








# CalSTA Transit Transformation Task Force (TTTF) Meeting #2

February 29, 2024

# Agenda for today

 Upcoming section

| Topic   | Objectives  | Time       |
|---|---|------------|
| <b><i>Virtual welcome from the Secretary of Transportation – Toks Omishakin</i></b>   |   | 5 minutes  |
| <b><i>Welcome from Sacramento Area Council Governments (SACOG) – Kristina Svensk</i></b>  |   | 5 minutes  |
| <b><i>Public comment</i></b>  |   | 10 minutes |
|  <b>Review the Transit Transformation Task Force (TTTF) Goals and Objectives</b>   | Align on Goals and Objectives   | 10 minutes |
|  <b>Review California's goals and what they imply for transit ridership</b>  | Review California's sustainability goals<br>Translate goals into what they could mean for increased transit ridership<br>Illustrate how goals could vary across illustrative CA corridors | 45 minutes |
|  <b>Review case studies</b> that might provide examples of how California can transform transit ridership               | Share case studies of similar geographies that have achieved transformative increases in transit ridership  | 35 minutes |
|  <b>Preview next steps, including the cadence of task force meetings and preparation required for the next meeting</b> | Present full journey for completion of the TTTF report<br>Preview agenda and homework to be completed for next TTTF meeting on April 9 <sup>th</sup>                                      | 10 minutes |

Total: 2 hours

Source: California State Transportation Agency (CalSTA) RFO #23-02; discussions with CalSTA and Caltrans Dec. 2023 – Feb. 2024







# Welcome to Sacramento

Sacramento Area Council Governments (SACOG)

Source: [Visit Sacramento](#)





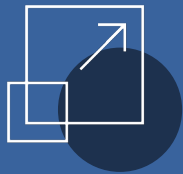
# Public comment

# Our discussions in these task force meetings aim to be...



## Aspirational

Think big: all ideas are on the table for discussion



## Unconstrained

Assume no resourcing or capacity constraints today

*Costs and funding will be the focus of upcoming TTTF meetings*



## Positive

Consider the merit of all ideas; do not judge ideas prematurely



## Equitable

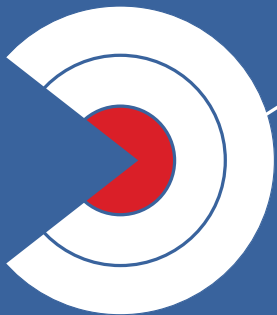
Treat every idea or opinion as equally valuable to the discussion



## Focused

Attend to the intended discussion topic; be focused on the outcomes for today's session

Clarify areas of further investigation for future sessions



Source: California State Transportation Agency (CalSTA) RFO #23-02; discussions with CalSTA and Caltrans Dec. 2023 – Jan. 2024



A Los Angeles streetcar in the 1930s

**Public transit created the original cities  
and streetcar suburbs of California**

**... and in the 21<sup>st</sup> century, public transit can once again be the mode of  
choice, by innovating with its existing assets, to shape a sustainable and  
prosperous future for California**

# The Transit Transformation Task Force is an opportunity to focus on a level of change that is transformational for transit across California



## Aspiration

### From incremental ...

How do I achieve **pre-COVID ridership**?



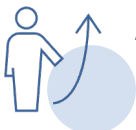
## Constituency

How can transit **ridership grow in my region each year**?



## Constraints

**What can I do in my role** to deliver for transit?



## Approach

How much funding will be necessary to **support** this goal?

Source: California State Transportation Agency (CalSTA) RFO #23-02; discussions with CalSTA and Caltrans Dec. 2023 – Feb. 2024

### ... to transformational

How can **transit** attract new customers and become the mode of choice?

What would it take to **serve the majority of trips** in urbanized areas via transit?

**How can we collectively collaborate** differently to best support the customer, given our current assets and future investments?

What radical shifts in operations or availability could be made to **scale service exponentially**?

# Our question to answer for the next 18 months together


## What will it take to achieve transformative change in transit?





Source: California State Transportation Agency (CalSTA) RFO #23-02; discussions with CalSTA and Caltrans Dec. 2023 – Feb. 2024





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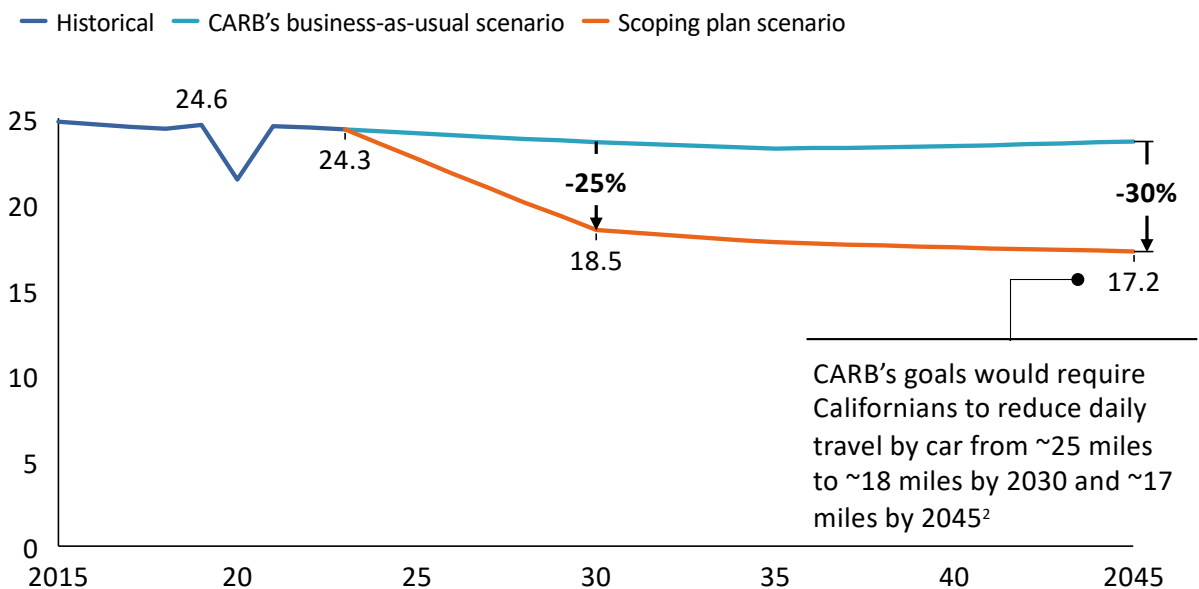


## As part of California's plan to reach mandated carbon neutrality by 2045, CARB targets a reduction in VMT of ~30% of 2019 levels by 2045

CARB's 2022 Scoping Plan sets carbon neutrality by 2045 as its target

The Scoping Plan projects that a **significant reduction in vehicle miles traveled** is required to meet carbon neutrality

### Passenger Vehicle VMT Per Capita (miles/day/person)<sup>1</sup>



1. Targets reflect CO<sub>2</sub> emissions only from light duty passenger vehicles within California's 18 MPO1 regions, which together account for 81% of the statewide light-duty VMT

2. Considers that ~30% of light-duty vehicles on the road in 2045 will still burn fossil fuels even with all new car sales being ZEVs by 2035 through implementation of CARB's Advanced Clean Cars II regulations

Source: The California Air Resources Board, Regional Plan Targets

This thought exercise examines some paths to reduce VMT by 30% through mode shift to transit

## Potential different paths to reduce VMT:



Shift trips from cars to **another mode**



**Reduce the number of trips** per person



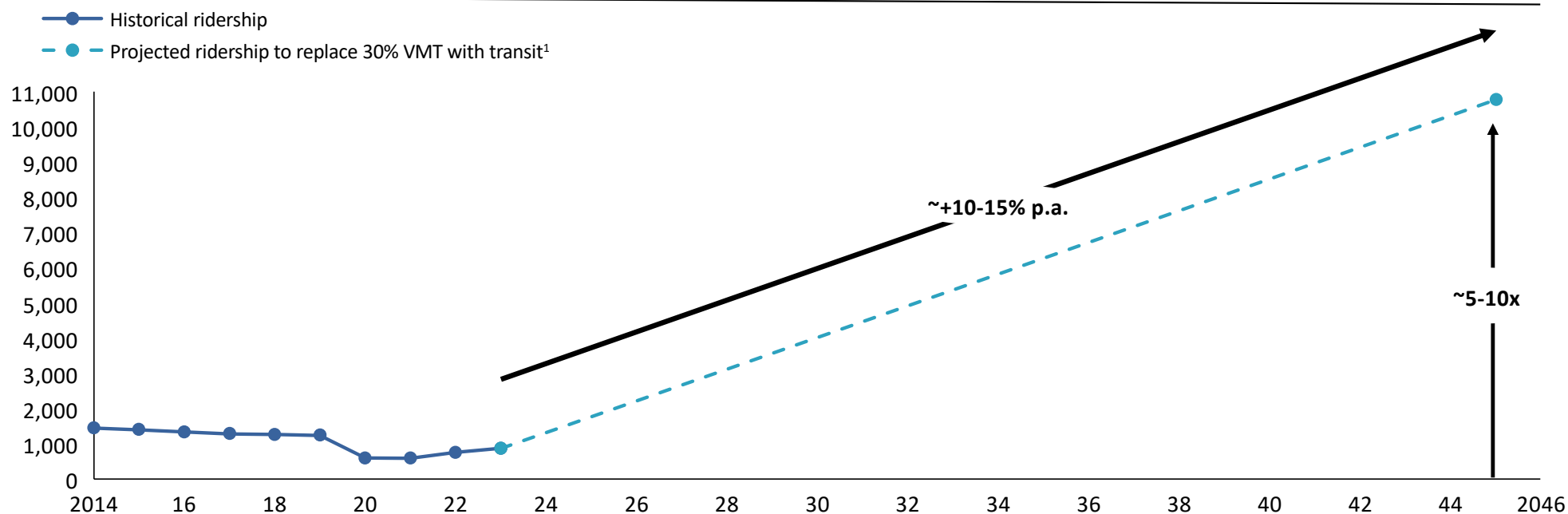
**Reduce trip length**



How much would transit ridership need to grow to reach CARB targets, solely from a mode shift to transit?

## Achieving VMT targets through shifting to transit means California would need a ~5-10x ridership increase from pre-COVID levels by 2045

### California transit annual ridership, millions



1. Assumes a one-for-one replacement of current automobile trips with transit trips; induced demand from reduced vehicular traffic is not considered

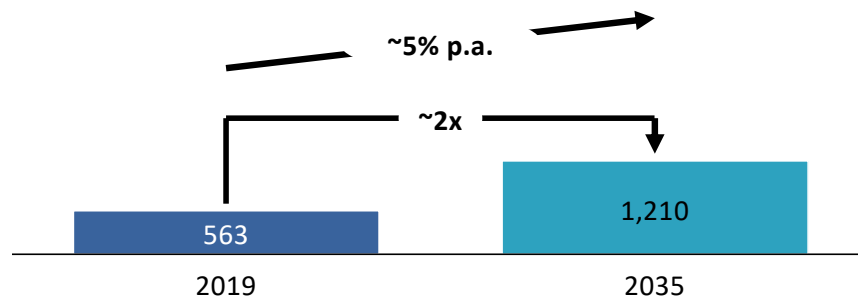
Source: California State Transportation Agency (CalSTA) RFO #23-02; discussions with CalSTA and Caltrans Dec. 2023 – Feb. 2024



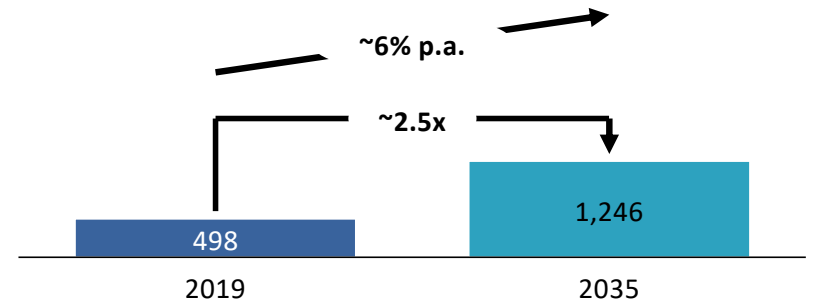
■ Historical <sup>1</sup>     ■ Projection: Sustainable Communities Strategies<sup>2</sup>

## Approximate projected annual transit rides of big 4 MPOs, billions

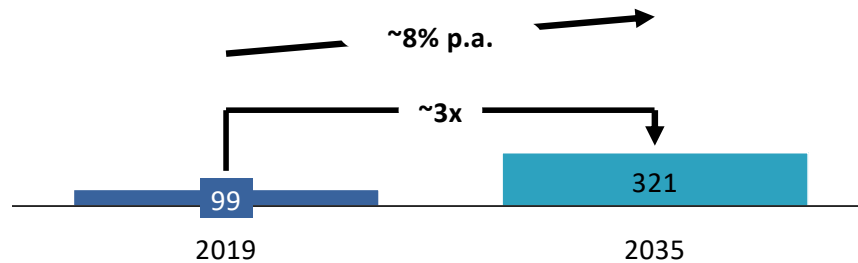
### Southern California Association of Governments



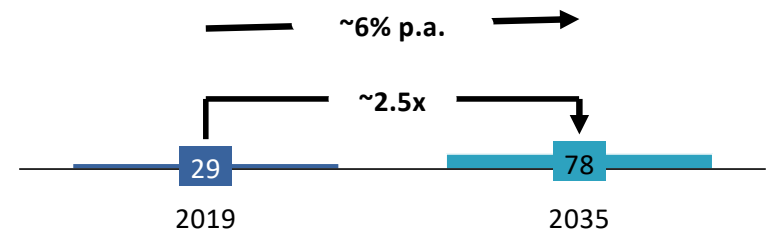
### Association of Bay Area Governments



### San Diego Association of Governments



### Sacramento Area Council of Governments



1. Estimation from transit rides per person per year reported by CARB in 2019 and 2022 population estimates from census tract data | 2. Calculated from targets set for 2035 relative to 2016 levels in regional SB 375 compliance plan

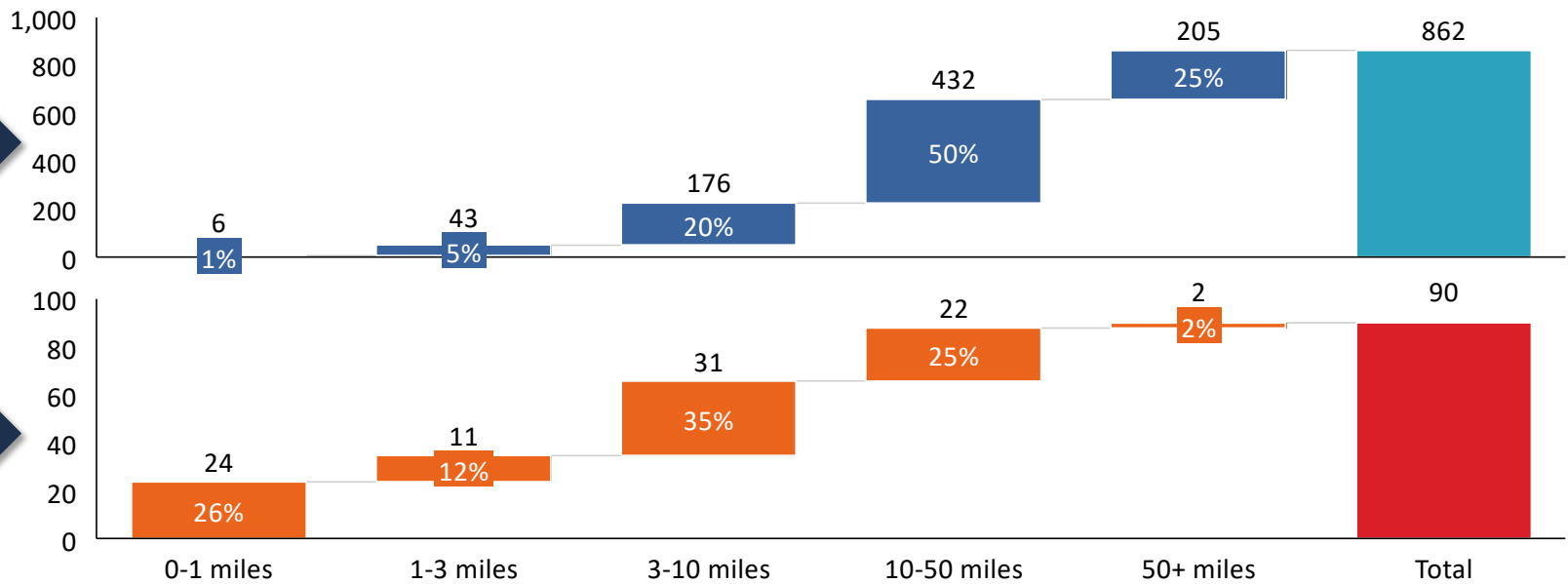
Source: [SB 375 Regional Plan Climate Targets landing page](#), [SB 375 Appendix A: MPO and CARB staff recommendations](#), [Evaluation of ABAG SB 375 strategy](#), [Evaluation of SANDAG SB 375 strategy](#), [Evaluation of SCAG SB 375 strategy](#), [CARB Sustainable Communities SB150 Dashboard](#), discussions with CalSTA and Caltrans Dec. 2023 – Feb. 2024



# Not all VMT would need to shift to urban transit; potential target may be closer to 4-6x pre-COVID levels

## California light vehicle travel patterns in 2023

Daily vehicle miles travelled by trip distance, millions



Daily auto trip counts by trip distance, millions

Potential mode shift

Walking and biking

Local, high-frequency bus, BRT, light-rail, heavy rail

Regional and commuter rail

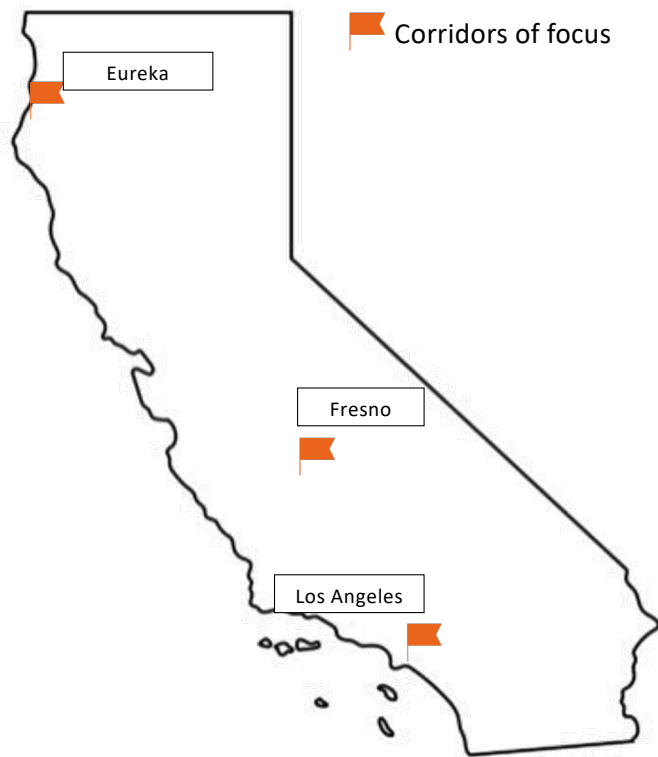
High-speed and intercity rail

Source: [The California Air Resources Board](#); California State Transportation Agency (CalSTA) RFO #23-02; discussions with CalSTA and Caltrans Dec. 2023 – Feb. 2024



## Three example corridors illustrate what a 30% reduction in VMT, and 4-6x increase in transit usage, looks like

3 corridors across California were analyzed to show what it may take to reduce VMT by 30%

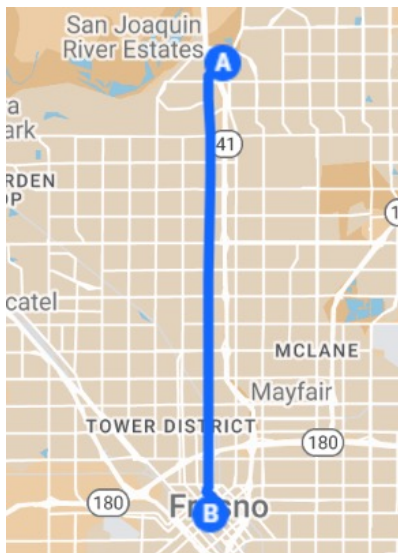


Corridors were selected to reflect a diversity of travel patterns across California, e.g.:

- 1 **Geographic region:** Three regions were analyzed, including Southern California, Central Valley, and the North Coast
- 2 **Length of trip:** Range from 1-3 miles, 3-10 miles, and 10-50 miles
- 3 **Types of city:** Large, medium, and small cities
- 4 **Existing modes:** Bus and rail
- 5 **Capital investment underway:** Corridors with and without current or planned capital investment in infrastructure were evaluated

# Illustrative example: N. Blackstone Ave in Fresno between Woodward Station and downtown would require 4-6x new transit trips by 2045 to meet CARB goals

## Corridor of focus<sup>1</sup>



A B Represent start and end points of corridor

### Corridor description

~10- mile corridor on N. Blackstone Ave. in Fresno serviced by a Route 1 bus rapid transit route (BRT)<sup>2</sup>



Fresno Area Express Route 1 bus<sup>3</sup>



### Current state

**200 – 300K** Average daily automobile trips within corridor (2023)<sup>4,5,6</sup>

**5 – 10K** Estimated average daily transit ridership (2018-2019)<sup>2</sup>



### Potential future state

**+30 – 40K** Increase in daily transit customers from today on this corridor needed to meet CARB goals<sup>4,6</sup>

**35 – 50K** 2045 total daily transit ridership on this corridor needed to meet CARB goals<sup>4,6</sup>

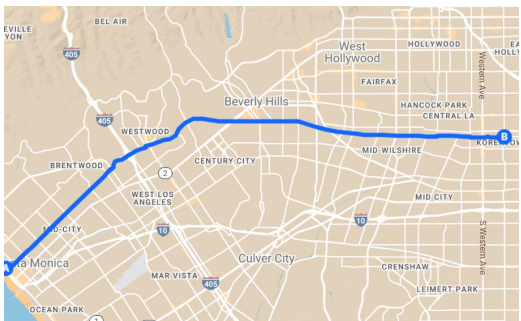
Source: 1) [Google Maps](#); 2) [City of Fresno](#); 3) [GVWire](#); 4) Discussions with CalSTA and Caltrans Dec. 2023 – Feb. 2024; 5) Assumes trips are equivalent to average daily vehicle miles traveled (VMT) divided by median trip length of 1.5 miles; 6) Replica; 7) [US Census Bureau](#); 8) [USA World Media Group](#); 9) [Fresno Council of Governments](#); 10) [National Center for Sustainable Transportation](#)





# Illustrative example: Wilshire Boulevard between Santa Monica and Koreatown would need ~3x more transit trips by 2045 to meet CARB goals

## Corridor of focus<sup>1</sup>



A B

Represent start and end points of corridor

## Corridor description



Purple (D-Line) proposed extension<sup>2</sup>

~12.5-mile corridor, serviced by traditional bus routes (Routes 720 and 20), runs between Santa Monica and Koreatown<sup>2</sup>



## Current state

600 – 700K

Average daily automobile trips within corridor (2023)<sup>3,4,5</sup>

25 – 30K

Estimated average daily transit ridership (2022)<sup>3</sup>



## Potential future state

+75 – 80K

Increase in daily transit customers from today on this corridor needed to meet CARB goals<sup>3,4</sup>

100 – 110K

2045 daily transit ridership on this corridor needed to meet CARB goals<sup>3,4</sup>

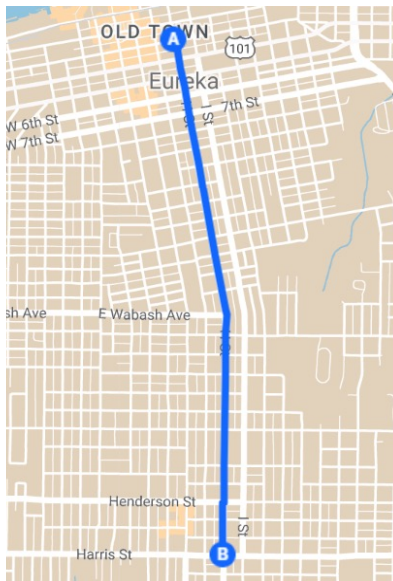
The **Purple (D Line) Extension** expects an **additional 50k daily boardings on D-Line attributable to extension project**<sup>13</sup>

Source: 1) Google Maps; 2) LA Metro Westside Projects; 3) Discussions with CalSTA and Caltrans Dec. 2023 – Feb. 2024 ; 4) Assumes trips are equivalent to average daily vehicle miles traveled (VMT) divided by median trip length ; 5) Based on July 2022 monthly ridership by line; 6) US Census Bureau ; 7) California Demographics; 8) USA World Media Group; 9) City of Beverly Hills; 10) National Center for Sustainable Transportation ;11) Based on July 2022 monthly ridership by line; 12) Purple Line Extension Final Supplemental Environmental Impact Statement



# Illustrative example: H Street Corridor, running South from Old Town Eureka, would require ~10-20x new transit trips by 2045 to meet ~30% reduction in VMT

## Corridor of focus<sup>1</sup>



A B Represent start and end points of corridor

## Corridor description

**~2-mile** corridor connecting Old Town and residential neighborhoods, serviced in part by **Eureka Transit Service purple bus line route<sup>2</sup>**



*Eureka Transit Service purple line, currently serving H Street corridor<sup>2</sup>*



## Current state

**65 – 70K** Average daily automobile trips within corridor (2023)<sup>3,4,5</sup>

**~1 – 1.5K** Estimated average daily transit ridership (2022)<sup>5</sup>



## Potential future state

**+15 – 20K** Increase in daily transit customers from today on this corridor needed to meet 30% VMT reduction<sup>3,4</sup>

**16 – 21.5K** 2045 total daily transit ridership on this corridor needed to meet 30% VMT reduction<sup>3,4</sup>

Source: 1) [Google Maps](#); 2) 1.4 of 2 miles of H Street Corridor are served by Purple Route - Eureka Transit Service; 3) Discussions with CalSTA and Caltrans Dec. 2023 – Feb. 2024; 4) Replica; 5) Assumes trips are equivalent to average daily vehicle miles traveled (VMT) divided by median trip length of 1.5 miles; 6) Includes ridership on Eureka Transit Service, Redwood Transit Southern Humboldt Intercity, all which provide service through Census tracts – [Humboldt Transit Authority](#); 7) [Eureka Transit Service](#); 8) [US Census Bureau](#); 9) [USA World Media Group](#); 10) [Humboldt County](#); 11) [National Center for Sustainable Transportation](#)








# Discussion questions

**What are the challenges and constraints that we will need to investigate and address in order to achieve this level of ridership by 2045?**

*If you would like to share any reports, data, studies, and/or surveys which might be relevant to this work, please send them to [SB125Transit@calsta.ca.gov](mailto:SB125Transit@calsta.ca.gov)*

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# California's peer cities achieve higher transit ridership per capita and have similar densities and development patterns

## Vancouver | Bay Area

### 2x ridership per capita

Vancouver has similar urban area density to San Francisco and achieves nearly 2x higher ridership with ~3x fewer miles of rail

## Winnipeg | Fresno

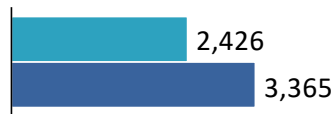
### 6x ridership per capita

Winnipeg has similar population and density to Fresno and achieves 6x higher transit (pre-COVID) with a bus-only network

Vancouver and Winnipeg are able to achieve higher ridership per capita than their peer cities through:

- Frequency
- Bus network coverage
- Network integration
- Transit-oriented development

Urban Area (UA)  
population (M)<sup>1,2</sup>



UA density  
(pop/sq mi)<sup>1,2</sup>



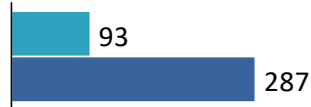
Urban Area (UA)  
population (M)<sup>1,2</sup>



UA density  
(pop/sq mi)<sup>1,2</sup>



Miles of rail (mi)<sup>3,4</sup>



Ridership per capita  
(UA / PC)<sup>5,6</sup>



Miles of rail (mi)<sup>7</sup>



Ridership per capita  
(UA / PC)<sup>5,8</sup>



Source: 1) US Census 2020 1-year estimates, for Urbanized Areas; 2) Statistics Canada Census Profile, 2021 Census for Population Centers; 3) Vancouver miles of rail includes SkyTrain (49.72 total track miles) and West Coast Express (42.88 total track miles) – [Daily Hive](#), [Daily Hive](#); 4) Bay Area miles of rail includes Bay Area Rapid Transit (131.4 total track miles, including 33.5 miles of aerial track, 65.1 miles of track at grade, 32.8 miles of subway track), CalTrain (78.5 total track miles, including 71.5 miles of standard-gauge track, 7 miles of light rails), and SFMTA (77 total track miles, including 51 miles owned by JPB, 26 miles owned by Union Pacific) – [National Transit Database](#); 5) 2022 Ridership, unlinked passenger trips – [BART](#), [SFMTA](#), [Caltrain](#); 6) 2022 Ridership, unlinked passenger trips [APTA](#); 7) Winnipeg and Fresno are bus-only networks - Winnipeg Transit Open Data Web Service Transit; 8) 2022 Ridership, unlinked passenger trips - [CTV News](#)

**Vancouver and San Francisco are both geographically constrained by water and mountains with similar densities of 6 – 7K / square mile**

### **Vancouver**



Vancouver (Getty Images)

### **San Francisco**



San Francisco (Getty Images)

Source: Translink ridership ([Translink](#)), SF Buses include Muni, AC Transit, SamTrans, VTA, and Golden Gate Transit; SF Rail includes Muni, BART, CalTrain, and VTA ([SF Chronicle](#))

## Vancouver's high-frequency, integrated network serves riders in both the core and suburbs, helping achieve 2x the per capita ridership of San Francisco

Source: Translink ridership ([Translink](#)), SF Buses include Muni, AC Transit, SamTrans, VTA, and Golden Gate Transit; SF Rail includes Muni, BART, CalTrain, and VTA ([SF Chronicle](#)), BC Gov News 'Legislation introduced to deliver more homes near transit hubs'



### Frequency

Skytrain's automated large-scale network means all day high frequencies (2-3 minutes during peak, 5 min off peak)

An extensive high-frequency bus network exists, including 99B - the busiest bus route in North America – which peaks at 3–5-minute headways

Seabus ferry system operates every 15 min or less all day



### Network integration

Ferry, bus, and rail networks are integrated to encourage ridership inside and outside the core

19% of suburban residents commute on transit, compared to 4% in the Bay Area



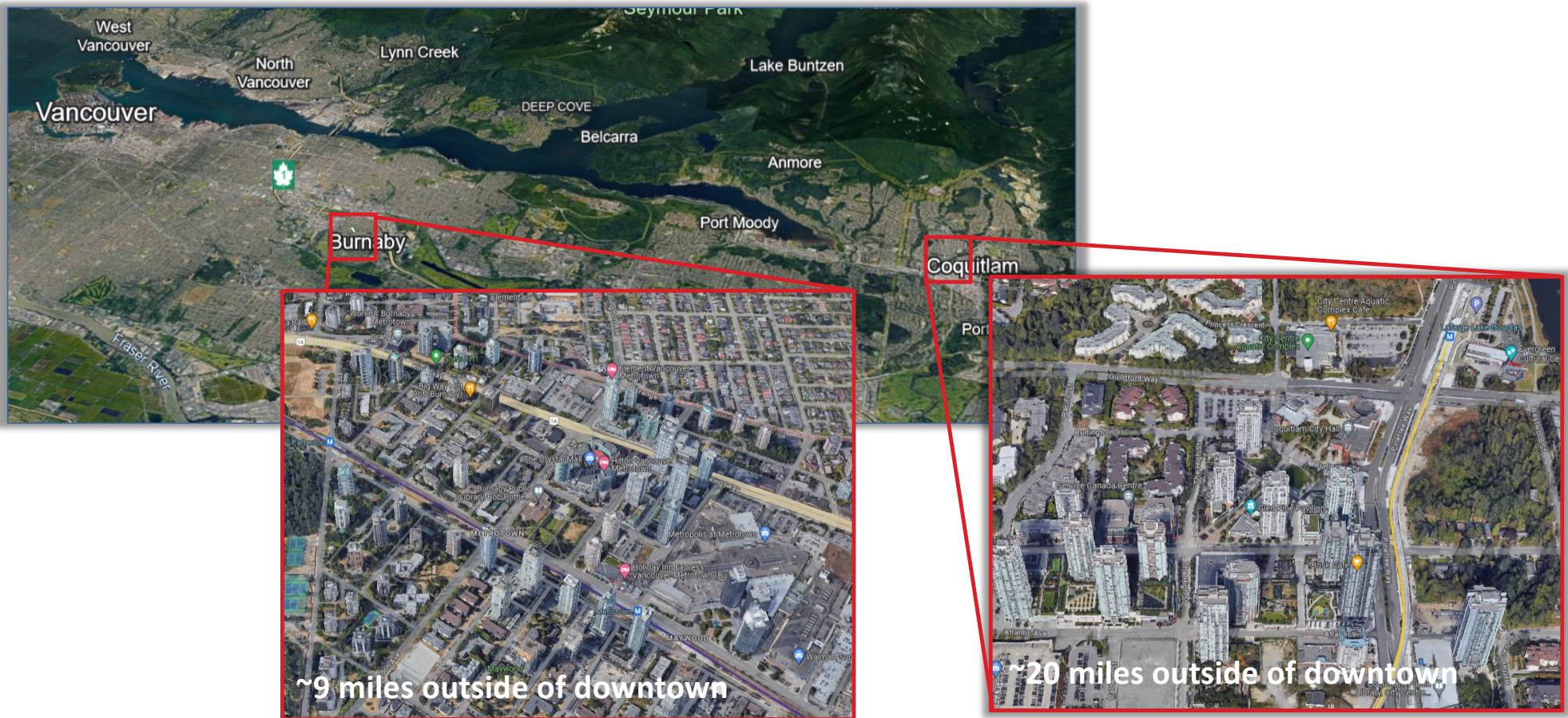
### Transit-oriented development

Stations outside the core are built up with housing to ensure transit accessibility

Since 2017, Vancouver has delivered 77,000 units of TOD housing and plans to complete an additional 100,000 new units near 52 stations by 2030



## Example: Vancouver builds transit-oriented development along transit lines in the suburbs



Source: Google Earth



**Winnipeg and Fresno are both mid-sized inland cities with a population density of ~5K/square mile, with a small urban core surrounded by lower-density sprawl**

**Fresno**



Fresno (Google Earth)

**Winnipeg**



Winnipeg (Google Earth)

Source: Winnipeg Transit Master Plan; Fresno County Rural Transit Agency Transit Productivity Evaluation Fiscal Year 2022; US Census Bureau American Community Survey 2023 1-year estimates, Google Earth

**Winnipeg focused on improving bus transit in key corridors and integrating its entire network, which helps it achieve 6x the transit ridership per capita of Fresno**

Source: Winnipeg Transit Master Plan; Fresno County Rural Transit Agency Transit Productivity Evaluation Fiscal Year 2022; US Census Bureau American Community Survey 2023 1-year estimates



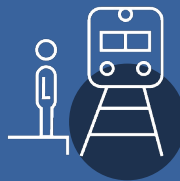
### Frequency

Winnipeg currently has 30M vehicle revenue miles—6x that of Fresno—and is transitioning to 15-minute headways or better throughout the day on all routes



### Coverage




Creation of a new core busway connects downtown to the university  
Redesigned routes accommodate 80% of trips between areas outside of Downtown



### Network integration

Introduction of a secondary feeder network (connector routes, community routes, on-demand service) enhanced system integration and increased trip efficiency by 25%

## In California, many local transit agencies are already beginning to achieve the step changes necessary to meet the CARB goals

| Example   | Actions taken  | Impact  |
|---|--|---|
| <b>Santa Cruz</b><br>      | <p>Currently reimagining bus routes and frequencies to better meet community needs, including<sup>1</sup>:</p> <ul style="list-style-type: none"> <li>• More direct service to nearby towns, including direct service to UCSC from Live Oak and Capitola Mall</li> <li>• Express service from Watsonville direct to Santa Cruz during the weekday peak commute</li> <li>• Higher frequency at UCSC (e.g., every 15 min on Routes 18 and 19)</li> <li>• Service later into the evening on key routes</li> </ul> | <p><b>37% increase</b></p> <p>As of December 2023, year-over-year UCSC ridership up 37%<sup>6</sup></p> <p><b>&gt;7M annual ridership</b></p> <p>Planned increase in total ridership to &gt;7M rides per year<sup>1</sup></p> |
| <b>San Diego</b><br>      | <ul style="list-style-type: none"> <li>• Bus on shoulder pilot project allows South Bay Rapid 225 bus to enter select shoulders to bypass vehicle congestion during peak travel times<sup>2</sup></li> <li>• Buses equipped with enhanced safety technology features (e.g., blind spot warning)<sup>2</sup></li> </ul>   | <p><b>2.5M passengers</b></p> <p>Expected increase to Rapid 225 ridership (I-805 and State Route 94 between Downtown and Otay Mesa) during 3-year pilot program<sup>3</sup></p>   |
| <b>San Francisco</b><br> | <ul style="list-style-type: none"> <li>• Established San Francisco's first Bus Rapid Transit (BRT) system on Van Ness Avenue, including<sup>4</sup>: <ul style="list-style-type: none"> <li>– Dedicated transit lanes</li> <li>– Enhanced traffic signals for buses</li> </ul> </li> </ul>   | <p><b>60% in &lt;1 year</b></p> <p>Increase in ridership on 49 bus (from January – September 2022)<sup>5</sup></p>  |


Source: 1) [Santa Cruz Metro](#); 2) [San Diego MTS](#); 3) Assumes 100 passengers per peak period, 2 peak periods per day, 3 years of service - [SANDAG](#); 4) [SFMTA](#); 5) [San Francisco Chronicle](#); 6) [UCSC](#)







# Discussion questions

**Given the diversity of California, what one or two elements of the transit experience would need to change to achieve 2-3X more ridership in 5-10 years?**

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## Draft topics for Transit Transformation Task Force meetings over the next year

 Diagnostic phase  
 Design phase


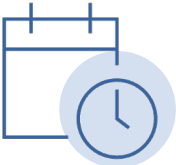
|    | Meeting theme  | Potential dates | Potential locations     | Duration |
|----|--|-----------------|-------------------------|----------|
| 1  | Introduction   | Dec 19, 2023    | Virtual                 | 2 hours  |
| 2  | What outcomes does transit need to achieve by 2030 to achieve State mandates?                    | Feb 29, 2024    | Sacramento, CA          | 2 hours  |
| 3  | What would need to change for transit to meet those goals?                                       | Apr 9, 2024     | San Diego, CA           | 4 hours  |
| 4  | What level/types of service do these outcomes require?   | June 17, 2024   | San Francisco, CA       | 4 hours  |
| 5  | What does this level of service imply for <b>OpEx spend, workforce and employee engagement</b> ? | Aug 29, 2024    | Los Angeles, CA         | 4 hours  |
| 6  | What does this level of service imply for <b>CapEx spend</b> ?                                   | Mid-Oct 2024    | Salinas / Monterey, CA  | 4 hours  |
| 7  | How can this level of OpEx and CapEx be <b>funded</b> ?  | Dec 10, 2024    | Clovis (Fresno), CA     | 4 hours  |
| 8  | What <b>prioritized topics</b> and draft decisions should be included in the report?             | Early Feb 2025  | Riverside, CA           | 4 hours  |
| 9  | Draft report review <sup>1</sup>   | April 2025      | Sacramento, CA          | 4 hours  |
| 10 | Final report briefing before submission <sup>1</sup>   | Sept 2025       | San Francisco, CA (TBD) | 4 hours  |

1. Final report due to legislature October 31, 2025

Source: California State Transportation Agency (CalSTA) RFO #23-02; discussions with CalSTA and Caltrans Dec. 2023 – Jan. 2024



## Operating model: How the Transit Transformation Task Force (TTTF) and Technical Working Group (TWG) will work together

|   | Transit Transformation Task Force (TTTF)  | Technical Working Group (TWG)  |
|---|---|--|
| <b>Responsibilities</b><br>  | <ul style="list-style-type: none"><li>• Direct the overall effort</li><li>• Clarify areas of future investigation for TWG</li><li>• Make recommendations based on analysis from TWG across key topics that will form the legislative report</li><li>• Review and sign onto final report</li></ul> | <ul style="list-style-type: none"><li>• Support data analysis and provide technical expertise for content ahead of TTTF meetings</li><li>• Provide feedback on draft of final report</li><li>• Iterate report based on public comments</li></ul>                 |
| <b>Engagement model</b><br> | <ul style="list-style-type: none"><li>• Attend and actively participate in nine TTTF working sessions</li><li>• Provide additional direction via written communication</li></ul>  | <ul style="list-style-type: none"><li>• Meet monthly to prepare for TTTF sessions</li><li>• Develop content and conduct analyses to create the basis of the TTTF sessions</li><li>• Attend additional ad-hoc meetings as necessary, on specific topics</li></ul> |

**Goal:** Reimagine the future of transit in the State of California and outline how key stakeholders including the state, regional planning organizations, and local agencies can accomplish that future

## Next steps

**We would appreciate your input on the following 3 topics:**

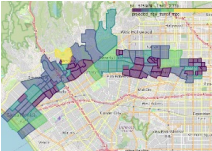
1. Specific challenges (other than funding) you think are preventing increased ridership (e.g., land use)
2. Other goals you view as critical outcomes for the work of the Transit Transformation Task Force (TTTF) (e.g., equity, sustainability)
3. Additional feedback you have on today's three discussion questions

**We will follow up separately to gather your responses by March 18th, which will inform the work of the Technical Working Group (TWG) and content for the next TTTF meetings**

*If you would like to share any reports, data, studies, and/or surveys which might be relevant to this work, please send them to [SB125Transit@calsta.ca.gov](mailto:SB125Transit@calsta.ca.gov)*

# Technical appendix

# Methodology: Corridor analysis

| Analysis steps                    | 1   | 2   | 3  | 4   | 5   | 6   | 7  |
|-----------------------------------|---|---|--|---|---|---|--|
|                                   | <b>Select illustrative corridor</b>   | <b>Determine daily average ridership</b>                                | <b>Determine census tracts that corridor passes through</b>  | <b>Determine current vehicle miles traveled (VMT) for trips within corridor</b>   | <b>Determine VMT reduction recommended</b>  | <b>Determine implied ridership needed to meet CARB goals</b>  | <b>Determine implied additional ridership</b>  |
| <b>Description</b>                | Select corridor with potentially high VMT, selected using publicly available traffic data | Average weekday daily ridership on routes that currently serve corridor | Using US Census data, determine which census tracts the corridor passes through  | Determine average daily VMT and convert to auto trips for trips that originate and end within the census tracts that corridor passes through <sup>1</sup> | Apply ~30% reduction in average daily VMT to determine 2045 goal based on CARB recommendations <sup>2</sup> | Using average length of trip for car and transit travel for census tract, determine total riders needed to offset VMT | Subtract current ridership levels from 2045 ridership needed to determine difference |
| <b>Source</b>                     | <a href="#">California Transit Speed Maps, California State Geoportal</a>                 | Publicly available reports from transit agencies or local governments   | <a href="#">US Census Bureau</a>   | <a href="#">Replica</a> , Caltrans  | <a href="#">The California Air Resources Board</a>  | <a href="#">Replica</a> , Caltrans  | N/A  |
| <b>Sample output: Los Angeles</b> | Willshire Boulevard between Santa Monica and Koreatown                                    | 25 – 30K average daily riders (2018)                                    | Visualization of census tracts included in analysis<br> | 850 – 950K  | 200 – 300K  | 75 – 80K  | 45 – 55K   |

1. Assume there is a uniform percentage reduction across state, but auto trip length varies based on Census tract

2. Assume that census tracts with no transit would not be able to add transit. Therefore, ~30% reduction in VMT to meet CARB goals not applied to all Census tracts.

Source: California State Transportation Agency (CalSTA) RFO #23-02; discussions with CalSTA and Caltrans Dec. 2023 – Jan. 2024; [California Transit Speed Maps, California State Geoportal](#); [US Census Bureau](#); [The California Air Resources Board](#)

