

How Do California's Local Governments Fund Surface Transportation? A Guide to Revenue Sources



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REPORT 21-32

HOW DO CALIFORNIA'S LOCAL GOVERNMENTS FUND SURFACE TRANSPORTATION? A GUIDE TO REVENUE SOURCES

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November 2021

A publication of

Mineta Transportation Institute

Created by Congress in 1991

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San José, CA 95192-0219

TECHNICAL REPORT DOCUMENTATION PAGE

1. Report No. 21-32	2. Government Accession No.	3. Recipient's Catalog No.	
4. Title and Subtitle How Do California's Local Governments Fund Surface Transportation? A Guide to Revenue Sources		5. Report Date November 2021	
		6. Performing Organization Code	
7. Authors Asha Weinstein Agrawal, PhD Kevin Yong Lee Serena Alexander, PhD		8. Performing Organization Report CA-MTI-1938A	
9. Performing Organization Name and Address Mineta Transportation Institute College of Business San José State University San José, CA 95192-0219		10. Work Unit No.	
		11. Contract or Grant No. ZSB12017-SJAUX	
12. Sponsoring Agency Name and Address State of California SB1 2017/2018 Trustees of the California State University Sponsored Programs Administration 401 Golden Shore, 5th Floor Long Beach, CA 90802		13. Type of Report and Period Covered Final Report	
		14. Sponsoring Agency Code	
15. Supplemental Notes DOI: 10.31979/mti.2021.1938A			
16. Abstract California local agencies raise the revenue to support high-quality transportation services and infrastructure from a patchwork of federal, state, and local sources. To assist policymakers and transportation experts as they explore options for creating a more sustainable funding system, this report presents an overview of the taxes and fees that currently generate revenue ultimately dedicated to paying for transportation at the sub-state—or "local"—level. The discussion covers federal and state as well as local sources. The report also traces the evolving contribution from each level of government for expenditures on California's local streets and roads and public transit, looking back two decades. The report concludes with a discussion of options for increasing local transportation revenue.			
17. Key Words Revenues, Types of taxes, Local government, Streets and roads, Public transit	18. Distribution Statement No restrictions. This document is available to the public through The National Technical Information Service, Springfield, VA 22161		
19. Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified	21. No. of Pages 56	22. Price

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DOI: 10.31979/mti.2021.1938A

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ACKNOWLEDGMENTS

We thank the three anonymous reviewers who provided valuable comments, the many transportation funding experts who answered questions or pointed us to data, Editing Press for editing, Alverina Weinardy for graphic design, the Mineta Transportation Institute for funding the research, and MTI staff for support, including Executive Director Karen Philbrick, PhD, and Communications and Operations Manager Irma Garcia.

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1. INTRODUCTION

California's local governments face a perennial challenge in raising the revenue required to support high-quality transportation services and infrastructure. To assist policymakers and transportation experts as they explore options for creating a more sustainable funding system, this report presents an overview of the taxes and fees that currently generate revenue dedicated to paying for transportation at the sub-state—or “local”—level. We use the term local to refer to counties, cities, and special districts, including entities that have regional responsibility, such as the Bay Area Toll Authority.

Even before the COVID-19 pandemic, funding for both streets and roads and public transit was insufficient to keep the systems in good repair and provide high-quality services. For example, a 2021 assessment from the League of California Cities found that expenditures for local streets and roads would need to be increased by \$64 billion over the next ten years in order to achieve a state of good repair for all pavement, bridges, and other essential network components (streetlights, storm drains, sidewalks, etc.).¹ Public transit operators face similar revenue struggles. Ridership across the country has been steadily declining over the years, yet many systems need to upgrade antiquated infrastructure and poorly maintained facilities.

The COVID-19 pandemic brought into sharper focus the long-standing issue of how California's local governments pay for transportation. Most critically, ridership—and therefore fare revenue—fell during the pandemic as much as 90% for some transit operators. For the industry overall, the American Public Transit Association estimated that ridership was down 66% for the week of January 3, 2021, as compared to the same week in January 2020.² Further, Americans have modestly reduced vehicle travel and more substantially changed their purchasing behaviors in the face of the pandemic. These changes impact revenue from sources that provide critical transportation funding for local entities, most notably fuel and sales taxes. The extent of those reductions remains to be seen, though a January 2021 update to the state's budget estimated a drop of 8.4% in gasoline consumption, an increase of 3.7% in diesel consumption, and a slight increase in sales tax revenue.³ The impacts have varied widely across local jurisdictions, however, with some jurisdictions seeing much larger declines in driving, taxable retail sales, and other activities that generate transportation revenue.

This research focuses on the transportation revenue available to the state's local entities. Local governments are responsible for virtually all public transit services and 86% of roads in the state,⁴ yet their unique challenges are often overlooked in state-wide policy discussions and research into transportation revenue options.

One major barrier to an effective state-wide discussion about how California can generate stable funding for local transportation is the fact that the current system is, to speak bluntly, bewildering. Every year, 482 cities, 58 counties, and numerous special districts piece together the puzzle of their transportation budgets, drawing upon a complex mix of revenue raised at every level of government—federal, state, regional, and local.⁵ Indeed, the budget for the transportation program of even a relatively small city, county, or transit operator relies on revenue raised by at least a dozen sources.

The majority of transportation revenue at the local level comes from a combination of local sales taxes imposed in 25 counties,⁶ plus a host of different taxes and fees paid by direct users of the transportation system, with the proceeds dedicated for transportation purposes by law. Examples of user fees include motor fuel taxes, truck weight fees, public transit fares, parking fees, and local vehicle registration fee surcharges. In addition, government entities also make annual allocations from their general fund revenue to supplement the revenue raised directly from transportation users.

This report is the first of a two-part series that aims to support meaningful dialog about local transportation funding options among policymakers, stakeholders, transportation professionals, and researchers. This first report provides a snapshot of the different revenue tools currently used in the state, as well as some options used outside California. (The report provides basic information about the revenue options, but deliberately does not attempt to analyze their suitability or recommend which have more or less merit.) The second study will report findings from a set of interviews with transportation experts about the challenges they face in raising adequate revenue, and their ideas for innovations and reforms.

This report focuses on those taxes and fees that raise at least some revenue that is dedicated for transportation purposes at the local level, whether the revenue is spent by cities, counties, or special districts. In some cases, the revenue is restricted by law to transportation purposes only, while in other cases the governing body has passed a resolution documenting an ongoing intent to allocate revenue for transportation purposes.

The remainder of the report is organized as follows:

- Chapter 2 provides an overview of the different local, state, and federal revenue sources from which at least some portion is earmarked for local transportation;
- Chapter 3 describes the primary federal revenue sources;
- Chapter 4 describes the primary state revenue sources;
- Chapter 5 describes the primary local revenue sources; and
- Chapter 6 concludes the report with a discussion of options for increasing local transportation revenue.

2. AN OVERVIEW OF SOURCES OF SURFACE TRANSPORTATION REVENUE IN CALIFORNIA

This chapter provides a high-level survey of the revenue tools used to raise local transportation funding. The initial sections describe the conceptual differences between taxes and fees, the different types of local government entities that impose taxes and fees, and an overview of the types of taxes and fees that generate revenue dedicated for surface transportation. The last sections present data on the relative amount of revenue contributed by local governments, the state, and the federal government.

2.1. TOOLS TO RAISE REVENUE: TAXES VS. FEES

The State of California's legal code carefully restricts the mechanisms that government entities may use to raise revenue. Many of these laws and constitutional amendments govern activity by both the state itself and local entities. In addition, the state places further limits on the revenue tools available to local governments.

Within California law, the terms "tax" and "fee" refer to different types of charges. "Fees," sometimes known as "enterprise revenues," are charged in exchange for a specific service. The rate should be set so that the governing entity recoups only the revenue needed to provide the service, and the revenue collected must not be used for other purposes. Elected officials may impose fees directly, without voter approval. Examples of fees include charges for obtaining licenses and permits, parking, or driving on a tolled highway.

Local government charges that are not "fees" are usually considered "taxes." The revenue raised from taxes, sometimes called "non-enterprise revenue," typically has fewer restrictions than fees on how the money can be spent. Ad valorem property taxes and parcel taxes are examples of non-enterprise revenues.⁷ A final important concept related to taxes is the distinction between "general" and "special" taxes. "Special taxes" are similar in concept to a fee, in that the revenue collected through a special tax can only be spent for specific purposes. Two-thirds of voters are required to approve a special tax. By contrast, general tax revenue can be spent on any purpose, and these taxes need approval from the majority of voters.⁸

Although these are less commonly used tools to generate transportation revenue in California, local governments can also raise revenue through mechanisms such as fines and penalties, franchise agreements on solid waste collection and utilities, and payments that a private entity pays to use public property (rents, royalties, and concessions).⁹

2.2. TYPES OF LOCAL GOVERNMENT ENTITIES THAT IMPOSE TAXES AND FEES

The State of California recognizes three types of local government entities: counties, cities, and special districts.

State land is distributed across 58 counties. Counties provide some services and programs to all residents within their boundaries (e.g., managing federally funded public assistance

programs and running local elections), as well as providing essential services for residents who do not live within the boundaries of a city or special district that provides such services. Roads are one essential service that counties provide to residents living in unincorporated areas (i.e., areas that are not part of a city).¹⁰

An “incorporated city” is an area within a county that has been legally designated as the local entity which will provide (and pay for) an array of basic services for its residents. These responsibilities including the provision and management of local streets. Some cities, known as “full service,” have financial responsibility for providing the great majority of essential services. However, many cities transfer financial responsibility for certain services to either the county or special districts.¹¹

Special districts are forms of local government that provide specific public services within their jurisdiction such as water, sewage, electricity, and fire protection.¹² The California State Controller reported over 3,000 active special districts in the state for 2018. These vary in size and services, with some exclusively, or in part, providing transportation infrastructure services.¹³ “Independent” special districts have their own governing bodies and are not directly accountable to any other local entity. “Dependent” special districts have a close relationship with another local governing entity, typically a county or city, and that entity’s elected leaders control the special district.¹⁴ Table 1 presents the different types of special districts that have transportation responsibilities.

Two types of special districts that are particularly important from a transportation perspective are congestion management agencies (CMAs) and public transit operators. CMAs are special districts representing a single county that distribute state transportation revenue and may serve as the agency that administers a locally approved transportation sales tax. Some of these, such as the Los Angeles County Metropolitan Transportation Authority, are contiguous with a county, and thus the same elected officials govern both the county and special district. As for public transit districts, these entities’ primary mission is operating local or regional public transportation services (e.g., bus or rail). Two examples of independent special districts that operate transit services are the San Francisco Bay Area Rapid Transit (BART) District and the Alameda-Contra Costa Transit Agency (AC Transit). Each entity has its own governing board and legal authority to impose taxes and fees.

Table 1. Types of Special Districts that Provide Transportation Services or Infrastructure

District type	Purpose
Transit districts	Construct and operate rail lines, bus lines, stations, platforms, terminals, and any other facilities necessary or convenient for transit service
Community services districts	Provide up to 32 different services, including the construction, improvement, and maintenance of streets, roads, rights-of-way, bridges, and sidewalks.
Municipal utility districts	Manage and supply light, water, power, heat, transportation, telephone service, or other means of communication, or means for the collection, treatment, or disposition of garbage, sewage or refuse matter
Public utility districts	Maintain the infrastructure to provide electricity, natural gas, water, power, heat, transportation, telephone service, or other means of communication, or the disposition of garbage, sewage, or refuse matter
Harbor districts	Manage any bay, harbor, inlet, river, channel, etc. in which tides are affected by the Pacific Ocean
Airport districts	Assist in the development of airports, spaceports, and air navigation facilities
Port districts	Maintain and secure the ports
Recreation and park districts	Organize and promote programs of community recreation, parks and open space, parking, transportation, and other related services that improve the community's quality of life

Source: California Special Districts Association, "Special District Formation Guide" (2016), <https://calafco.org/sites/default/files/documents/2016%20Formation%20Guide%20WEB.PDF>.

2.3. TAXES AND FEES THAT GENERATE EARMARKED TRANSPORTATION REVENUE

It is surprisingly difficult to identify the set of revenue tools that fund transportation, let alone document the amount of revenue that each raises statewide. The following are some of the key reasons:

- While some special taxes or fees are clearly and completely designated for transportation purposes (e.g., fuel taxes), many other revenue instruments are used for transportation in some but not all jurisdictions. For example, only a few jurisdictions designate that some portion of their parking fee revenue be spent for transportation purposes.
- Sometimes only a *portion* of the revenue raised from a specific source may be dedicated for transportation (e.g., the state sales tax on diesel fuel).
- Some taxes and fees that one might reasonably assume must be "transportation user fees" with revenue dedicated to the system are actually not sources of transportation funding. Two examples are the state's Vehicle License Fee and parking revenue from most (but not all) local entities.
- Some portion of local, state, and federal "general fund" (unrestricted) revenues also pay for transportation, but the amount is determined each year in the budget allocation process, and there are no centralized, statewide records documenting statewide what portion of local transportation budgets comes from these general fund sources.

- Least visible of all, but critically important, not all expenditures that directly benefit travel infrastructure and services are labeled as “transportation” expenditures in official reporting. As a result, these remain invisible in any “transportation” accounting even at the level of a single entity. For example, storm-water management infrastructure is typically not documented in accountings of “transportation,” even though these systems lie directly along roadways and control roadway flooding. Also, in many locations street-lighting and road-side landscaping are managed by a department of public works rather than a department of transportation, so are not recorded as transportation expenditures. And to give a final example, electric vehicle charging infrastructure has not typically been considered a transportation function in budget reports.

Despite these many complications, there are a set of revenue tools commonly used and documented as raising transportation revenue. Table 2 presents the revenue tools that are the focus of this report—those generating funds that are earmarked for local entities to spend on surface transportation. This set includes federal, state, and local charges. In many cases, the taxes and fees discussed are by statute dedicated for transportation purposes. However, we also describe taxes and fees for which local governing body has formally resolved to spend a portion of the revenue on transportation purposes over many years.

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This study excludes from consideration the following types of taxes and fees:

- **Taxes and fees that provide “general fund” revenue, without any accompanying legislative resolution to dedicate the money to transportation:** Although some government entities allocate a portion of their unrestricted general fund revenue for transportation, that decision is made annually and there is no guarantee of a continuing revenue stream. Examples of such general-purposes taxes are general property taxes and income taxes.
- **Taxes and fees paid by users of the transportation system for which the revenue is never transferred to cities or counties for transportation purposes:** Examples include the state driver license and vehicle registration fees (these fund the state’s Department of Motor Vehicles and Highway Patrol), the state Vehicle License Fee (a property tax on vehicle ownership), and the parking fees collected in most local jurisdictions.
- **Proceeds from bond measures:** Bonds are a financing tool that allows

governments to spend money earlier than they collect it, but bonds do not generate “revenue.” As any person with a home loan, auto loan, or credit card knows, borrowed money must eventually be repaid.

Table 2. Types of Revenue Instruments that Raise Funds Earmarked for Local Transportation

Type of revenue instrument, by tax base	Federal	State	Special district	County	City
Fuels					
Gasoline fuel excise tax	✓	✓			
Diesel fuel excise tax	✓	✓			
Diesel fuel sales tax		✓			
Vehicles					
Truck and truck-tire sales tax	✓				
Truck weight fee	✓	✓			
Vehicle registration fee				✓	
Transportation system use					
Toll			✓	✓	
Fares + other transit-operator-generated revenue ^a			✓	✓	✓
Parking fees			✓		✓
Ride-hailing tax					✓
Refuse vehicle impact fee			✓	✓	✓
Real property					
Development fee			✓	✓	✓
User-utility tax			✓	✓	✓
Occupancy tax				✓	✓
Parcel tax			✓	✓	✓
Other					
Sales tax		✓	✓	✓	✓
Transient occupancy tax			✓		✓
Business-license tax			✓		✓
Cap-and-trade program		✓			
Franchise agreements (e.g., utilities)					✓

^a For example, advertising revenue.

2.4. STREETS AND ROADS: LOCAL, STATE, AND FEDERAL CONTRIBUTIONS

Across all levels of government, the total funding for California’s transportation system in fiscal year 2018–2019 has been reported at approximately \$35 billion dollars.¹⁵ Local

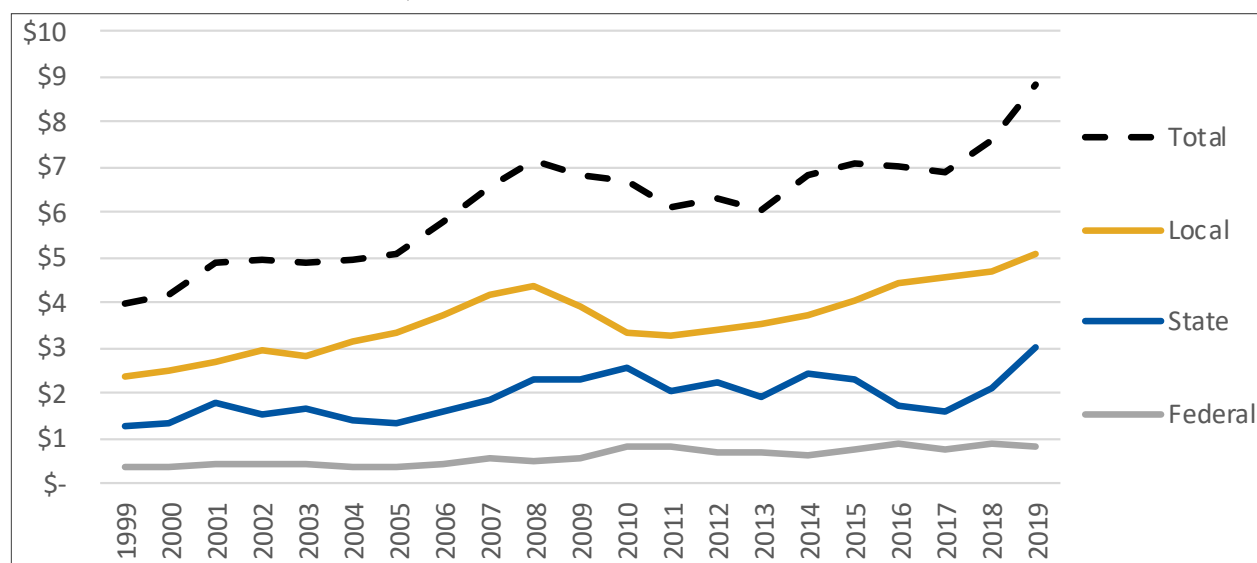
governments contributed just shy of one half of this amount. The state contributed approximately one-third of the total, and the federal government provided the remainder.

Because funding city streets and county roads is at the heart of every city and counties' transportation responsibilities, we looked in detail at how contributions from different levels of government have evolved over the past two decades.

Figure 1 presents the total revenue made available by federal, state, and local governments for streets and roads across a 20-year time period in nominal dollars, Figure 2 shows the same data adjusted to the equivalent of 2020 dollars, and Figure 3 shows the data in terms of the percent contributed annually by each level of government.¹⁶

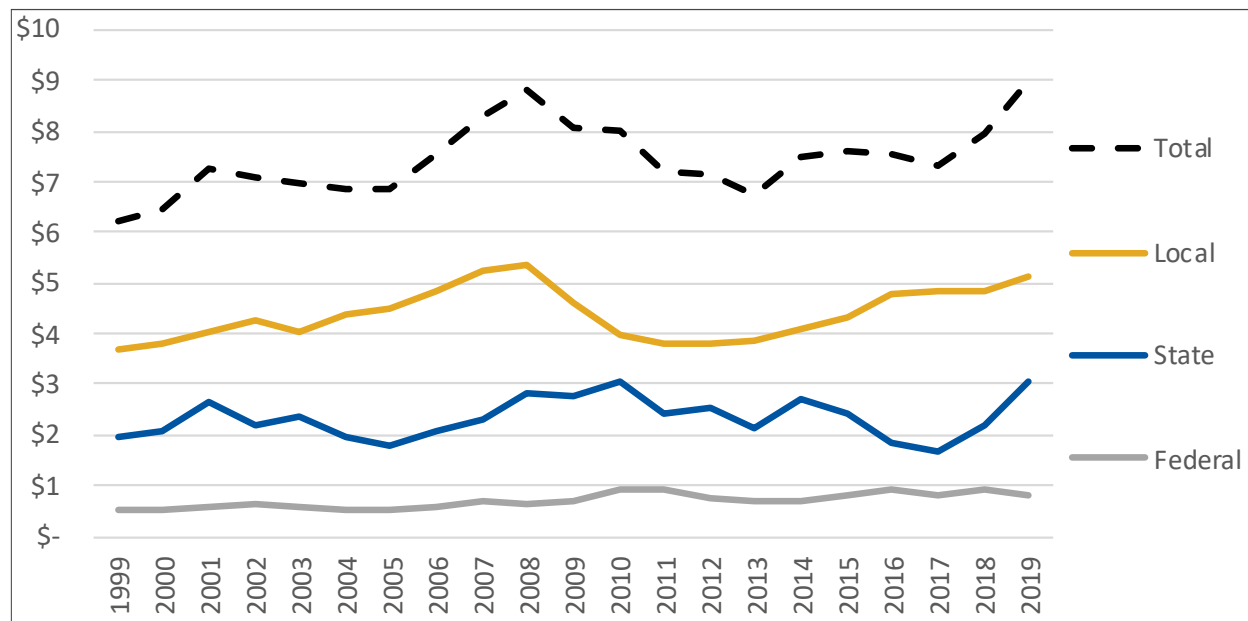
From a first glance at Figure 1, the total amount of revenue available over the two-decade span may look to have been growing at a healthy rate, but that first impression is misleading. In nominal dollars total revenue has roughly doubled, from approximately \$4 billion to \$9 billion, but once the values are adjusted for inflation, the growth is only about 50%, from roughly \$6 billion to \$9 billion (Figure 2). During that same period the number of licensed drivers in California grew 28%, roadway miles grew 5%, and the number of bridges grew 9%, expanding the set infrastructure to be maintained.¹⁷ Further, during that period many portions of the state's transportation infrastructure reached the end of its functional lifespan and needed major rehabilitation. As noted earlier, the League of California Cities estimated that expenditures for local streets and roads would need to be increased by \$64 billion over the next ten years in order to achieve a state of good repair.¹⁸

Figure 1. Billions of Nominal Dollars Available for Roads and Streets, by Level of Government, 1999–2019

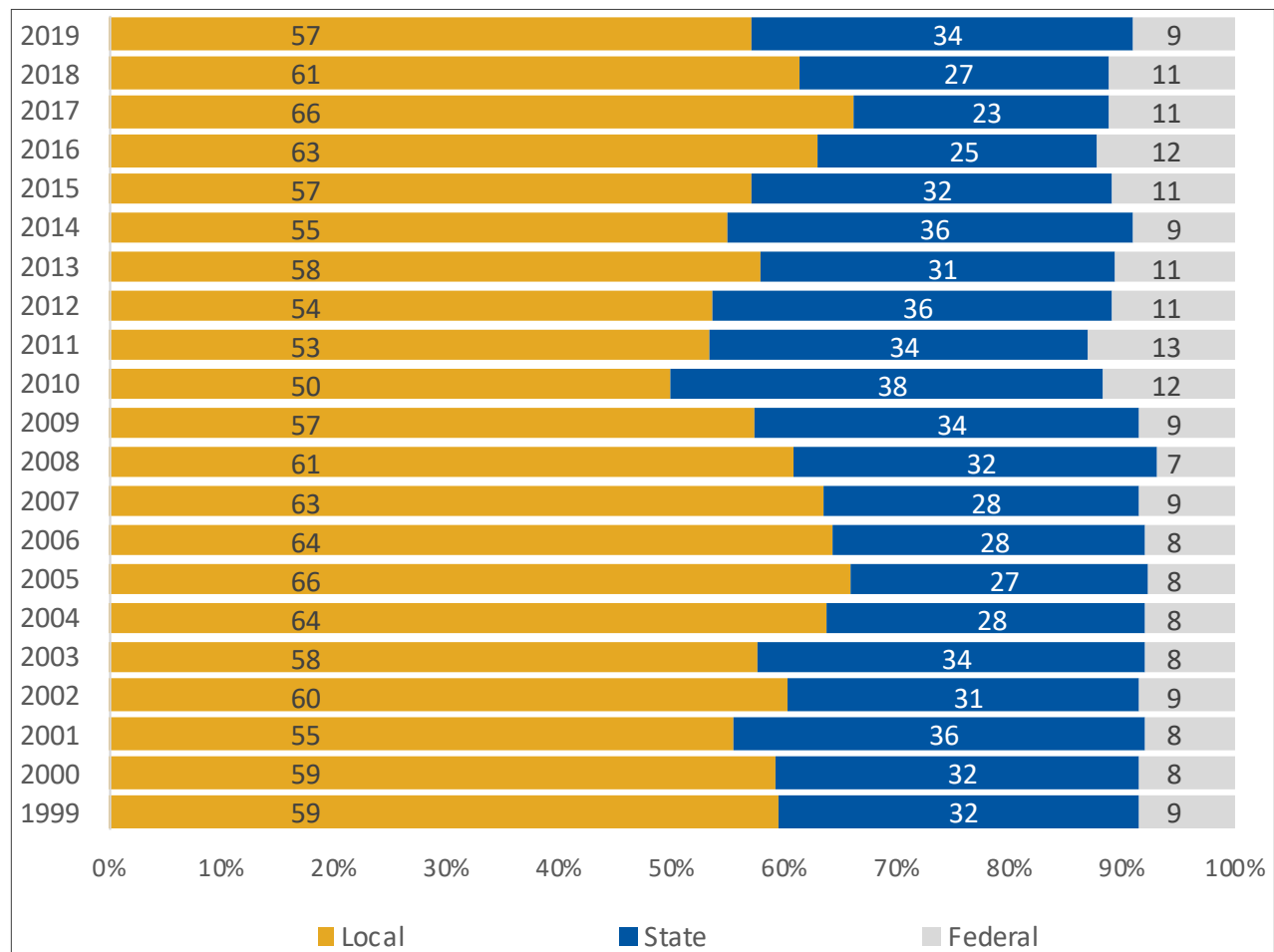


Sources: California State Controller's Office, "California State Controller's Office Local Government Financial Data," accessed May 26, 2020, <https://bythenumbers.sco.ca.gov/>; California State Controller's Office, "Streets and Roads Annual Report Publications," accessed May 26, 2020, https://sco.ca.gov/ard_locrep_streets.html; CoinNews Media LLC, "US Inflation Calculator," accessed May 26, 2020, <https://www.usinflationcalculator.com/>.

Figure 2. Billions of 2020 Dollars Available for Roads and Streets, by Level of Government, 1999–2019



Sources: “California State Controller’s Office Local Government Financial Data,” California State Controller’s Office, accessed May 26, 2020, <https://bythenumbers.sco.ca.gov/>; “Streets and Roads Annual Report Publications,” California State Controller’s Office, https://sco.ca.gov/ard_locrep_streets.html.

Figure 3. Percent of Revenue for Roads and Streets Provided by Each Level of Government, 1999–2019

Sources: California State Controller's Office, "California State Controller's Office Local Government Financial Data," <https://bythenumbers.sco.ca.gov/>; California State Controller's Office, "Streets and Roads Annual Report Publications," May 26, 2020, https://sco.ca.gov/ard_locrep_streets.html.

Local government revenue sources have consistently provided the majority of funds for streets and roads. Local contributions ranged from one-half to two-thirds of total annual revenue. In nominal dollar terms, the local contribution has, for the most part, steadily increased since 1999. In 1999, locals were generating \$2.3 billion annually, but by 2019 they were contributing \$5.1 billion. The one exception to this steady increase occurred during the years of the Great Recession, from late 2007 through mid-2009. During this period, local contributions for roads and streets fell sharply, in great part due to reduced sales revenues.

The relative contribution from state sources has fluctuated throughout the twenty years, ranging from 23% to 38% of total revenue. The nominal dollar value over that same period ranged from a low of \$1.26 billion in 1999 to a high of \$2.99 billion in 2019. Between 2014 and 2017, state transportation revenue fell notably, a slide that was reversed with the passage of Senate Bill 1 (SB1): The Road Repair and Accountability Act. SB1 raised fuel tax rates and imposed new annual vehicle registration fees. Collectively, these taxes and fees are projected to raise \$54 billion over a decade, with half going to cities and counties.¹⁹ The impact of SB1 has been immediate, as Figure 1 shows; the state contribution grew from

\$1.55 billion in 2017 to \$2.09 billion in 2018, a 74% increase. The upward trend continued in 2019, to over \$3 billion.

The federal contribution to funding California's streets and roads has been modest throughout the two decades, fluctuating between 7% and 13%. In nominal dollar terms, the federal government contributed \$0.34 billion in 1999, with revenues growing more or less steadily to \$0.81 billion in 2019. During this period, there was one larger jump in expenditures in 2009 and 2010, when additional federal funds were disbursed to states through the American Recovery and Reinvestment Act.²⁰

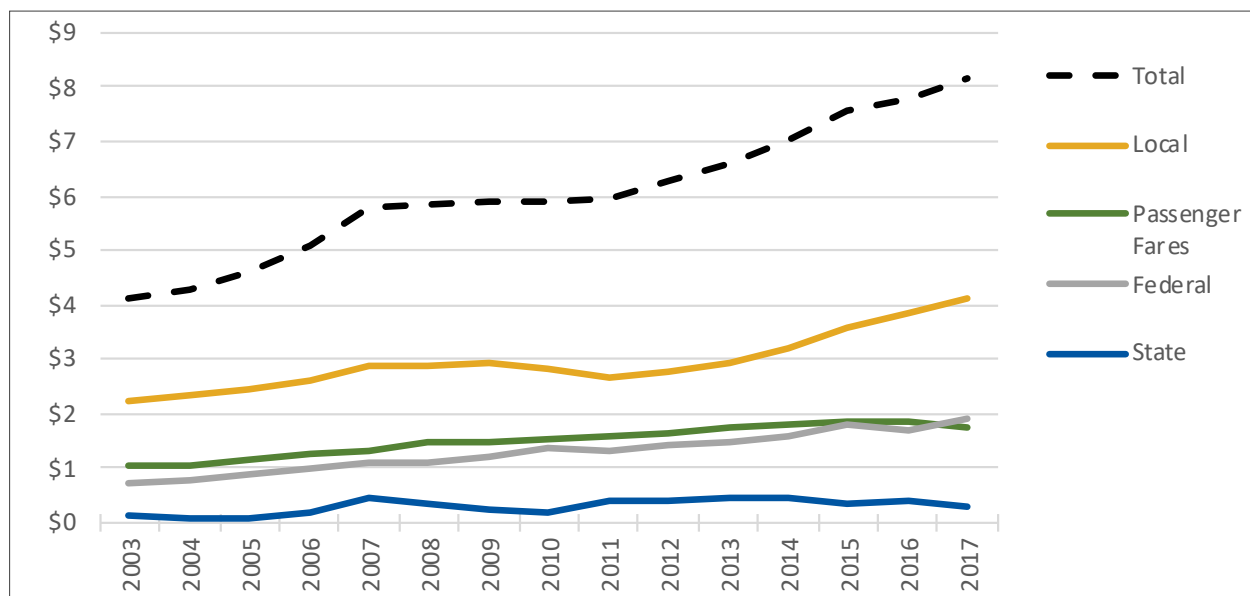
2.5. PUBLIC TRANSIT: LOCAL, STATE, AND FEDERAL CONTRIBUTIONS

Figures 4, 5, and 6 present data on the sources of revenue for California's public transit operators from 2003 to 2017. Figure 4 shows the nominal value of revenue raised by each level of government, as well as from passenger fares, and Figure 5 shows the same data adjusted for inflation. Figure 6 shows the percent of total annual revenue contributed by each source. (Table A2, in Appendix A, presents the data used to construct the figures.)

Total revenue has grown from about \$4 billion to \$8 billion. Revenue from every level of government has grown slightly throughout the period, with the lowest increase in state funds.

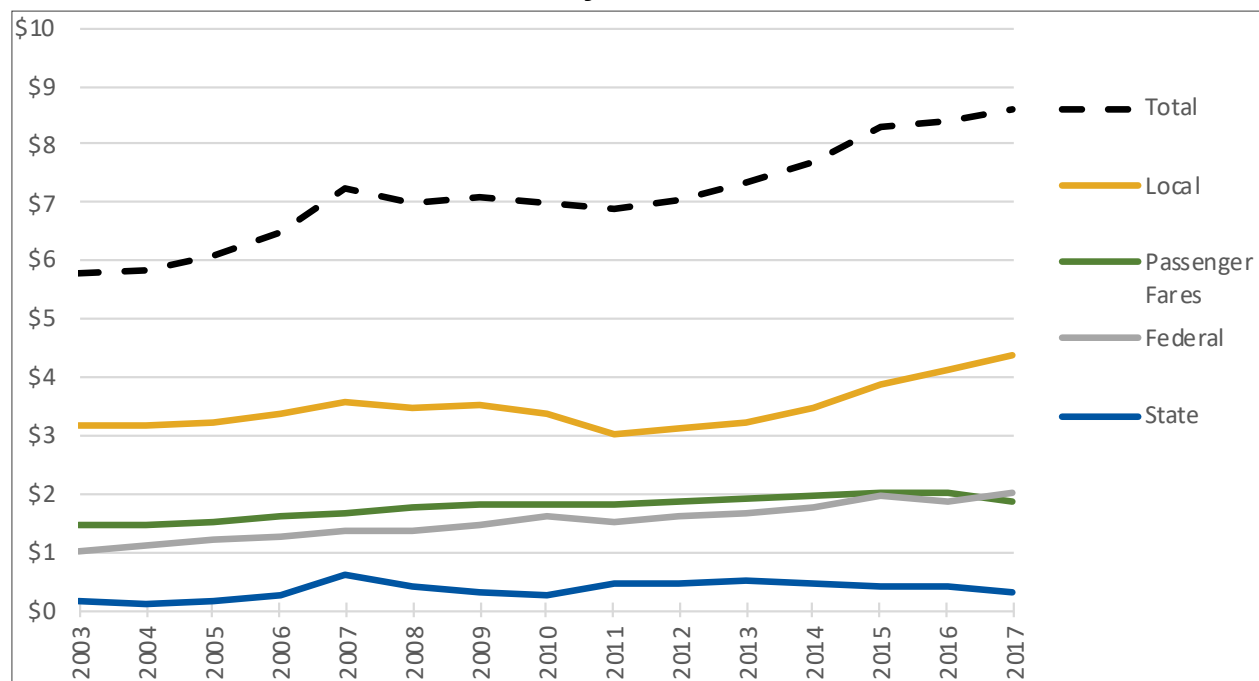
The relative size of the contributions each source makes to the total revenue has changed little over time. The local contribution has been the largest, hovering around 50%. Passenger fares have raised roughly a quarter of revenues, federal revenues have hovered around 20%, and the state's contribution has been the smallest, providing from between just 2% and 8% of annual revenues.

Figure 4. Billions of Nominal Dollars Available for Public Transit, by Level of Government and By Fares, 2003–2017



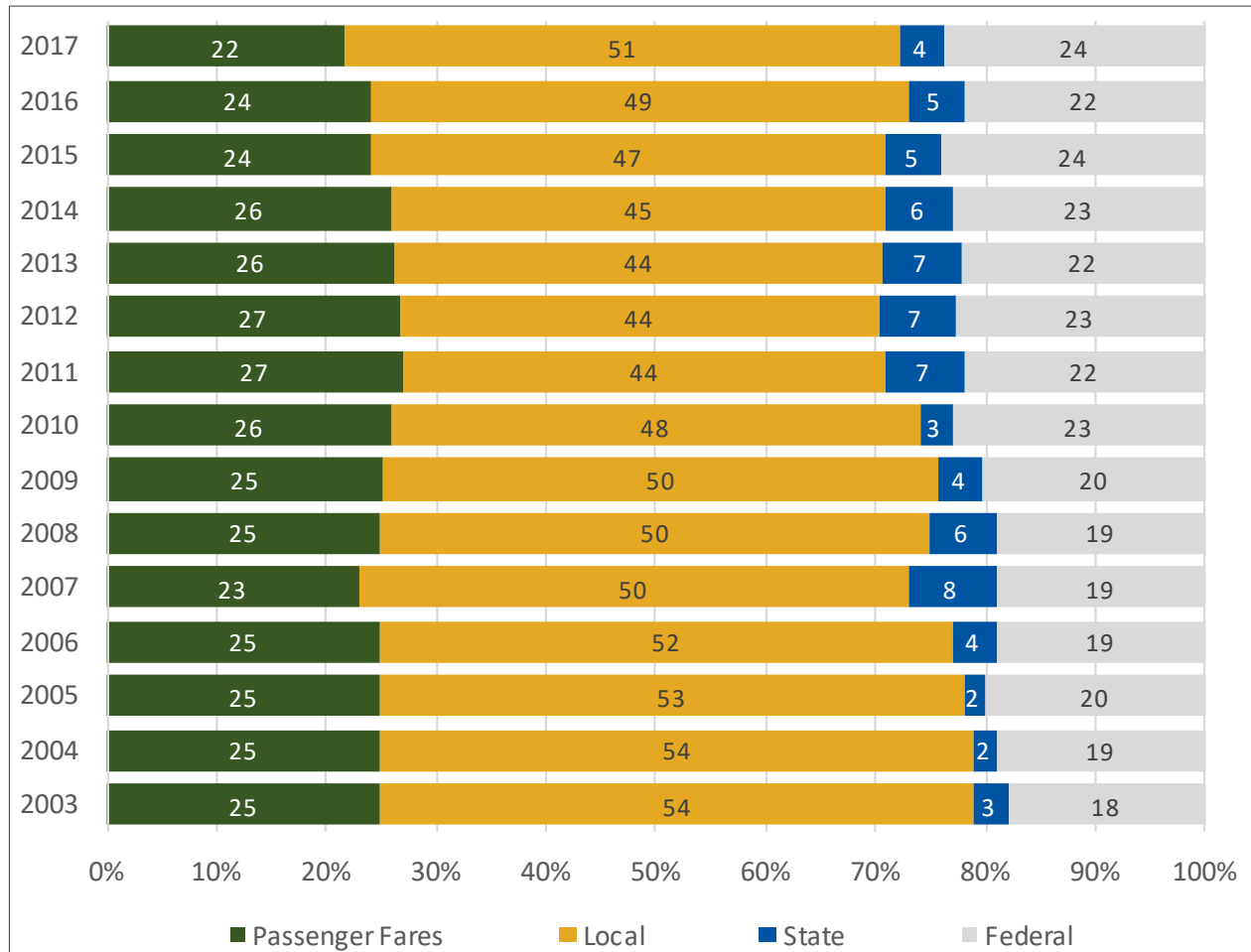
Source: California Transit Association, "Transit Data: An Interactive Repository of Facts and Figures on California Public Transit," 2021, <https://caltransit.org/about/transit-data/>.

Figure 5. Billions of 2020 Dollars Available for Public Transit, by Level of Government and by Fares, 2003–2017



Source: California Transit Association, "Transit Data: An Interactive Repository of Facts and Figures on California Public Transit," 2021, <https://caltransit.org/about/transit-data/>.

Figure 6. Percent of Revenue for Public Transit in Provided by Each Level of Government and By Fares, 2003–2017



Source: California Transit Association, "Transit Data: An Interactive Repository of Facts and Figures on California Public Transit," 2021, <https://caltransit.org/about/transit-data/>.

3. FEDERAL REVENUE SOURCES

This chapter describes the main federal sources of revenue that fund the Highway Trust Fund (HTF), the principal source of federal transportation revenue.²¹ The HTF is composed of two sub-accounts: the Highway Account, which funds highways and bridges, and the Mass Transit Account, which funds capital expenditures for public transit such as bus, rail, and ferry systems. Funds provided by the federal government are distributed to individual states, largely based on allocation formulas established by legislation.

The HTF has traditionally been funded through excise taxes imposed on the sale of gasoline and diesel motor fuels, sales of truck, trailers, and truck tires, and an annual weight fee on heavy vehicles. Taxes on fuels account for more than 80% net total deposits.²² Since 2008, the federal government has transferred general fund revenue to the HTF to main solvency. These transfers have filled the gap between the amounts allocated and tax revenue collected.²³

3.1. MOTOR FUEL EXCISE TAX

Tax base:	Gallons of motor fuel
Rate:	18.4 cents per gallon (gasoline); 24.4 cents per gallon (diesel); separate rates for special fuels
Total revenue (national):	\$37.7 billion (FY 2019) ²⁴
Revenue restricted to:	Highway Trust Fund

3.2. HEAVY TRUCK AND TRAILER SALES TAX

Tax base:	Sales of trucks over 33,000 pounds and trailers over 26,000 pounds
Rate:	12%
Total revenue (national):	\$5.33 billion (FY 2019) ²⁵
Revenue restricted to:	Highway Trust Fund

3.3. EXCISE TAX ON HEAVY-DUTY TIRE SALES

Tax base:	Sales of tires for trucks rated with a maximum load capacity of over 3,500 pounds ²⁶
Rate:	9.45 cents per 10 pounds of tire
Total revenue:	\$5.34 million (FY 2019) ²⁷
Revenue restricted to:	Highway Trust Fund

3.4. HEAVY VEHICLE USE TAX

Tax base:	Trucks with a gross vehicle weight of over 55,000 pounds
Rate:	\$100, plus \$22 for every 1,000 pounds over the maximum vehicle weight (annual)
Total revenue:	\$1.29 billion (FY 2019) ²⁸
Revenue restricted to:	Highway Trust Fund

4. STATE REVENUE SOURCES

This chapter presents those state taxes and fees for which some portion of the revenue is dedicated for local transportation purposes. Excluded are two major categories of fees paid by transportation system users that are not allocated directly for local transportation purposes: the Vehicle License Fee (VLF) and the state's base vehicle registration fees. Revenue from the VLF is deposited in the state's general fund, and a portion is transferred to local governments as general fund revenue. As for the base vehicle registration fees, revenue from these primarily funds the California Department of Motor Vehicles (DMV) and California Highway Patrol (CHP).²⁹ Although both the DMV and CHP obviously provide services to transportation system users, neither agency has traditionally been considered part of the state's "transportation" expenditures.

The state relies heavily on user fees to pay for transportation, a trend that has held for over a century. In 1913, California introduced its first such tax, the Motor Vehicle Act of 1913. This act created an annual vehicle registration fee, with the rate varying according to engine horsepower. This new tax was designed to be a "user fee" that drivers paid, and the revenue was dedicated to pay off bonds issued to pay for construction of a planned 3,000-mile state highway system that had been legislatively authorized a decade earlier, in 1901. A weight-based annual registration fee on heavy commercial vehicles was adopted shortly after, in 1915. Less than a decade later, the 1923 California Vehicle Act imposed a two-cent per gallon tax on gasoline fuels.

Since those early days, the state has periodically adjusted the rates of these taxes and added other transportation user fees, including an annual vehicle license fee assessed as a percent of the vehicle's market value (seen as analogous to the property tax on land) and an excise tax on diesel fuel.³⁰ The most recent major change took place in 2017, when SB1 raised fuel excise tax rates and added two new annual vehicle fees whose proceeds are spent on transportation functions, including at the local level.³¹ As discussed in the previous chapter, SB1 proved a watershed moment for local transportation, more than doubling state contributions.

4.1. GASOLINE MOTOR FUEL EXCISE TAX

Tax base:	Gallons of gasoline fuel (excludes gasoline used for off-highway vehicles such as agricultural vehicles and boats)
Rate:	\$0.511 (a base excise of 19.2¢ per gallon + an incremental "swap" tax + an SB1 tax (SB1 rates to be adjusted annually, per SB1) ³²
Total revenue:	\$6.43 billion (FY 2018–2019) ³³
Revenue restricted to:	State highways, local streets, local roads

4.2. DIESEL MOTOR FUEL EXCISE TAX

Tax base:	Gallons of diesel fuel
Rate:	\$0.389 per gallon (as of July 2021) ³⁴
Total revenue:	\$1.16 billion (FY 2018–2019) ³⁵
Revenue restricted to:	Public transit operations and capital projects, high-speed rail development, road maintenance and rehabilitation, highway construction and improvements, and freight infrastructure improvements via various state funds. ³⁶

4.3. SALES TAX ON DIESEL FUEL

Tax base:	Sales of diesel fuel
Rate:	5.75%
Total revenue:	\$0.90 billion (estimate for 2019) ³⁷
Revenue restricted to:	Public transit operations

4.4. TRANSPORTATION IMPROVEMENT FEE

Fee base:	Registered light-duty vehicles
Rate:	Currently \$27–\$188, depending on vehicle value (SB1 directs the state to adjust the fee in accordance with the Consumer Price Index) ³⁸
Total revenue:	\$1.67 billion (FY 2018–2019) ³⁹
Revenue restricted to:	Streets and roads, highways, and public transit

4.5. ROAD IMPROVEMENT FEE

Fee base:	Light-duty, zero-emission vehicles (e.g., electric vehicles) of model years 2020 and later*
Rate:	\$100 annually (rate to increase, per SB1)
Total revenue:	\$0.02 billion (2020, estimated) ⁴⁰
Revenue restricted to:	Road maintenance and rehabilitation

4.6. VEHICLE WEIGHT FEE

Fee base:	Commercial vehicles
Rate:	Ranges from \$8–\$539 for light-weight trucks, vans, and pickups with unladen weight of 8,000 lbs., charters and carriers with declared gross vehicle weight of <10,000 lbs., and park trailers. Fees are based on unladen weight, number of axles, and electric vehicle designation. Ranges from \$332–\$2,064 for commercial vehicles that weigh 10,001 lbs. or more and pay the Commercial Vehicle Registration Act of 2001 (CVRA) fees; the rates are based on a weight code and range.⁴¹
Total revenue:	\$1.2 billion (FY 2019–2020, forecasted) ⁴²
Revenue restricted to:	Debt repayments (through the Transportation Debt Service Fund), mostly for bonds from Proposition 1B (2006) and Proposition 1A (2008)

4.7. BRADLEY-BURNS UNIFORM LOCAL SALES AND USE TAX

Tax base:	Sales of merchandise
Rate:	1.25% ⁴³
Total revenue:	\$9.1 billion in total, with \$314 million dedicated to local transportation projects (FY 2018–2019) ⁴⁴
Revenue restricted to:	County transportation needs ⁴⁵

4.8. CAP AND TRADE PROGRAM

Source of revenue:	Allowances (permits) for metric tons of carbon dioxide equivalent emissions
Price per allowance:	Determined each year by auction
Total revenue:	\$0.15 billion for the Low-Carbon Transit Operations program and \$0.29 billion for the Transit and Intercity Rail Capital Program (FY 2018–2019) ⁴⁶
Revenue restricted to:	Auction proceeds are deposited in the Greenhouse Gas Reduction Fund, which funds a variety of programs, following requirements set out in a series of statutes. Current investment categories that support local transportation are the Transit and Intercity Rail Capital Program and Low Carbon Transit Operations Program. The program also funds other transportation programs, including high-speed rail and clean vehicle technology. ⁴⁷

5. LOCAL REVENUES: CITIES, COUNTIES, AND SPECIAL DISTRICTS

This chapter describes the revenue instruments that California's local governments commonly use to raise dedicated transportation revenue. The specific package of measures varies greatly among the state's hundreds of local jurisdictions. There are currently 482 incorporated cities, 58 counties, 68 transit operations, 49 transportation planning districts, and dozens of other special districts in California that are all responsible for some set of transportation infrastructure and services within their jurisdictions.⁴⁸

Although local entities are required to provide most of the transportation services within their jurisdictions—and must balance their budgets annually—the state imposes numerous restrictions on local entities' ability to impose taxes and fees. A 2016 guide to the state's local government finance system summarizes these limitations as follows:

- Property taxes may not be increased except with a two-thirds vote to fund a general obligation bond.
- The allocation of local property tax among a county, and cities, special districts and school districts within each county is controlled by the Legislature.
- Voter approval is required prior to enacting, increasing, or extending any type of local tax.
- Assessments to pay for public facilities that benefit real property require property owner approval.
- Fees for the use of local agency facilities and for services may not exceed the reasonable cost of providing those facilities and services.
- Fees for services such as water, sewer, and trash collection are subject to property owner majority protest.⁴⁹

This chapter describes the different tax and fee options most commonly used to fund surface transportation, including details on key legislative restrictions and one or more examples of California local entities using the tax. For a few tax types we also provide an estimate of annual revenue raised state-wide, but in most cases that information is not available.

5.1. LOCAL-OPTION SALES TAX

Tax base:	Sales of merchandise
Rate:	Maximum 2% rate of combined taxes in any county, or more with state legislative authorization ⁵⁰
Total revenue:	County taxes: \$8.71 billion (FY 2018–2019) ⁵¹ ; total state revenue from local option taxes

Transportation-specific local-option sales taxes (LOSTs) serve as a primary revenue source for numerous counties, as well as some special districts operating transit services.⁵²

Legislative Authority: The state permits counties and cities to impose local sales taxes, but only under a set of strict condition. To enact a sales and use tax, the proposal must first be approved by a two-thirds majority of the board of supervisors for a county or a two-thirds majority of the governing body of a city. It must then be approved by simple majority (50%) of voters for a general tax measure or by a two-thirds majority for a specific tax, such as a LOST. The law requires that an expenditure plan be created for any tax enacted and that the tax rate be set at a multiple of 0.25%.⁵³ The statutory maximum of a combined transaction and use tax rate in any California county is limited to two percent.⁵⁴

Permitted Expenditures: Local sales tax revenue can be used for a variety of purposes, but there is a higher legal barrier for special purpose taxes. For sales tax measures that contribute to a local government's general fund, the measure requires a simple majority (50%) to pass. However, a supermajority (two-thirds) is required to approve a sales tax measures where the local government will earmark revenue for specific purposes, such as transportation projects.

Example: In 2016, the Santa Clara Valley Transportation Authority placed Measure B on the ballot, asking voters to approve a 0.5% sales tax to fund transportation-related projects related to bicycle and pedestrian safety, public transit accessibility, and highway congestion. The measure was approved by nearly 72% of the voters, exceeding the supermajority threshold required for transportation-specific sales tax proposals.⁵⁵

5.2. COUNTY TRANSPORTATION PROJECT FEE (VEHICLE REGISTRATION FEE)

Fee base:	Registered vehicles within a participating county
Rate:	\$10 per vehicle

Counties may partner with the DMV to collect a \$10 County Transportation Project Fee (CTPF) in conjunction with collection of the state's vehicle registration fees. Currently, five counties in the San Francisco Bay Area collect a CTPF.⁵⁶ The revenue is spent on local transportation programs.

Table 3. California Counties with a CTPF Registration Charge

County	Legislation	Revenue/year (estimated)	Spending purposes	Eff. date
Alameda	Measure F	\$11 million	Local road improvement, traffic congestion relief, local transportation technology, and pedestrian and bike safety	5/2/11
Marin	Measure B	\$2.3 million	Local streets and pathways maintenance, senior and disabled persons transit, and congestion and pollution reduction	5/2/11
San Francisco	Proposition AA	\$5 million	Street repair and reconstruction, pedestrian safety, transit reliability, and mobility improvements	5/2/11
San Mateo	Measure M	\$6.7 million	Local streets and roads and county transportation programs	5/5/11
Santa Clara	Measure B	\$14 million	Local transportation improvements, including pothole repair, paving, traffic control signals. Matching state/federal funds	5/2/11

Sources: “Alameda County Transportation Improvement Measure Expenditure Plan,” Alameda County Transportation Commission, published December 2018, https://www.alamedactc.org/wp-content/uploads/2018/12/VRF-Expenditure_Plan-1.pdf; “Measure B – Marin County Vehicle Registration Fee,” Transportation Authority of Marin, published August 2017, <https://www.tam.ca.gov/wp-content/uploads/2017/08/Measure-B-VehicleRegistrationFee.pdf>; “Prop AA Vehicle Registration Fee,” San Francisco County Transportation Authority, Accessed March 6, 2020, <https://www.sfcta.org/funding/prop-aa-vehicle-registration-fee>; “Measure M Implementation Plan,” City/County Association of Governments of San Mateo County, Amended May 10, 2012, https://www.ccag.ca.gov/wp-content/uploads/2014/06/Measure-M-Implementation-Plan_May2012Amendment-FINAL.pdf; “2010 \$10 Vehicle Registration Fee,” Valley Transportation Authority, accessed March 6, 2020, <https://www.vta.org/projects/funding/2010-10-vehicle-registration-fee>.

Legislative Authority: The authority to impose a CTPF is granted through California Senate Bill 83, which was approved in 2009. County transportation agencies may impose a maximum \$10 registration for transportation-related programs, subject to voter approval.⁵⁷ Typically special taxes require a supermajority for passage, but CTPFs only require a simple majority due to the provisions in SB83. A county transportation agency may directly coordinate with the Department of Motor Vehicles to set up a contract for the collection of a CTPF and is responsible for any initial program setup costs.

Permitted Expenditures: CTPF revenue must be spent for transportation projects within the taxing jurisdiction and the governing body of the county transportation agency must adopt an expenditure plan detailing how the revenue will be allocated.⁵⁸ Permitted transportation-related programs include congestion and pollution mitigation programs, and revenues may also be used to provide matching funds for programs funded by state obligation bonds.⁵⁹

Example: San Mateo County adopted a County Transportation Project Fee in November of 2010 through Measure M, which went into effect in May 2011. In fiscal year 2018–2019, the county reported \$7.8 million dollars of revenue collected from Measure M. After deducting administrative and DMV fees, the available revenue for transportation programs totaled \$7.4 million dollars.⁶⁰

5.3. PARKING FEES

Fee base:	Vehicle parking
Rate:	Various

A local authority may charge fees to users who park their vehicles on public property. Parking fees are often treated as a user tax, such as when motorists are charged for time spent at a curb space or parked in an off-street garage.

Legislative Authority: Under California Vehicle Code 22508(a), cities have the authority to establish parking meter zones by ordinance, which requires a majority vote by all members of the governing body.

Permitted Expenditures: Revenue is typically deposited in the agency's general fund and may be spent for any purpose.

5.4. TOLLS ON BRIDGES AND ROADS

Fee base:	Vehicle passage
Rate:	Charge per vehicle, with rate based on number of passengers, vehicle axles, and/or congestion patterns

Tolls are user fees charged to drivers for passage on roads, bridges, and highways. Toll facilities are typically operated by regional transportation agencies but must be approved through the California Transportation Commission (CTC) at the state level. Fees are collected via toll facilities or by electronic transponder and can be fixed or varied based on congestion patterns. California contains eight bridges with tolls (all located in Northern California) and several dedicated toll roads and express lanes across the state (see Table 4).

Table 4. Entities Operating Tolled Facilities in California

Governing authority	Facility	Pricing model
Los Angeles County Metropolitan Transportation Authority	10/110 Express Lanes	Variable based on traffic
San Diego Association of Governments	SR-125 South Bay Expressway	Fixed based on distance
San Diego Association of Governments	I-15 Expressway	Variable based on traffic and distance
Orange County Transportation Authority/Riverside County Transportation Commission	91 Express Lanes	Variable based on day, time of day, and direction
Santa Clara Valley Transportation Authority	SR-237 Express Lanes	Variable based on traffic
Alameda County Transportation Commission	I-580 Express Lanes	Variable based on traffic
Sunol Smart Carpool Lane Joint Powers Authority	I-680 Express Lanes	Variable based on traffic
Golden Gate Bridge, Highway and Transportation District	Golden Gate Bridge	Fixed pricing
Bay Area Toll Authority	Antioch, Benicia-Martinez, Carquinez, Dumbarton, San Mateo-Hayward, Richmond- San Rafael, San Francisco-Oakland Bay	Fixed pricing

Legislative Authority: Regional transportation agencies may apply to the California Transportation Commission (CTC) for permission to construct, operate, and maintain toll lanes or other toll facilities. Applications must satisfy several criteria, such as demonstration of improvements and completed funding plans. Agreements must also be made with the California Highway Patrol for law enforcement needs.

Assembly Bill 1467 was signed into law in 2006, allowing regional transportation agencies and Caltrans to apply for the development of high occupancy toll lanes in cooperation with the CTC. Assembly Bill 194, passed in 2015, allows the CTC to set the minimum standards for toll facilities operation and also removed earlier cap of no more than four approved toll facilities. AB194 also allows regional transportation agencies to issue bonds and use toll revenues to pay for the debts accrued from construction.⁶¹

Permitted Expenditures: Permitted expenditures are outlined in Assembly Bill 193 (Section 149.7, paragraph 4), which state that funds may be used for the operational costs of the toll facility including maintenance, repairs, improvements, and bond repayments. Revenue may also be used for transportation improvements within the corridor, as outlined in an expenditure plan.

Examples: The largest of California's tolling entities, the Bay Area Toll Authority (BATA), collected \$724.9 million in fiscal year 2019.⁶² To provide additional context for revenues generated by various tolling agencies, toll revenues from LA Metro's ExpressLanes program totaled \$62.8 million,⁶³ while the Golden Gate Bridge, Highway and Transportation District raised \$152 million the same fiscal year.⁶⁴ At the lower end of the spectrum, the Santa Clara Valley Transportation Authority generated \$1.31 million from its toll roads (FY 2019).⁶⁵

5.5. DEVELOPMENT IMPACT MITIGATION FEES

Fee base:	New development
Rate:	Flat fee, determined through a nexus study

Development impact mitigation fees are assessed and charged by local agencies to offset the costs of infrastructure and facilities used for new development. In order to impose a development impact fee, local agencies must provide a nexus study to determine the relationship between the fee amount and the cost incurred through the use of public facilities to support the new development.⁶⁶

Legislative Authority: Legislative authority to create and charge development impact fees is given to local agencies, defined as a county, city, charter city, school district, special district, and municipal public corporation as outlined in California Government Code 66000, also known as the Mitigation Fee Act.⁶⁷ Local agencies must satisfy a series of conditions before creating an impact development fee. These conditions include identifying the amount of the fee, identifying which facilities or capital improvements are to receive the revenue, determining the relationship between the fee's use and new development, and determining the relationship between the need for the public facility and the new development.⁶⁸

Permitted Expenditures: The revenue is typically spent on infrastructure improvements to increase service capacity or improve road safety, where such changes are needed to accommodate new development. The specific permitted expenditures of development impact fees are provided in California Government Code 66002, which states that revenue may be used for "[t]ransportation and transit facilities, including but not limited to streets and supporting improvements, roads, overpasses, bridges, harbors, ports, airports, and related facilities."⁶⁹ The Mitigation Fee Act does not allow development impact fees to be used for funding existing infrastructure, unless for the purpose of upgrading a public facility to accommodate the additional service needs from new development.⁷⁰

Examples: The City of Irvine, located in Orange County, is home to 280,000 residents. As part of a joint-powers agreement with the county and neighboring cities, Irvine imposes development fees on residential housing to fund transportation facilities within the San Joaquin Hills and Foothill/Eastern transportation corridors.⁷¹ At a regional level, the Western Riverside Council of Governments manages the Transportation Uniform Mitigation Fee (TUMF) Program on behalf of Riverside County and those member cities and special districts that have opted into this regional development impact fee program. Since 2003, the TUMF Program has generated \$897 million in revenue to support transportation improvements.⁷²

5.6. REFUSE VEHICLE IMPACT FEE

Fee base:	Households receiving refuse services
Rate:	Annual fee charged to refuse collection operator

Refuse collection vehicles, more commonly known as garbage trucks, have significant

impacts on local streets and roads due to their size and weight. Because of these impacts, local governments sometimes charge refuse collection companies a fee based on the calculated damage caused by their vehicles.

Legislative Authority: A local government's ability to impose regulatory fees, such as a refuse vehicle impact fee, falls under the police power of a city. According to Article XI, Section 7 of the California Constitution, a city "may enforce local, police, sanitary, and other ordinances and regulations not in conflict with general laws." Cities typically prepare a nexus study in the form of a report to estimate the amount of damage incurred by refuse collection vehicles. A city must hold a public hearing before adopting a new fee per California Government Code Section 66018.

Permitted Expenditures: The revenues generated by refuse vehicle impact fees is intended to pay costs associated with repairing and rehabilitating roadways damaged by heavy refuse vehicles.

Example: The City of San Ramon imposes a Refuse Vehicle Impact Fee through a franchise fee with Waste Management, the city's refuse collection service provider. Analysis by the City of San Ramon to justify its refuse vehicle impact fee concluded that refuse vehicles impose the same impact to pavement as over 9,000 sport utility vehicles.⁷³ This fee is passed onto residential customers in the form of their service bill. In fiscal year 2018–2019, the Refuse Vehicle Impact Fee generated \$484,991.⁷⁴

5.7. TRANSIT FARES

Fee base:	Public transit trips and passes
Rate:	Varies by transit operator

Transit fares are user fees that riders pay when using transportation services. Fares may be charged on a per-ride basis, or for daily, weekly, monthly, or annual passes.

Legislative Authority: Each transit operator sets its own fares, with no limitations imposed by the state.

Permitted Expenditures: Transit fares are used to cover transit agency expenses, without restriction.

5.8. PARCEL TAX

Tax base:	Parcels of real property (land)
Rate:	Either a flat rate per parcel or a variable rate that depends on the size or use of the parcel

Parcel taxes emerged as an alternative for generating revenue from property owners after voters in 1978 approved the constitutional amendment known as Proposition 13. Proposition 13 barred local governments from imposing their own value-based property taxes, with only minor exceptions. While property taxes are assessed against the value

of a parcel, parcel taxes set rates that are assessed against some other characteristic of the property. The parcel tax can apply a flat rate to all parcels, or the rate may vary according to property characteristics such as lot size, use type, number of dwelling units, or square foot of development. Although most commonly used to fund school districts, parcel taxes play an important role for fire and police districts and can also be used to fund transportation infrastructure.

Legislative Authority: Parcel taxes were originally authorized in California Proposition 13 (1978). Since, a series of other propositions and court cases have further refined how these taxes must be approved and also imposed a requirement for supermajority approval from local voters.⁷⁵

Permitted Expenditures: The revenue is earmarked for a specific purpose.⁷⁶

Example: The Gilmore Vista County Service Area is a district located in El Dorado County. In March 2020, county supervisors placed on the ballot Measure J, to establish a parcel tax for that district. The measure passed with 72% approval.⁷⁷ Measure J imposes an annual \$270 tax on improved parcels and a \$120 tax on unimproved parcels within the district. It generates an estimated \$11,550 per year for snow removal, road improvements, and maintenance services.⁷⁸

5.9. TRANSIENT OCCUPANCY TAX

Tax base:	Room rentals in hotels, motels, or other related properties
Rate:	2%–15.5% (varies by jurisdiction)

The Transient Occupancy Tax (TOT), also known as the “hotel tax” or “bed tax,” is a tax commonly charged as a percentage of rent on a transient user of a hotel, motel, or property shared through a room-sharing service such as Airbnb. A transient is defined as a person with a right to occupancy for a period of 30 calendar days or less.⁷⁹ The right to occupancy is established through reason of concession, permit, license, or another form of agreement.

Legislative Authority: The authority to impose a TOT comes from Section 7280 of the State of California Revenue and Taxation Code. Counties and cities can both enact a TOT.⁸⁰ The process to impose a TOT follows the same procedure as a local sales tax: a governing body must approve the measure and then place it on the ballot for voter approval. General fund TOTs require a simple majority, whereas special-purpose TOTs require a supermajority.

Permitted Expenditures: There are no restrictions on how general-purpose TOT revenue is spent. For special-purpose TOTs, an expenditure plan guides how revenue is spent.

Example: The City of Ojai, located in Ventura County, depends heavily on tourism as its main source of revenue.⁸¹ In 2020, Ojai voters approved Measure C, which raised the TOT by 5%, from 10% to 15%. Measure C is expected to raise an additional \$1.3 to \$1.7 million dollars in revenue, according to the ballot measure text. Although Measure C revenue is deposited into the city’s general fund, the city has declared street maintenance to be a

priority project for Measure C funds.⁸²

5.10. USER UTILITY TAX

Tax base:	Utility services
Rate:	0%–11%

A user utility tax (UUT) is a tax imposed on utility services such as electricity, gas, water, sewage, and telephone. Local governments determine the rate of taxation which is then collected by utility companies through normal billing procedures.⁸³

Legislative Authority: User utility taxes can be imposed at either the city or county level.⁸⁴ These taxes also follow the legislative requirements outlined in Proposition 13 (1978) and Proposition 218 (1996), which requires that voters approve all taxes and charges to property owners.⁸⁵ The vast majority of existing UUTs are general taxes, but they may also be created as a special tax.

Permitted Expenditures: The permitted expenditures of user utility taxes are similar to those of local sales taxes: UUTs may be general fund revenue sources or earmarked for special purposes.

Example: The Isla Vista Community Services District, located in Santa Barbara County, provides and maintains public infrastructure within its boundaries. In 2018, the district proposed an 8% tax on gas, water, electricity, sewage, and garbage disposal utilities in their service district of 23,000 residents. Voters within the district overwhelmingly voted to pass Measure R-2018, with an 83% approval rate.⁸⁶ This district-level special tax is estimated to generate approximately \$642,000 dollars per year, with a portion of the funds set aside for transportation improvements, including sidewalks and lighting.

5.11. TRANSPORTATION NETWORK COMPANY USER TAX

Tax base:	Ride-hailing trip fares
Rate:	Set by local governments

These taxes are imposed on trips provided by transportation networking companies (TNCs) such as the ride-hailing firms Uber and Lyft. The tax is assessed on the rider (customer), and the rate can be set as a percentage of the trip fee, as a flat fee on all trips, or as a fee whose rate varies with characteristics of the trip.

Legislative Authority: Although California state law largely prohibits local governments from imposing taxes directly on the TNCs or drivers, the state does not prohibit municipal governments from impose taxes on customers who take trips that originate or end within the city.⁸⁷ The legal basis for these taxes is similar to that permitting local governments to charge TOTs, parking fees, and utility taxes: charter cities may levy taxes so long as these are not preempted by state or federal law.⁸⁸ Despite the fact that state law did not preclude local TNC

user taxes, in 2018 the State of California adopted A.B. 1184, which granted the City and County of San Francisco the right to tax TNC rides. However, a legal analysis suggests that A.B. 1184 was ultimately not required for San Francisco to adopt a TNC user tax.⁸⁹

Permitted Expenditures: The revenue is either limited to a special purpose or deposited in the city's general fund, depending on the authorizing legislation.

Examples: In 2019, the voters of the city of San Francisco approved the state's first excise tax on trips provided by transportation network companies such as Lyft and Uber. The tax, which went into effect January 1, 2020, set a 1.5% tax on fares for shared rides and rides in zero-emission vehicles, and 3.25% tax on fares for private rides.⁹⁰ The tax is estimated raise \$30 to \$35 million dollars of annual revenue dedicated to public transportation, safety improvements, and traffic congestion reduction efforts.⁹¹ The following year, voters in the City of Berkeley approved Measure GG, which imposed a TNC user tax on rides originating within the city. Measure GG set the rate as \$0.50 for solo rides and \$0.25 for shared rides.⁹²

5.12. BUSINESS LICENSE TAX

Tax base:	Varies: gross receipts, employee headcount, square footage, etc.
Rate:	Set by local governments

Cities and counties may enact business license taxes for which they determine their own rate structure. Rate structures are commonly either a percentage of gross revenue or a flat rate structure, but other options include rates based on the number of employees or square footage.

Permitted Expenditures: Depending on the authorizing legislation, the revenue is either limited to a special purpose or deposited in the city's general fund.

Example: In 2019, the City of Mountain View implemented a new form of its "business registration and license tax," which assesses employers a fee based on the number of employees. The rate per employee rises according to company size. As of 2020, the rates ranged from \$75 to \$150 per person, with the rates to be adjusted annually for inflation.⁹³ The tax proceeds go to the city's general fund, but the Mountain View City Council passed a resolution pledging to dedicate 80% of the revenue for transportation infrastructure and services.⁹⁴

5.13. ENHANCED INFRASTRUCTURE FINANCE DISTRICTS

Tax base:	Incremental growth in property value within the district
Rate:	N/A
Revenue restricted to:	Community infrastructure; permitted transportation uses include roads, parking facilities, and transit stations

Enhanced Infrastructure Finance Districts (EIFDs) are a tool that allows cities, counties, and

special districts to capture incremental growth in property tax revenue within a designated district and dedicate that money for specified infrastructure uses. These districts therefore do not raise new revenue for the taxing jurisdiction, but they capture for a specific purpose revenue that would otherwise have flowed to the general funds of the taxing entity. EIFDs are a variety of Tax Increment Financing (TIF) district. They are governed by a board of local elected officials and community members living in the district.⁹⁵

Legislative Authority: In 2014, California adopted Senate Bill (SB) 628, which established EIFDs as a tool to foster economic development. Subsequent legislation has expanded the purposes for which EIFD revenue may be spent, and to allow EIFDs to issue bonds.

Permitted Expenditures: Revenue must be spent on infrastructure improvements, including roads, public transit stations, and parking facilities.

Examples: In 2017, the City of West Sacramento created the first EIFD in the state. The district is located along the waterfront and covers approximately 25% of the city. Revenue obtained from the EIFD will be spent on a variety of community improvements. Over its lifetime, the district is predicted to generate \$535 million (2017 equivalent dollars).⁹⁶ The City of La Verne created an EIFD to fund improvements around a planned light rail station. The district will spend the projected \$33 million in revenue on a set of designated infrastructure projects that include street improvements, pedestrian connectivity, landscaping, and lighting.⁹⁷

6. MOVING FORWARD: OPTIONS FOR RAISING LOCAL REVENUE

This chapter summarizes the taxes earmarked for transportation at each level of government, describes a number of tax and fee options for raising additional revenue, and concludes with recommendations for additional research.

6.1. A SUMMARY OF REVENUE EARMARKED FOR LOCAL TRANSPORTATION

This report has described the wide range of taxes and fees that raise revenue dedicated for California's local authorities to spend on transportation services and infrastructure. While a certain amount of unrestricted general fund revenue also supports local transportation, the great majority of revenue comes from taxes and fees that are legally or by resolution designated for transportation.

At the state and federal levels, the systems for raising transportation funding are moderately complex. Both entities rely on motor fuel taxes to raise the majority of the revenue they transfer to local entities for transportation expenses. The federal government supplements fuel tax revenue with taxes levied on the sales of heavy-duty vehicles and their tires, plus a weight-based annual fee on heavy-duty vehicles. Neither the specific taxes nor their rates have been adjusted in decades, though in recent years Congress has supplemented these taxes with general fund revenue. As for California, the state supplements motor fuel taxes with annual vehicle registration fees, a vehicle weight fee, a small portion of state sales tax revenue, and revenue raised through the state's cap and trade program. Unlike the federal government, the state has made a number of adjustments to its transportation taxes and fees in recent years. Most notably, the cap and trade program was launched in 2013, and in 2017 the legislature approved SB1, which raised the rates on motor fuel taxes and created two new annual vehicle registration fees.

If the state and federal pictures are moderate complex, the local system is diverse and byzantine. The only constants are that virtually all local entities receive at least a small amount of state and federal earmarked transportation revenue, and the great majority of residents live in communities that have voter-approved local sales taxes earmarked for transportation. (However, even if most residents live in a county with a local transportation sales tax, the same is not true for the majority of *road-miles* in the state, as few of California's rural counties have approved a sales tax.) Finally, virtually all public transit operations generate at least some fare revenue, which is directly used to support transportation.

Most jurisdictions augment federal, state, and local-option sales-tax funding with other taxes and fees. For some jurisdictions, the annual transportation budget may easily incorporate a dozen or more sources, including traffic impact fees on development, community service districts, an employee headcount tax, tolls, and refuse or construction vehicle impact fees.

6.2. LOOKING FORWARD: OPTIONS

As local and state leaders look to the future of local transportation revenue, there are a

number of conceptual approaches to consider, as well as specific tax types. This section lays out a variety of options, organizing them by theme. Policymakers may ultimately conclude that many of these taxes and fees are neither desirable nor feasible in California, but considering such a wide variety of options can help policymakers to identify creative new revenue sources that can meet the needs of the state's diverse local jurisdictions.

Raise the rates on existing taxes and fees already earmarked for transportation. This approach will likely be more effective if used for taxes and fees imposed on a broad base, such as motor fuel and sales taxes.

Raise the rates on taxes charged to transportation system users where the revenue is not currently earmarked for transportation and earmark the incremental new revenue for transportation. Parking and traffic citation fees are one such option. Many urban jurisdictions rely on this revenue as a key source of unrestricted general funds, so simply earmarking existing fee proceeds is unlikely to be realistic. However, some urban communities are considering variable parking rates as a congestion management strategy, and part of such a plan could include earmarking a portion of the incremental revenue for improvements to non-driving modes of transportation. Another example would be to add a supplementary sales tax to vehicle purchases and designate the revenue for transportation purposes. For example, in 1989, the State of North Carolina introduced a "Highway Use Tax" of 3% of the purchase price for any vehicle. The money is deposited into the state's Highway Trust Fund and can be used only for transportation purposes. As of 2020, Highway Use Tax revenues make up 54% of the North Carolina Department of Transportation's revenues.⁹⁸

Charge a tax on vehicle-based services that have expanded exponentially in recent years. Two examples of these services are ride-hailing and e-commerce delivery. The private companies running these services rely on public infrastructure to generate their profits, and they also impose costs on the road system, especially in congested areas. Communities may wish to tax some portion of the value that these firms generate, and earmark that revenue for transportation. A few cities have already done this with ride-hailing trips—San Francisco, Berkeley, Chicago, and New York are among them—but most California cities have not.⁹⁹

California local governments do not currently tax e-commerce deliveries, although a few have internally discussed the option. Legislators in both North Carolina and New York State have proposed this type of fee. In December 2020, a New York State Assembly bill was introduced that would have authorized New York City to assess a fee of \$3 per box on e-commerce deliveries, with the revenue to be dedicated to the Metropolitan Transportation Authority. The bill would reduce the impact of the fee on low-income residents by waiving the charge on deliveries of food or medical supplies, among other provisions.¹⁰⁰ In 2021, the North Carolina FIRST Commission released a report that proposed a "Road Impact Fee" on e-commerce deliveries. The fee rate would be structured to match existing sales tax rates of 4.75% at the state level and 2.25% at the local level. The Commission's study estimated that this new fee would generate roughly \$890 million over ten years.¹⁰¹

Adopt a mileage fee to replace or augment motor fuel taxes. Mileage fees, also known

as road-user charges or vehicle miles traveled (VMT) fees, are distance-based charges. They are widely considered to be a promising alternative to motor fuel taxes, since the latter will become less effective as a growing share of the fleet becomes highly fuel efficient or uses no motor fuel at all.¹⁰² To date, mileage fees are under study in dozens of states, and small programs have been implemented in Oregon and Utah. The State of California is currently engaged in its second mileage fee pilot program.¹⁰³

While research and pilots to date have primarily examined mileage fees as a state or federal revenue tool, it is theoretically possible to layer local charges on top of those systems. For example, if the State of California were to collect a mileage fee using a technology that records the location of travel, then the state could permit local governments to charge additional fees for travel within their jurisdictions as a whole, on certain facilities, or at certain times of day.

Local motor fuel taxes have set a precedent for the idea of local mileage fees. Currently, over a dozen states permit cities or counties to adopt a local motor fuel tax,¹⁰⁴ and new taxes have been imposed as recently as 2020. For example, in 2020 the voters of Missoula County, Montana, adopted a \$0.02-per-gallon local option gasoline tax. Missoula is the first county in Montana to have taken advantage of this option, even though state lawmakers passed authorizing legislation in 1979.¹⁰⁵ Also in 2020, the city council of Fairbanks, Alaska, passed a gas tax in the form of a 5-cent excise tax on wholesale transactions of gasoline.¹⁰⁶ Finally, Virginia's transportation districts benefit from a tax placed on every gallon of gas and diesel fuel sold within a county or city belonging to a transportation district. The rate is 2.1% of the statewide average distributors' price of fuel, and revenues are earmarked for commuter rail services and transit authority capital projects and operations.¹⁰⁷

Although no California municipality has ever collected a local gasoline tax, voters have approved one such tax. In 1980, just over 50% of voters in the City of San Francisco approved a one-cent-per-gallon local gasoline tax. Ultimately, however, the city never attempted to implement the measure because of legal uncertainty over whether state law would require a simple majority or two-thirds majority to approve such a tax.

Another variation on mileage fees would charge different rates for different types of vehicles, such as a lower rate for less polluting vehicles or a higher rate for heavy vehicles that impose more roadway damage. Precedent for the idea of charging heavy vehicles by the mile comes from other states that impose weight-distance fees on heavy vehicles. Variants on this tax are found in New York, Kentucky, Oregon, and New Mexico. For example, Oregon collects a weight-mile tax on heavy vehicles over 26,000 pounds, in lieu of a motor fuel tax.¹⁰⁸ New Mexico assesses a "trip tax": a fee collected on commercial vehicles not registered in the state that are used for the transportation of persons, property, or merchandise within the state. The trip tax is collected at the various entry ports of the state and revenues are placed into the Road Fund for maintenance and repair costs of the state's public highways.¹⁰⁹

Tax the electricity used to fuel vehicles. As more and more vehicles rely on electricity, it may become realistic to impose a tax on the electricity they use. Such a tax could be couched as a direct substitute for the fuel taxes paid by internal combustion vehicles.

Although such an e-fuel tax does not exist in the United States, Minnesota legislators have introduced a bill for a so-called “electric fuel tax” that would charge 5.1 cents per kilowatt hour of fuel used to charge an electric vehicle.¹¹⁰

Charge property owners monthly “utility” fees for roadway services. Transportation utility fees (TUFs) assess a monthly fee on commercial and residential property occupants, using the proceeds to pay for local streets and roads. A study from 2016 identified 34 cities that impose TUFs. Cities establish the rates in a variety of ways, including a flat rate for all property occupants and rate-scales based on estimated trips generated by the property.¹¹¹

Tax utilities that embed infrastructure in or along roadways. In Virginia, public right-of-way use fees are fees imposed on consumers for cables that provide communication services. For the counties of Arlington and Henrico, which opted to keep jurisdiction over their roads in 1932, 10% of these use fees must be applied to transportation system maintenance and construction.¹¹² In Florida, HB 7175 was passed by the Florida legislature in 2014 which allows the Department of Transportation to earn revenue from leasing department-owned land for the operation of wireless telecommunication facilities. Proceeds from these lease agreements are placed into the State Transportation Trust Fund.¹¹³

Given that local entities have such varied infrastructure and services, travel patterns, and tax bases, state policymakers may wish to take the approach of permitting—and encouraging—an expanded range of revenue tools from which local entities pick and choose. For example, a county with a small population but large volumes of heavy-vehicle through traffic might be interested in a tax or fee that raises money from those system users to compensate for wear and tear on pavement. In contrast, a dense urban area might be more interested in a tax on e-commerce deliveries or tolling, and residential suburban communities might gravitate towards some sort of fee or tax assessed on properties.

6.3. STRATEGIES FOR IDENTIFYING THE BEST OPTIONS

Local entities have shown great creativity in raising revenue dedicated for transportation and, as necessity arises, they will continue to do so. However, a well-reasoned and deliberative process conducted state-wide would help elected leaders make wise choices about the most appropriate tax and fee options for their communities.

One value of such a process would be to assemble the data, legal and technical analyses, and stakeholder perspectives needed to assess which options would fare well across a range of criteria, such as:¹¹⁴

1. **Revenue generation:** How much revenue will the tax or fee raise, and how stable and predictable will the revenue stream be over time?
2. **Ease of implementation:** What is the cost and complexity of implementing the tax or fee? For example, can the state modify existing tax administration processes, or would it be necessary to create new and complex structures?
3. **Political feasibility:** To what extent will elected officials, stakeholder groups, and

the general public support the tax or fee?

4. **Equity:** Who will directly and indirectly bear the cost of paying the tax or fee, and who will receive the benefits of the expenditures?
5. **Transportation system performance:** Does the tax or fee change the way people use the transportation system in a way that improves or worsens performance?
6. **Impact on larger policy goals:** Will the payment of the tax or fee, as well as expenditure of the revenue, impact public policy goals beyond the transportation system, such as reducing the threat of climate change or improving social equity, public health, or economic strength?

While the implications for each of the six criteria will vary somewhat from place to place, it would be more efficient to have a single entity collect relevant information and develop appropriate analytic tools to assess the taxes and fees. This framework would provide a basis from which both the State of California itself and local entities could develop their own expanded analysis.

As one contribution towards this goal, the authors will publish a companion to this report that draws on the experience and insights from transportation experts across the state to identify promising transportation revenue strategies for California.

APPENDIX A: DETAILS ON REVENUE SOURCE BY LEVEL OF GOVERNMENT

This appendix presents additional detail about the revenue used to create the figures in Chapter 2. Table A1 presents data on local, state, and federal contributions to local streets and roads. Table A2 presents data on the proportion of transit operator revenue contributed by fares, local, state, and federal sources.

Table A1. Revenue Available for Roads and Streets, by Level of Government, 1999–2019 (Billions of Dollars/Percent of Total)

Year	Local	State	Federal
1999	\$2.35 (60%)	\$1.26 (32%)	\$0.34 (8%)
2000	\$2.48 (59%)	\$1.36 (32%)	\$0.36 (9%)
2001	\$2.71 (56%)	\$1.78 (36%)	\$0.40 (8%)
2002	\$2.97 (60%)	\$1.53 (31%)	\$0.42 (9%)
2003	\$2.82 (58%)	\$1.68 (34%)	\$0.39 (8%)
2004	\$3.13 (64%)	\$1.40 (28%)	\$0.39 (8%)
2005	\$3.32 (66%)	\$1.34 (27%)	\$0.39 (7%)
2006	\$3.71 (64%)	\$1.61 (28%)	\$0.45 (8%)
2007	\$4.13 (63%)	\$1.84 (28%)	\$0.56 (9%)
2008	\$4.34 (61%)	\$2.29 (32%)	\$0.49 (7%)
2009	\$3.89 (57%)	\$2.31 (34%)	\$0.58 (9%)
2010	\$3.34 (50%)	\$2.57 (38%)	\$0.79 (12%)
2011	\$3.27 (53%)	\$2.06 (34%)	\$0.80 (13%)
2012	\$3.36 (54%)	\$2.23 (35%)	\$0.68 (11%)
2013	\$3.49 (58%)	\$1.89 (31%)	\$0.65 (11%)
2014	\$3.73 (55%)	\$2.45 (36%)	\$0.62 (9%)
2015	\$4.01 (57%)	\$2.27 (32%)	\$0.77 (11%)
2016	\$4.41 (63%)	\$1.74 (25%)	\$0.85 (12%)
2017	\$4.53 (66%)	\$1.55 (23%)	\$0.77 (11%)
2018	\$4.66 (61%)	\$2.09 (28%)	\$0.86 (11%)
2019	\$5.05 (57%)	\$2.99 (34%)	\$0.81 (9%)

Sources: Data for 1999 through 2017 is compiled from the California State Controller's Office's "Streets and Roads Annual Report Publications" 1999-2017 (https://sco.ca.gov/ard_locrep_streets.html); 2018 and 2019 data is from the "Streets – Revenues" and "Roads – Revenues" sections of the Local Government Financial Data portal (<https://bythenumbers.sco.ca.gov/>).

Table A2. Revenue Available for Public Transit, by Level of Government, 2003–2017

Year	Local	Passenger Fares	Federal	State	Total
2003	2,245,973,933	1,028,511,040	726,812,986	128,275,864	4,129,573,823
2004	2,326,184,293	1,064,565,725	805,351,703	75,956,864	4,272,058,585
2005	2,443,341,439	1,145,709,621	904,317,016	102,089,173	4,595,457,249
2006	2,630,752,453	1,249,186,718	975,928,594	208,560,833	5,064,428,598
2007	2,869,891,102	1,339,326,234	1,093,744,152	482,735,807	5,785,697,295
2008	2,899,313,757	1,454,894,488	1,124,387,513	354,078,027	5,832,673,785
2009	2,931,526,375	1,496,545,960	1,202,011,012	252,101,849	5,882,185,196
2010	2,841,529,760	1,515,534,684	1,352,635,070	197,054,421	5,906,753,935
2011	2,647,373,459	1,583,703,204	1,328,234,102	413,580,356	5,972,891,121
2012	2,754,473,441	1,658,400,523	1,410,075,649	428,474,717	6,251,424,330
2013	2,915,219,879	1,741,717,286	1,485,232,040	464,735,682	6,606,904,887
2014	3,197,884,039	1,800,219,157	1,606,831,165	433,265,405	7,038,199,766
2015	3,563,904,921	1,856,829,048	1,801,757,139	358,239,734	7,580,730,842
2016	3,834,744,879	1,865,318,560	1,710,446,804	389,132,098	7,799,642,341
2017	4,145,031,295	1,770,430,585	1,917,663,201	311,382,889	8,144,507,970

Source: California Transit Association, "Transit Data: An Interactive Repository of Facts and Figures on California Public Transit" (2021), <https://caltransit.org/about/transit-data/>.

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