# APPENDIX A: Detailed analysis requested under SB125 1.E

In addition to a series of recommendations, SB 125 asked for a set of analyses to help inform those recommendations. Specifically, SB 125 asked for analyses that include: a description of transit service today, details around existing and potential future funding needs of the transit system, options for transit governance (including performance management and oversight), the impact of COVID-19 on the system, a description of workforce challenges, and an examination of state and local policies that may impact transit service (e.g., transit prioritization, land use). Much of this analysis was presented to the Transit Transformation Task Force throughout 2024 and 2025 to inform deliberations on the recommendations made in the main report. Collectively, the analyses below serve as a supplement, and provide additional detail, for the report's recommendations.

1. The services provided by transit agencies and the demographics of transit ridership, with detail on services provided, including persons with disabilities, or specific populations like low-income individuals and students (SB125 1.E.1)

### Overall services and ridership

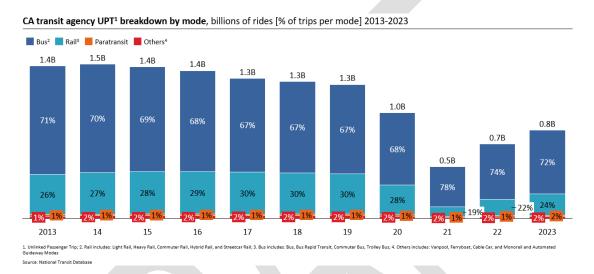
There are over 200 public transit agencies in California that provide a variety of services, including buses, light/heavy rail, paratransit, ferries and more.<sup>1</sup> As shown in the exhibit below, pre-COVID-19 pandemic, state transit agencies provided an average of around 1.3-1.5 billion unlinked passenger trips (UPT) across all modes of transit per year.<sup>2</sup> UPT however, is an imperfect metric. Projects such as LA Metro's Regional Connector,

<sup>&</sup>lt;sup>1</sup> California transit agencies also provide services using trolleybuses, commuter rail, vanpools, bus rapid transit, commuter buses, ferryboats, streetcar rail, hybrid rail, cable cars, and monorail/automated guideway modes

<sup>&</sup>lt;sup>2</sup> National Transit Database (<u>IS2.1 - Service Data and Operating Expenses Time Series by Mode</u>)

for example, eliminated 2 transfers for rail riders in the heart of Downtown LA, resulting in a single trip going from 3 unlinked passenger trips to 1. Thus, "trips" are down but the passenger experience is vastly improved.

Exhibit: Unlinked Passenger Trip (UPT) breakdown by mode 2013-20233



Since the pandemic, transit agencies have begun to rebound, providing over 800 million unlinked passenger trips in 2023.<sup>4</sup> However, the extent to which ridership has returned to pre-pandemic levels has been mixed, with some of the largest transit agencies in the state seeing ridership more fully rebound (such as San Diego Metropolitan Transit System), while others (such as Bay Area Rapid Transit) have rebounded more slowly.<sup>5</sup>

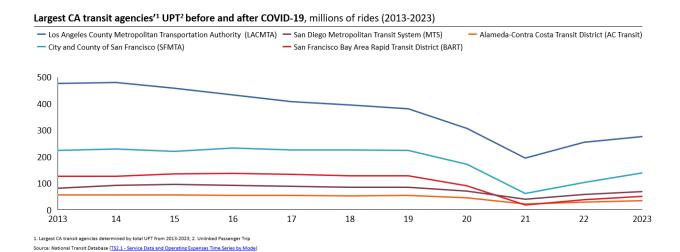
Exhibit: Largest CA transit agencies' UPT before and after COVID-196

<sup>&</sup>lt;sup>3</sup> National Tr

ansit Database (<u>TS2.1 - Service Data and Operating Expenses Time Series by Mode</u>)

<sup>4</sup> National Transit Database (<u>TS2.1 - Service Data and Operating Expenses Time Series by Mode</u>)

<sup>&</sup>lt;sup>5</sup> National Transit Database (<u>IS2.1 - Service Data and Operating Expenses Time Series by Mode</u>)
<sup>6</sup> National Transit Database (<u>IS2.1 - Service Data and Operating Expenses Time Series by Mode</u>)

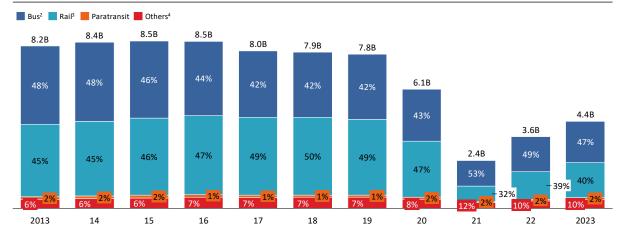


Passenger Miles Traveled (PMT) show a similar trajectory to UPT, but a different modal breakdown. Like UPT, PMT in aggregate have been in a slow decline from 2015 – 2019, and then suffered a large downturn associated with the COVID-19 pandemic, before beginning a partial recovery in the years that followed. Because rail trips, on average, are longer than bus trips, rail trips are nearly half of total passenger miles traveled in most years, despite being only 25-30% of unliked passenger trips.

Exhibit: Passenger Miles Traveled (PMT) breakdown by mode 2013-20237

<sup>&</sup>lt;sup>7</sup> National Transit Database (<u>TS2.1 - Service Data and Operating Expenses Time Series by Mode</u>)

CA transit agency PMT¹ breakdown by mode, billions of rides [% of trips per mode] 2013-2023



1. Passarger Miles Traveled, 2. Rail includes: Light Rail, Heavy Rail, Commuter Rail, Hybrid Rail, and Streetcar Rail; 3. Bus includes: Bus, Bus Rapid Teat, Commuter Bus, Trolley Bus; 4. Others includes: Vanpool, Ferryboat, Cable Car, and Monorail and Automater Guideway Modes
Guideway Modes

Source: National Transit Database

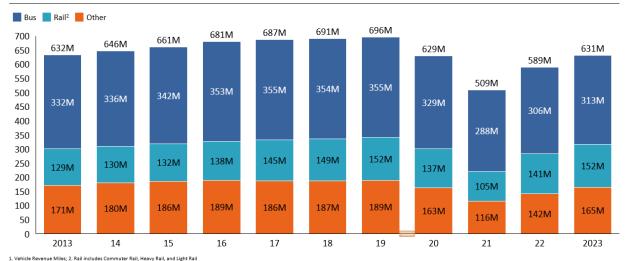
In comparison to UPT, service levels as measured by both Vehicle Revenue Miles (VRM) and Vehicle Revenue Hours (VRH) are closer to pre-pandemic levels. VRM in 2023 was about 631 million miles vs. 696 million in 2023, and VRH was 41k hours in 2023 vs. 46k hours in 2019. Between modes, bus VRH and VRM have been slower to recover than rail equivalents. While these metrics provide a useful measure of how overall service levels are changing, they do not provide a full picture for the state and alternative metrics, like the share of population that can access destinations via public transit, may better capture how well public transit is serving its riders.

Exhibit: VRM8 across CA transit agencies by mode from 2013 to 2023 (millions of miles)9

<sup>&</sup>lt;sup>8</sup> National Transit Database (<u>TS2.1 - Service Data and Operating Expenses Time Series by Mode</u>)

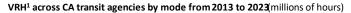
<sup>9</sup> National Transit Database (<u>TS2.1 - Service Data and Operating Expenses Time Series by Mode</u>)

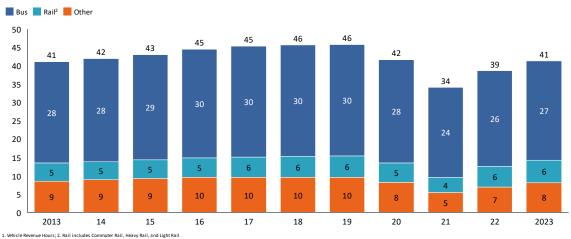
VRM¹ across CA transit agencies by mode from 2013 to 2023 (millions of miles)



Source: National Transit Database (TS2.1 - Service Data and Operating Expenses Time Series by Mode)

Exhibit: VRH<sup>10</sup> across CA transit agencies by mode from 2013 to 2023 (thousands of hours)<sup>11</sup>





Source: National Transit Database (S2.1.- Service Data and Operating Expenses Time Series by Mode)

Nearly half of transit route miles and more than half of the number of routes are in two Metropolitan Planning Organizations (MPOs): the Southern California Association of Governments (SCAG) and the Metropolitan Transportation Commission (MTC) in the

<sup>&</sup>lt;sup>10</sup> Vehicle Revenue Hours

<sup>&</sup>lt;sup>11</sup> National Transit Database (<u>TS2.1 - Service Data and Operating Expenses Time Series by Mode</u>)

Bay Area. These two regions also have the largest number of square miles near a high-quality transit corridor or a major stop. The largest 5 regions make up about 65% of route miles and 80% of routes.

Exhibit: Overview of routes by Metropolitan Planning Organization, 2025<sup>12</sup>

МРО	Total route miles	# Routes	Square miles near high-quality transit or major transit stop
Southern California Association of Governments	37,070	933	753
Metropolitan Transportation Commission	18,040	585	352
Sacramento Area Council of Governments	11,114	217	10
San Diego Association of Governments	5,630	159	69
Santa Barbara County Association of Governments	5,175	82	169
Kern Council of Governments	5,150	41	2
San Joaquin Council of Governments	4,585	69	24
Fresno Council of Governments	4,376	35	1
Merced County Association of Governments	4,012	34	1
Tulare County Association of Governments	3,965	49	0
Stanislaus Council of Governments	3,884	41	3
Madera County Transportation Commission	3,557	15	31
San Luis Obispo Council of Governments	3,283	37	6
Association of Monterey Bay Area Governments	3,167	64	4
Shasta Regional Transportation Agency	3,086	18	8
Butte County Association of Governments	2,957	23	0
Kings County Association of Governments	662	15	0
Tahoe Regional Planning Agency	155	6	3

# **Demographics of ridership**

Although there is no comprehensive statewide survey of the demographics of ridership, reviewing a sample of transit agency surveys can reveal details on the demographics of transit ridership, including on persons with disabilities, or specific populations like low-income individuals and students. Other sources of data are incomplete. For example, the American Community Survey, only surveys commuters and has gaps in information on transit trips, and the National Household Travel Survey was last completed in 2022 and lacks a large enough sample size among transit riders in California for reliable reporting.

12 GTFS, June 2025 (routes and stops), May 2025 (high quality transit and major transit stops). Route-miles are per direction. Routes and stops methodology: <a href="https://github.com/cal-itp/data-analyses/blob/main/sb125">https://github.com/cal-itp/data-analyses/blob/main/sb125</a> analyses/quick <a href="https://github.com/cal-itp/data-analyses/tree/main/high\_quality\_transit\_areas">https://github.com/cal-itp/data-analyses/tree/main/high\_quality\_transit\_areas</a>

Reviewing the results of the 2023-2024 MTC Snapshot Survey of the Bay Area transit services, LA Metro's 2022 Customer Experience Survey, and Monterey-Salinas Transit (MST) 2023 Onboard Survey, can show point-in-time demographics in both Northern and Southern California, as well as in both larger and smaller agencies.

Demographic information from those surveys show:

### MTC 2023-2024 Transit Snapshot Survey<sup>13</sup>:

- Larger shares of riders are low-income compared to pre-pandemic, with 44% of riders having a household income below \$50,000
- 8% of riders have a disability that limits ability to travel
- There has been a decline in work related travel as work trips are still 50% of total trips and 17% of trips are to school, likely trips done by students

### LA Metro 2022 Metro Customer Experience Survey<sup>14</sup>

89% of bus riders and 72% of rail riders make a household income less than \$50,000

### MST 2023 Onboard Survey<sup>15</sup>

- ~ 20% of riders that provided disability information, identified themselves as having a
  physical disability that causes them to be dependent on others for transportation
- ~75% of riders that provided income information have household incomes under \$40,000 and almost ~90% have annual household income under \$60,000
- 13% of riders use MST to get to/from school (college/university) and another 13% use MST to get to/from school (K-12); 18% of riders describe their employment status as being students

California transit agencies provide paratransit services for persons with disabilities (and older persons) who are unable to use fixed route bus services and whose destinations

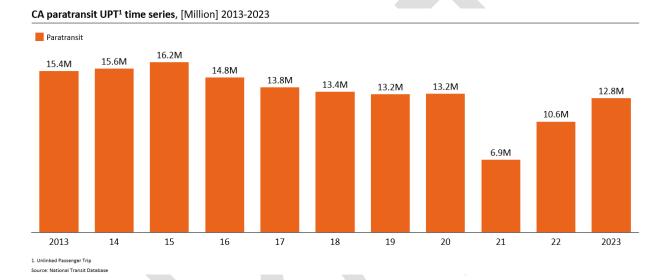
<sup>13</sup> MTC (MTC 2023-2024 Transit Snapshot Survey)

<sup>14</sup> LA Metro (LA Metro 2022 Metro Customer Experience Survey)

<sup>15</sup> MST (2023 Onboard Survey)

and trip origins are within 3/4 of a mile of a bus route (minimum requirement), however, many agencies choose to offer service within their entire service area. Paratransit ridership fell during COVID-19, but has since rebounded to nearly 13 million riders per year. 16 This is closer to pre-pandemic levels than ridership on fixed route services.

Exhibit: Paratransit Unlinked Passenger Trips (UPT), 2013-2023<sup>17</sup>

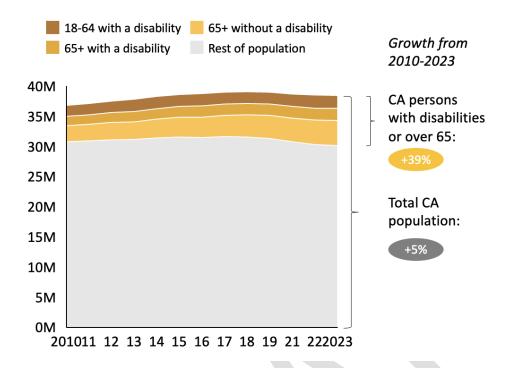


The segment of the California population that uses these paratransit services has grown faster than the population at large. Additionally, the number of Californians with disabilities or over 65 increased 39% between 2010 and 2023, compared to an average of 5% across the California total population at large.

Exhibit: California population by age and disability status, million

<sup>&</sup>lt;sup>16</sup> National Transit Database (<u>TS2.1 - Service Data and Operating Expenses Time Series by Mode</u>)

<sup>17</sup> National Transit Database (<u>TS2.1 - Service Data and Operating Expenses Time Series by Mode</u>)



2. Existing funding sources for transit with a breakdown of funding available for capital and operations, including any constitutional and statutory limitations on these existing funding sources (SB125 1.E.2)

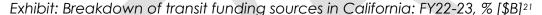
In FY2022-23, transit agencies in California had approximately \$12.5 billion in revenues across a diverse array of funding sources to run, maintain, and expand transit systems. <sup>18</sup> These revenues grew by about 5% per year from 2013 to 2023 in nominal terms and about 2% per year in real terms. <sup>19</sup> California transit dollars in FY 2022-23 are primarily split across federal (~\$3.9B), state (~\$3.8B), local (~\$3.3B), and farebox revenue (~\$1.4B). <sup>20</sup> Note that this analysis is completed for one fiscal year, this particular fiscal year was selected due to data availability at the time of report preparation, and since both operating and capital funds are included in this, the totals will vary year to year given what sources agencies are using to complete projects. Additionally, it is not possible, without analyzing all agency budgets, to definitively know which sources went

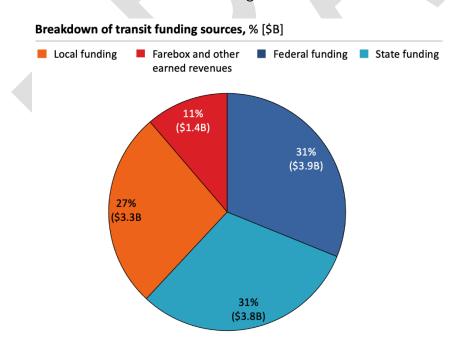
<sup>18</sup> State Controller's Office, USDOT / Federal Transit Administration, National Transit Database (farebox revenue)

<sup>&</sup>lt;sup>19</sup> National Transit Database growth in total funding from 2013 to 2023

<sup>20</sup> State Controller's Office, USDOT / Federal Transit Administration, National Transit Database (farebox revenue)

to operating vs capital. Some of the largest sources of funding for transit are detailed below. Although much of the federal funding (e.g. Capital Investment Grants), and some of the local tax measures listed are predominantly spent on capital uses, most of the other funding sources are generally used for both capital or operating purposes (e.g., Urbanized Area Formula Grants at the Federal level, and large State sources such as Local Transportation Fund (LTF), Low Carbon Transit Operations Program (LCTOP) and State Transit Assistance (STA)). Additionally, local and state monies are often used to serve as local match for federal requirements, which makes reallocating those funds away from Capital and towards operating challenges as they jeopardize federal funding. For the purposes of this analysis, the Local Transportation Fund is classified as a state source, as it was enabled by state law, however, all funds are raised and returned to source by county.

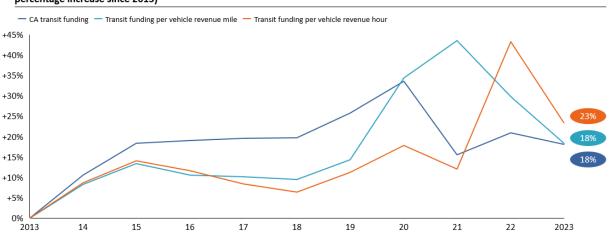




<sup>&</sup>lt;sup>21</sup> State Controller's Office, USDOT / Federal Transit Administration, National Transit Database (farebox revenue) <u>(FY 22/23 data only)</u>

Over the past decade, total transit agency revenues as measured by the National Transit Database (NTD) have increased around 20% in inflation adjusted terms but with a high level of variability around COVID-19, with large changes in fare revenues and relief funds. 22 Some of the highest growth in cost items have included operator wages, purchased transportation and utilities. 23 The exhibit below shows the percentage increase in funding over the period across a number of metrics including total funding, funding per vehicle revenue mile, and funding per vehicle revenue hour (all inflation adjusted). All metrics have increased by at about the same rate when compared to service levels, given service levels have remained relatively flat over the period. 24

Exhibit: CA transit funding growth compared to transit funding per VRM<sup>25</sup> and VRH<sup>26,27</sup>



Real CA transit funding growth compared to transit funding per vehicle revenue mile and per vehicle revenue hour (cumulative percentage increase since 2013)

Source: National Transit Database (TS1.2 - Operating and Capital Funding Time Series, TS2.1 - Service Data and Operating Expenses Time Series by Mode); funding adjusted by GDP deflator from FEED database

<sup>&</sup>lt;sup>22</sup> National Transit Database (<u>TS1.2 - Operating and Capital Funding Time Series</u>, <u>TS2.1 - Service Data and Operating Expenses Time Series by Mode</u>); funding adjusted by GDP deflator from <u>FRED</u> database

<sup>&</sup>lt;sup>23</sup> National Transit Database 2023

<sup>&</sup>lt;sup>24</sup> National Transit Database (<u>IS1.2 - Operating and Capital Funding Time Series</u>, <u>IS2.1 - Service Data and Operating Expenses Time Series by Mode</u>); funding adjusted by GDP deflator from <u>FRED</u> database

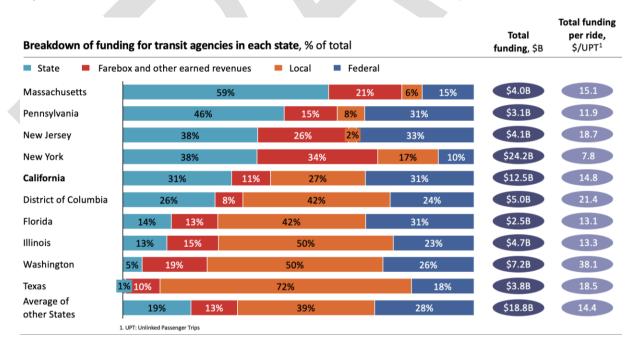
<sup>&</sup>lt;sup>25</sup> Vehicle Revenue Mile

<sup>&</sup>lt;sup>26</sup> Vehicle Revenue Hour

<sup>&</sup>lt;sup>27</sup> National Transit Database (<u>IS1.2 - Operating and Capital Funding Time Series</u>, <u>IS2.1 - Service Data and Operating Expenses Time Series by Mode</u>); funding adjusted by GDP deflator from <u>FRED</u> database

Transit agencies in California receive a significant share of their funding from State sources. Approximately \$3.8B or 31% of the funding is from State programs, most of which comes through the Local Transportation Fund (~\$1.2B), State Transit Assistance and State of Good Repair (~1.1B) and Transit and Intercity Rail Capital Program (~\$0.7B).<sup>28</sup> State programs are funded through three main mechanisms: Transportation Development Act (from sales taxes, diesel taxes), Senate Bill 1 (from gas taxes, vehicle registration fees) and the Greenhouse Gas Reduction Fund (from cap-and-trade auction fees).<sup>29</sup> Among states with significant transit usage in the US, California has the 5th highest share of State funding in total funding (12th when compared to across all States and Territories).<sup>30</sup>

Exhibit: Transit funding source breakdown across largest 10 states by total revenue (2023) 31



<sup>&</sup>lt;sup>28</sup> See Exhibit: Breakdown of transit funding sources in California: FY22-23, % [\$B]

<sup>29</sup> Road Repair and Accountability Act (SB 1), Transportation Development Act (TDA), California Air Resources Board

<sup>30</sup> California data is based on State Controller's Office, USDOT / Federal Transit Administration, National Transit Database (farebox revenue). National Transit Database is used for all other States

<sup>31</sup> California data is based on State Controller's Office, USDOT / Federal Transit Administration, National Transit Database (farebox revenue). National Transit Database is used for all other States

There are also some additional Federal and State funds for infrastructure, that today are largely used for roads, that may also be eligible to be used for transit. Some of the largest include the Federal Surface Transportation Block Grants (STBG) (\$1.2B to CA per annum), the Federal Congestion Mitigation and Air Quality Improvement Program (CMAQ) (\$0.5B) and State Transportation Improvement Program (STIP) (\$0.5B).<sup>3</sup>

Although STIP and CMAQ funds are primarily directed toward highway expansion, rehabilitation, and traffic flow improvements, they are eligible to support certain transit projects (e.g., new bus purchases, signal priority), and currently, some of these funds are spent on transit projects, at the discretion of the allocating agency (either the State of CA or regional entities). Shifting more of these funds toward transit could accelerate sustainable mobility goals but may require trade-offs, such as delaying highway resurfacing or other road projects. The total amount of funding inside the Infrastructure, Investment and Jobs Act (IIJA) Federal Highway Administration (FHWA) formula programs to California is ~\$5.5B a year.

Exhibit: Largest 10 individual government funding programs (excl. fares and other revenues)4

Туре	Funding source	Amount of funding, \$B*	Primary source of funds	Funding decision- making entity	Enabling mechanism
Federal	5309 - FTA Capital Program Funds	1.6	Federal general revenues	Federal	Infrastructure Investment and Jobs Act (IIJA)
Local	Local tax measures in addition to the Local Transportation Fund	1.5	Sales tax	Regions	Various
State	Local Transportation Fund (LTF)	1.2	Sales tax	Regions	TDA
Federal	5307+5340 - Urbanized Area Formula Program	1.2	Federal general revenues	Regions	IIJA
State	State Transit Assistance + State of Good Repair	1.1	Diesel tax and transportation improvement fee	Regions	TDA (STA), SB1 (SOGR)
Local	Taxes raised directly by transit agencies	0.8	Sales taxes, highway tolls, vehicle licensing fees	Regions	Agency-specific legislatio
State	Transit and Intercity Rail Capital Program (TIRCP)	0.7	Gas/diesel taxes and vehicle registration fees	California State	GGRF, Senate Bill 1
Federal	5337 - State of Good Repair Grants (SOGR)	0.6	Federal general revenues	Regions	IIJA
Local	Local funds from bridges, tunnels, tolls	0.3	Bridge and tunnel tolls	Regions	Region-specific legislation
State	Affordable Housing and Sustainable Communities Program (e.g. Transit-Oriented Development)	0.2	Cap-and-trade proceeds	California State	GGRF

Transit agencies in California, receive 90% of government funding through formula programs.<sup>32</sup> Some of the largest sources include State funding under the Transportation Development Act (e.g., Local Transportation Fund, State Transit Assistance) and Federal 5307 Urbanized Area and State of Good Repair Programs. These are distributed based on metrics such as population and transit service levels. The remaining 10% of funds are discretionary grants that require transit agencies, Caltrans and/or their Metropolitan Planning Organizations (MPOs)/Regional Transportation Planning Agencies (RTPAs) to apply. Examples include the Transit and Intercity Rail Capital Program (TIRCP) at the state level and Strengthening Mobility and Revolutionizing Transportation (SMART) at the federal level.

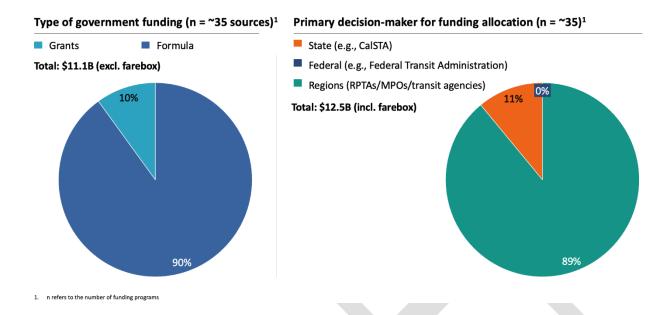
Approximately 90% of funds are primarily allocated by RTPAs and MPOs together with transit agencies.33 This includes most of the formula funding (e.g. Federal 5307 Urban Area Program Funds, State Transit Assistance, Local Transportation Funds, Low Carbon Transit Operations Program) as well as revenues raised directly by transit agencies through fares, sales taxes or property taxes. Federal funds for transportation in California are allocated by a mix of the State and regions. For example, 60% of FHWA Formula funds are allocated by the State with the other 40% allocated by the regions, which may in some cases go to transit, including a recent flex action from the MTC.

Exhibit: California transit funding from all government sources (Local, State, Federal) across funding type and primary decision-making entity<sup>34</sup>

32 State Controller's Office, USDOT / Federal Transit Administration, National Transit Database (farebox revenue), Program definitions taken from government funding program websites

14

State Controller's Office, USDOT / Federal Transit Administration, National Transit Database (farebox revenue). Primary decision-maker is the entity with the largest amount of discretion in how funds are allocated
34 State Controller's Office, USDOT / Federal Transit Administration, National Transit Database (farebox revenue)



Some of these funding sources may face headwinds in the medium term. Due to the rising sales of zero emission vehicles and increasing fuel efficiency, fuel tax funding is expected to decrease, with the Legislative Analyst's Office<sup>35</sup> indicating State Transit Assistance (STA) program funding could decline by up to ~\$300 million, roughly a third of total STA funding,<sup>36</sup> by 2035. Gas taxes are also a source of SB1 funded programs.<sup>37</sup> The Technical Working Group also noted that the cyclicality of funding from other sources such as sales taxes and cap-and-trade auction proceeds also makes it difficult to predict funding availability in the medium term.<sup>38</sup>

### Constitutional, Statutory and other limitations on how funds are used

Article XIX of the California Constitution, along with its companion articles XIX A and XIX B, establish how revenues from specific taxes like per-unit wholesale fuel excise and retail diesel sales taxes as well as vehicle fees are used for transportation. For example, retail diesel sales taxes may be used for development, construction, and

<sup>35</sup> Decrease relative to 2023 revenue; scenario assumes emissions reduction goals following the California Air Resources Board Scoping Plan

<sup>36</sup> State Transit Assistance (STA) provides discretionary funding that are apportioned to transit agencies considering their population and revenue

<sup>37</sup> Road Repair and Accountability Act (SB 1)

 $<sup>^{38}</sup>$  Summary of discussion at Technical Working Group Meeting #7 on January 14, 2025

improvement of public mass transit guideways, but not maintenance and operating costs. <sup>39</sup> Per-gallon fuel excise taxes may be used for broad transportation purposes under a variety of programs, which may include mass transit operations and maintenance costs under programs such as the Low Carbon Transit Operations

Program (LCTOP) and the State Transit Assistance program (STA)<sup>40</sup>

Transit operators must therefore use alternative sources of revenue for operations like Transportation Development Act (TDA), Local Transportation (LTF) funds, or State Transit Assistance (STA) funds. These funding sources also have some requirements and limitations:

 Claimant order: The TDA creates a specific 'claimant order' for how LTF funds are allocated. Funds must be allocated within the following order (Public Utilities Code (PUC) 99230-99251)

Claim	Amount
Transportation Planning and	3%, some variation in SCAG region
Programming Purposes (PUC 99233.2)	to account for CTC structure.
Counties and Cities for Bike and	2% unless finding made showing
Ped (PUC 99233.3)	that the money could be better
	used for public transportation or
	local streets and roads.
Passenger Rail service operations	Funds needed pursuant to PUC
and capital improvements (PUC	Section 99234.5 (Metrolink Service
99233.4)	between San Bernadino, LA),

<sup>&</sup>lt;sup>39</sup> California Department of Tax and Fee Administration; California Streets and Highways Code Chapter 3, Section 2100

<sup>40</sup> California Department of Transportation

	99234.7 (Caltrain), or 99234.9 (Passenger Rail in general).
Transit Development Board and Transportation Planning Agency Administration, Planning, Construction, Acquisitions (PUC 99233.5)	Up to 10%
Cities, counties, and operators for consolidated transportation service agencies (PUC 99233.7)	Up to 5%
Transit Operators for support of public transit systems, aid to public transportation R&D Projects, Grade Separations (PUC Article 4 – 99260)	Remainder
Cities, Counties and transit districts for a wider array of purposes, including local streets and roads, paratransit services, passenger rail, vanpool, and more (PUC Article 8 – 99400)	Remainder after Article 4 claims exhausted

- **Unmet transit needs process:** Before LTF funds can be allocated towards streets and roads, the RTPA must conduct a public 'unmet needs process' to determine if there are any "reasonable to meet' transit needs. Funds can be spent on streets and roads only if no reasonable transit needs are identified.
- Farebox recovery ratios (FRR): Transit operators must meet a minimum FRR to use LTF funds for operations. The thresholds are set differently for urbanized areas (20% minimum FRR) and non-urbanized areas (10% minimum FRR). If these standards are not met for consecutive years, and the agency does not receive an exemption, funding is reduced equal to the revenue shortfall needed to meet the required FRR.
- **Efficiency standards:** To use STA funds for operations, an agency must meet operating cost-efficiency tests (e.g., cost growth not exceeding CPI over a three-

year period) unless the increase is due to service expansion, or the agency qualifies for an exemption (PUC §99314.6)

Audits: Transit agencies must undergo regular fiscal and compliance audits and report to the State Controller

# 3. The use of moneys from local transportation funds established pursuant to Section 29530 for other modes, such as streets and roads (SB125 1.E.3)

Individual Regional Transportation Planning Agencies (RTPAs) are required under the Transportation Development Act to hold at least one public hearing for the purpose of soliciting comments on the unmet transit needs that may exist within the jurisdiction and that might be reasonable to meet by establishing or contracting for new public transportation or specialized transportation services or by expanding existing services.<sup>41</sup> The outcome of the unmet needs determination is generally available in RTPA Board or Audit reports, but not the actual amount of funding that was allocated to streets and roads.

Transit agencies that wish to use moneys for local streets and roads, are required under the Transportation Development Act to document to the Department of Transportation the resolution of findings from the unmet needs process. However, there is no explicit requirement for this documentation to include the amount of money being allocated to local streets and roads.<sup>42</sup> The State Controller's Office also confirmed that they do not separately receive this data.

Generally, only counties with a population under 500,000 (according to the 1970) federal census) may also use parts of the Local Transportation Fund (LTF) element of the TDA for purposes other than transit (e.g., local streets and roads, construction and

41 <u>Caltrans Overview of the Transportation Development Act</u>
42 California PUC § 99401.6 – Unmet Transit Needs Finding Documentation

maintenance)<sup>43</sup>. However, if it is determined that no unmet needs are found that are reasonable to meet, entities can allocate LTF under Article 8 for local streets and roads, as well, even in a county with over 500,000 in population (according to the 1970) census). This has been done in non-transit operating cities of larger counties, for streets and roads, after working through the unmet needs process.<sup>44</sup>

CalSTA staff analyzed approximately half of the RTPA audit and board reports for FY23 and reviewed the resolutions they made for the unmet needs process. Of the 23 regions reviewed:

- 11 resolved that there were unmet transit needs. This included large jurisdictions such as the Sacramento Area Council of Governments, the Merced County Association of Governments, and the Santa Cruz County Regional Transportation Commission. These agencies therefore spent 100% of their TDA funding on transit<sup>45</sup>
- 12 of the regions resolved that there were no unmet transit needs. At least 6 of the 12 resolutions explicitly approved funds for streets and roads, while the others were unclear if funds were finally allocated to these purposes.46

The majority of the 12 cases had a resolution of no unmet transit needs; however, the public did submit suggestions for improvements to transit, but they were further resolved to be 'unreasonable to meet'. 47 Some of the common reasons cited included infrastructure gaps (e.g., no safe pedestrian access), operational constraints (e.g., lack of bus drivers or no service providers), or insufficient ridership or funding levels to maintain a service.48

<sup>&</sup>lt;sup>43</sup> Caltrans, <u>Transportation Development Act</u>
<sup>44</sup> Caltrans, DOTP

SACOG: Board of Directors Meeting Minutes; MCAG: FY 2023-24 Unmet Transit Needs SCCRTC: 2023 Unmet Transit and Paratransit Needs List

<sup>&</sup>lt;sup>6</sup> See Exhibit: Analysis of RTPA board and audit reports on unmet transit needs footnotes

<sup>&</sup>lt;sup>17</sup> See Exhibit: Analysis of RTPA board and audit reports on unmet transit needs footnotes

<sup>8</sup> See Exhibit: Analysis of RTPA board and audit reports on unmet transit needs footnotes

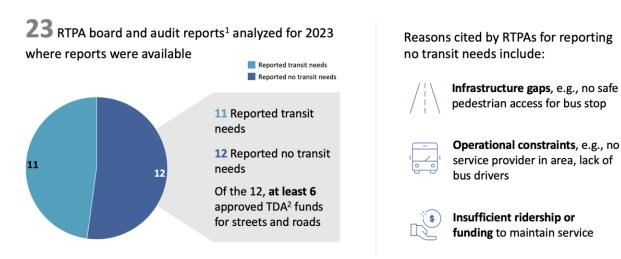


Exhibit: Unmet needs determinations across RTPAs<sup>46</sup>

Unmet needs determination in 2023-24	RTPA			
Transit needs	Amador County Transportation Commission			
identified	Council of San Benito County Governments			
	Del Norte Local Transportation Commission			
	Humboldt County Association of Governments			
	Inyo County Local Transportation Commission			
	Mendocino Council of Governments			
	Merced County Association of Governments			
	Modoc County Transportation Commission			
	Sacramento Area Council of Governments			
	Santa Cruz County Regional Transportation Commission			
	Tahoe Regional Planning Agency			
No unmet	Butte County Association of Governments			
transit needs	Calaveras Council of Governments			
that are	Fresno Council of Governments			

<sup>49 1.</sup> Regional Transportation Planning Agencies (RTPA) analyzed include Kern\_COG, Mendocino COG, Modoc County Transportation Commission, Placer County Transportation Planning Agency, Sacramento Area COG, San Joaquin COG, San Luis Obispo COG, Santa Cruz County Regional Transportation Commission, Indoe Regional Planning Agency, Transportation Agency for Monterey County, Inyo County, Local Transportation Commission, Humboldt County Association of Governments, Amador County, Transportation Commission, Butte County Association of Governments, Calaveras COG, Council of San Benito County Governments, Del Norte Local Transportation Commission, Fresno COG, Glenn County Transportation Commission, Madera County, Transportation Commission, Madera County Transportation Commission, Madera County Transportation Commission, Madera County Transportation Commission, Madera County Transportation Development Act

reasonable to	Glenn County Transportation Commission		
meet	Kern Council of Governments		
	<ul><li>Madera County Transportation Commission</li><li>Placer County Transportation Planning Agency</li></ul>		
	San Joaquin Council of Governments		
	San Luis Obispo Council of Governments		
	Stanislaus Council of Governments		
	Transportation Agency for Monterey County		
	Tulare County Association of Governments		
RTPA's not	Alpine County Local Transportation Commission		
reviewed	Colusa County Transportation Commission		
	El Dorado County Transportation Commission		
	Kings County Association of Governments		
	Lake County/City Area Planning Council		
	Lassen County Transportation Commission		
	Mariposa County Local Transportation Commission		
	Metropolitan Transportation Commission		
	Mono County Local Transportation Commission		
	Nevada County Transportation Commission		
	Plumas County Transportation Commission		
	San Diego Association of Governments		
	Shasta Regional Transportation Agency		
	Sierra County Local Transportation Commission		
	Siskiyou County Local Transportation Commission		
	Southern California Association of Governments		
	Tehama County Transportation Commission		
	Trinity County Transportation Commission		
	Tuolumne County Transportation Council		

# 4. The cost to operate, maintain, and provide for the future growth of transit systems for the next 10 years (SB125 1.E.4)

At present, certain transit agencies in California face near-term funding challenges. Bay Area Rapid Transit (BART), Metrolink, and Caltrain, had a higher farebox recovery ratio pre-COVID, and now face funding gaps due to a reduction in postpandemic ridership. In 2024, BART, for example, had only 47% of pre-pandemic ridership.50 These and other transit agencies received short-term Federal funding relief under the CARES<sup>51</sup> Act and CRRSA<sup>52</sup> to address this shortfall, but these funds have already been exhausted or may soon be exhausted, depending on the transit agency.

The San Francisco Municipal Transportation Agency (SFMTA) faces funding gaps due to low parking revenue relative to pre-pandemic levels.<sup>2053</sup> The SFMTA is projected to be in a \$15 million deficit in FY2025-2026, which could increase to over \$320 million in FY2026-2027.54 While SF MUNI ridership has only slightly declined, parking revenues are roughly 30% lower compared to pre-COVID levels.55 56

Looking over the longer-term, while farebox revenues have fallen for some transit agencies, costs have increased faster than inflation over the past decade. Operating expenses have grown about 13-18% above inflation in the last ten years and capital costs have increased 2-6% above inflation, as measured by the Employment Cost Index (ECI). Given the uneven timing of spend, the choice of starting and ending year can also impact these growth rate estimates.<sup>57</sup> In the future, transit agencies could also have to contend with the costs of replacing increasingly aging systems, that can create a steep change in costs when technology or other components become obsolete. Additional uncertainty in longer term revenue exists with gas tax funded fuel sources,

<sup>50 &</sup>lt;u>Bay Area Ridership Data</u>

<sup>51</sup> Coronavirus Aid, Relief, and Economic Security

<sup>&</sup>lt;sup>52</sup> Coronavirus Response and Relief Supplemental Appropriations

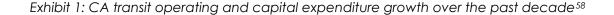
<sup>38</sup> BART Financial Crisis; SF Muni's Impending Fiscal Cliff; Metrolink: Tracking Ridership, Revenue, And Cares Act Funding

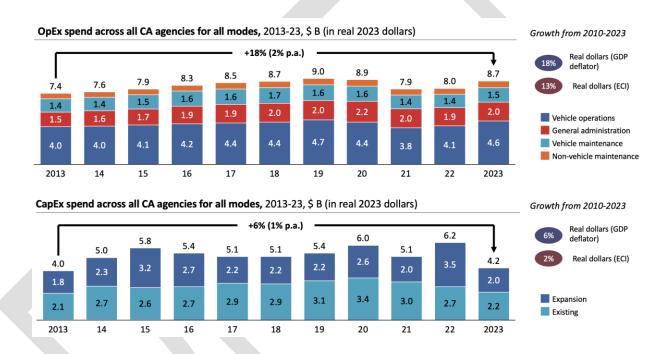
<sup>54</sup> San Francisco transit: Muni is in a furious race to save itself; SFMTA, San Francisco Controller's Office create Muni Funding Working Group

<sup>55</sup> San Francisco transit: Muni is in a furious race to save itself 6 San Francisco transit: Muni is in a furious race to save itself

<sup>57</sup> National Transit Database data on operating expenditures and capital costs

which may decline by 30% by 2030 per the Legislative Analyst's Office (LAO). The lack of a long-term replacement and model for gas tax funding creates significant revenue uncertainty for transit agencies, making it hard to plan for investment and growth. More stable sources would result in substantially less uncertainty for operators, allowing consistent investment.





Given current trends, operating expenditures could increase up to twice today's levels by 2035 (i.e., from ~\$9 billion today up to \$19 billion in 2035). A range of potential outcomes are shown in Exhibit 2 based on analysis of NTD data and assumptions around service levels and cost efficiency. The higher end of this range (see A1in Exhibit 4 below) assumes transit agencies invest in improved service levels to achieve VMT<sup>59</sup>

<sup>58</sup> Source: National Transit Database, U.S. Bureau of Economic Analysis

<sup>&</sup>lt;sup>59</sup> Vehicle Miles Traveled

reduction goals and costs continue to increase in line with recent trends. 60 For example, in the 2010s, transit agencies in Canada and Australia (e.g., TransLink, Transport for NSW) made significant increases to service levels, that saw ridership increase by roughly double the increases in Vehicle Revenue Miles that the agencies delivered.

On the other hand, costs could remain flat (see B3 in Exhibit 4 below) if service levels remain at similar levels and transit agencies invest in measures to improve cost efficiency over time to keep costs from increasing. For example, agencies could invest further in predictive maintenance regimes, increase the speed of buses through transit prioritization and road improvement projects, and increase fuel efficiency of fleets.

Since speed improvements have a direct relationship to Vehicle Revenue Miles delivered per Vehicle Revenue Hour, a given increase in speed should reduce costs that scale per hour of service by a similar amount.

An example of how agencies can invest in ways that increase cost efficiency, is SFMTAs buildout of the Van Ness BRT project. By increasing the speed of buses, SFMTA can meet more frequent headways, with fewer buses, and lower costs.<sup>61</sup>

Exhibit 2: As congestion increases in areas where transit does not have traffic priority measures, transit service becomes slower and more expensive to provide.

24

<sup>&</sup>lt;sup>60</sup> Analysis from the National Transit Database data on revenues, operating expenditures and capital costs assuming cost trends continue into the future 61 SF MTA, Transit Transformation Task Force Meeting #4

EXAMPLE: Cost to Provide 10-Minute Bus Frequency, 6 AM - 12 AM, daily

Travel time and cost increase together

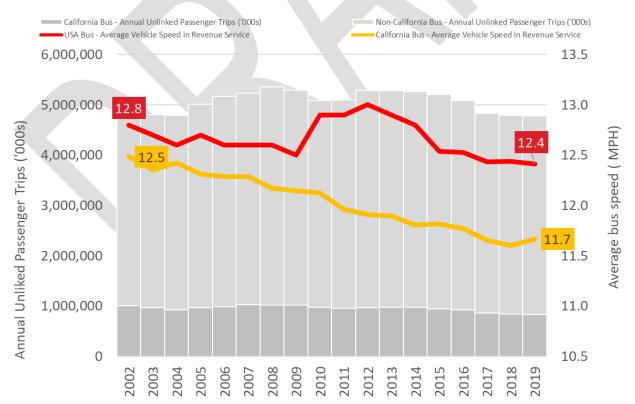
Travel Time	Buses Required	Annual Cost
30 minutes		\$4 million
45		\$6 million
60		\$8 million
75		\$10 million

Assumes operating cost of \$200/hour per vehicle for example purposes only. Actual costs vary by mode.

Over the past 25 years, we've seen a noted decline in average speeds among agencies. This is a significant driver in increased costs to the State and local agencies, as well as a driver of the decline in ridership.

Exhibit 3: Average US and CA Bus Speeds





Potential 2035 OpEx across CA agencies, \$B (in real 2023 dollars) Assumptions driving range of OpEx Annual Opex, \$B (2025 dollars) Costs (\$/VRH) Service levels (VRH) A1 Grows at a higher rate (5% p.a.) \$19.1B 20 Changes from 2023 Opex/VRH A2 Grows in line with pre-COVID \$13.6B efficiency at real trends (2% p.a.) rate observed from 15 2012-19 (2% p.a.) A3 Remains flat at 2023 levels \$11.0B 10 \$15.7B B1 Grows at a higher rate (5% p.a.) B2 Grows in line with pre-COVID \$11.2B Remains constant 5 trends (2% p.a.) B3 Remains flat at 2023 levels \$9.0B

Exhibit 4: Potential operating expenditures across California transit agencies to 2035<sup>62</sup>

2035

Capital costs tend to be more variable, and highly dependent on how much funding is available, but could also double if recent trends continue (i.e. from ~\$5 billion to ~\$12 billion).63 Over the past five years, capital expenditures have grown 2 to 11 percent, depending on the transit mode (and 4.3% across all modes), for both expansion projects and state of good repair projects. This has been partly driven by a growth in the number of new projects, as well as rising per project costs, particularly for heavy and commuter rail.64 In the future, transit agencies could also have to contend with the costs of replacing increasingly aging systems, which could create a step change in costs when technology or other components become obsolete.

Exhibit 5 shows an analysis of how capital costs could evolve based on NTD data and assumptions around the levels of capex activity, unit costs and the potential costs of implementing Innovative Clean Transit plans. The high end of the estimated range

2012

2019

2023

<sup>&</sup>lt;sup>62</sup> Includes 261 transit agencies in CA with reported data to the National Transit Database; Scenario A is based on the assumption that ridership increases by 5X from 2019 – 2045 (from TTF 2 analysis) to achieve 30% reduction in vehicle miles traveled and service level will change at half the rate based on ridership trends observed in Vancouver from 2015 – 2019 (link) and New South Wales from 2010 – 2016 (link); 25% improvement in cost efficiency is based on estimates provided by Center for Urban Transportation Research, University of South Florida (link) | Source: Discussions with CalSTA in Nov. 24 on scenarios and assumptions for funding needs analysis, National Transit Database, U.S. Bureau of Economic Analysis

<sup>43</sup> Analysis from the National Transit Database data on revenues, operating expenditures and capital costs assuming cost trends continue into the future
44 Analysis from the National Transit Database data on revenues, operating expenditures and capital costs assuming cost trends continue into the future

(see B1 below) assumes transit agencies increase capex activity to support service expansion to achieve VMT reduction goals and unit costs continue to increase in line with recent trends. 65 However, costs could remain relatively flat (see A3 below) if improvements are made to agencies' portfolios, project delivery is expedited and the cost of procuring zero-emission buses (ZEBs) reaches parity with existing fleets.

Exhibit 5: Potential capital expenditures across California transit agencies to 203566

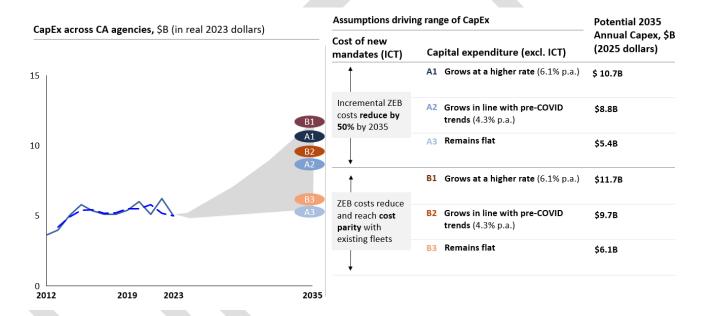
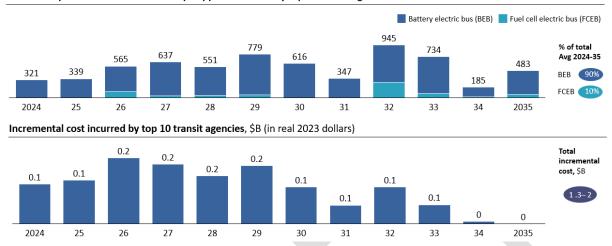


Exhibit 6: Zero emission bus procurements and associated costs<sup>67</sup>

<sup>&</sup>lt;sup>65</sup> Analysis from the National Transit Database data on revenues, operating expenditures and capital costs assuming cost trends continue into the future <sup>66</sup> Includes 261 transit agencies in CA with reported data to the National Transit Database; ICT: Innovative Clean Transit; CapEx to service miles relationship based on historical trends observed in Vancouver from 2016 (link) to 2018 (link); Decrease in capital expenditures based on estimates provided by Center for Urban Transportation Research, University of South Florida (link); ZEB: Zero-emission bus | Source: Discussions with CalSTA in Nov. 24 on scenarios and assumptions for funding needs analysis, National Transit Database, U.S. Bureau of Economic Analysis

For Diagnosis, National Transit Database, U.S., buted of Economic Arianysis, Parameters arianysis, National Transit Database in 2023 and they are AC Transit, LA Metro, MTS, SFMTA, OCTA, LADOT, SacRT, VTA, Foothill Transit and SamTrans. ZEB for VTA is assumed to be BEB as agency indicated TBC in roll out plan; FCEB: Fuel cell electric bus, BEB: battery electric bus | Source: Comprehensive Review of California's Innovative Clean Transit Regulation: Phase I Summary Report (NREL), ICT roll out plans of LA Metro (link), SFMTA (link), MTS (link), AC Transit (link), LADOT (link), OCTA (link), SacRT (link), VTA (link), Foothill Transit (link) and SamTrans (link)



The increase in CapEx above associated with rolling out Innovative Clean Transit was estimated through analysis of transit agency rollout plans. The total incremental, over non-ZEV baseline procurement cost for the 10 largest agencies in California could be between \$1.3 and \$2 billion based on how incremental costs for ZEBs evolve over time. At present, each ZEB costs between \$410,000 to \$730,000 more than purchasing an internal combustion engine alternative. Changes in the number of ZEVs needed to replace existing services could substantially change this number.

If operating and capital costs continue to rise, a funding gap may emerge unless new revenue sources are identified. This gap could be filled in many different ways, and a combination of solutions will be needed

According to the National Transit Database and Legislative Analyst's Office, funding sources have grown for transit in California from ~\$9 billion in 2013 to ~\$14 billion in 2022.

28

<sup>&</sup>lt;sup>68</sup> Capital costs in ICT roll out plans of LA Metro (link), SFMTA (link), MTS (link), AC Transit (link), LADOT (link), OCTA (link), SacRT (link), VTA (link), Foothill Transit (link) and SamTrans (link); subtracting average cost of internal combustion engine buses of ICT roll out plans of LA Metro (link), SFMTA (link), MTS (link), AC Transit (link), LADOT (link), OCTA (link), SacRT (link), VTA (link), Foothill Transit (link) and SamTrans (link)

In calculating the total Opex and capex needs, it is possible that many opex scenarios could be paired with many capex scenarios, leading to a wide range of total outcomes. In general, those scenarios that have higher levels of opex, may need to be paired with scenarios that have higher levels of capex; additional investment (capex) may be required to ensure the provisioning of more service (opex).

Additionally, potential future year capital Investment could will increase or decrease based on allocations and revenue to programs, such additional or less GGRF revenue, or changes in federal investment decisions via the Capital Investment Grants (CIG) program. In short, more money will result in more projects, less money will result in fewer projects. The fiscally constrained RTPs contain some key projects for investment purposes, but not all.

Finally, there are substantial investments needed in the capital side that may result in a rise in total cost due to the ambition of projects in the pipeline. For example, currently there is \$33,707,732,314 in total project costs in the active and (partially) committed projects in the TIRCP program including the Southeast Gateway Line, Gold Line Extension to Montclair, BART to Silicon Valley, Metrolink SCORE, Valley Rail, Transbay Corridor Core Capacity Program, DTX Downtown Rail Extension, LOSSAN Rail Corridor Improvements and more.

5. The costs and operational impacts associated with federal, state, and local mandates, including, but not limited to, the Americans with Disabilities Act of 1990 (42 U.S.C. Sec. 12132) and the State Air Resources Board's Innovative Clean Transit regulations (Article 4.3 (commencing with Section 2023) of Chapter 1 of Division 3 of Title 13 of the California Code of Regulations), to the extent feasible. (SB125 1.E.5)

Americans with Disabilities Act

Under the Americans with Disabilities Act of 1990, the government must provide ADA complementary paratransit services.<sup>70</sup> To qualify, users must demonstrate that they are unable to use fixed-route buses. Additionally, both the trip origin and destination must be within <sup>3</sup>/<sub>4</sub> of a mile of an existing bus route (minimum requirement).<sup>71</sup>

Since 2010, paratransit ride costs have increased by at least ~50%, while the number of persons with a disability or over the age of 65 has increased by ~40%.<sup>72</sup> These cost increases have been driven by:

- Limited supply of paratransit drivers: Unlike traditional on-demand ride services, many operators require paratransit drivers to be credentialed through training programs and may expect drivers to be certificated in CPR and first aid as well as help clients into vehicles. The addition, training requirements vary by location, limiting the ability of drivers to serve a trip across multiple locations in a contiguous region. The ability to provide one-seat rides across a region as well, including, but not limited to, a lack of coordination agreements between different service operators within a region, a lack of coordination with health care providers, and differing insurance, and other rules that vary across jurisdictions. The Further, paratransit drivers have historically been paid less than fixed route drivers, even when paratransit drivers are unionized, potentially limiting supply.
- Vehicle insurance: Paratransit vehicles are often required to be highly insured, making services costly to provide.<sup>76</sup> In addition, insurance policies may differ across the regions in which paratransit operators serve, which can limit operators' coverage and supply of vehicles in each region.<sup>77</sup>
- Low vehicle utilization: Unlike fixed routes where many passengers can be picked up along a single route, paratransit often involves picking up only one passenger at a

<sup>70</sup> U.S. Equal Employment Opportunity Commission

<sup>71</sup> Department of Transportation

<sup>&</sup>lt;sup>72</sup> National Transit Database (<u>TS2.1 - Service Data and Operating Expenses Time Series by Mode</u>); funding adjusted by GDP deflator from <u>FRED</u> database, <u>U.S. Bureau of Economic Analysis</u> and by Employment Cost Index (ECI) from <u>FRED</u> database US Census (<u>Sex by Age by Disability Status</u>)
<sup>73</sup> CalSTA interviews on accessible services from December 2024- January 2025; Paratransit Rider's Guide

CalSTA interviews on accessible services from December 2024- January 2025; Paratra
 CalSTA interviews on accessible services from December 2024- January 2025

<sup>75</sup> Transit Transformation Task Force #9

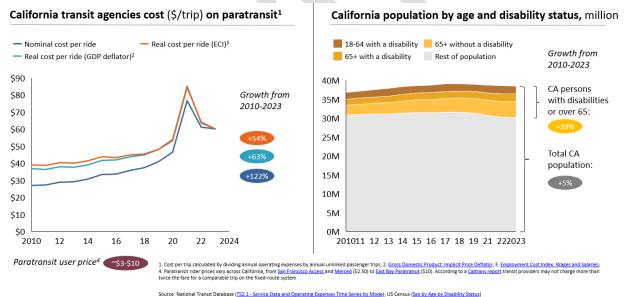
<sup>&</sup>lt;sup>76</sup> CalSTA interviews on accessible services from December 2024- January 2025

<sup>77</sup> CalSTA interviews on accessible services from December 2024- January 2025

time from different locations, leading to many empty seats on each trip.<sup>78</sup> Over the last ten years, passengers per vehicle revenue mile has decreased 12%, suggesting fewer passengers are being transported for each mile a paratransit vehicle operates in revenue service.<sup>79</sup>

• Inefficient scheduling and coordination: As paratransit demand has risen, existing software and scheduling tools may not have been adequate, potentially leading to longer wait times for customers and less efficient vehicle routing.<sup>80</sup> In addition, paratransit services may not have arrangements to operate across different service boundaries, raising costs for both riders, as they may pay for multiple rides, and likely for operators in the aggregate as well, given multiple vehicles and operators are serving what could be a single trip.<sup>81</sup>

Exhibit: California transit agencies cost per paratransit trip and California population by age and disability status<sup>82</sup>



Innovative Clean Transit regulations

<sup>78</sup> Okeened

<sup>79</sup> National Transit Database (TS2.1 - Service Data and Operating Expenses Time Series by Mode)

<sup>80</sup> CalSTA interviews on accessible services from December 2024- January 2025; 3. Paratransit Fleet Configurations

<sup>81</sup> CalSTA interviews on accessible services from December 2024- January 2025

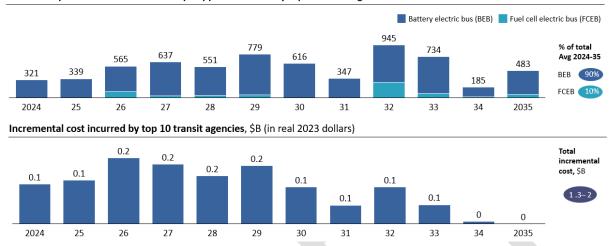
<sup>&</sup>lt;sup>82</sup> National Transit Database (<u>IS2.1 - Service Data and Operating Expenses Time Series by Mode</u>); funding adjusted by GDP deflator from <u>FRED</u> database, <u>U.S.</u> <u>Bureau of Economic Analysis</u> and by Employment Cost Index (ECI) from <u>FRED</u> database US Census (<u>Sex by Age by Disability Status</u>)

The increase in CapEx described in the previous analysis associated with rolling out Innovative Clean Transit was estimated through analysis of transit agency rollout plans. The total incremental procurement cost for the largest 10 agencies in California could be between \$1.3 and \$2 billion based on how incremental costs for Zero Emission Buses (ZEB) evolve over time.83 At present, each ZEB costs between \$410,000 to \$730,000 more than purchasing an internal combustion engine alternative.84 In addition to higher costs, the TTTF identified other issues in ZEB conversion, including difficulties procuring ZEBs (e.g., limited number of suppliers eligible for federal funds), that ZEBs require operational changes that may increase operating costs (e.g., routing, facilities, maintenance) and that agencies may need technical, staff and other support to successfully implement the ZEB transition.85 Currently, CalSTA is engaged with CARB, Go-Biz, and other groups on a new ICT Working Group, which expects to make more detail recommendations and findings.

Exhibit: Zero emission bus procurements and associated costs<sup>86</sup>

<sup>83</sup> Capital costs in ICT roll out plans of LA Metro (link), SFMTA (link), MTS (link), AC Transit (link), LADOT (link), OCTA (link), SacRT (link), VTA (link), Foothill Transit (link) and SamTrans (link); subtracting average cost of internal combustion engine buses ed ICT roll out plans of LA Metro (link), SFMTA (link), MTS (link), AC Transit (link), LADOT (link), OCTA (link), SacRT (link), VTA (link), Foothill Transit (link) and SamTrans

<sup>26</sup> Top 10 agencies account for 57% of total bus count in CA based on size of bus fleets reported to the National Transit Database in 2023 and they are AC Transit, LA Metro, MTS, SFMTA, OCTA, LADOT, SacRT, VTA, Foothill Transit and SamTrans. ZEB for VTA is assumed to be BEB as agency indicated TBC in roll out plan; FCEB: Fuel cell electric bus, BEB: battery electric bus | Source: Comprehensive Review of California's Innovative Clean Transit Regulation: Phase I Summary Report (NREL), ICT roll out plans of LA Metro (link), SFMTA (link), MTS (link), AC Transit (link), LADOT (link), OCTA (link), SacRT (link), VTA (link), Foothill Transit (link) and SamTrans (link)



# 6. Workforce recruitment, retention, and development challenges, impacting transit service (SB125 1.E.6)

California transit agencies employ approximately ~32,600 people, as of 2022, across bus and rail, and has been growing.<sup>87</sup> Total employee count grew by 0.7% for bus and 2.2% for rail across NTD reporting California transit agencies each year from 2016-22.<sup>88</sup> Approximately 70% of roles for buses are related to vehicle operations in positions operations.<sup>89</sup> Roles across rail are more evenly split across vehicle operations, maintenance, administration, and capital projects.<sup>90</sup>

Exhibit: Bus and rail workforce in California by role<sup>91</sup>

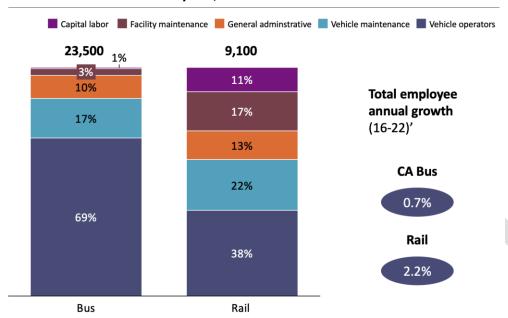
<sup>87</sup> TTTF Meeting #5, which took place on 08/29/2024

<sup>88</sup> TITF Meeting #5, which took place on 08/29/2024; National Transit Database (Annual Database Transit Agency Employees)

TITF Meeting #5, which took place on 08/29/2024
 TITF Meeting #5, which took place on 08/29/2024

<sup>91</sup> US Department of Transportation – Federal Transit Administration, National Transit Database, Employees for reporting entities

#### Bus and rail workforce in CA by role, 2022 %



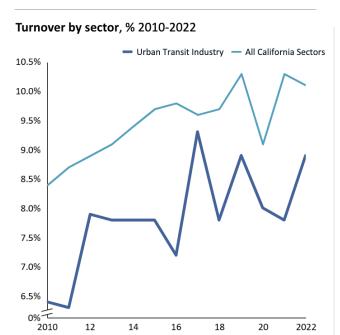
The turnover rate has been increasing in California transit, however, this is in line with trends experienced across other sectors of the economy and is not specific to the transit agencies. Ye It has increased from approximately 6.5% in 2010 to 8.5% in 2022, although there is a degree of year-to-year variability. Ye An aging workforce may continue to put pressure on attrition rates in the future, as a comparatively older transit workforce begins to retire.

Exhibit: Turnover and age distribution of transit workers in California94

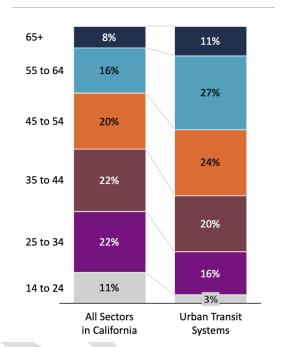
 $<sup>^{92}</sup>$  TTTF Meeting #5, which took place on 08/29/2024 (Census QWI)

<sup>93</sup> TTTF Meeting #5, which took place on 08/29/2024 (Census QWI) 94 TTTF Meeting #5, which took place on 08/29/2024 (Census QWI)

# Turnover rate<sup>1</sup> in sector<sup>2</sup> and by age in region, % of employment



Age Distribution within CA Industries, 2023 %

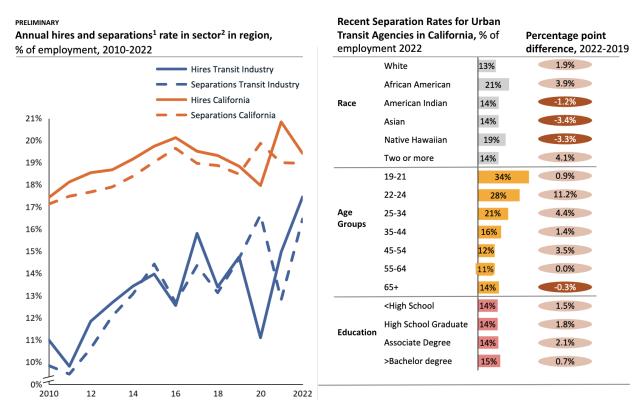


Analysis of separation rates (i.e., the percentage of employees that left during the reporting period) shows that separation rates are 2-3x higher for workers 18-34 compared to workers 35 and above. 95 They are also slightly higher for African Americans. 96 There is no difference in separation rates across different education levels.

Exhibit: Separation rates across different demographics of transit workers97

 $<sup>^{95}</sup>$  TTTF Meeting #5, which took place on 08/29/2024 (Census QWI)

TITF Meeting #5, which took place on 08/29/2024 (Census QWI)
 TITF Meeting #5, which took place on 08/29/2024 (Census QWI)



Separation Rate measures the percentage of employees who left the organization during the reporting period. These are the average of four quarters of payroll separations divided by the average quarterly employment. The data is focused on workers who were employed for 3 consecutive quarters (so have a longer-term relationship with employer).

In discussion, the Technical Working Group and TTTF identified several possible drivers of workforce challenges across the hiring lifecycle (recruitment, retention, and development):98

#### Recruitment:

- Mismatch between job characteristics and preferences of current pool of job seekers (e.g., inflexible schedules, skills required)
- High barriers to entry (e.g., licensing, drug testing requirements)
- Compensation packages do not cover housing in high cost of living locations, resulting in long commutes – results in workers selecting higher paying jobs or jobs closer to where they live

## **Retention:**

98 TTTF Meeting #5, which took place on 08/29/2024

<sup>2.</sup> The Urban Transit Systems industry was the one taken into consideration and was broken down to 6-digit NAICS codes defined by the Bureau of Labor Statistics

- Poor on-the-job experience (e.g., perceived or actual safety issues, lack of critical amenities such as bathrooms in layover locations)
- High cost of living (e.g., for childcare, affordable housing) relative to pay
- Roles are not tailored to different demographics (e.g., younger drivers may desire flexibility, older drivers may want for more hours or higher pay)

#### Development:

- Training programs for new workers are well-developed, but are costly and not standardized
- Lack of mentorship for workers on long-term career pathways
- Changing workforce needs in response to emerging technological trends (e.g., transition to zero-emission vehicles, connected vehicles)

# 7. Existing policies on state and local metrics to measure transit performance (SB125 1.E.7)

#### <u>Transportation Development Act (TDA)</u>

As public transit transitioned from private to public ownership in the 1970s,
California passed the Transportation Development Act (TDA) to provide operating funds
to run new, publicly funded transit services. After the TDA was passed, concerns arose
over publicly owned transit agencies' "financial discipline," prompting the State to
implement farebox recovery ratios (FRR), mandating transit agencies to cover a portion
of their operating expenses through passenger fares to encourage financial
responsibility to receive TDA-related funding among other restriction.

<sup>&</sup>lt;sup>99</sup> UCLA Institute of Transportation Studies: An Assessment of Performance Measures in the Transportation Development Act <sup>100</sup> UCLA Institute of Transportation Studies: An Assessment of Performance Measures in the Transportation Development Act

Today, the Transportation Development Act (TDA) is the main way the state funds transit, providing 18% of all transit operators' revenues, and comprises of two funds:101

- Local Transportation Fund (LTF) \$1.3B revenue generated in FY2023 (13% of total transit operator revenue from all sources)102
- State Transit Assistance (STA) \$0.4B revenue generated in FY2023 (4% of total transit operator revenue from all sources) 103

For LTF funding, transit operators' farebox recovery ratio (FRR) (fare revenue to operating cost) must be:

- > 20% if the agency is in an urbanized area 104
- > 15% if the agency is in a low population county with urbanized areas<sup>105</sup>
- > 10% if the agency is outside an urbanized area 106

In addition, to qualify for STA funds, total operating cost per revenue vehicle revenue hour (VRH) must be less than or equal to that of the previous year. 107 Failure to comply with these standards may result in reduced allocations.

"True" Farebox recovery ratio (FRR) is a measure that blends two concepts – cost effectiveness and service effectiveness. It is therefore possible to meet FRR goals by reducing service or not expanding service. 108 Further it does not give agencies credit for increases in non-farebox revenues (e.g., real estate, advertising, concessions) that may be important as part of a comprehensive growth strategy. Additionally, California has made many changes to the definition of farebox revenue, including items such as local

<sup>101</sup> UCLA Institute of Transportation Studies: An Assessment of Performance Measures in the Transportation Development Act

<sup>102</sup> State Controller's Office Transit By the Numbers 2023

<sup>103</sup> State Controller's Office Transit By the Numbers 2023

<sup>104</sup> UCLA Institute of Transportation Studies: An Assessment of Performance Measures in the Transportation Development Act

<sup>105</sup> UCLA Institute of Transportation Studies: An Assessment of Performance Measures in the Transportation Development Act

<sup>106</sup> UCLA Institute of Transportation Studies: An Assessment of Performance Measures in the Transportation Development Act

<sup>107</sup> UCLA Institute of Transportation Studies; An Assessment of Performance Measures in the Transportation Development Act

<sup>108</sup> UCLA Institute of Transportation Studies: An Assessment of Performance Measures in the Transportation Development Act

option sales taxes, certain partnership programs that makes the definition of FRR different from just revenue received at the farebox. Alternative performance goals to FRR exist (e.g. cost efficiency and service effectiveness), and is discussed in the body of the main report.

#### Requirements from other transit funding programs (e.g., TIRCP)

Other transit funding programs outside of the TDA also have specific reporting requirements attached to funding to track performance against the stated goals of the project. For example, the TIRCP program carries reporting requirements on:<sup>109</sup>

- Project progress: with percent completion for the overall project and each phase of each project component
- Performance outcomes: based on the original targeted outcomes of the project application which could relate to ridership/service levels, GHG emissions reductions, benefits to disadvantaged communities, other cobenefits etc.
- Changes in scope, timetables, or costs that are actual or anticipated
   Examples of data that must be reported on an ongoing basis for 36 months after

project completion include:

Project type	Metrics
Capital Improvements that Result in New or Expanded Transit Service or Increase Mode Share on Existing Transit Service	<ul><li>Days of operation per year</li><li>Average daily ridership</li></ul>
New Vehicle(s) for Existing Transit Service	<ul> <li>Fuel/energy consumption or vehicle miles traveled</li> <li>Range in fuel/energy consumption or annual vehicle miles traveled</li> </ul>

<sup>109</sup> TIRCP Cycle 7 Guidelines

The Low Carbon Transit Operations Program (LCTOP) provides funding for operating and capital assistance for transit agencies to reduce GHG emissions and improve mobility, with a priority on serving disadvantaged communities. Major reporting requirements for LCTOP recipients include:

- Project Activity Reporting (PAR) including project status (e.g., progress against scope, schedule, cost)
- Jobs Reporting, or tracking jobs created, particularly those for priority populations
- Project Outcome Reporting of "operational" project outcomes including program successes in facilitating the achievement of GHG reductions and maximizing economic, environmental, and public health benefits to the State

#### Intercity Rail Uniform Performance Standards (UPS)

The Intercity Passenger Rail Act required CalSTA to establish a set of uniform performance standards for all corridors and operators to measure and monitor performance of state-supported intercity passenger rail service. These do not apply to other transit operations, like light rail or bus, but are examples of other metrics that could be explored. Metrics cover three categories (usage, cost efficiency, and service quality.)

Exhibit: Intercity Rail Uniform Performance Standards Adopted Metrics

Metrics
<ul> <li>Passenger miles relative to growth in total corridor population and year-over-year</li> <li>Ridership relative to growth in total corridor population and year-over-year</li> </ul>
Farebox recovery i.e., total revenue / total operating expense
<ul> <li>Total operating cost per passenger mile i.e., corridor passenger miles / total operating expense</li> </ul>
<ul> <li>Endpoint on-time performance i.e., % of trains that arrive at their <u>final destination</u> within a specified time frame of scheduled arrival</li> </ul>
<ul> <li>All-station on-time performance i.e., % of train times (departure from origin station and arrivals at all other stations) within 15 minutes of schedule</li> </ul>
<ul> <li>Operator responsible delays per 10,000 train miles i.e., average minutes trains are delayed due to causes attributed to the operator (e.g., mechanical issues, crew availability, operational decisions) for every 10,000 miles traveled</li> </ul>

8. State and local policies that impact service efficiency and transit ridership, including, but not limited to, transit prioritization on roads, land use, housing, and pricing policies (SB125 1.E.8)

## **Transit prioritization**

Current state and local policies on transit prioritization can allow local cities to block the full implementation of transit prioritization across a corridor. Local cities may reduce the effectiveness of transit-priority projects by asserting control over curb space and lane configurations, insisting on "mixed-flow" operations to preserve parking or car capacity, which dilutes the speed and reliability benefits of transit prioritization projects. On LA Metro's North Hollywood–Pasadena BRT, for example, Burbank's council directed Metro to run buses in mixed traffic on Olive Ave (rejecting a dedicated bus lane), citing parking and congestion concerns, a formal position the city has reiterated in project materials and council actions. 110

At the state level, Senate Bill 960 (2024) mandates that Caltrans integrate transit priority facilities into state highway projects, develop design guidance by 2028, and streamline approvals for pedestrian, bicycle, and transit improvements. 111 As discussed in Section 4, transit priority projects not only improve transit service, but may ultimately lower the operating expenses needed to deliver that service, all else being equal.

<sup>110</sup> City Council Tells Metro They are Staying With the Mixed Use Option on Olive Avenue, Metro NoHo-Pasadena Corridor Bus Rapid Transit Project 111 Scott Weiner: Governor Newsom Signs Senator Wiener's Safe Streets Bill Into Law

This builds on Assembly Bill 917 (2022), which authorized automated camera enforcement of bus lanes and stops statewide, directly addressing delays caused by illegal parking. 112

Complementing these policies, Senate Bill 288 (2020) created critical California Environmental Quality Act (CEQA) exemptions for transit priority projects in existing rightsof-way, accelerating delivery of bus lanes and signal upgrades. 113

To implement transit prioritization projects on roads, transit agencies may need to obtain an encroachment permit from Caltrans when the project involves the State Highway System. 114 Coordination with local city or county transportation departments is also needed for projects affecting local roadways, as they may have additional permitting requirements or design standards. 115 Furthermore, collaboration with public utility companies is necessary if the project impacts existing utilities, to address potential relocations or modifications. 116

Local jurisdictions control critical levers for transit prioritization through permitting processes and street design standards. Some agencies in California have begun to use "quick build" permitting processes, which allow temporary transit lanes through paint and signage changes. 117 For example, AC Transit created a dedicated transit lane on a portion of Durant Avenue in Berkeley, CA through red paint and other improvements (e.g., traffic signals give buses queue jumps, shelter upgrades) for \$2.1M, and was able to implement the project between Summer and Fall 2024. While still early, evidence has shown that speed, reliability and safety have all improved across the corridor. 118 However, Transit Agencies report that local control and local policies on the public-right of way remain obstacle for transit prioritization.

#### Land use and housing policies

Industry researchers estimate transit-supportive land uses and housing in California could provide 1.6 to 2.4 million new homes, increase net local and state tax revenues, and reduce VMT<sup>119</sup> emissions by 33% and greenhouse gas emissions by 45%. <sup>120</sup> Simply put, the land surrounding high quality transit in California could be better utilized to address California's housing shortage and course-correct its jobs/housing imbalance.

For example, in the DC metro area, stations with transit supportive land use have been shown to yield greater ridership than other stations. For example, the Ballston-MU station

<sup>112</sup> Conduent: Legislation Paves the Way for Bus Lane Enforcement in California

<sup>113</sup> Meyers Nave: New Two-Year CEQA Exemption Aims To Fast Track Transportation Projects

<sup>114</sup> Caltrans: Encroachment Permits

<sup>115</sup> Caltrans: Transit Initiative Program Guidelines

<sup>116</sup> Mass Transit: Keys to Successful Utility Work

<sup>117</sup> SPUR: Making Roads Work for Transit

<sup>118</sup> AC Transit, Berkeleyside

<sup>119</sup> Vehicle Miles Traveled

<sup>120</sup> Research collaboration by UrbanFootprint, HDR, Mapcraft Labs, and Economic & Planning Systems (link)

has 9,600 average weekday riders and ~10,900 people per square mile, as compared to West Falls Church station, which has 2,500 average weekday riders and only ~33,360 people per square mile, as seen in the exhibit below. Near high quality transit, the number one determinant of ridership is the density of land use near the station.

#### Exhibit: Ballston-MU station vs. West Falls Church station

Design and impact comparison between two suburban DC Metro stations<sup>1</sup>

#### **Ballston-MU station**

9,600 avg weekday riders (5,900 post-Covid)<sup>2</sup>

**~10,900** people per square mile



Land use elements: high-density and mixed-use developments, high intersection density, and walkable design

Development and design completed alongside Arlington County to align zoning and density requirements and gain community support

#### West Falls Church

2,500 avg weekday riders (1,200 post-Covid)<sup>2</sup>

**~3,360** people per square mile



Land use elements: auto-orientation (e.g., part-and-ride), single-use of land, station location in highway median

Limited engagement with Fairfax county in original land use development

Redevelopment approved in 2023 (shown in blue area above) aims to build 700+ multifamily units and 110,000 sq ft and 10,000 sq ft of office and retail space, respectively

Ballston-MU is ~8 miles from Capital Hill in DC whereas West Falls Church is ~12 miles
 Pre-Covid ridership shown is 2019 data; post-Covid ridership shown is 2024 data

Source: Washington Metropolitan Area Transit Authority Metrorail Ridership Summary, US 2020 Census, Land Lawyers

Land use and housing in California is governed by a wide range of policies including for the initial planning of a project, zoning, entitlements, construction and permits being issued. In recent years, several state-led initiatives and legislative changes have sought to accelerate housing production and better integrate transit with land use planning. The California Housing and Community Development Department administers an incentive program, where local jurisdictions with a Pro-housing Designation may receive priority processing or funding points when applying for several funding programs, including Affordable Housing and Sustainable Communities (AHSC), Infill Infrastructure Grant (IIG), Transformative Climate Communities (TCC), Solutions for Congested Corridors (SCCP), Local Partnership Program (LPP), Transit and Intercity Rail Capital Program (TIRCP), and Sustainable Transportation Planning Grant Program (STPG). Building upon past legislative and funding reforms, the Newsom Administration continues to champion lowering costs and increasing transit-supportive infill housing options with the actions called for in the Governor's Executive Order N-2-24 to transform underutilized infill sites to help meet state climate, housing and transportation needs. Actions include the development of a framework for a Statewide Mitigation Bank to provide flexibility in the use of infill housing as a mitigation strategy for transportation and housing projects with significant environmental impacts under CEQA. In 2024, over 60 housing and land use related bills were signed into California law that will shape community outcomes to accelerate housing production and

strengthen accountability, including upzoning reforms, elimination of minimum parking requirements for transit-oriented developments, deferring upfront development costs, and adjustments to the entitlements process, among other solutions 121.

### **Pricing policies**

Statewide, California transit agencies use or are considering using a variety of pricing policies, including congestion pricing and all-lane tolling, HOV lanes, street parking, and road pricing, to encourage use of public transit, reduce congestion, as well as generate revenue for transit projects:

#### Congestion pricing, all-lane tolling

In San Francisco, a Traffic Congestion Mitigation Tax charges transportation network companies (TNCs) fees to fund transit improvements. <sup>122</sup> Enacted through a 2019 ballot measure requiring two-thirds voter approval, this tax on Uber and Lyft fares directs revenues (between \$30 million to \$35 million annually) specifically toward Muni service expansions and pedestrian safety infrastructure. 123 If this were expanded to other dense, congested cities (e.g., core parts of Los Angeles, San Diego) aggregate revenues could be potentially be increased 5x or more.

The Bay Area Metropolitan Transportation Commission (MTC) has also proposed in recent years for all-lane tolling on freeways, where drivers might be charged ~10 cents per mile, reducing emissions and generating funds that could be invested in public transit projects. 124 The MTC estimates that if all-lane tolling is implemented, it could generate approximately \$1 billion annually, a portion of which could would be allocated to invest in public transit projects. 125

In addition to raising funds, road pricing can have other benefits; this has been displayed in New York City based on their recent experience with congestion pricing. Beginning on January 5th, 2025, a \$9 toll has been charged on most vehicles (with different rates for trucks, taxis, etc.) to enter the most congested part of Manhattan south of 60th Street, for most of the day. In March 2025 the tolls raised \$45 million, putting the program on track to generate roughly \$500 million in its first year, there have been other benefits as well. Car traffic in Lower Manhattan has been reduced by about 12% relative to historical trends, this decrease in car traffic has increased travel speeds, and lowered trip times for cars and buses, particularly along the river crossings into Manhattan. In parallel, transit trips have increased (with bus ridership growing 13%, subway growing 8%, Long Island Rail Road

California Housing Laws That Go into Effect in 2025 - Terner Center

<sup>122</sup> SF Traffic Congestion Mitigation Tax

<sup>123</sup> SF Traffic Congestion Mitigation Tax, SF Treasurer and Tax Collector: Traffic Congestion Mitigation Tax (TCM)

<sup>124</sup> Roads & Bridges: Bay Area Officials Push for All-Lane Freeway Tolls

<sup>125</sup> Roads & Bridges: Bay Area Officials Push for All-Lane Freeway Tolls

growing 11% and Metro North Railroad growing 8% as compared to a similar period in 2024), car crashes and injuries have declined (down 14% in the tolled zone), noise violations are down 45% in the tolled zone, and early evidence points to economic activity being unharmed with restaurant reservations up 7%, Broadway bookings being flat, and overall credit card expenses being slightly positive when comparing year to date 2025 with a similar period in 2024. 126

### High occupancy tolling (HOT) lanes

In addition, metropolitan planning organizations (MPOs) are implementing hybrid HOV/High-Occupancy Toll (HOT) lane configurations to manage traffic flow effectively. For example, the I-110 express lanes in Los Angeles allow single-occupancy vehicles to access carpool lanes for variable tolls (as of May 2019, SOVs were charged between \$0.10 and \$2.10 per mile, depending on congestion levels). 127 From 2012 to 2022, the I-100 and I-10 express lanes have generated more than \$100 million that has been invested in various multimodal transportation improvements to improve regional mobility and grow transit ridership. 128 For example, \$6.9 million in toll revenue is provided annually to help fund the Metro Silver Line as well as Torrance, Gardena, and Foothill Transit services operating on the ExpressLanes. 129 This has helped increase ridership on the Silver Line by 50% from 10,600 average weekday boardings in 2012 to 15,400 in 2016. 130

#### **On-street parking**

In San Francisco, the SFMTA implemented a demand-responsive pricing program for all 28,000 on-street parking meters and SFMTA-managed surface parking lots in the city. <sup>131</sup> This program, which builds upon the SFpark pilot initiated in 2011, adjusts parking rates based on real-time occupancy data to balance supply and demand. <sup>132</sup> The SFpark pilot demonstrated significant benefits, including a 43% reduction in parking search time, reducing congestion, and a 30% decrease in vehicle miles traveled in pilot areas, leading to improved parking availability and reduced congestion. <sup>133</sup> Street parking programs may also lead to increased transit ridership, with one study finding a correlation between SFpark and increases in transit bus usage of about 21% and reductions in lane occupancy of 5 percentage points per census block. <sup>134</sup>

<sup>126</sup> New York Times (Here Is Everything That Has Changed Since Congestion Pricing Started in New York)

<sup>127</sup> Metro ExpressLane Fact Sheet

<sup>128</sup> LA Metro: L.A. Metro Celebrates ExpressLanes 10th Anniversary

 $<sup>{}^{\</sup>underline{129}}\, LA\,\, County\,\, MTA;\, Countywide\,\, ExpressLanes\,\, Strategic\,\, Plan}$ 

<sup>130</sup> LA County MTA: Countywide ExpressLanes Strategic Plan

<sup>131</sup> SFMTA: San Francisco Adopts Demand-Responsive Pricing Program to Make Parking Easier

<sup>132</sup> SFMTA: San Francisco Adopts Demand-Responsive Pricing Program to Make Parking Easier

<sup>133</sup> SFMTA: San Francisco Adopts Demand-Responsive Pricing Program to Make Parking Easier

<sup>134</sup> Parking, Transit and Traffic: Evidence From SFpark

Los Angeles Department of Transportation (LADOT) also implemented a similar program called LA Express Park, which reduces congestion through a demand-based mechanism. Launched in May 2012, The system utilizes real-time data from in-ground sensors and smart parking meters to adjust hourly rates based on occupancy, aiming to maintain 10-30% availability on each block. <sup>135</sup> LA Express Park's strategies have led to a 10% reduction in congested city parking and increased parking turnover, with more vehicles parking for shorter durations, improving traffic flow for transit services. <sup>136</sup>

#### Road user charge

As California seeks to move away from the gas tax as a source of transit funding, SB339 requires California to study a "Road Charge" program as a potential alternative funding source, which issues fees to drivers based on how many miles they drive per month. Depending on pricing levels and purpose of a road charge, studies have shown that road user pricing can lead to a reduction in traffic volume, with elasticity estimates ranging from -0.1 to -0.45, meaning a 1% increase in driving costs could result in a 0.1% to 0.45% decrease in traffic volume, thereby potentially reducing VMT. 138

Across all pricing programs, the impacts of reduced congestion can help speed buses, and pricing may provide additional funds for transit services. The combination of better and more service may in turn increase ridership.

#### **Tax-Increment-Financing Districts**

Tax Increment Financing districts (TIFs) are a financial mechanism to share value created by those that improve the value of land. As an example, if a transit agency builds a line, or provides a new service to an area, property values (and thus property and other taxes generated) would go up. A TIF, in principle would share with the transit agency some portion of this incremental value of taxes that are generated. TIFs can be a mechanism for transit agencies to obtain some of the value that it is generated

of the value that it is generated

through their investments, that often goes to other parties. California, has several types of TIF, and TIF like mechanisms today include:

 Infrastructure Financing Districts (IFDs, that focus on public works/facilities and projects

<sup>135</sup> LA Express Park

<sup>136</sup> Trellint: LA Express Park: Parking Smarter with Demand Pricing

<sup>137</sup> NBC: Road Charge Program, NBC Gas Tax Alternative

<sup>138</sup> CARB: Impacts of Road User Pricing on Passenger Vehicle Use and Greenhouse Gas Emissions

- Enhanced Infrastructure Financing Districts (EIFDs) that focus on Infrastructure projects with community-wide benefits
- Infrastructure and Revitalization Financing Districts (IRFDs) that focus on housing development and other development projects
- Community Revitalization and Investment Authorities (CRIAs) that focus on lowincome or disadvantaged communities
- Neighborhood Infill Finance and Transit Districts (NIFTI-1, NIFTI-2) that focus on Affordable housing in infill locations; development within 0.5 mile of transit (NIFTI-2) Only 12 TIF districts were approved and/or proposed in CA over the past 20 years, though more are being considered. Based on a study by the Governor's Office of Land Use and Climate Innovation, use of post-redevelopment TIF tools has been limited due to:
  - Limited revenue, given property tax shares are often too low to justify creation of a
     TIF without other entities' help.
  - The need for voluntary involvement from multiple taxing entities needed.
- Technical challenges and lack of widespread understanding of how to use TIFs.

  Prior to 2012, the most common form of TIF in California was a Redevelopment agency.

  Transit Agencies and other SME reported that the end of redevelopment had a significant impact on the ability of agencies to use TIFs, as the legal rights granted to redevelopment agencies, including shares of taxable revenue, far exceeded those granted to any successor TIF type agency or district.
- 9. Identification of state departments and agencies that have responsibility for transit system oversight, grant administration, and reporting (SB125 1.E.9)

Several different state departments and agencies may be involved in setting the overall policies/requirements (system oversight), distribution decisions, program administration, and reporting of transit funding. Transit has a diverse range of funding sources and enabling legislation, and therefore there are many different state entities / departments involved in system oversight, grant administration and reporting. System oversight (program administration and compliance) for many programs is mainly managed by Caltrans, including funding under the TDA (e.g., Local Transportation

Fund, State Transit Assistance) and other transportation funding programs under SB1 (e.g., Active Transportation Program, Solutions for Congested Corridors Program) and the Greenhouse Gas Reduction Fund (e.g. Low Carbon Transit Operations Program, Transit and Intercity Rail Capital Program), while a diverse array of other agencies are responsible for oversight, grant-making, administration, and reporting for other funding sources. See the Exhibits below for additional details.



## Exhibit: State agencies involved in transit agency oversight and reporting

State Agency	Agency Responsibilities
California State Transportation Agency (CalSTA)	Oversees planning, coordination, and funding of California's transportation system, ensuring integration across all modes and agencies
California Department of Transportation (Caltrans)	Plans, builds, operates, and maintains California's state highway system and supports local and regional transportation infrastructure
California Transportation Commission (CTC)	Programs and allocates funds for the construction of highway, passenger rail and transit improvements throughout California.
California Air Resources Board (CARB)	Regulates air quality and vehicle emissions statewide, advancing California's climate goals through policy, enforcement, and innovation in clean air technologies
Strategic Growth Council (SGC)	Coordinates work between public agencies, communities, and stakeholders to achieve sustainability and economic prosperity in California. The Affordable Housing and Sustainable Communities (AHSC) programs helps integrate affordable housing with sustainable transportation.
California Department of Housing and Community Development (HCD)	Develops housing policy and allocates state and federal funds to support affordable housing and community development. HCD aims to implement the AHSC program through providing funding for new construction and infrastructure improvements, prioritizing projects that are located in disadvantaged communities and reduce GHG, and collaborating with developers, local governments, and transportation agencies, prioritizing projects that are located in disadvantaged communities and reduce GHG, and collaborating with developers, local governments, and transportation agencies.
California Energy Commission (CEC)	Leads California's energy policy and planning, including advancing renewable energy, improving energy efficiency, and overseeing energy system reliability. This includes clean transportation energy

State Agency	Agency Responsibilities
	infrastructure, including EV Charging and hydrogen fuelingfuelling stations, as well as research and deployment of zero-emission transit technologies.
California Public Utilities Commission (CPUC)	Regulates privately owned utilities to ensure safe, reliable service at reasonable rates, including those that power transit agencies electrification efforts, and provides oversight of TNCs, and safety regulations for rail transit systems.
Governor's Office of Business and Economic Development (Go-Biz)	Offers consultation services to businesses including, but not limited to site-selection, permit assistance, and assistance with state government, and coordinates economic development related to clean transportation industries, including public transit.

Exhibit: Transit-related programs and grants with State agency oversight and reporting

		Agency Resp	onsible for:	
Program/ Grant Name	System Oversight (including setting policy and requirements)	ting policy   Grant/ Project   Program Administration		Reporting and Compliance
Transit and Intercity Rail Program (TIRCP)	CalSTA/ CARB	CalSTA	Caltrans	Caltrans
State Rail Assistance Program (SRA)	CalSTA	CalSTA	Caltrans	Caltrans
Low Carbon Transit Operations Program (LCTOP)	Caltrans/ CARB	Caltrans/ CARB	Caltrans/ CARB/ SCO	Caltrans
Local Transportation Fund (LTF)	SCO		County Transportation Commissions/ Regional Transportation Planning Agencies (RTPAs)	Caltrans/ SCO

	Agency Responsible for:						
Program/ Grant Name	System Oversight (including setting policy and requirements)	Grant/ Project Selection (if applicable)	Program Administration	Reporting and Compliance			
State Transit Assistance	SCO		County Transportation Commissions/ RTPAs	Caltrans/ SCO			
State Transit Improvement Program (STIP)	СТС	СТС	Caltrans	Caltrans			
Active Transportation Program	стс	СТС	Caltrans	Caltrans			
State of Good Repairs Program	СТС	CTC	Caltrans	Caltrans			
Solutions for Congested Corridors (SCCP)	СТС	CTC	Caltrans	Caltrans			
Trade Corridor Enhancement Program (TCEP)	СТС	СТС	Caltrans	Caltrans			
Local Partnership Program (LPP)	СТС	СТС	Caltrans	Caltrans			
Affordable Housing and Sustainable Communities Program	SGC/ CARB	HCD/ SGC	HCD	HCD/ SGC			
Clean Truck and Bus Vouchers (HVIP)	CARB	CARB	CARB	CARB			
Clean Transportation Program	CEC	CEC	CEC	CEC			
EnergIIZE Commercial Vehicles – Transit Set Aside	CARB	CEC	CALSTART	CEC			
Section 130 Rail Crossing Program	FHWA/ Caltrans	CPUC	Caltrans	CPUC/ Caltrans			
Section 190 Grade Separation Program	FHWA/ Caltrans	CPUC	Caltrans	CPUC/ Caltrans			

	Agency Responsible for:						
Program/ Grant Name	System Oversight (including setting policy and requirements)	Grant/ Project Selection (if applicable) Program Administration		Reporting and Compliance			
CaUOBS	EDD		EDD	EDD			
Employment Training Panel (ETP)	EDD/ Go-Biz		ETP	ETP			



## 10. Information on how transit agencies modified their services in response to the COVID-19 pandemic and resulting drop in ridership and revenue (SB125 1.E.10)

After the COVID-19 pandemic, service, as measured by vehicle revenue miles (VRM) for rail and vehicle revenue hours (VRH) for bus, varied depending on the transit agency, as shown in the exhibit below.<sup>139</sup> For some agencies, like San Diego Metropolitan Transit System (MTS), rail VRM grew throughout the pandemic into 2023.<sup>140</sup> However, most agencies experienced a downturn in rail VRM and bus VRH in 2021, followed by rebounds across agencies, though most large agencies were delivering less service in 2023, than they were in 2019.<sup>141</sup>

Exhibit: Share of 2019 service levels across largest agency bus and rail modes<sup>142</sup>

**Rail:** Share of 2019 VRM across 10 largest CA rail agencies by vehicle revenue miles (as measured by 2019 VRM) before and after COVID-19 (% of 2019 VRM) $^{143}$ 

Agency	2019	2020	2021	2022	2023
San Francisco Bay Area Rapid Transit District (BART)	100%	90%	63%	99%	107%
Los Angeles County Metropolitan Transportation Authority (LACMTA)	100%	91%	76%	79%	84%
Southern California Regional Rail Authority (Metrolink)	100%	96%	80%	79%	82%
San Diego Metropolitan Transit System (MTS)	100%	104%	114%	132%	144%
Peninsula Corridor Joint Powers Board (PCJPB)	100%	90%	78%	96%	94%
City and County of San Francisco (SFMTA)	100%	82%	14%	74%	83%
Sacramento Regional Transit District	100%	83%	82%	83%	83%
Santa Clara Valley Transportation Authority (VTA)	100%	82%	80%	45%	90%
North County Transit District (NCTD)	100%	93%	79%	120%	115%
Altamont Corridor Express (ACE)	100%	90%	43%	77%	88%
Sonoma-Marin Area Rail Transit District (SMART)	100%	89%	43%	74%	106%

**Bus:** Share of 2019 VRH across 10 largest CA bus agencies by bus vehicle hours traveled (as measured by 2019 VRH) before and after COVID-19 (% of 2019 VRH)

<sup>139</sup> National Transit Database (TS2.1 - Service Data and Operating Expenses Time Series by Mode)

 <sup>140</sup> National Transit Database (TS2.1 - Service Data and Operating Expenses Time Series by Mode)
 141 National Transit Database (TS2.1 - Service Data and Operating Expenses Time Series by Mode)

<sup>142</sup> National Transit Database (TS2.1 - Service Data and Operating Expenses Time Series by Mode)

<sup>&</sup>lt;sup>143</sup> SMFTA Rail VRM performance decline from 2020-2021 may be partially due to replacement of rail service with bus service to expedite infrastructure enhancements and reduce operating costs; BART VRM performance from 2020-2021 may have been impacted by Berryessa service expansion

Agency	2019	2020	2021	2022	2023
Los Angeles County Metropolitan Transportation Authority (LACMTA)	100%	91%	77%	88%	94%
City and County of San Francisco (SFMTA) - Transit Division	100%	94%	83%	89%	97%
Alameda-Contra Costa Transit District	100%	91%	82%	80%	84%
San Diego Metropolitan Transit System (MTS)	100%	98%	101%	100%	93%
Orange County Transportation Authority (OCTA)	100%	89%	74%	85%	89%
Santa Clara Valley Transportation Authority (VTA)	100%	91%	77%	88%	94%
Foothill Transit	100%	99%	98%	93%	91%
Long Beach Transit (LBT)	100%	86%	69%	81%	89%
City of Los Angeles (LADOT) - City of Los Angeles Department of Transportat	100%	102%	101%	101%	102%
Riverside Transit Agency (RTA)	100%	94%	68%	69%	72%

In terms of ridership and fare revenues, the COVID-19 pandemic caused ridership to decrease for all agencies by an average of 20% from 2019 to 2020, and a further 50% decrease (on average) from 2020 to 2021. However, in 2021, ridership began to rebound, growing, on average, 54% from 2021 to 2022. As of 2023, no large agencies have reached pre-pandemic levels of ridership. However, in 2021, ridership agencies with some agencies, like OCTA and San Diego MTS, at nearly 80% of pre-COVID ridership in 2023, while agencies like BART are at only ~40% of 2019 ridership.

Exhibit: Share of 2019 UPT across largest CA transit agencies (as measured by 2019 UPT) before and after COVID-19, (% of 2019 UPT)<sup>146</sup>

Agency	2019	2020	2021	2022	2023
Los Angeles County Metropolitan Transportation Authority (LACMTA)	100%	81%	51%	67%	73%
City and County of San Francisco (SFMTA) - Transit Division	100%	76%	28%	46%	62%
San Francisco Bay Area Rapid Transit District (BART)	100%	71%	14%	30%	40%
San Diego Metropolitan Transit System (MTS)	100%	83%	46%	68%	80%
Alameda-Contra Costa Transit District	100%	84%	40%	54%	65%
Orange County Transportation Authority (OCTA)	100%	81%	51%	68%	80%
Santa Clara Valley Transportation Authority (VTA)	100%	79%	33%	49%	65%
Long Beach Transit (LBT)	100%	79%	61%	75%	72%
Sacramento Regional Transit District	100%	88%	40%	57%	72%
City of Los Angeles (LADOT) - City of Los Angeles Department of Transportation	100%	74%	49%	70%	80%

Over the course of the pandemic and through the recovery period, fare revenues fell and then recovered, mirroring trends in ridership, though for many

<sup>144</sup> National Transit Database (TS2.1 - Service Data and Operating Expenses Time Series by Mode)

<sup>145</sup> National Transit Database (TS2.1 - Service Data and Operating Expenses Time Series by Mode)

<sup>146</sup> National Transit Database (<u>TS2.1 - Service Data and Operating Expenses Time Series by Mode</u>)

agencies (e.g., LA Metro), farebox revenue has recovered more slowly than ridership. Many of the higher farebox agencies pre-COVID (e.g., BART, Metrolink) have also had slower recoveries. 147 In general, ridership was ~65% of 2019 ridership in 2023, while fare revenues were only ~50% of 2019 fare revenues in 2019.

Exhibit: Share of 2019 revenue across 10 largest CA transit agencies (as defined by 2019) revenue) before and after COVID-19, (% of 2019 revenue)148

Agency	2019	2020	2021	2022	2023
San Francisco Bay Area Rapid Transit District (BART)	100%	71%	13%	28%	39%
Los Angeles County Metropolitan Transportation Authority (LACMTA)	100%	71%	11%	26%	45%
City and County of San Francisco (SFMTA)	100%	78%	9%	31%	45%
Peninsula Corridor Joint Powers Board (PCJPB)	100%	74%	32%	32%	42%
San Diego Metropolitan Transit System (MTS)	100%	85%	52%	61%	73%
Southern California Regional Rail Authority (Metrolink)	100%	77%	20%	34%	42%
Alameda-Contra Costa Transit District (AC Transit)	100%	91%	34%	49%	59%
Orange County Transportation Authority (OCTA)	100%	78%	30%	50%	58%
Santa Clara Valley Transportation Authority (VTA)	100%	76%	36%	58%	72%
Golden Gate Bridge, Highway and Transportation District (GGBHTD)	100%	75%	14%	39%	52%

#### 11. The division of transit funding between capital and operations (SB125 1.E.11)

According to the National Transit Database, between 2013 and 2023, transit funding across sources was, on average, allocated as 37% for capital projects and 63% for operations.<sup>149</sup> From 2013 to 2023, the ratio of funds allocated to capital and operations stayed relatively consistent (within 10% margin), even as funding fluctuated over the decade. 150

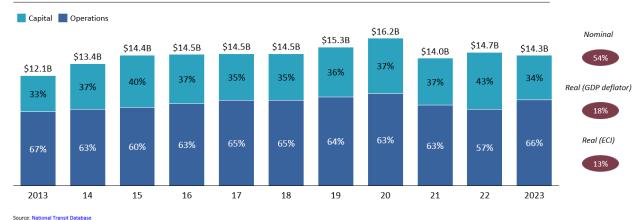
Exhibit: Division of total transit funding (federal, state, local, and other) applied to capital and operations<sup>151</sup>

 <sup>147</sup> National Transit Database (TS2.1 - Service Data and Operating Expenses Time Series by Mode, TS1.2 - Operating and Capital Funding Time Series)
 148 National Transit Database (TS2.1 - Service Data and Operating Expenses Time Series by Mode, TS1.2 - Operating and Capital Funding Time Series)
 149 National Transit Database (TS1.2 - Operating and Capital Funding Time Series, TS2.1 - Service Data and Operating Expenses Time Series by Mode)

<sup>150</sup> National Transit Database (TS1.2 - Operating and Capital Funding Time Series, TS2.1 - Service Data and Operating Expenses Time Series by Mode)

<sup>151</sup> National Transit Database (IS1.2 - Operating and Capital Funding Time Series, IS2.1 - Service Data and Operating Expenses Time Series by Mode); funding

adjusted by GDP deflator from FRED database and by Employment Cost Index (ECI) from FRED database



Examining the division of funding between capital and operations in FY2022-23 across the ten largest sources of funding (\$9.2 billion), funding allocated to capital expenses accounts for \$4.2 billion (46% of ten largest funding sources), while the remaining \$5 billion is allocated to both capital and operations expenses (see exhibit below).<sup>152</sup>

Between 2013 and 2023, 62% of transit funds were applied to operations, while the remaining 38% were applied to capital projects. 153 Of the 38% of funds applied to capital projects, 20% were applied toward existing operations (e.g., state of good repair work), and 18% were used for capital expansion. 154 Transit agencies in other states applied more funding to operations on average over the past 10 years, than California (71% in other States, as compared to 62% in California due to the number of large capital investments being made to grow transit in the State). 155

<sup>152</sup> Fact Sheet: Capital Investment Grants Program, SCO: Transit Operator Financial Transactions Report Instructions, 5307 and 5340 Urbanized Area Formula Appropriations, FY 2023 Section 5337 State of Good Repair; Institute for Local Government; Urbanized Area Formula Grants – 5307; STA and State of Good Repair; TIRCP

 $<sup>^{153}\,\</sup>mbox{TTTF}$  Meeting #7, which took place on 12/10/2024

<sup>154</sup> TTTF Meeting #7, which took place on 12/10/2024

<sup>155</sup> National Transit Database Funding Applied to Capital and Operations

The largest source of funding (5309 - FTA Capital Program Funds) was allocated to capital purposes, while the next three largest funding sources (local tax measures in addition to LTF,<sup>156</sup> LTF, and 5307+5340 - Urbanized Area Formula Program) were allocated to both capital and operations expenses.<sup>157</sup>



<sup>156</sup> Local Transportation Fund

<sup>157</sup> Fact Sheet: Capital Investment Grants Program, SCO: Transit Operator Financial Transactions Report Instructions, 5307 and 5340 Urbanized Area Formula Appropriations, FY 2023 Section 5337 State of Good Repair; Institute for Local Government; Urbanized Area Formula Grants – 5307; STA and State of Good Repair; TIRCP