement projects. The South Lake Tahoe Airport is eligible for these funds.	2017-2020 City of South Lake Tahoe Airport Capital Improvement Program
High Priority Projects Program Earmark Funds	Earmarked funds for City of South Lake Tahoe's El Dorado Beach to Ski Run Blvd Bike Trail.	Moving Ahead for Progress in the 21st Century Act

Inflation Rate Methodology

The 2017 Regional Transportation Plan's constrained and unconstrained project cost and revenue estimates are in 2017 dollars. TRPA inflates both capital and operations costs and foreseeable revenues. The year of expenditure is determined by the implementation start year. To respond to an evolving industry, TRPA researched the methods used by MPOs and transit agencies in California and Nevada to estimate project costs. Based on this research, TRPA established a method of estimating the year of expenditure cost of the constrained and unconstrained projects by applying an annual inflation rate to 2017 dollars beginning in 2018 and to apply this inflation rate each year until the project's implementation start year. This is because the project's funding will be programmed into the FTIP at the beginning of the project's implementation start year.

The following list explains the structure of inflation and provides a brief description as to how this method was determined.

Inflation Methods:

- **Revenues:** An annual 2 percent inflation rate will be applied to foreseeable revenues. If a specific amount of funding is already secured, revenues are included without inflation. This method was determined through agreements made between the Nevada MPOs and Nevada FHWA.
- **Capital Projects:** An annual inflation rate of 3.5 percent is applied to all capital projects costs beginning in 2018 until the implementation start year of the project which is the estimated year of expenditure. The cost of capital projects will be deducted from the budget at the implementation start year. This method was determined through agreements made between the Nevada MPOs and Nevada FHWA.
- **Transit Operations:** An annual inflation rate of 2.7 percent is applied to transit operations costs beginning in 2018 and continues to be applied each year until 2040. The cost of transit operations projects is deducted from the budget at the beginning of the implementation start year. Transit operations are comprised of both labor and materials expenditures. TRPA determined the annual inflation rate by utilizing Consumer Price Index data for the San Francisco metropolitan area, which is also used for rent inflation comparisons at lake Tahoe. TRPA estimates labor costs will increase by 2 percent annually and materials costs will increase by 3 percent annually. TRPA took the average of these estimates to obtain an annual inflation rate of 2.7 percent for transit operations costs.
- **On-going Operations, Maintenance and Rehabilitation:** An annual inflation rate of 3.5 percent is applied to the project cost beginning in 2018 and will continue to be applied each year either until 2040 or the project is complete. The cost of ongoing operations, maintenance and rehabilitation is deducted from the budget beginning at the implementation start year. This method was determined through agreements made between the Nevada MPOs and Nevada FHWA. TRPA did not average this cost using a similar method as was done for transit operations because the primary cost for these projects are materials.
- **Large Capital Projects:** These projects may be completed in multiple phases in which case the total cost of these projects is distributed to match the Year of Expenditure, which is the implementation start year.