



Draft Final Report

San Bernardino County Long Range Multimodal Transportation Plan

San Bernardino, CA

December 11, 2024

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1 Introduction

The Long-Range Multimodal Transportation Plan (LRMTP) intends to ensure the safe and efficient management, operation, and development of a regional multimodal transportation system that, when linked with appropriate land use planning, will efficiently serve the mobility needs of San Bernardino County residents, businesses, and visitors, with robust connectivity to the regional system. The LRMTP will be integrated with local land use planning to address community and regional goals as well as state and federal goals. In addition, the LRMTP will assist local and regional agencies in developing and implementing multimodal transportation policies, programs, and projects.

1.1 SBCTA Background

The San Bernardino County Transportation Authority (SBCTA) is the agency statutorily designated to serve in the following capacities for San Bernardino County:

- County Transportation Commission (1976) Allocates and programs State and Federal funds for regional transportation projects throughout the county and conducts countywide transportation planning.
- Service Authority for Freeway Emergencies (1986) Manages the system of call boxes on major highways throughout the county.
- County Transportation Authority (1989) Administers the voter-approved half-cent transportation sales tax and provides major transportation improvements within the county.
- Congestion Management Agency (1990) Implements the plan for addressing congestion
 and air quality related to transportation facilities throughout the county. It also manages the
 SBCTA Development Mitigation Nexus Study.

The San Bernardino Council of Governments (SBCOG) covers the entire county as well, and operates under the same Board of Directors as SBCTA, but is a separate entity. SBCTA supports train and bus transportation, freeway construction projects, regional and local road improvements, railroad crossings, call boxes, ridesharing, congestion management efforts, active transportation efforts, and long-term planning studies. SBCTA also administers Measure I, the half-cent transportation sales tax approved by county voters in 1989.

2 San Bernardino County Today

2.1 County Overview

San Bernardino County is large and diverse both geographically and demographically. It contains areas ranging from dense urban communities in the San Bernardino Valley to rural communities in the desert and mountains and vast deserts with interstate travel, resulting in unique travel needs across the County. To account for the different needs of each region, the County is divided into 6 subareas for the purpose of administering Measure I funds, as shown in Figure 1.

Figure 1. Measure I Subareas



The County includes 24 incorporated cities with the population focused primarily in the Valley Subarea. Existing development of the County's transportation infrastructure and land use is rooted in the County's varying topography. The San Bernardino Mountains separate the Valley from the desert areas, and much of the transportation system and land development grew around the rail infrastructure as it followed the topography.

While less densely developed than neighboring coastal counties, the County is growing rapidly as a more affordable alternative to Los Angeles and Orange Counties. Developed areas of the county are primarily characterized by single-family residential development and clusters of commercial and industrial uses along major freeway and rail corridors, with pockets of multifamily housing in the Valley and Victor Valley subareas. Outside the Valley and Victor Valley subareas and the smaller communities in the Mountains, North Desert, Morongo Basin, and Colorado River subareas, land is undeveloped, with large areas of preserved open space for environmental protection and recreational uses.

Many communities in the County are considered disadvantaged compared to statewide averages due to socioeconomic factors and environmental conditions, as shown in Figure 2. Many residents of these communities often are more dependent on public transportation and can face disproportionate burdens from the negative impacts of transportation infrastructure.

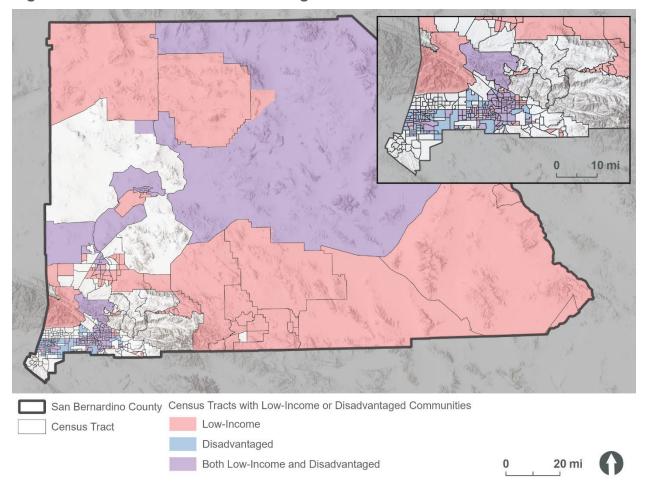


Figure 2. Low-Income and Disadvantaged Communities

2.2 Existing Multimodal System

2.2.1 Transit

Omnitrans and Victor Valley Transit Authority are the two largest transit providers. They cover the County's two large urban areas with expanded services provided via two designated Consolidated Transportation Service Agency (CTSA) programs. Mountain Transit, Basin Transit, and Needles Transit Services are the providers for three rural communities in the County. These providers, coupled with vanpool and rideshare services, form the public transit network that operates with the funding assistance of SBCTA but with separate Boards of Directors.

Currently, this transit network generates 4,441 route miles of fixed-route bus service, delivering more than 7.6 million bus trips to County residents in FY 2023. Fixed-route service is supported by five paratransit programs that provide almost 300,000 annual complementary demand-response trips to those with barriers to using fixed-route services. The commuter rail system provided by Metrolink

across 547 unduplicated route miles throughout its six-county service area includes 48 unduplicated route miles within San Bernardino County serving more than 2.1 million annual rail passenger trips.

Vanpool programs assist commuters with subsidized alternatives to driving alone at more than 500,000 paratransit trips per year. Specialized transportation providers serve vulnerable populations and fill in the public transit network, providing almost 300,000 trips.

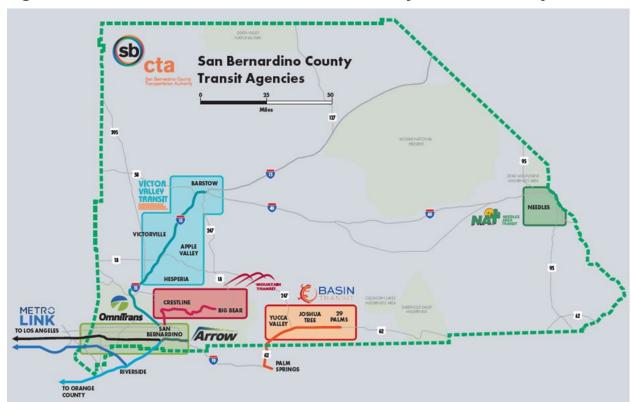


Figure 3. Service Areas of the San Bernardino County Public Transit Systems

2.2.2 Highways and Roads

Several key Interstate and State Highways traverse the County, serving travel within the County and connecting to neighboring counties in California, Nevada, and Arizona. The freeway system is complemented by a network of arterial highways to facilitate local and regional travel. As of 2021, the County had over 11,400 miles of highways and roads, including 459 miles of freeways (Caltrans 2023). To address freeway congestion, the County has a growing system of managed lanes consisting of 39 lane-miles of High-Occupancy Vehicle (HOV) lanes and 10 miles of tolled express lanes that opened in August 2024. To facilitate carpooling, vanpooling, and access to transit, there are 21 park-and-ride lots in the County. These lots, located at transit hubs or along major highway corridors, allow travelers to make multimodal trips by providing a designated place for drivers to leave vehicles when connecting to another mode.

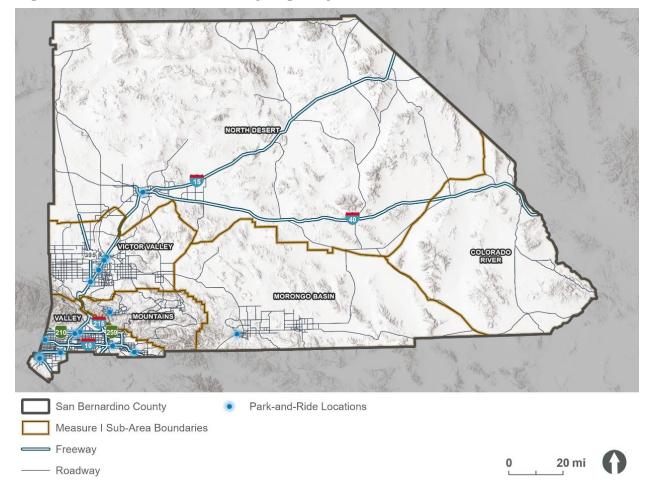


Figure 4. San Bernardino County Highway Network

2.2.3 Active Transportation

While the county has a limited number of off-street Class I multi-use paths, sidewalks and on-street Class II bicycle lanes make up the bulk of the county's active transportation infrastructure. These networks are focused in the populated areas of the county and only a portion of planned infrastructure has been built. The County has 645 miles of bikeways compared to over 11,400 miles of roads.

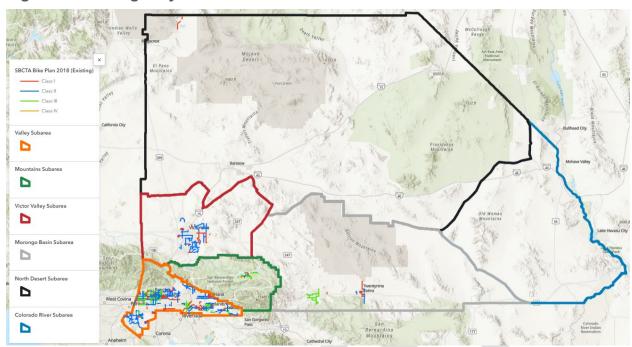


Figure 5. Existing Bicycle Network

2.2.4 Goods Movement

Goods movement plays an outsized role in the economy and transportation system of San Bernardino County due to the county's location as a gateway between the Ports of Los Angeles and Long Beach and the rest of the nation. Trucks share the roadway system with passenger vehicles. To reduce conflict between slow moving trucks and other vehicles on traveling uphill on eastbound I-10, dedicated truck climbing lanes are provided through the Redlands portion of I-10, and a second eastbound truck climbing lane will be complete through the City of Yucaipa by late 2025. Caltrans has also constructed truck climbing lanes on northbound I-15 in the Cajon Pass, and an extension is being planned on northbound I-15 from Kenwood Drive to SR-138.

Two Class I freight railroads serve the region: BNSF Railway (BNSF) and the Union Pacific Railroad (UP). Additionally, two short-line railroads, the Trona Railway and the Arizona and California Railroad, operate in San Bernardino County, providing connections to the Class I railroads.

UP's Yuma Subdivision extends from Colton to Riverside County and ultimately Arizona. The Los Angeles and Alhambra subdivisions start at UP's Los Angeles intermodal facility and stretch east toward Riverside and Colton, respectively. The Mojave subdivision runs from Colton to Mojave via the Cajon Pass. The UP has established a "pop-up" intermodal facility on its Alhambra Line in Fontana, which it is planning to expand.

BNSF's Cajon, San Bernardino, and Needles subdivisions form part of the Southern Transcon route from Los Angeles to Chicago, which connects to the Ports of Los Angeles and Long Beach through the Alameda Corridor. BNSF operates a major freight intermodal facility in San Bernardino just west of I-215 and south of Fifth Street, which focuses on the transloading of domestic freight.

2.3 Travel Patterns

The developed areas of the county are primarily suburban or rural in character, and the county has relatively fewer jobs per household than the SCAG region, resulting in many residents needing to commute to neighboring counties for employment. That said, the Valley subarea is steadily densifying and is home to the county's largest job centers. The Valley exceeds the SCAG average for jobs per household, drawing workers from other counties as well as other subareas within the County, all of which have less than one job per household.

Table 1: Households and Employment by Subarea, 2019

Subarea	Number of Households (HH)	Number of Jobs	Jobs per HH
Valley Subarea	463,153	704,495	1.52
Mountains Subarea	22,050	10,876	0.49
Victor Valley Subarea	122,934	106,438	0.87
Morongo Basin Subarea	26,527	16,894	0.64
North Desert Subarea	19,346	16,884	0.87
Colorado River Subarea	2,974	2,189	0.74
County Total	656,984	857,776	1.31
SCAG Region Total	6,333,000	8,965,000	1.42

Source: SBCTA, 2023.

Although there are many inter-county trips, all the subareas see the majority of trips remaining internal to their subareas. The Valley subarea shows strong travel links to Los Angeles, Orange, and Riverside Counties, while other subareas see more connections to subareas within the county. The North Desert subarea has a strong travel link with the Victor Valley subarea. The Colorado River subarea has a significant share of trips leaving the state to access jobs and services in Arizona. Travel patterns and extensive demographic data for each subarea can be found within the LRMTP Storymap at: SBCTA:Long Range Multimodal Transportation Plan.

2.4 State Policy and Funding Landscape

This plan is being developed in the context of new state policy initiatives. Prepared by Caltrans in 2021, the California Transportation Plan 2050 lays out the state's vision for transportation in the next three decades. Later in 2021, the California State Transportation Agency (CalSTA) developed the Climate Action Plan for Transportation Infrastructure (CAPTI), which details how the state will direct discretionary transportation investment to aggressively combat climate change. These plans establish a vision for transportation statewide that is more multimodal in nature and reduces the number of single occupancy vehicle trips made on California's highways and roads.

Funding for building and operating the transportation system comes from a variety of local, state and federal sources. SBCTA administers Measure I, a voter-approved county-wide half-cent sales tax dedicated to transportation. This provides regionally controlled funds that can be used to fund the region's priorities and can be leveraged as matching funds for state or federal grant programs. Measure I was passed in 1989 and extended in 2004, with an end date of 2040 if not extended again.

State and federal transportation funding is distributed through formula and discretionary grant programs. Formula funds are allocated to agencies based on population or other factors, whereas discretionary programs require agencies to submit applications to compete for the available funds. At both the state and federal levels, discretionary grant programs are increasingly oriented toward multimodal solutions that tend to focus on transit, active transportation, and freight. Guidelines for these competitive programs are more closely scrutinizing projects that expand roadway capacity.

3 Future Trends and Challenges

3.1 San Bernardino County in 2050

Overall, San Bernardino County is projected to continue growing rapidly, with growth in both households and employment projected to outpace the overall growth rates for the SCAG region as a whole, as shown in Table 2. In absolute numbers, the majority of this growth will occur in the Valley subarea, and the Victor Valley subarea is projected to experience the fastest growth in percentage terms. As discussed further below, this growth presents both opportunities and challenges.

Table 2: Projected Households and Employment by Subarea, 2050

-			
Subarea	Number of Households (HH) (% Growth)	Number of Jobs (% Growth)	
Valley Subarea	610,850 (24%)	856,109 (18%)	
Mountains Subarea	22,089 (0%)	11,980 (9%)	
Victor Valley Subarea	197,550 (38%)	153,699 (31%)	
Morongo Basin Subarea	37,165 (29%)	23,306 (28%)	
North Desert Subarea	26,521 (27%)	22,297 (24%)	
Colorado River Subarea	3,487 (15%)	2,507 (13%)	
County Total	897,662 (27%)	1,069,898 (20%)	
SCAG Region Total (2045)	7,633,000 (17%)	10,049,000 (11%)	

Source: SBCTA, 2023.

3.2 Opportunities and Challenges

3.2.1 Managing Growing Demand

A growing population and economy present both opportunities and challenges. Economic growth brings the prospect of better jobs for residents and new resources for transportation. If concentrated near existing transit corridors, population growth could spur increased transit ridership. On the other hand, if new development is low density and located on the fringes of the region, it could mean more cars driving longer distances on increasingly congested roads.

3.2.2 Congestion and Long Travel Distances

The County is large, and development is dispersed, and though most trips stay within the subarea as noted in section 2.3, many trips are long, and most of the urban freeways are congested during the morning and afternoon peak periods. Though significant investments are being made in transit connectivity and encouragement of ridesharing, long commute distances make it difficult to connect travelers to destinations via frequent transit or active transportation, leading to auto-dependence and long travel times on a congested roadway network. In San Bernardino County, 76 percent of working residents drive alone to work, 11 percent carpool, and 9 percent work regularly from home. In addition to time, the financial costs of owning and operating motor vehicles create an affordability challenge for the County's residents, particularly low-income communities.

3.2.3 Equity

As noted in section 2.1, many communities in the County are considered disadvantaged compared to statewide averages due to socioeconomic factors and environmental conditions. These communities often have limited transportation options and can face disproportionate burdens from the negative impacts of transportation infrastructure. While the county faces a challenge in addressing inequity, state and federal funding programs increasing emphasize equity as a selection criterion, providing an opportunity to close mobility gaps and reduce disparate impacts.

3.2.4 Balancing Passenger and Goods Movement

Due to the county's location as gateway between the Ports of Los Angeles and Long Beach and the rest of the nation, goods movement and warehousing play an outsized role in the county's economy. Trucks share roads with buses and cars, and freight trains share tracks with commuter and intercity trains. This can create safety concerns and contributes to congestion that causes delay for passengers and increases shipping times. With continued economic and population growth, demand for both goods and passenger movement will only increase.

3.2.5 Air Quality, Emissions Reduction, and Regulatory Compliance

San Bernardino County's geography results in air pollutants being trapped in its air basins, resulting in some of the worst air quality in the country. Zero-emission technology provides an opportunity to improve air quality and combat climate change, but reduced range, higher cost, and inconvenience factors present challenges to adoption. Trucking is a major contributor to pollution, but the distances traveled and loads carried by trucks are particularly challenging for zero-emission vehicles. Transit agencies face state mandates to transition to zero-emission operations, which presents a challenge to maintain or expand service while transitioning to range-limited, higher-cost vehicles.

3.2.6 Revenue and Funding

Need for capital and operating funds to deliver all proposed improvements exceeds available resources. A significant portion of state and federal transportation funding is derived from taxes on gasoline and diesel fuels. The federal gas tax is not indexed to inflation and loses purchasing power each year. The SB 1 Road Repair and Accountability Act increased state gas and diesel taxes and indexed those to inflation in 2017, but revenues will decline in real (inflation-adjusted) terms as fuel efficiency and zero-emission vehicle adoption increases. The state is conducting additional pilot

programs to test the feasibility of a mileage-based road user charge. At the local level, Measure I is set to expire in 2040 unless extended again by voters.

3.2.7 Network Resiliency

San Bernardino County faces a number of hazards and challenges due to a changing climate. The frequency and severity of extreme weather events, including heat, wildfire, flooding, mudslides, and winter weather, are projected to increase in San Bernardino County. In these extreme weather events, infrastructure subjected to prolonged heat, cold, moisture, or dryness may deteriorate faster than planned. Flooding, mudslides, wildfire, or winter weather may force temporary or prolonged closures of roadways and railways.

3.3 Planning for Change

Several factors drive change for San Bernardino County. Continued growth will drive overall travel demand, but the pattern in which the county develops will determine where and how the public will travel. Technology and its adoption also influence travel demand. Increased telework has the potential to reduce commute trips while increasing home-based trips to other destinations and can influence people's choice of where to live. Legislative changes, such as zero-emission requirements and new potential revenue sources also affect the transportation system. Some of these factors were modeled and are described in Section 7. SBCTA will continue to monitor emerging transportation trends and adjust strategies throughout the implementation of the LRMTP.

4 Vision for the County's Future

4.1 Where do we want to go?

The SBCTA Long-Range Multimodal Transportation Plan is guided by a vision, developed collaboratively with key stakeholders and community members, that encompasses the key elements that the plan aims to achieve.

LRMTP Vision Statement

"San Bernardino County's integrated, multimodal transportation system strengthens the health of our communities, the environment, and our economy by providing safe, reliable, and equitable connectivity for people and goods."

Transportation is vitally important to San Bernardino County's communities, helping to sustain the economy, deliver goods and services, and connect people with each other. We are also in an era of rapid change, including technological advancement, shifting travel patterns, and climate change. Delivering an effective and resilient transportation system requires the joint efforts of multiple agencies and communities working together towards common goals. The vision for the transportation system in San Bernardino County builds on what makes the County unique and encourages us to work together to solve our current and future challenges.

Given the challenges and opportunities faced by residents, businesses, and visitors of San Bernardino County, the LRMTP is guided by the vision and six primary goals:

• **Connectivity.** The transportation system's primary purpose is to connect our communities, enabling people and goods to get where they need to go. In this large and diverse county,

many people travel long distances for jobs, school, medical services, or other reasons. The transportation system should provide reliable, integrated, and multimodal access to origins and destinations.

- Equity. Compared with California as a whole, many San Bernardino County communities are
 considered disadvantaged based on incomes levels and environmental conditions. The
 transportation network should help alleviate burdens by providing clean, safe, and affordable
 access to jobs, education, services, and recreation while actively promoting environmental
 justice.
- Economy. San Bernardino County boasts a vibrant economy integrated with the Southern California region. Increased economic activity, including warehousing and logistics, brings jobs and economic opportunity but can also cause issues with traffic congestion, safety, and air quality. The transportation system should support economic growth while addressing the challenges stemming from increased freight and automobile traffic.
- Environment. San Bernardino County includes a large range of ecosystems, including
 mountain forests, plains and valleys, and expansive deserts. Due to climate change, it is also
 increasingly likely to suffer extreme heat, wildfires, or floods. The transportation system should
 be resilient to maintain mobility in challenging conditions and contribute to preserving the
 quality of the county's environment for future generations.
- Quality of Life and Public Health. San Bernardino County enjoys mild weather and ample
 recreation opportunities; however, many areas suffer from poor air quality, and spread-out
 development patterns require most people to drive to their destinations. This in turn causes
 more traffic congestion and emissions, and limits opportunities for physical activity. The
 transportation system should strengthen the health of our communities by reducing vehiclerelated emissions and supporting development patterns that allow people to walk, bike, and
 use transit.
- Safety. San Bernardino County residents, workers and visitors need to feel safe using the transportation system. This involves making improvements to reduce conflicts between vehicles, bicyclists, and pedestrians, and providing safe access routes to schools and waiting areas at transit stops and stations.

4.2 How will we get there?

The LRMTP's goals set a course for SBCTA and its partners to carry out programs and projects with a long-term vision in mind. The goals of the LRMTP are broadly consistent with state and local transportation plans including California Transportation Plan 2050, CAPTI, and build on prior San Bernardino Countywide Transportation Plans. The LRMTP supersedes those plans.

For each of the six LRMTP goals, several objectives have been identified through engagement with key stakeholders. The goals and objectives, shown in Table 3, have guided the development and evaluation of alternatives throughout the LRMTP process.

The LRMTP will involve scenario planning to understand how the transportation network performs in different contexts. The performance measures shown in Table 3 were developed to assess how well each scenario contributes to achieving the goals and objectives.

The performance measures are intended to further the LRMTP process by distinguishing between scenario outcomes. Other measures may be valuable for SBCTA to track and measure progress over time but are less helpful for evaluating scenarios. Examples of "tracking measures" may include:

- Number of fatalities and serious injuries on the transportation system by mode
- Number of electric vehicles and electric vehicle charging stations throughout the County
- Total miles of bicycle paths and lanes by class
- Pavement condition by facility type
- Transit ridership by system
- Congestion levels on the roadway network

Performance measures were chosen based on available data and the metrics' ability to capture the impact of implementing multimodal transportation improvements across different scenarios. Many measures apply to multiple goals and objectives.



Table 3. Goals, Objectives, and Performance Measures

Goals	Objectives	Performance Measures
Connectivity: Improve multimodal mobility and safe access to destinations for all users	 Improve multimodal mobility and access to jobs, housing, and key destinations Improve connectivity between modes and services Better integrate transit and bicycle/ pedestrian facilities with land use planning 	 Total VMT and VHT (by truck and by passenger vehicles) Average passenger
Equity: Reduce transportation burdens for low-income communities, communities of color, people with disabilities, and other disadvantaged groups	 Reduce cost burden to underserved communities Improve access to mobility options for disadvantaged groups 	 vehicle VMT per capita Person-hours traveled for work and non-work trips Annual hours of delay (total and per capita) Mode share for work trips and non-work trips
Economy : Support a vibrant, resilient economy	 Support access to employment, educational institutions, and businesses via all modes, with special emphasis on transit, shared-rides, and non-motorized Improve freight's economic competitiveness and efficiency Maintain infrastructure in a state of good repair Deploy resources in a cost-effective manner 	 Transit ridership Share of population, population in disadvantaged communities, and
Environment: Enhance environmental health and reduce negative transportation impacts	 Reduce VMT, GHG emissions, and air pollution Strengthen the transportation system's resiliency to withstand and recover from disruptions brought about by natural disasters, climate change, and other factors Support clean mobility technology, including the freight sector 	 employment within half mile of transit stop Share of population, population in disadvantaged communities, and
Quality of Life and Public Health: Enable vibrant, healthy communities	 Manage the impact of freight traffic in neighborhoods Reduce sources of delay on the transportation system Increase the share of people carpooling, bicycling, walking, and taking transit Improve the convenience and comfort of using bicycle, pedestrian, and transit networks 	 employment in high quality transit areas (as defined by SCAG) GHG emissions (total and per-capita) Criteria pollutant
Safety: Provide a safe and secure transportation system	Reduce fatalities and serious injuries on the transportation system	emissionsTruck delay by facility type (freeway, arterial)

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5 Community and Stakeholder Engagement

Community and stakeholder engagement played a crucial role in developing the LRMTP. Community input was vital to understanding the County's needs and challenges, as well shaping the goals, objectives, and strategic priorities. Stakeholders and community members were engaged throughout the process and provided input through multiple channels, including online surveys, in-person events, and stakeholder working group meetings. Project materials were available in English and Spanish and Spanish translation was available at all public events. Full summaries of engagement materials and input received are included in Appendix A.

5.1 Project Website

A project website, **gosbcta.com/Irmtp**, was created and hosted on SBCTA's main site. This website served as a clearinghouse for project information and provided information on upcoming meetings and events. The project website hosted fact sheets, the Existing Conditions Story Map, registration links for public meetings, and meeting notes and recordings.

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5.2 Stakeholder Engagement

SBCTA convened two Stakeholder Working Groups made up of representatives from key partner agencies, transportation providers, Community-Based Organizations, advocates, and other groups. These groups met regularly throughout the planning process to provide input at key milestones. Due to the size of the County and the number of stakeholders, members were divided into a municipality-focused Community Working Group and transportation-focused Mobility Working Group; however, each group received the same meeting materials and participants were invited to join the working group meeting that best fit their schedules.

Community Working Group members:

- Arts Connection Network
- Center for Community Action and Environmental Justice
- City of Adelanto
- · City of Barstow
- City of Big Bear Lake
- · City of Montclair
- City of Needles
- City of Rancho Cucamonga
- · City of Redlands

Mobility Working Group members:

- Active transportation advocates
- Caltrans
- City of Rancho Cucamonga
- City of Victorville
- Omnitrans
- Morongo Basin Transit Authority
- Mountain Transit

- City of Twentynine Palms
- City of Victorville
- City of Yucca Valley
- El Sol Neighborhood Educational Center
- Inland Action
- Reach Out
- San Bernardino County
- SBCTA
- SCAG Housing Department
- Needles Area Transit
- Southern California Regional Rail Authority (Metrolink)
- SBCTA
- SCAG Freight
- South Coast Air Quality Management District
- Victor Valley Transit Authority

5.2.1 Stakeholder Working Group Meetings

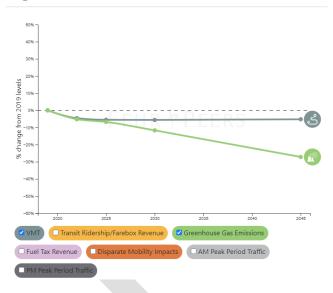
A series of meetings were held during key points in the project process. Two meetings were held during each round, with identical agendas. Due to the size of the County and the number of stakeholders involved, all working group meetings were held virtually.

Round 1. The first round of working group meetings took place in July 2023, and provided an overview of the project effort, existing conditions analysis, and a visioning discussion. Participants were asked to provide their opinions on polling questions regarding key concerns, goals, and priorities.

Round 2: The second round of meetings were held in October 2023. Participants gave input on the proposed LRMTP vision statement, goals and objectives, and performance measures. They also participated in an interactive discussion on future trends and drivers of change that could affect the County's transportation system over next few decades, including an exercise using the Trendlab+ tool to visualize impacts of these changes (Figure 7).

Round 3: The third round of meetings in March 2024 covered a series of LRMTP Priority Areas, including Figure 7. Trendlab+ Exercise all transportation modes and key issues including equity, sustainability, and land use. Participants were invited to weigh on these topics, their importance to the LRMTP, and how they related to each other.

Round 4: The fourth round of meetings in August 2024 focused on discussing the results of the scenario planning process as well as the LRMTP's proposed Strategic Priorities. Participants were asked whether these priorities were sensible, whether any were missed, and how the priorities related to each of the County's geographic subareas.



5.2.2 Other Stakeholder Meetings

Aside from the Stakeholder Working Groups, the project team held discussions and briefings on the LRMTP with other stakeholder groups, including:

- SBCTA Transportation Technical Advisory Committee (TTAC) May 1, 2023 and September 9, 2024
- Inland Southern California Climate Collaborative (ISC3) July 12, 2023

5.3 Public Engagement

Two rounds of public meetings were held at key milestones – one early in the process (fall 2023) to gather input on needs and concerns, and the second (fall 2024) to provide input on plan recommendations.

5.3.1 Virtual Public Meetings

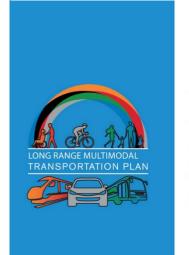
Due to the vast size of the County, virtual public meetings were held to provide opportunities for participation throughout the region. These virtual public meetings were held using Zoom and included Spanish translation, presentation, and facilitated Q&A sessions. They were advertised via e-blasts, social media, the project website. Members of the Stakeholder Working Groups were encouraged to advertise the virtual public meetings amongst their networks and communities.

Round 1. The first round of virtual public meetings took place on September 27 and October 3, 2023, from 6-7 p.m. These meetings covered project introduction and process, existing conditions, and a series of polling questions designed to gather input on key concerns with the County's transportation system and priorities for improvements.

Round 2. The second round of virtual public meetings were held on September 17 and 19, 2024, from 6-7 p.m. Project team members discussed project progress, scenario planning, and LRMTP Strategic Priorities. Participants were invited to respond to polling questions on priority topics for the LRMTP.

During each meeting, participants could submit questions using the Zoom Q&A function or could ask questions verbally during the Q&A. Project team members and SBCTA staff provided answers to questions on the LRMTP as well as other transportation-related topics.

Figure 8. Social Media Virtual Public Meeting Notification



Join San Bernardino County Transportation Authority for a virtual public meeting!

Wednesday, September 27 6-7 p.m. gosbcta.com/Irmtp



Plan. Build. Move.

5.3.2 Pop-Up Meetings

During each round of public engagement, pop-up meetings were held in various County locations to gather input from community members in person. These events involved setting up a kiosk in a busy location, such as a farmer's market or transit station and having conversations with individuals regarding their transportation concerns and needs. Fact sheets were provided, as well as physical surveys and links to online materials.

Round 1

- North Fontana Farmer's Market, October 1, 2023
- Rialto Farmer's Market, October 4, 2023

Round 2

- Victor Valley High Desert Farmer's Market, September 5, 2024
- San Bernardino Transit Center, September 9, 2024

5.4 Online Survey

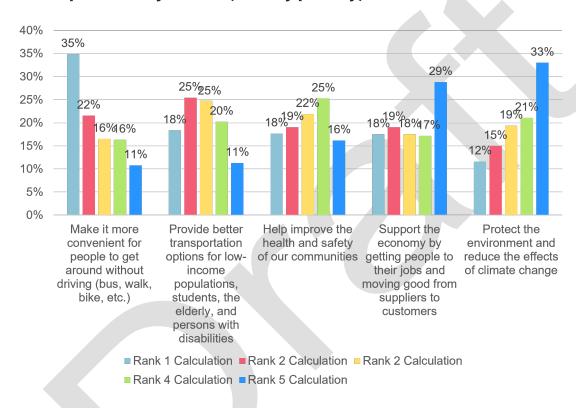
An online survey was advertised and available in English and Spanish from August 22 – October 31, 2023 to collect input from community members throughout San Bernardino County. Over 600 responses were collected. Questions included transportation mode choice, concerns, challenges, and priorities, as well as demographic information. Open-ended questions provided opportunities for participants to write in specific comments. A sample of results is shown below, and a full description of survey results is included in Appendix A.

Key insights from the survey included:

- Approximately two thirds of respondents used a car as their primary mode of transport for work or school trips
- Delay was the top mobility challenge among respondents, including both car and transit users
- Respondents reported that making it easier to get around without a car was the top overall priority

Figure 9. Example Survey Results

Aside from basic mobility, it is most important for the County's transportation system to (rank by priority):



6 LRMTP Priority Areas

In developing the LRMTP, several Priority Areas were identified, consisting of the core elements of the transportation network and issues that cut across all modes. Core modal elements include Transit, Highways, Active Transportation, and Goods Movement. In addition, it was important to consider priority issues that cut across modes, including Equity, Safety, Health, Land Use, Sustainability and the Environment and Air Quality.

6.1 Transit

Reflecting the challenges and opportunities of a maturing public transportation network, numerous issues affect this pandemic recovery period as well as future years. The immediate past has focused on hiring and retaining sufficient drivers and restoring services. Going forward, opportunities may be characterized within three overarching areas:

- Growing Transit Ridership to expand rider-centric, customer-facing strategies, including use
 of technology, countywide transit promotional campaigns, targeted free fares, and innovative
 services to connect current and potential riders with jobs, services, and experiences.
- Improving Frequency, Connectivity, and Accessibility to improve the quality of public transit, making it easy and convenient by improving access to high frequency, faster service that is well coordinated, with attention to areas where need is greatest.
- Improving Safety while Ensuring Environmental and Regulatory Compliance. Addressing safety includes improving riders' perceptions and experiences of a safe ride, improving the physical environment with attention to transit's infrastructure for pedestrian access and at bus stops, and ensuring a sufficiency of drivers and a motivated workforce. At the same time, ensuring compliance with local, State, and federal law will support both rider safety and California's efforts to combat climate change.

Growing transit ridership continues as a key SBCTA agency focus, heighted by pandemic experiences. Initiatives instituted by SBCTA and its operators with measurable results must continue. These must expand and adapt to changing conditions and opportunities. Initiatives to grow ridership include:

- Improving the Rider Experience
- Student and General Public Fare Innovations
- Special Fare Promotions
- Introducing New Services and Service Innovations
- Strengthening Vanpool Programs

Major transit service initiatives to increase frequency, connectivity, and accessibility include:

Figure 10. Countywide Promotion of SBCTA's K-12 Free Fare Policy



- Advancing transit priority treatments for the Omnitrans Priority Bus Corridors identified in Figure 11
- Completion of the nation's first high-speed rail service between Las Vegas and Rancho Cucamonga, with connections to the Metrolink San Bernardino Line
- Creating a dedicated connection between the Rancho Cucamonga Metrolink Station (also the future Brightline West station) and ONT terminals
- Increasing Metrolink San Bernardino Line frequency to every 30-minutes each direction and increasing weekend service
- Extending the Metro A Line to San Bernardino County
- Future Arrow expansion with infill stations and potential operations on the San Bernardino Line
 SBCTA's countywide transit vision is further detailed in Appendix B.

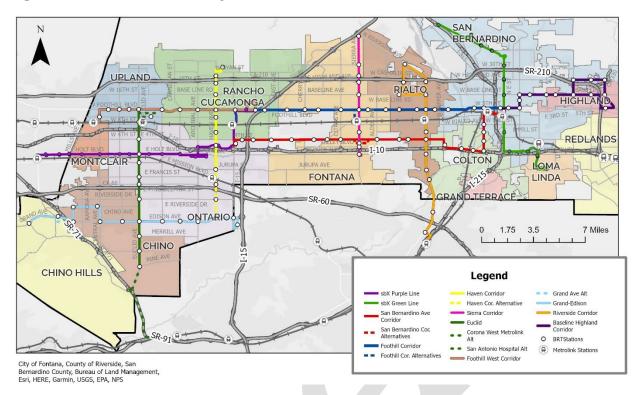


Figure 11. Omnitrans Priority Transit Corridors

The transit vision for the San Bernardino Valley is shown in Figure 12.

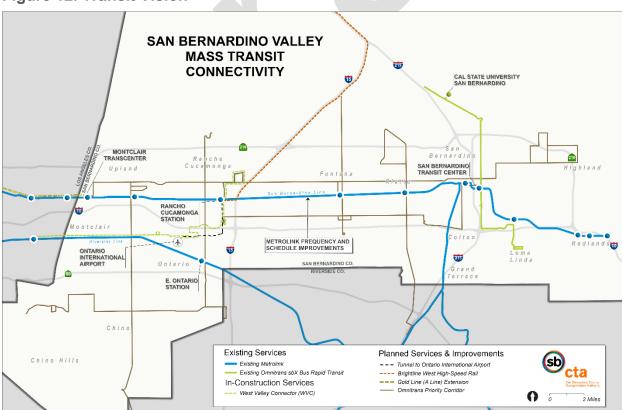


Figure 12. Transit Vision

Compliance with law, particularly in relation to California's Climate Action Plan and the California Transportation Plan 2050, requires multiple strategies for aggressively combating climate change. Chief among these is implementation of zero-emission plans for buses and rail. North America's first federally compliant self-powered, zero-emission passenger train arrived in San Bernardino County on June 20, 2024. The conversion to zero-emission buses will include both electric and hydrogen-powered fleets.

Addressing safety is a current and likely continuing mandate. SBCTA and transit operators are undertaking an anti-harassment and safety campaign with rider-focused tools aimed at improving both perceptions and experiences of a safe ride for transit users.

Areas of focus related to safety and rules compliance include improving pedestrian access for safe walking, physical infrastructure investment at bus stops/transit centers to promote safety, and human infrastructure investment in the transit workforce, transit ambassadors, travel training, and train-the-trainer roles.

This LRMTP incorporates the Short-Range Transit Plans or Comprehensive Operational Analyses of each of the region's transit operators. The most recent plans for each agency can be found at the following web links:

- Omnitrans Short-Range Transit Plan FY2023-2030
- <u>VVTA Comprehensive Operations Analysis June 2021</u>
- Mountain Transit Short Range Transit Plan FY 2021-22 to FY 2025-26
- Basin Transit Short Range Transit Plan FY2020-2024
- Needles Transit Services Short Range Transit Plan 2020-2025

6.2 Highways

Recent polling regarding the potential extension of Measure I found that the public's top transportation concern was repairing roads, followed by traffic congestion. Roads that are in poor condition impact the safety of users and can increase wear and tear on vehicles, increasing maintenance costs for drivers. As San Bernardino County's population and economy grow, so too will travel demand, placing increasing pressure on the highway system in terms of both wear and tear and congestion.

Automobiles and trucks on the County's highway network are a major source of greenhouse gas emissions that cause climate change and air pollutants that harm human health. To mitigate these impacts, California has set ambitious targets for reducing emissions, which are supported by fuel efficiency standards and policies to reduce VMT. Even as SBCTA works to improve alternative modal options, driving is likely to continue to be the dominant travel mode in the County, and declines in per capita VMT can be offset by growth in population and employment. Congestion will continue to impact not only single-occupant vehicles, but goods movement, carpoolers, and bus riders. In developing and implementing the LRMTP, SBCTA must balance environmental goals and regulatory compliance with the need to ensure smooth movement of multiple vehicle types on the region's highway network.

Travel demand modeling conducted for the LRMTP using the future network with improvements that are currently planned indicates that congestion will occur throughout the San Bernardino Valley, particularly on freeways. However, both I-10 and I-15 are transitioning over time to a priced, managed lane system, which means that congestion can mostly be avoided for transit and incentivized shared rides (HOV 3+) and that others can "buy into" a more reliable trip when they believe it to be important. The 60 and 210 freeways already have managed lanes in the sense that they are unpriced HOV lanes,

and they also play an important role for multimodal mobility. Strategies to address issues on the highway network include:

- Delivering on commitments in the Measure I 10-Year Delivery Plan.
- Securing new funding for capital projects and ongoing maintenance, such as through discretionary grant funds, a new sales tax measure, tolling managed lanes, or a new statewide vehicle mileage-based fee to offset projected declines in revenue.
- Managing travel demand through tolling of new highway capacity additions and linking transportation and land use planning to enable origins and destinations to be located closer together. The planned regional express lane network is shown in Figure 13.
- Identifying and funding improvements to the highway network or providing alternative modal options to address congestion hotspots projected to remain after delivering currently anticipated improvements.
- Providing strategic highway improvements to promote efficient truck operations and safety, to include improvements to freeway interchanges that address first/last mile freight access to local distribution centers and intermodal freight hubs.
- Providing accommodations for other modes on local roads and arterial highways, improving safety and addressing congestion and emissions through a multimodal, complete streets approach.
- Strategically investing in projects to minimize conflict between trucks and other road users and support safe, efficient movement of both passengers and goods.

Existing Dual Lane Express Lane

Existing Single Lane Express Lane

Existing Single Lane Express Lane

Existing Planned Dual-Lane Segment

Planned Toll Road-to-Express Lane Direct Connector

Direct Connector Conversion

Under Construction Segment

Planned HOV-to-Express Lane Direct Connector

Direct Connector Conversion

Under Construction Segment

Planned HOV-to-Express Lane Direct Connector

Under Construction Segment

Under Construction Segment

Under Construction Segment

Planned HOV-to-Express Lane Direct Connector

Under Construction Segment

Planned Express Lane Direct Connector

Figure 13. Regional Express Lane Network

Planned Express Lane Network

Source: 2024 Connect SoCal

Active Transportation 6.3

Active transportation plays a vital role in the integration of multimodal mobility and is consistent with the goals of promoting sustainability and improving air quality outlined in this LRMTP. There are several approaches to achieve a successful active transportation network, including balancing the travel needs of other modes with Complete Streets and pairing transit access with closure of first/last mile gaps.

Providing a layered network of modes and land uses is one strategy that allows for roadways to have an identified primary mode that is prioritized, where a high-quality experience is attainable on specific roadways instead of an average experience on the entire network. Roadway design can be specified to accommodate the primary mode, such as wider lanes for truck routes or narrower streets for bike routes. Typical measures of performance, such as Level of Service (LOS), can be modified to the street's primary mode in the form of multimodal LOS or transit travel time.

Infrastructure and policies that close the gap in first/last mile travel also support transit ridership as riders have an improved experience reaching their destination from a transit stop through improved safety, comfort, and convenience and the removal of barriers to active modes. Mobility hubs can provide centralized locations to chain trips made on transit and active modes through the ease of access to shared mobility.

Strategies to address gaps in the active transportation network include:

- Development, prioritization, and implementation of projects to close gaps and provide access along major routes and to key destinations such as transit, schools, other public buildings, and major employment centers. SBCTA developed a robust Safe Routes to School program that can be expanded upon to implement the recommendations described.
- Providing protected bikeways such as off-street (Class I), buffered bike lanes (Class II+), or cycle tracks (Class IV) to provide enhanced safety and comfort to bicycle users as appropriate; installing sidewalks and multi-use paths that link key destinations and provide access along areas with vehicle speeds or volumes, using the existing inventory of sidewalks across the County as a launch point; and providing protected and frequent crossings across high-volume and high-speed roadways. Regular maintenance of these facilities will be critical in ensuring the investment in infrastructure lasts and user comfort is maintained. Amenities such as shade, benches, bicycle repair stations, bicycle stalls or storage lockers, and wayfinding signs can further increase the comfort and user experience. The planned bikeway network is shown in Figure 14.
- Development of a coordination program among local agencies and community organizations to prioritize funding and assist with funding pursuits. Fee programs can be developed to raise funds for infrastructure to be installed or maintained and help provide a consistent funding source. Regional funding programs can assist rural or unincorporated communities that might not see regular streams of funding.

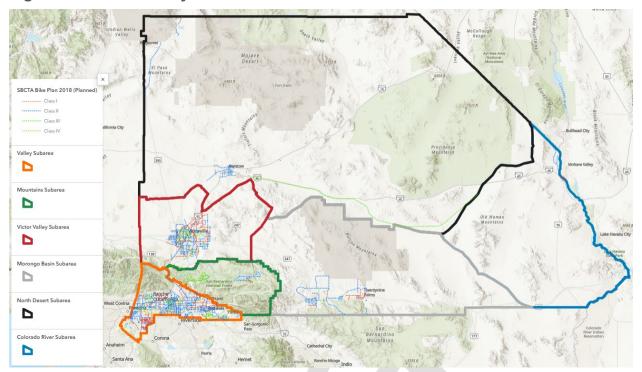


Figure 14. Planned Bicycle Network

6.4 Goods Movement

With its importance to the regional and local economy, goods movement also affects land use planning and other mobility modes. Local governments should work collaboratively to develop regional trucking routes and regulations focusing on safety, avoiding low-volume wide streets where speeding can become an issue, and sensitive receptors such as schools and parks. Furthermore, as the demand for short-haul trucking increases due to e-commerce and home delivery trends, the use of electric and hydrogen-based vehicles to deliver cargo in dense urban areas have been identified as options to reduce truck-related fuel consumption and emissions. Developing a reliable and frequent public transportation network and encouragement of mode shift to public transportation can open up additional capacity for goods movement, but even robust added transit ridership growth is not enough to keep up the growth in the need for freight transportation.

Goods movement also positively impacts many communities directly and indirectly through the relatively high percentage of freight-related jobs in the region. At least a third of San Bernardino County employment can be attributed to the logistics sector. There will continue to be opportunities to enhance goods movement efficiency in the region through improved matching of needs and skills for these types of jobs.

Resiliency should be considered systematically as long-range freight transportation plans are developed. Additionally, the importance of shared rail corridors for passenger rail must not be overlooked. These corridors are critical for providing efficient passenger transportation options, and balancing their use between freight and passenger services can maximize the utility of existing infrastructure, reduce congestion, and support environmental sustainability goals. Ensuring these shared corridors are optimized for both freight and passenger use can enhance overall transportation efficiency and connectivity in the region.

Strategies to improve goods movement include:

- Conducting additional follow up with local jurisdictions on implementation of the principles and practices contained in the Healthy Communities and Healthy Economies Toolkit. Bring the Toolkit up to date with more current data and practices.
- Collaborating across State, County, federal, and local jurisdictions to identify and leverage funding opportunities for sustainable freight transport and emission reduction programs, including zero-emission charging and fueling infrastructure for medium and heavy-duty trucks.
- Developing, prioritizing, and implementing interchange improvements for first/last mile freight access, grade-separation projects, truck climbing lanes, and strategic auxiliary and merge lane improvements on major corridors (I-10, I-15, SR-60) to reduce congestion and enhance safety, while minimizing impacts to disadvantaged communities and the environment.
- Positioning SBCTA and local jurisdictions to succeed in goods movement-related grant applications at the regional, state, and federal level. This would include grants for both highway infrastructure and zero-emission infrastructure through sites identified at the local level and by the private sector.
- Supporting workforce development for the logistics industry, particularly as related to the transition to zero-emission freight.

6.5 **Equity**

To address mobility needs and gaps in connectivity, SBCTA has published several plans, such as the Non-Motorized Transportation Plan (2018), Points of Interest Pedestrian Plan (2017), the Regional Safe Routes to School Plan (2017), Public Transit – Human Service Transportation Coordination Plan (2021), and the Customer-Based Ridesharing and Transit Connectivity Plan (2018) that include general and site-specific recommendations; however, they are not all funded. Most of the plans include federal and state funding opportunities for agencies to pursue. SBCTA can work with the jurisdictions and transit operators to implement prioritized recommendations.

SBCTA can work with jurisdictions to conduct an impact analysis of goods movement to expand the region's understanding of its impact on nearby neighborhoods and the region. Each of the case studies presented in the Healthy Communities and Healthy Economies: A Toolkit for Goods Movement had a Technical Advisory Committee of experts and a Community Feedback Group to quantify community impacts from freight facilities and operations. The Community Feedback Group included goods movement industry representatives, planning professionals, and residents from communities who have experienced goods movement-related issues. This effort can be elaborated on to create tailored recommendations to the unique conditions of each community.

The Senate Bill 1000 Equity Toolkit produced by SBCTA and SBCOG as part of the Regional Equity Study, the Priority Equity Community map produced by SCAG, and the Atlas Equity mapping tool in development by Metro can be used with CalEnviroScreen to help agencies understand challenges faced by specific disadvantaged communities. This can ensure that improvements to the transportation system address barriers to mobility, health, and safety, while prioritizing investments and programs intended to benefit disadvantaged communities. SBCTA recently procured a consultant to develop funding strategies for equity and inclusivity initiatives.

6.6 Safety

Safe and secured environments allow the public to access the transportation system confidently and encourages behavior changes that lead residents to consider alternative transportation modes. Improving active transportation infrastructure increases mobility choice options and can improve connectivity to open spaces in which people can be active. Safe and accessible sidewalks and bike lanes near a variety of amenities and destinations can encourage walking and bicycling for recreation or commuting. This can improve physical and mental health. Perceived and actual safety at stops and stations are barriers to accessing health services. Amenities at stops and stations, specifically lighting, benches, and shade structures can improve safety for transit riders.

The existing plans have general strategies and more subarea or jurisdiction focused recommendations that are not necessarily or funded. Several of the plans have similar recommendations such as assessing access and safety near transit stations. SBCTA developed a Station Technical Advisory Committee (STAC), which meets on a semi-annual basis and focuses on implementing improved and consistent safety and security measures at Metrolink stations located within San Bernardino County. Further, SBCTA has completed a series of first and last-mile bicycle and pedestrian improvements to improve transit access and safety at the Metrolink stations on the San Bernardino Line, which was largely funded through a competitive State grant program. Similar safety and security efforts can be expanded to other key destinations and transit centers in the region, particularly in areas of high use by commuters and students or where high accident rates occur.

Bus stops and Metrolink stations are generally the property and responsibility of local jurisdictions. As such, SBCTA can support coordination between cities and transit agencies to secure funding for the installation of amenities and improvements. Coordination among agencies is also necessary to identify, prioritize, and implement safety improvements for non-motorized transportation and goods movement projects. SBCTA can serve in an advisory capacity and coordinate activity where necessary. The pursuit of grant application opportunities is one of the areas identified in several plans where substantial improvement is possible; the NMTP notes that San Bernardino County has been underrepresented in the share of non-motorized grant funds that have been awarded in the past. To document the outcomes of safety improvements, indicators can be developed to track progress over time, such as number of fatalities and serious injuries on the transportation system by mode and surveying to understand feelings of perceived safety.

6.7 Health

Coordination among agencies is necessary to prioritize and implement non-motorized transportation projects and to analyze the effects of goods movement on the health of communities. SBCTA can serve in an advisory capacity and coordinating activity where necessary. For the case studies in the Healthy Communities and Healthy Economies: A Toolkit for Goods Movement, a Technical Advisory Committee of experts and a Community Feedback Group of community representatives assisted in quantifying community health impacts from freight facilities and operations; this effort can be elaborated on to develop a profile for each jurisdiction.

Implementing prioritized active transportation routes that improve connections to major corridors and provide access to key destinations such as transit, schools, and healthcare services will expand the active transportation network to promote a mode shift from automobiles for short-distance trips and

¹ SBCTA, Non-Motorized Transportation Plan, Chapter 7 pg.2.

increase physical activity. The recommendations and guidelines from the Regional Safe Routes to School and Points of Interest Pedestrian plans can be expanded upon and used to develop more site-specific strategies, and jurisdictions can pursue funding to implement the recommendations described in the plans.

SBCTA and transit operators can collaborate to build resource capacity and partnerships to implement prioritized strategies to expand mobility for underserved populations, especially to increase access to health services. These partnerships include public transit agencies, human service agencies, educational institutions, and municipalities. In addition to improving mobility options, coordination with these agencies can address roadway safety and connectivity between quality housing options and essential services. Many of the recommendations described in the Public Transit – Human Service Transportation Coordination Plan will require securing additional funding and coordination between partnerships is vital to prioritize and pursue funding opportunities.

6.8 Land Use

SBCTA can focus on improving coordination and collaboration between cities and transit agencies, particularly within subareas. Additionally, improving market conditions for TOD projects is a key step regional agencies can take. Strategies to better integrate land use and transportation planning include:

- Develop a planning framework that explains how to best serve existing land use patterns with transit while encouraging transit-oriented development in high priority areas. This framework would identify key stakeholders, their roles, and lay a foundation for developing specific plans around major transit stations. This also includes exploring where strategies like mixed-use development, TOD, densification, and focused affordable housing development are most likely to improve transportation system performance. Some of the emerging opportunities were highlighted in Section 4.2.
- Recognize that each subarea has different characteristics and will require different solutions, on both the land use and transportation sides of the issue. Serving rural communities and less dense areas with transit will require a different approach than urbanized areas where creating transit-oriented development is possible.
- Review existing practices for evaluating land use changes and ensure they consider all travel
 modes and future transportation investments in the County. New development projects should
 be consistent with broader goals to grow transit and active transportation mode share and
 create walkable, mixed-use communities.
- Identify clear roles for stakeholders including cities, transportation agencies (e.g., SBCTA), transit operators (e.g., Metrolink, Omnitrans, and Brightline), and developers. Determine how to accommodate conflicting priorities, such as preserving community character with the need for new housing. For example, SBCTA and transit agencies can identify regional corridors where transit services will be expanded and share this information with cities as they consider zoning changes and new developments.
- Look to how other peer agencies have coordinated improving transit, ridership, and TOD implementation through an integrated land use/transportation assessment and consider a similar exercise for additional transit nodes in San Bernardino County. A possible approach could be similar to the Sustainable Transportation Land Use Integration Study (ST-LUIS) completed by the Maricopa Association of Governments (MAG) several years ago.

- Create incentives and leverage available grant funding to improve market conditions for transitcentered development. State funding for affordable housing projects and locally administered
 development incentives around transit areas can support private development of multifamily
 housing, commercial development, and other facilities that would attract people to transit
 stations. SBCOG is proceeding with implementation of a Housing Trust, and coordinating this
 effort with transit system development could yield dividends for both.
- Unlock land around major transit stations by redeveloping parking lots and underutilized public
 facilities. This land can be made available to developers and should be consistent with stationarea specific plans that promote walkable, transit centered areas. This could be an ideal place
 to increase the availability of affordable housing for the region.
- Adjust development standards to require consideration of all transportation modes and reduce
 parking minimums where they make sense. These changes will ensure that development near
 transit stations is directly accessible by transit and will reduce vehicle trips.

6.9 Sustainability

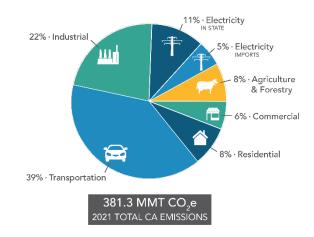
Sustainability and resiliency intersect all elements of the transportation system, from active transportation to transit to freight. Disruptions to the transportation network due to climate-related incidents can have many downstream effects. Transit operations, in particular, can experience significant disruptions due to the fixed-route nature of bus and rail lines.

One of the important strategies to reduce GHG emissions from the transportation sector is shifting travel modes from single-occupancy vehicles to more sustainable modes such as transit or active transportation. Other key issues are heavily influenced by land use, where more dense and walkable communities can increase the number of trips made by active modes, and transit-oriented development (TOD) can generate increased transit ridership. As agencies develop their plans, sustainability and resiliency planning should include equity components to ensure disadvantaged communities are not disproportionately burdened by a changing environment.

Sustainability and resiliency are not limited to a single department and will require coordination and planning across a number of sectors, agencies, businesses, and community groups. Initiatives such as Resilient IE and the Inland Southern California Climate Collaborative will set the County up with a foundation to continue these efforts into the future.

The technologies that support zero-emission vehicles are undergoing rapid changes and development. SBCTA should develop and implement programs to support agencies in incorporating alternative fuel technologies into their fleets, to include buses, autos and trucks, and to partner with member agencies and the private sector entities to implement

Figure 15. 2021 California Greenhouse Gas Emissions by Economic Sector



Source: California Air Resources Board, 2023

publicly available charging and fueling infrastructure. Collaboration between agencies and utility providers will be essential to accelerate this transition.

A wide variety of funding sources exist. SBCTA could develop a process to assist local jurisdictions in the identification and application of appropriate funding mechanisms. Incentives for pooling resources among agencies, businesses, and community organizations should also be explored. New funding sources should continue to be tracked and pursued to improve resiliency and sustainability in the County.

6.10 Environment and Air Quality

Collaboration across jurisdictions and level of governments can identify areas of common actions to mitigate emissions and pollutants from transportation sources. SBCTA can work with jurisdictions to develop a comprehensive framework for emissions inventory and recordkeeping. SBCTA can identify funding programs and incentives that provide resources and assistance for cities to prepare for and adapt to environmental issues.

To meet the expected EV demand, the majority of EV infrastructure should continue to be sited in the heavily populated urban areas of the County, including at public agencies, workplaces, destinations, transit stations, and multi-unit dwellings with a focus on disadvantaged communities. Caltrans and Electrify America have proposed charging stations along I-15 and I-10; however, there are gaps along I-40, SR 18, SR 62, and SR 247 that can be considered for charging station siting. Understanding different incentives can reduce barriers to zero-emission infrastructure deployment. There are several local, state, and federal funding opportunities and incentive programs recommended in the Zero-Emission Vehicle Readiness and Implementation Plan and the San Bernardino Countywide Zero-Emission Bus Study Master Plan to support stakeholders' and transit operators' vehicle procurement and infrastructure construction.

SBCTA has compiled zero-emissions rollout plans specific to each of the transit agency's specific needs and policy choices to determine which technology is most feasible. Before implementation, transit agencies should review the rollout plan and determine if the feasibility has changed based on costs, service requirements, and availability of technology. Additionally, it is important for agencies to discuss with their energy providers to ensure that ZEB-supporting infrastructure, delivery of buses, and potential energy enhancements are coordinated. There are funding opportunities, such as the Environmental Protection Agency's Carbon Pollution Reduction program and Caltrans' Sustainable Transportation Planning and Adaptation Planning Grants, to implement zero-emission technologies in transit and goods movement. SBCTA has applied for zero-emissions funding in the past and continues to prioritize zero-emissions vehicles.

Coordination among agencies is necessary to prioritize and implement non-motorized transportation projects and to analyze the effects of goods movement on the health of communities. SBCTA can serve in an advisory capacity and coordinating activity where necessary.

Reducing emissions from truck fleets is of critical importance to the future of air quality and GHG reduction for SB County. Private fleets are at the very front end of transitioning to zero-emission. Currently, diesel fueling can occur either on fleet property or at commercial fueling stations. Diesel is fast, efficient, and reliable, and given the uncertainties and cost associated with alternative fuels, securing federal and state grant funding is paramount to gaining momentum for the path to zero-emissions for the freight industry.

Most grant programs focused on zero-emission trucks require a public agency to be the lead and for the charging/fueling facilities to be publicly available. However, the facility can be privately owned and operated as long as the public agency provides oversight of the construction and initial operation (often a minimum of five years). This has been the path SBCTA has followed in the SB 1 Trade Corridor Enhancement Program funding secured for three truck charging/fueling facilities associated with SBCTA's Interstate 10 Contract 2 and US 395 Contract 2 projects. Another funding opportunity is through the Regional Clean Hydrogen Hubs Program, which is funded through the Bipartisan Infrastructure Law with the goal to establish regional clean hydrogen hubs across America.

The federal government and California state government have set lofty goals for the path to zeroemission. Typically, the burden to accomplish these goals falls primarily on the private sector capabilities to build and operate and on the local governments that must enable them and provide permits for their operations. Local governments are also becoming the partners with private vendors as the channel for state/federal funding to incentivize this major transition into green transportation so that vendors are accountable, and that the geographic distribution is fair.

San Bernardino County, with its large logistics industry, as the largest county in the continental United States, and with more miles on the U.S. Primary Freight Network than any other county in the U.S., is in a unique position to help the zero-emission transportation industry to take root, particularly the hydrogen industry. The county has large truck sales and maintenance operations and schools/colleges/universities that are tied into training the future zero-emission work force. SBCTA and its 25 local government members have partnered on zero-emission projects in the past. Examples include SBCTA's zero-emission multiple unit (ZEMU) hydrogen-fueled train, bringing the Brightline West zero-emission high speed rail to the I-15 corridor, and partnerships already established with zero-emission truck charging/fueling vendors.

7 Planning for Alternative Futures

To inform the development of the LRMTP, several scenarios were developed and modeled using the latest version of SBCTA's San Bernardino Transportation Analysis Model, SBTAM+. SBTAM+ is a travel forecasting model based on the regional model developed by the Southern California Association of Governments (SCAG) and allows analysis of future travel patterns with new infrastructure and land use assumptions. Through scenarios with different assumptions regarding the transportation network, travel patterns, or land use, SBCTA can test how investment strategies perform against each other in multiple potential futures.

7.1 Scenarios and Sensitivity Tests

The development of scenarios to be modeled considered changes in both the transportation network and the factors that influence travel demand. Two levels of transportation investment were modeled, providing insight into how additional investment changes performance of the system:

- Baseline: The Baseline Scenario includes transportation improvements that can be funded with known funding sources: Measure I, mitigation fees, gas tax funds, tolls, and reasonably expected discretionary grants.
- Enhanced (SCAG RTP "Plan" network): This scenario assumes more availability of new funding sources, such as a renewal of Measure I, statewide vehicle mile fees, and significant

discretionary grants. This scenario corresponds to the fiscally constrained scenario for the SCAG RTP.

In addition to varying transportation investment, three "background contexts" were considered with variations in where and how much people travel:

- Return to Normal: This scenario represents the baseline in SBTAM+, which is calibrated to 2019 travel patterns and does not assume on-going impact from pandemic. However, the scenario does include planned projects in future year transportation network and future growth in employment and population. In other words, this scenario represents a future where projects are built and the county grows, but travel behavior reverts to pre-pandemic conditions.
- Virtual Future: In contrast to the Return to Normal, this scenario represents magnification of
 the changes in travel pattens after the pandemic, with telecommuting continuing to surge, thus
 changing the number and types of trips workers make.
- **Smart Growth**: This scenario represents a change in land use away from dispersed, low-density suburban and exurban development to an approach focused on compact communities oriented around transit corridors to support higher transit use and shorten trips by homes, employment, services, and other destinations in closer proximity.

To understand the potential impacts of transportation system or policy changes, two additional scenarios were developed as sensitivity tests:

- Transit Expansion: This scenario tests the possible effects of substantially expanding transit service in the region. It assumes doubling of frequency on all bus routes as well as planned passenger rail improvements consistent with Metrolink's existing capital program.
- Pricing: Road pricing has emerged as potential strategy both to reduce congestion and VMT
 and as a potential replacement for gas tax funding as vehicles become increasingly electrified.
 Caltrans is currently conducting a road user charge pilot. This scenario assumes that a pricing
 scheme is implemented at the state or SCAG region level.

The scenarios and sensitivity tests referenced above <u>do not</u> represent recommendations; rather, they are intended to test what types of interventions result in significant changes in transportation system performance. These scenarios were constructed so as to hypothetically test the degree to which key performance indicators might change in response to a transportation or land use strategy without limiting the strategy to what might be legislatively, politically, or financially feasible or by any negative economic consequences that might occur. Therefore, it should not be assumed that these scenarios are possible to implement but may provide guidance regarding general policy directions that could or should be explored further over the long term.

Table 4 summarizes the assumptions for each modeling scenario. The methodology and assumptions are described in further detail in Appendix C.

Table 4. Summary of Modeling Assumptions

Scenario	Transportation System Assumptions	Background Context Assumptions		
2050 Baseline	Completion of planned projects that are likely to be funded	Travel patterns return to pre- pandemic patterns		

Virtual Future	Completion of planned projects that are likely to be funded	All workers with jobs that can be done remotely chose to telework
Smart Growth	 Completion of planned projects that are likely to be funded 	 All future growth in the Valley is concentrated along transit corridors
Enhanced Network	 Completion of planned projects that are likely to be funded New funding sources allow additional projects to be completed 	Travel patterns return to pre- pandemic patterns
Smart Growth + Transit Expansion	 Completion of planned projects that are likely to be funded Bus frequency is doubled across the SCAG region 	All future growth in the Valley is concentrated along transit corridors
Road Pricing	 Completion of planned projects that are likely to be funded New funding sources allow additional projects to be completed A statewide per-mile road user charge is implemented 	Travel patterns return to pre- pandemic patterns

7.2 Modeling Results and Key Findings

Modeling results for each context scenario, the Enhanced Network scenario, and the Transit Expansion sensitivity test are shown in Table 5. The impact of road pricing on VMT is described below, but it is excluded from the results table because the test was conducted to estimate an elasticity for VMT, not specific forecasts for each performance measure. Relative to a return to pre-pandemic conditions, both the Virtual Future and Smart Growth scenarios result in modest reductions in VMT. The Virtual Future sees substantial decline in overall travel time, delay, and transit ridership as a result of removing commute trips that are especially likely to occur at congested times of day. The Smart Growth scenario results in a significant percentage increase in transit ridership within San Bernardino, but because baseline ridership is low, the impact on vehicle travel is muted.

The Enhanced transportation network achieves travel time savings and an increase in transit ridership relative to the Baseline network with return to normal conditions. However, VMT increases slightly as drivers are willing to take longer trips on less congested roads. The Transit Expansion sensitivity test increased transit ridership to the greatest degree and also showed large decreases in total travel time and VMT.

The road pricing sensitivity test showed an elasticity of -0.17, meaning that each 10 percent increase in auto operating costs would be expected to reduce VMT by 1.7 percent. In 2024 dollar terms, an increase equivalent to one dollar per gallon of gasoline would be expected to reduce VMT by 1.9 percent, assuming average fuel economy of 25 miles per gallon (Bureau of Labor Statistics 2024). Imposing such a cost increase would represent more than doubling the current state and federal gas taxes.



Table 5. Modeling Results by Scenario

All Performance Measures	2050 Baseline	Virtual Future		Smart Growth		Enhanced Network		Smart Growth + Transit Expansion	
	Value	Value	%Δ*	Value	%Δ*	Value	%Δ*	Value	%Δ*
Total VMT	90,759,248	87,251,407	-4%	89,096,205	-2%	91,172,483	0%	81,520,239	-10%
Truck VMT	12,805,961	12,759,831	0%	12,742,465	0%	12,914,432	1%	12,589,982	-2%
Total VHT	2,130,922	1,992,203	-7%	2,089,892	-2%	2,008,779	-6%	1,826,424	-14%
Truck VHT	242,181	234,534	-3%	239,982	-1%	232,517	-4%	229,884	-5%
Passenger VMT per Capita	29.8	28.5	-4%	29.4	-1%	29.9	0%	26.5	-11%
PHT, work trips	888,256	621,599	-30%	867,617	-2%	842,286	-5%	784,639	-12%
PHT, non-work trips	1,511,292	1,626,937	8%	1,470,405	-3%	1,424,281	-6%	1,343,048	-11%
Total delay	244,074	174,774	-28%	240,029	-2%	133,520	-45%	154,634	-37%
Delay per capita (minutes)	5.6	4.0	-28%	5.5	-1%	3.1	-45%	3.6	-36%
Drive alone mode share, work trips	80.2%	80.3%	0%	79.1%	-1%	79.2%	-1%	69.5%	-11%
Drive alone mode share, non-work trips	39.6%	39.9%	0%	39.4%	0%	39.0%	-1%	35.9%	-4%
Transit ridership	137,385	93,625	-32%	166,003	21%	195,955	43%	499,977	264%
Truck delay	22,831	16,177	-29%	21,948	-4%	12,160	-47%	15,056	-34%
Share of population within half mile of transit stop	71.4%	71.4%	0%	73.5%	2%	72.7%	1%	73.5%	2%
Share of population in disadvantaged communities within half mile of transit stop	88.1%	88.1%	0%	89.0%	1%	88.9%	1%	89.0%	1%
Share of employment within half mile of transit stop	74.5%	74.5%	0%	79.8%	5%	76.2%	2%	79.8%	5%
Share of population within HQTAs	30.3%	30.3%	0%	37.6%	7%	30.3%	0%	37.6%	7%
Share of population in disadvantaged communities within HQTAs	48.0%	48.0%	0%	55.6%	8%	48.0%	0%	55.6%	8%
Share of employment within HQTAs	42.5%	42.5%	0%	56.9%	14%	42.5%	0%	56.9%	14%
GHG emissions	35,482	34,111	-4%	34,832	-2%	35,644	0%	31,870	-10%

Notes:

VMT = vehicle miles traveled, VHT = vehicle hours traveled, PHT = person hours traveled, HQTA = high quality transit area, GHG = greenhouse gas

^{*} Compared with 2050 Baseline

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8 Funding Future Projects and Programs

Ultimately, the LRMTP is all about moving people and goods to where they need to go in an expeditious manner at reasonable cost. It is about giving people opportunities and choices to connect with jobs, schools, recreational and social activities and access the goods and services needed to function day-by-day in a very large region. This section of the LRMTP highlights the process of funding projects, providing for their operations, and the overall funding challenges being faced in the future.

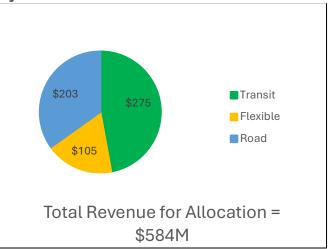
8.1 Overview

The reality is that the funds available to pay for transportation projects and their operation are not unlimited, and difficult decisions can be involved in determining where the available local, state, and federal funds should be invested. SBCTA's Measure I 2010-2040 half-cent sales tax is one of SBCTA's primary sources of revenue for capital projects, with some funding available for transit operations. The Measure is highly structured, with some of the funding going directly to the jurisdictions for local streets and transit operators for senior and disabled transit (often referred to as "pass-through" funding), and other parts of Measure I being apportioned to sub-programs, such as Major Streets, Freeways, Interchanges, Metrolink/Rail, and Express Bus/BRT. These programs are all delineated in the Measure I 2010-2040 Ordinance and Expenditure Plan, which extended the half-cent sales tax to 2040. The Expenditure Plan identifies how the Measure I revenue is to be allocated by subarea and program.

State and federal revenues are also an essential part of the funding portfolio for San Bernardino County transportation projects. These are all delineated in the SBCTA Annual Budget. The Local Transportation Fund (LTF), derived from a ¼ cent of the general sales tax collected statewide, is the largest part of how the operation of transit systems is funded, with additional state and federal funding

available for capital projects, a significant portion of which is now competitive funding through grant applications. This has made funding streams more unpredictable and the programming of projects more difficult than in the past. Multiple funding sources must be aligned for capital projects to come to fruition, and transit projects must have a secure source of operating funds. Figure 16 shows the general distribution of funding for which SBCTA has allocation responsibility, taken from the FY 2023-2024 budget. As indicated, a significant percentage of the revenue budgeted for allocation (47 percent) is dedicated to transit, with an additional 18 percent being able to flex between transit and highway.

Figure 16. Allocation of SBCTA Revenue by Mode for FY 2023-2024



Projects, Funding, and Their Relationship to Other 8.2 **SBCTA Plans**

The LRMTP has a structure for classifying projects at three levels: 1) near-term projects that have clearly identified funding sources as contained in the SBCTA 10-Year Delivery Plan, 2) projects that are beyond the 10-year horizon but are likely to have funding from known state, federal, and local sources within the 2040 timeframe, and 3) projects that will likely need to draw from sources beyond 2040. Note that projects in the Baseline and Aggressive Levels are subject to change, pending an update to the 10-Year Delivery Plan in early 2025.

- 1. Projects in the SBCTA 10-Year Delivery Plan These are projects for which full funding has been identified, except for the grant funding needed to fill remaining gaps. The 2021 10-Year Delivery Plan also includes projections of Measure I revenue through 2040, and may be viewed at SBCTA 2021 10-Year Delivery Plan. A major update to the 10-Year Delivery Plan. will be available in early 2025. Projects expected to be included in the updated 2025 10-Year Delivery Plan are listed in Table 6.
- 2. Projects in the Baseline Funding Level This level of funding incorporates projects in the Delivery Plan plus projects that can be funded with traditionally available local, Measure I, state, and federal revenue sources through 2040. What is unknown at this time is whether additional revenue could come in through state and federal sources or through an extension of Measure I, which currently sunsets in 2040. A new Measure I could begin on this sunset date or be structured to overlap with the current Measure I by several years. Revenue streams would have to grow significantly between now and 2040 for more projects beyond the baseline level to be funded. For purposes of the LRMTP, a new Measure I is assumed to begin on the 2040 sunset date of the current Measure and that bonding could occur or Project Advancement Agreements (PAAs) with local jurisdictions could be executed so as to access a portion of that funding prior to 2040. The current Measure used PAAs to allow jurisdictions to get an early start on some of their projects. Projects in the baseline level beyond those in the 10-Year Delivery Plan are listed in Table 7. The funding assumptions are listed on the right side of the table. A separate table (Table 8) is provided just of active transportation projects that are either underway or could receive grant funding within the Baseline timeframe. It is a long list of projects in different stages of progress, with some already funded and others not. It indicates the priority being placed on building the countywide active transportation system. Implementation responsibility for the large majority of these is in the hands of the jurisdictions in which the projects are located.
- 3. Projects in the Aggressive Funding Level This is a needs-based level of projects assuming additional sources of revenue could be established. The Aggressive Level is generally consistent with the RTP/SCS "financially constrained" plan. This includes SCAG's "innovative revenue sources" contained in the 2024 RTP/SCS and represents a substantial increase over traditionally available funding streams. There is no attempt in the LRMTP to estimate what a future increase in revenue "could be" for San Bernardino County. The needs identified by local jurisdictions and transportation agency partners far outstrip even the most generous assumptions of future revenue. The Aggressive Level includes all projects in the Baseline Level plus the additional projects listed, as shown in Table 8.

Some observations about the projects and transportation funding for San Bernardino County are listed at the end of this LRMTP. The following is provided as background of SBCTA's key funding and policy documents:

- The Measure I 2010-2040 Strategic Plan, originally approved by the SBCTA Board in April 2009 specifies the policies by which the funds are to be managed. These policies are updated by the SBCTA Board on an as-needed basis. The Strategic Plan also provides an overall funding and management strategy for Measure I. The Strategic Plan can be reviewed at: Measure I Strategic Plan. The Measure I Program Policies can be reviewed at: Measure I Policies.
- The Measure I Strategic Plan required the development of a 10-Year Delivery Plan. The purpose of the 10-Year Delivery Plan is to define the project-level scope, schedule, and budget for individual projects to be developed and delivered in the next 10 years of Measure I 2010-2040 and represents a near-term view of funding needs. The 10-Year Delivery Plan was first approved by the Board in early 2012 and since then has been updated four times, with the most recent update being 2021. The 10-Year Delivery Plan can be found at: SBCTA 2021 10-Year Delivery Plan.
- The Development Mitigation Nexus Study, originally approved by the SBCTA Board in 2005, estimates the funding forecast to be generated from new development over the course of Measure I 2010-2040. These funds, generated primarily from transportation impact fees on new development, are used as part of the funding package for three types of projects in the Valley and Victor Valley: freeway interchanges, regional arterials, and rail/highway grade separations. The Nexus Study identifies the shares of funding for which local jurisdictions are responsible. The Nexus Study is available as Appendix G of the Congestion Management Plan and can be directly accessed at: 2023 Nexus Study.
- The <u>Federal Transportation Improvement Program</u> (FTIP) is a short-term listing of all transportation projects proposed over a six-year period for the SCAG region. SBCTA submits the San Bernardino County portion of the FTIP to SCAG, with major updates scheduled every even year.
- The Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) is prepared by SCAG every four years, with substantial input from County Transportation Commissions and local governments. The San Bernardino County LRMTP is one of the sources of input to the RTP/SCS, along with direct input from local jurisdictions and transportation agencies. The current RTP/SCS (branded <u>Connect SoCal</u>) was prepared for the 2024-2050 timeframe.

Table 6. Ten-Year Delivery Plan Projects

Measure I Programs

San Bernardino Valley Freeway Program

I-215 Bi-County Landscaping

I-10 Contract 1: Two Express Lanes in Each Direction from LA County Line to East of I-15

I-15 Contract 1: Express Lanes from Riverside County Line to Foothill Boulevard

I-10 Contract 2A/B: Express Lanes from East of I-15 to Pepper Avenue

I-10 East Bound Truck Climbing Lane from West of 16th Street Bridge to East of Riverside

San Bernardino Valley Freeway Interchange Program

I-10/Cedar Avenue Interchange

SR 60/Central Avenue Interchange

I-215/University Parkway Interchange

I-10/Mount Vernon Avenue Interchange

SR 210/Waterman Avenue Interchange

SR 210/5th Street Interchange

I-10/Wildwood Canyon Road Interchange

I-10/Riverside Avenue Interchange Phase 2

I-10/Euclid Avenue Interchange

I-10/Monte Vista Avenue Interchange

I-10/Vineyard Avenue Interchange

San Bernardino Valley Major Street Program

Mount Vernon Viaduct

I-10/Fourth Street Bridge Undercrossing

San Bernardino Valley Metrolink/Passenger Rail Program

Arrow Operations

Convert Diesel Multiple Units on Arrow Line to ZEMUs

San Bernardino Line Double Track

Gold Line to Montclair Capital

Gold Line to Montclair Operations

Valley Express Bus & Bus Rapid Transit Program

West Valley Connector from Pomona to Rancho Cucamonga (Phase 1 Capital and Operations)

Ontario International Airport Connector (dependent on substantial grant funding)

Victor Valley Major Local Highway Program

El Mirage Road from US-395 to Richardson Road

Bartlett Avenue Rehabilitation & Widening (Phase I)

Bartlett Avenue Rehabilitation & Widening (Phase II)

Bellflower Street Widening (Phase I)

Bellflower Street Widening (Phase II)

Bear Valley Road Bridge Over Mojave River

Yucca Loma Road Widening from Apple Valley Rd to 1200' East

Yucca Loma Road Widening from 1200' East of Apple Valley Rd to Rincon Road

Yucca Loma Road Widening from Rincon Road to Navajo Road

Central Road from SR18 to Bear Valley Road

Dale Evans Parkway Phase 1 (Waalew Realignment)

SR18, Widen to 6 Lanes Apple Valley Rd to Tao Rd

Deep Creek Road from Bear Valley Rd to Tussing Ranch Rd

Ranchero Road Corridor Widening from Hesperia City Limit to 7th Avenue

Main Street Widening Phase 1 from I-15 to Fuente and Aqueduct Bridge

Mojave Drive Widening from 395 to 7th Avenue

Bear Valley Road Widening from Monte Vista Rd to Hwy 395

Ranchero Corridor Widening from Mariposa to Hesperia City Limits

Rock Springs Road Bridge over Mojave River

Phelan Road Widening from SR 138 to Hesperia City Limits

US-395 - Phase 2 Widening from I-15 to Palmdale Road

SR 18 Operational Improvements West of US 395 - Project Development Only

North Desert Major Local Highway Program

North First Avenue Bridge over BNSF

North First Avenue Bridges over Mojave River & Overflow

Rimrock Road Rehabilitation

Baker Boulevard Bridge Replacement over Mojave River

National Trails Highway Bridges Replacements

Mountains Major Local Highway Projects Program

Moonridge Road Realignment and Roundabouts

Stanfield Cutoff Roundabout

Stanfield Cutoff Pavement Improvement

Morongo Basin Major Local Highway Projects Program

Split Rock Avenue at Twentynine Palms Flood Control Channel

SR 62 Street Improvements from Encelia Avenue to Larrea Avenue, Phase 2B Widening

SR 62 Widening, Sage Avenue to Airway Avenue

Yucca Trail Widening from Palomar to La Contenta

SR 62 Street Improvements from Larrea Avenue to Star Dune, Phase 3

Colorado River Major Local Highway Projects Program

Needles Highway Improvements, Segment 1C

River Road Widening

River Street Widening

Table 7. Projects Included in the Baseline Level of Funding

Table 7. Projects included in the baseline Level of Ful	
Projects	Funding
 10-Year Delivery Plan Projects Plus Constrained Projects through 2040 (some conditional on grant funding): High Speed Rail from Rancho Cucamonga to Las Vegas (private and public funding mix – not an SBCTA project) I-10 Freight and Managed Lane Project from Pepper Avenue to Ford Street (design only) I-15 Northbound Truck Climbing Lane Extension from Kenwood to SR-138 Valley Interchange Program (no funding available for interchanges beyond those included in 10-Year Delivery Plan) Key arterials that are inter-county, are on state highways or are connecting to them: Pine Avenue Connector to SR-71 (design only) Reche Canyon Road Operational and Safety Improvement (Bi-County - environmental) SR-18 Operational and Safety Improvements, LA County to US 395 (Phase 1 design only) US 395 Phase 3 (Design only) Valley Arterial and Mountain/Desert Major Local Highway Programs (constrained to revenue – see projects in local Capital Project Needs Analysis/CPNA submittals) No additional grade separations Active Transportation Projects supportable by grants and Transportation Development Act funds (See Table 8). Transit priority treatments, and possible focus on a new BRT or BRT-lite project in the Valley Smart Corridors in the Valley, Victor Valley, and Morongo Basin in conjunction with priority transit corridors above. Continuation of vanpooling, ridesharing, and other transportation demand management (TDM services at their current level of funding (see Transit/TDM section for descriptions) Continuation of Freeway Service Patrols, with adjustments made to FSP Beats due to cost escalation. Continuation of zero-emission truck and passenger car charging/fueling infrastructure initiatives, based on grant funding. 	Core Revenues, Financially Constrained Traditional sources: • Measure I revenue forecast in 10-YDP • State revenues constrained to gas tax collections (including SB 1) and sales tax revenue (such as Local Transportation Fund/LTF) • Federal revenues constrained to congressional allocations for transit and highways • State SB 1 and federal competitive programs • Tolls for managed lane projects • Transit revenue adequate to cover current operations at 3% annual inflation • Development Mitigation fees

Table 8. Planned Active Transportation Projects

City	Project
	he Transportation Development Article 3 Program (in progress)
Adelanto	Transit Improvements on Jonathan St
Apple Valley	Thunderbird Road Bus Turnout - REVISED Bear Valley & Navajo Rd
11 7	Turnout
Apple Valley	Bear Valley Rd Bridge Connector
Apple Valley	Village North Pedestrian Improvements
Apple Valley	McConnell Park Multi-Use Path
Apple Valley	Central Road Class II Bikeway
Big Bear	Stanfield Marsh Outdoor Recreation & Education Trail Segment II (SMORE
Chino Hills	II) Sierra Vista & Del Norte Improvements
Chino Hills	Montecito Dr Transit Access Improvements Project
Colton	South La Cadena Bicycle Improvement
County	Santa Ana River Trail - Waterman Ave. to California
<u> </u>	3rd Street at Pedley WB
County	,
County	Bus Stop Improvements on Pacific Street Alder Middle School SRTS
Fontana	
Fontana	Rectangular Rapid Flashing Beacons
Fontana	Catawba SRTS Sidewalk
Fontana	10 Bus Pads in the City of Fontana
Highland	Baseline, Boulder, 9th Street and Olive Tree
Highland	9th St Transit Stops, Sidewalk, & Bikeway
Ontario	Ontario Improvements - 3 Stops
Omnitrans	Bus Benches and Shelters
Rancho Cucamonga	Haven Sidewalk Improvement
Rancho Cucamonga	Day Creek Channel Bike Trail
Rancho Cucamonga	Cucamonga Creek Channel Maintenance
Redlands	Orange Blossom Trail Phase IV
Rialto	Merrill SRTS (Boyd Elementary School)
Rialto	Sycamore SRTS
Rialto	Frisbie Middle School SRTS
Rialto	Bemis Elementary SRTS
San Bernardino	Bus Stop Sidewalk Improvements Channel Trail Class I
Twentynine Palms Victorville	Old Town Sidewalk Connectivity - Phase 2
Victorville	Village Drive Sidewalk
VVTA	Hesperia Rd Between Chalan Rd and Sunset Drive
VVTA	13735 Rodeo Dr
VVTA	Apple Valley - Bus Stop Improvements
VVTA	Victorville - Sunhill Drive & Chalon Road
VVTA	Victorville - Nevada Avenue & McCoy Drive
Yucaipa	Transit Stop Access in the City of Yucaipa

City	Project	
Projects Submitted for Funding in the Caltrans ATP Cycle 7 (Not Awarded Unless		
	Otherwise Noted)	
Adelanto	Adelanto Safe Route to School Bartlett Avenue Pedestrian Improvements (SRTS)	
Apple Valley	Haven Avenue Complete Streets Project	
Apple Valley	Phoenix Academy Safe Routes to School Pedestrian Connection Project	
County	San Sevaine Class I Network Connection	
County	Santa Ana River Trail - Phase IV Reaches B&C	
Highland/Redlands	Highland/Redlands Regional Connector	
Montclair	City of Montclair SRTS Active Transportation Improvement Project	
Montclair	North Montclair Active Transportation Implementation Project	
Needles	City of Needles Sidewalk Improvement Project	
Rancho Cucamonga	Hermosa Avenue Corridor Complete Street Project (HACCS)	
Rancho Cucamonga	SW DAC & Cucamonga Creek Trail SRTS Improvements Project	
Rialto	City of Rialto Safe Routes to School Improvements Project (Partial Award)	
Rialto	Rialto Safe Routes to School Plan Update	
San Bernardino	City of San Bernardino Safe Routes to School Connectivity Plan	
San Bernardino	City of San Bernardino SRTS/Sidewalk Gap Connectivity Project	
Victorville	Bear Valley Road Bike and Pedestrian Connectivity Project	
Victorville	City of Victorville's Active Transportation Plan	
Victorville	La Paz Drive Improvements	
Victorville	Mojave Drive Complete Streets Improvement Project	
Victorville	Ridgecrest Road Improvements	
Yucaipa	Oak Glen Road Widening Phase II	
Yucca Valley	Yucca Valley Pedestrian Enhancements and Transit Access Project	
	Other High Priority Bike Facility Improvements	
Rialto	Riverside Ave	
Rancho Cucamonga	Church St	
Rancho Cucamonga	City of Rialto Safe Routes to School Improvements Project	
Chino	Euclid Ave	
Montclair	Monte Vista Ave	
Fontana	Sierra Ave	
Rancho Cucamonga	Banyon St	
San Bernardino	9 th St	
San Bernardino	Baseline Rd	
Redlands	Lugonia Ave	

City	Project		
Oth	Other High Priority Safe Routes to Schools Improvements		
Fontana	Fontana Middle		
Fontana	Harry S. Truman Middle		
Redlands	Orangewood High (Continuation)		
Redlands	Redlands eAcademy		
San Bernardino	Arrowview Middle		
San Bernardino	Curtis Middle		
San Bernardino	Hardy Brown College Prep		
San Bernardino	Lincoln Elementary		
San Bernardino	Shandin Hills Middle School		
Upland	Upland Elementary		
Other Hi	gh Priority Pedestrian Points of Interest Plan Improvements		
Colton	Fleming Park near Library & Police Dept		
Fontana	Seville Park along Electric Bike Trail near Civic Center/Library		
Highland	Highland City Administration & Baseline Rd Retail		
Ontario	Ontario Town Square & Civic Center		
Rancho Cucamonga	Foothill Retail Cluster & Central Elementary		
Redlands	City Hall, Smiley Park, and Library		
Rialto	Downtown & Civic Center (Riverside Ave)		
San Bernardino	San Bernardino County Courts, Civic Center, & Meadowbrook Park		
Upland	Downtown Upland & Civic Center		
Victorville	Victorville Downtown		

Table 9. Projects Included in the Aggressive Level of Funding

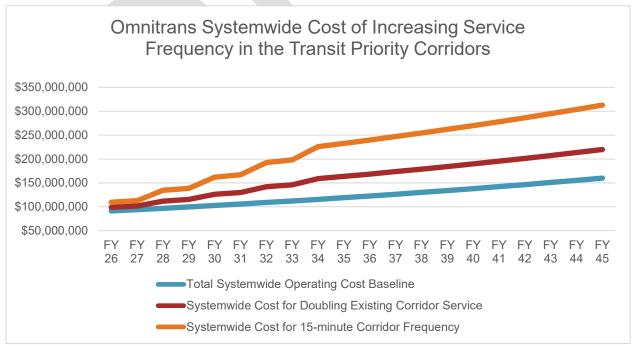
Projects	Funding
 Baseline Projects Plus the Following: Metrolink expansion (upgrade to 30-minute headways) on the San Bernardino Line (subject to funding through Metrolink SCORE program) Frequency improvements and transit priority treatments on all Priority Transit Corridors in the Valley, and selectively in Victor Valley and Morongo Basin in conjunction with Smart Corridors Quiet zones at all Metrolink street crossings Non-Motorized Transportation Plan buildout Interchange Program Buildout (additional interchanges include I-10/Grove, I-10/Weech, I-10/Alder, I-10/Rancho, I-10 La Cadena Ramps, I-10/Waterman, I-10/California, I-10/Wildwood, I-15/Muscatel, I-15/Eucalyptus, I-15/Bear Valley, SR-60/Euclid, SR-60/Mountain, SR-71/Ramona, SR-71/60 Connector, SR-210/Del Rosa, SR-210/Victoria, I-215/Palm, I-215 Campus Parkway) Freight and Multimodal Freeway Projects I-10 Freight and Managed Lane Project from Pepper Avenue to Ford Street (Construction) I-15 Freight and Managed Lane Improvements from Foothill Boulevard to US-395 (express toll lanes) I-215 Freight and Managed Lane Improvements from I-215 to I-10 SR-210 Freight and Managed Lane Improvements from County Line to 215 (assume HOV conversion to dual lane HOT) I-215 Freight and Managed Lane Improvements from I-10 to SR-60 Selected Managed Lane Connectors (I-10/I-15) Arterial Program and Grade Separation Buildout (see list of projects in 2024 RTP/SCS Project List) 	Funding Increased to Match Increased Need for Capital and Operations Expenditures - Potential options: • Supplemental Measure I (MI 3.0) that would include more flexibility for use of tax dollars for transit operations. • Tolls from managed lane projects • Increases in state transit operating funds • Increase in future Federal authorizations (may require indexing gas taxes to be on par with current authorizations to account for inflation) • Regional/State/Federal VMT fee (or equivalent)

8.3 Observations about Funding for Transit Operations

As noted elsewhere in this plan, the ability to increase transit services is limited by the ability to fund ongoing transit operations. Capital projects generally represent one-time expenses, but the large majority of expenditures for a transit agency consists of transit operating costs. For example, in the National Transit Database 2023 Annual Agency Profile for Omnitrans, 94 percent of the expenditures were on transit operations out of their \$86 million budget. Of the operating expenses, 56 percent was for labor. In the San Bernardino Valley, SBCTA has generally been managing major transit capital projects, such as the construction of Arrow and West Valley Connector, so that these do not show up in the Omnitrans budget, and a significant portion of the capital costs have come through state and federal grants. That said, the operating funds must be available to Metrolink and Omnitrans to fund the incremental operating costs that result from transit service expansion.

Omnitrans has developed a Corridor Investment Plan that identified nine future Transit Priority Corridors for potential service improvements. Existing transit services in the identified corridors have route frequencies that range from 20-minute headways to 60-minute headways. Doubling service would reduce frequency to between 10-30 minutes on all proposed routes in all nine corridors. The Omnitrans Corridor Investment Plan's vision for faster and more reliable service will require a significant financial investment to bring the vision to reality. Figure 17 presents Omnitrans systemwide cost estimates over the next 20 years between three scenarios: 1) a constrained baseline cost for maintaining existing service; 2) an expansive scenario that doubles existing bus frequency in the nine corridors; and 3) an unconstrained estimate for improving corridor service to no greater than 15-minute headways. This assumes a phased approach of increasing service by 20% every other year, and cost estimates are based on FY 24 operating statistics for Omnitrans systemwide costs and accounting for inflation of 3 percent annually.

Figure 17. Projected Omnitrans Systemwide Operating Costs with Increasing Frequency



Over 20 years, it is estimated that baseline costs to maintain existing service will increase 70 percent to \$160 million in FY 2045 considering 3 percent annual inflation. Doubling service on the nine corridors would increase annual cost to \$220 million in FY 2045. Further increasing frequency to every 15 minutes would increase cost to \$313 million.

This example illustrates a challenge that faces all transit operators in the county. In the Victory Valley, VVTA has a similar long-range planning effort. VVTA's 2024 Comprehensive Operational Analysis presents a "Vision Plan" that sets forth route level and program level improvements which will require a 156 percent increase in annual revenue hours and doubling the number of vehicles. In addition, the conversion to zero-emission buses is a major investment, but the funds have been accounted for (\$138 million, largely from federal Congestion Mitigation and Air Quality funds) in the 10-Year Delivery Plan under the "Other Projects of Interest" category.

9 Key Issues and Strategic Priorities

During the development on the LRMTP, five key issues emerged as consistent transportation challenges for the county: mobility, goods movement, climate adaptation and resiliency, disadvantaged communities, and funding. These issues affect all six subareas. A number of strategic priorities were identified to address each key issue as described below. The following chapter details an Action Plan for each strategic priority.

9.1 Multimodal Mobility and Connectivity

Though areas of the county are densifying, and transit services are expanding, dispersed development patterns make travel distances too long for commutes by active transportation and make it more difficult to connect destinations with frequent transit. Though the jobs/housing imbalance is decreasing, many San Bernardino County residents and workers still face limited local job opportunities and long commutes. These elements lead to auto-dependence and long travel times on a congested roadway network, which makes VMT reduction more challenging, even though vehicle electrification is helping to reduce GHGs.

Strategic Priorities:

- Update prior plans for a "core network" of enhanced, frequent transit services, particularly within the San Bernardino Valley subarea
- Work with County jurisdictions to incorporate this core network into local land use plans and policies in order to encourage walkable, mixed-use development around high-quality transit
- Identify opportunities for incremental enhancements to transit frequency or coverage in rural areas of the county to serve unmet transit needs
- Develop a coordinated program of first/last mile improvements focused around the core transit network, including supporting, enhancing, and improving bicycle, pedestrian, and transit connections.
- Invest in and promote improvements to multimodal connectivity and the customer experience, including improved safety, frequency, faster trip-making, ease of connections and fare payment options to encourage transit use among existing and potential riders across the San Bernardino region.

- Manage congestion and improve traffic flow on freeways and arterials
- Continue to actively promote strong vanpool, carpool, and transportation demand management (TDM) initiatives that provide options for single-occupant auto travel, and encourage employers to permit work-from-home options for employees who are able to work off-site
- Develop a VMT mitigation bank that can mitigate the VMT impacts of land development and strategic highway projects while providing an additional funding source for transit, TDM, and active transportation

9.2 Goods Movement

The logistics industry is a major economic driver for San Bernardino County. While the strong and growing goods movement and warehousing industry provides economic and employment benefits, it also contributes to poor air quality, roadway congestion, pavement degradation, and safety issues that particularly burden communities around warehouses or along major truck routes. While goods movement is key to the local and regional economy, it relies on highway investment at a time when state policy discourages highway capacity expansion.

Strategic Priorities:

- Develop a strategic plan for freight corridors, including arterial truck routes which can be used
 to focus freight travel and reduce freight and land use conflicts. The plan should include a
 program of enhancements for those corridors to facilitate safe and efficient freight movement,
 consistent with the intent of AB 98 (Planning and Zoning: Logistics Use: Truck Routes), which
 will go into effect in January 2026).
- Collaborate with the private sector on strategic opportunities to shift freight from truck to rail and optimize supply chains to reduce truck travel.
- Collaborate with the private sector to accelerate the transition to clean trucks.
- Prioritize strategic investment in high-volume highway freight corridors and first/last mile freight connections to maximize potential for obtaining funding for needed highway improvements.

9.3 Climate Adaptation and Resiliency

The changing climate and higher chance of severe weather events (extreme heat, wildfires, floods) can disrupt the network, particularly in areas of the County that are dependent on a single major artery (e.g. I-15) or limited arterial network (e.g. the mountains). ZEV adoption is critical to meeting state climate goals and addressing air quality issues.

Strategic Priorities:

- Encourage development of redundancy across the network as well as projects which improve the operational resiliency of major arteries.
- Take advantage of Brightline West as an alternative to I-15 commuting by coordinating connections to San Bernardino Valley and Victor Valley destinations to achieve competitive travel times.
- Collaborate with the private sector to accelerate the transition to clean trucks through zeroemission charging and fueling initiatives.

- Transition bus and other transit services to zero-emission operations in compliance with state mandates
- Support development of hydrogen production hubs in the Inland Empire
- Prioritize state of good repair on major highways and arterials to protect against damage from extreme weather events.
- Establish procedures for evacuations and accessibility in emergency situations

9.4 Disadvantaged Communities

San Bernardino County includes many areas considered disadvantaged according to state and federal criteria, including low-income and limited-English speaking populations as well as areas burdened with unfavorable environmental conditions such as poor air quality. Car ownership can be a financial burden for members of these communities, particularly given recent high inflation rates, but limited, infrequent transit service and the dispersed nature of the County make it difficult to get around without a car. Residents and workers in these communities often contend with high volumes of freight traffic, limited non-auto connectivity, safety concerns, and high housing prices which push people to live far from their jobs.

Strategic Priorities:

- Continue to operate the local bus and demand-responsive transit systems, recognizing their importance to providing basic mobility services to San Bernardino County residents, especially those without access to cars
- Take advantage of state and federal grant programs which highlight equity as a core consideration, including programs for reconnecting communities, zero-emissions transition, and transportation and housing programs.
- Continue, expand and communicate with riders and potential riders about transit fare reduction programs and free fare events for students, seniors, and low-income individuals.
- Prioritize transit, bicycle, and pedestrian improvements to close gaps and provide access along major routes and to key destinations such as transit, schools, other public buildings, and major employment centers which will improve mobility within disadvantaged communities.
- Prioritize inclusive communications strategies that ensure that community-level needs in areas
 of the County considered disadvantaged can participate in transportation planning processes.

9.5 Funding

Funding is critical to improving networks of transit services, first/last mile connections, and roadway state of good repair. Resources available through gas taxes are declining in purchasing power due to inflation, fuel efficiency, and zero-emissions transition. State policy discourages highway capacity expansion, which limits potential for improvements in more rural communities where alternatives to driving are limited. For transit, funding is generally more available for capital improvements, but limited resources are available for funding ongoing transit operations and additional service frequency, which is crucial for transit service expansion and attracting and maintaining riders.

Strategic Priorities:

- Work with state and regional partners to make additional funding available for transit operations.
- For future funding measures, review allocation priorities according to the vision, goals, and priorities outlined in the LRMTP.
- Continue to use excess toll revenues for transit projects and zero-emission initiatives.
- Strengthen partnerships with community-based organizations to garner support for discretionary grant applications and to assist in promoting alternatives to single-occupancy vehicle travel.
- Support local agencies in seeking grant funding for projects to improve mobility.

10 Action Plan

Tables 6 through 10 detail the key actions that SBCTA can take to advance each strategic priority, organized by key issue.

Table 10. Key Actions for Mobility

Strategic Priority	Key Actions		
Further develop the Core Transit Network	 Work with SCRRA to achieve 30-minute daytime headways on the Metrolink San Bernardino Line as a high-frequency transit backbone in San Bernardino Valley and coordinate service planning to provide connections to Brightline West Complete the West Valley Connector BRT project Develop an implementation and funding plan for higher service levels and appropriate transit priority treatments (e.g. transit signal priority) on the Omnitrans priority transit network Invest in Mountain/Desert transit systems based on priorities in the respective Short Range Transit Plans Position the priority transit network to be competitive for additional state and federal funding Pursue operating funds for increased service using strategies described in key issue 5 		
Incorporate Core Network into local land use plans and policies	 Position the Omnitrans priority transit network to be attractive for higher density residential and commercial development, coordinating with local jurisdictions on land use planning Coordinate with transit operators and corridor jurisdictions on land use plans that address state housing targets and local economic development goals along the core transit network 		
Incremental transit enhancements in rural areas	 Identify unmet or underserved needs in rural communities, such as connections from Needles to Arizona for grocery and pharmacy access Secure funding to implement new/enhanced service to meet rural travel needs 		

Develop coordinated program • Build on the Non-Motorized Transportation Plan to define an of first/last mile improvements active transportation priority list and advance project development to position for funding Deliver priority improvements • Develop design guidelines for a tiered mobility hub network that co-locates transit and active transportation amenities such as bike sharing Invest in multimodal Continue to coordinate service planning between transit connectivity and customer providers to schedule convenient connections between experience modes · Actively promote fare integration and adoption of interoperable fare payment and trip planning technology across San Bernardino County and regional public transportation services and modes Invest in physical improvements at bus stops and rail stations to improve rider safety and comfort, such as shelters, benches, and lighting Manage congestion on Transition Valley freeways into a truly managed system by freeways and arterials implementing the San Bernardino County portion of the regional multimodal managed lane system, with dynamic pricing, as included in the RTP/SCS Work with local jurisdictions to maintain the San Bernardino Valley Coordinated Traffic Signal System • Implement the Smart Intersection and Smart Corridor recommendations from the Smart County Master Plan Coordinate overall signal system improvements with priority treatments for the Core Transit Network • Define and deliver priority highway/rail grade separations Promote strong vanpool, Continue and expand partnerships with large and mediumcarpool, and TDM initiatives sized employers to promote multimodal alternatives to single-occupancy vehicle commutes, including telecommuting Continue partnering with regional partners such as RCTC to share data and technology tools to support shared-ride opportunities for long-distance commuters Review transit fare structures and carpool/vanpool programs to provide flexibility that encourages hybrid workers to use alternative modes on days they must travel to an office Promote awareness of mobility alternatives and communicate the quality-of-life benefits of bus and rail transit, vanpool, and carpool as alternatives to driving alone Develop VMT mitigation bank Leverage existing plans and work on strategic priorities to identify multimodal projects that can reduce VMT • Implement the proposed "mode-choice based VMT mitigation bank" to incentivize commuters to reduce their VMT and make VMT credits available for purchase by proponents of highway and development projects

Table 11. Key Actions for Goods Movement

Strategic Priority	Key Actions
Develop plan for designated freight corridors	 Identify potential routes within and between major logistics hubs such as the areas around Ontario International Airport, Southern California Logistics Airport, San Bernardino Internation Airport, the Union Pacific West Colton Yard, and BNSF San Bernardino Intermodal facility Assist jurisdictions with guidelines for implementation of AB 98, to include identification of corridors that may be designated as truck routes Identify improvements to improve safety and operational efficiency along these corridors Work with Caltrans and California Highway Patrol to enhance current incident management and monitoring systems to actively manage traffic along key freight corridors, such as the Cajon Pass Coordinate with local jurisdictions on a set of guidelines and plans to incorporate proposed truck routes into their circulation elements as required by AB98
Collaborate with logistics industry to shift freight from truck to rail, where practical and cost-effective	 Prioritize connections to intermodal facilities in development of designated highway freight corridor plan Collaborate with BNSF and Union Pacific to address key bottlenecks in the freight rail network to increase rail capacity
Accelerate transition to clean trucks	 Partner with logistics and zero-emission charging/fueling companies to accelerate the transition to ZE truck operations and supporting infrastructure needs consistent with the CTC's SB 671 designated zero-emission corridors Partner with the private sector to seek grant funding for ZE trucks and charging/fueling stations Continue to coordinate with local jurisdictions and regional partners to build on goods movement decarbonization efforts such as the Riverside-San Bernardino-Ontario MSA Priority Climate Action Plan Collaborate with state, regional, and local partners to locate and fund hydrogen production hubs and an affordable H2 fueling supply chain to support both the logistic industry and transit needs
Prioritize investments in high- volume highway freight corridors	 Deliver key highway improvements in the Measure I 10-Year Delivery Plan, such as the I-10 and I-15 Corridor Freight and Managed Lane Projects, and strategic improvements on other state highways such as SR-18, SR-62, and US 395 Strategically invest in improvements to key highway freight bottlenecks and that minimize conflict between trucks and other road users, such as the Cajon Pass I-15 Northbound Truck Climbing Lane Extension.

Table 12. Key Actions for Climate Adaptation and Resiliency

Strategic Priority	Key Actions
Encourage redundancy across the transportation network and improve operational resiliency on major arterials	 Implement recommendations from the forthcoming State Route 247/62 Emergency Bypass Study and the Emergency Evacuation Network Study (EENR) Extend the I-15 truck climbing lane through the Cajon Pass Continue development of managed lanes on major corridors such as I-10 and I-15, consistent with regional plans Continue and expand transit partnerships with mountain area resorts to provide an alternative to driving congested routes to, from, and within the mountains
Coordinate connections to Brightline West	 Coordinate with Metrolink and Brightline West to ensure east-west regional connectivity via the Metrolink San Bernardino Line Complete the West Valley Connector and coordinate other public and private bus connectivity to the Rancho Cucamonga, Hesperia, and Apple Valley Brightline stations Deliver the Ontario Airport Connector to create a direct transit connection between the station and the airport Coordinate with Rancho Cucamonga, Ontario, and local employers to implement first/last mile improvements for access to employers and attractions in the West Valley Partner with VVTA to coordinate feeder service to the Apple Valley and Hesperia stations, such as new fixed routes or expansion of Micro-Link on-demand service as appropriate
Accelerate transition to clean trucks	 Partner with trucking and zero-emission fueling/charging companies to accelerate the transition to zero-emission in the SB 671 corridors and for local logistics operations. Seek grant funding for ZE trucking and transit
Transition transit operations to zero-emissions	 Implement transit zero-emission plans, taking advantage of lessons learned as agencies deploy new technologies, in particular regarding operating zero emission vehicles long distances and in hot conditions in the county's rural areas and with steep grades in the Mountain subarea Collaborate with Metrolink to explore technology options for their transition to zero-emission
Support development of hydrogen hubs and fueling	 Complete conversion of Arrow service from diesel to hydrogen fuel cell multiple units Partner with Metrolink, Omnitrans, and VVTA to identify opportunities for leveraging economies of scale in the sourcing of hydrogen fuel Partner with the state and utility industry to site green hydrogen production in accessible Inland Empire locations

Prioritize state-of-good-repair on highways and arterials

- Reinvest new toll revenue into maintaining the managed lane system as well as excess revenue on transit, zeroemission and affordable housing
- Replace key rural bridges to restore and maintain access, such as those on the National Trails Highway and in Baker
- Collaborate with Caltrans and local jurisdictions on criteria for prioritizing maintenance of alternate routes need for incident traffic management and emergency evacuation

Establish emergency procedures

- Complete the Emergency Evacuation Network Resilience Study in cooperation with WRCOG and partner to implement key recommendations of the study
- Aid transit agencies, where possible, during periods of emergencies due to extreme events such as fire and flooding, as they support evacuation of local residents (and their pets) to safe centers and evacuation shelters.
- Collaborate with local and state emergency service agencies to stablish and maintain strong and clear communication pathways so that in times of emergency, San Bernardino County residents are knowledgeable about where to turn for immediate transportation-related information

Table 13. Key Actions for Disadvantaged Communities

Strategic Priority

Key Actions

Continue to operate the local bus and demand-responsive transit systems that particularly serve residents without access to cars

- Analyze potential impacts of major transit investments on transit service to disadvantaged communities
- Provide adequate maintenance, security, schedule information and cleanliness at local bus stops
- Consider needs of all users as electronic fare payment systems are further developed

Take advantage of available funding focused on disadvantaged communities

- Deliver transit priorities identified in the LRMTP that particularly benefit disadvantaged communities
- Ensure that transit and TDM programs are highlighted at employment sites where lower-wage workers tend to be employed
- Take advantage of equity-oriented programs like RAISE and the Reconnecting Communities Pilot
- Continue to leverage state GHG reduction fund sources such as TIRCP and SB 1 funds such as TCEP to accelerate the ZE transition

Free and reduced fare Expand targeted programs to improve transit affordability for students, seniors, and low-income individuals programs Promote electronic fare payment options, particularly to support fare-capping, including for low-income individuals who otherwise pay more for successive trips than the cost of a monthly pass • Communicate fare incentives to the public Prioritize multimodal • In developing the Core Transit Network, prioritize corridors improvements to improve that connect disadvantaged communities to key destinations mobility in disadvantaged • Invest in high-comfort off-street active transportation communities corridors such as the Santa Ana River Trail, Pacific-Electric Trail, and San Sevaine Bicycle/Pedestrian Trail • Build on the Non-Motorized Transportation plan to deliver improvements in disadvantaged communities Prioritize inclusive • Translate promotional materials, trip planning information, communications and other information on SBCTA programs into the most common languages for the targeted audience • Develop target-group focused communications strategies such as to seniors, to rideshare commuters, to potential transit users - that can promote mobility choices. Use the Public & Specialized Transportation Advisory and Coordination Council (PASTACC) to coordinate delivery of

services to disadvantaged communities.

Table 14. Key Actions for Funding

Strategic Priority	Key Actions
Secure additional state and regional funding for transit operations	 Increase availability and flexibility of future Measure I funding for use in transit operations Lobby for greater predictability of state and federal transportation revenue streams and flexibility to use new and existing state and federal transportation funding sources for operating expenses
Align future funding sales tax measures with the priorities of the LRMTP	 Ensure that a potential Measure I renewal or additional tax measure would allow the key actions for the strategic priorities as eligible expenditures, including capital investments for all modes and ongoing operating costs for transit Ensure that a potential Measure I renewal provides flexibility in future allocations to allow SBCTA and its partners to adapt to the uncertain future and changing investment needs
Use excess toll revenue for transit improvements	 Identify transit needs along planned express lane corridors such as I-10 and I-15 and fund solutions with toll revenue Expand use of tolled express lanes to manage congestion while providing additional revenue for investment in alternate modes of travel

- Maintain relationships with CBO leaders and business sector partners
- Leverage CBO and private sector contact networks to disseminate information in a targeted manner and collect feedback from communities and businesses affected by projects
- Leverage CBO and business sector networks to disseminate information about new and existing multimodal services and incentives available to the public

Support local agency grant pursuits

- Monitor grant funding opportunities at federal, state, and regional levels and collaborate with local partners on grant pursuits
- Provide technical support for local grant applications

11 Key Funding and Strategic Observations

The overall transportation funding picture and transportation strategy for San Bernardino County can be summarized as follows:

- 1. The projects and programs in the 10-Year Delivery Plan are fully funded except where it is noted that grant funding will be needed to fill the final funding gaps and subject to contractor bid results.
- 2. The projects and programs that can be implemented beyond the 10-Year Delivery Plan and with the Baseline Level of funding are relatively limited.
- 3. While it is assumed that a Measure I extension will occur to fund projects and programs beyond 2040, only a limited amount of that funding may be accessible or able to be committed as part of the Baseline Level of funding (via bonding or Project Advancement Agreements) prior to 2040.
- 4. While an extension of Measure I in perpetuity beyond 2040 (together with grants) may be able to eventually fund most of the projects identified for the Aggressive Level of funding, the projects will likely need to be spread over a long period of time. Preliminary cost estimates indicate that the funding streams will not be able to fund the magnitude of these projects in a compressed timeframe, such as 20 years.

SBCTA and its local jurisdiction and transit agency partners have made a remarkable amount of progress in expanding transit, shared-ride services, and active transportation over the last 10 years, and that progress will continue. Substantial achievements have also been made in the transition to zero-emission vehicles, including the first hydrogen-fueled trainset in the U.S. and multiple charging/fueling stations for zero-emission trucks. These advancements in transportation and clean vehicles are important for providing mobility for both disadvantaged communities and for residents and businesses overall. This multimodal and sustainability approach is consistent with the guiding principles of CAPTI and goals of the 2050 California Transportation Plan.

Alongside progress in these alternative modes, it is important to complete the network of freight and managed lane projects identified in the 2024 SCAG RTP/SCS and the preceding three RTP/SCSs. San Bernardino County and the region will continue to grow, and the LRMTP scenario tests described in Section 7 demonstrate that increases in VMT from growth will outstrip the amount of VMT mitigation

that can be accomplished through trip reduction strategies (i.e. telework, transit, shared rides, active transportation, etc.), even with SBCTA's very proactive approach to VMT reduction.

Virtually every freeway project and many interchange projects directly help keep the logistics-based portion of the county's economy moving. It is important that this progress continue for the future mobility of San Bernardino County residents, many of whom work in these industries, and for the success of the region's businesses. It is a balanced approach, with a primary focus on system management and alternate modes. Where freeway capacity is being increased, it is always as a part of the regional managed lane strategy, which also enables incentives for transit and shared rides. These projects will also spin off revenue for transit and zero-emission investments. The freeway projects are a critical part of SBCTA's multimodal strategy, and the state cannot expect that the managed lanes can be created just by converting an existing general purpose lane. The County's residents and businesses will not tolerate the additional congestion that would result, and sales tax measures that take already-congested general purpose lanes out of service are not electorally viable.

If SBCTA's multimodal and sustainability advancements are to continue, more attention will need to be given at the state and federal level to funding for transit operations. SBCTA and its partners can build additional transit services only to the extent that there is funding to operate them. This is the primary limitation to achieving the aspirational goals of CAPTI and the 2050 CTP. At the same time, mobility must be maintained for the flow of goods within and through San Bernardino County. The global supply chain runs through San Bernardino County, for both exports and imports, and a balanced, multimodal system is critical not only for the future of San Bernardino County, but for the state and the region.