### Caltrain Business Plan

### COVID RECOVERY PLANNING

### UPDATE ON SERVICE RESTORATION

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Citizens Advisory Committee July 21, 2021 Agenda Item 7



Ongoing Recovery Planning Efforts

Caltrain has pivoted its Business Plan effort to focus on COVID-19 Recovery planning. This work is spread across multiple streams as shown on the right

Caltrain staff will engage regularly with the Board, stakeholders and the public as recovery planning proceeds over the next several months



Equity, Connectivity, Recovery, & Growth Framework



**Near Term Service Planning** 



### **Financial Analysis**



**Scenario Planning** 



Ongoing Recovery Planning Efforts

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Equity, Connectivity, Recovery, & Growth Framework



### **Near Term Service Planning**



### **Financial Analysis**



**Scenario Planning** 



## **Context & Background**



### **Pre-Pandemic Caltrain Service**



### Northbound - WEEKDAY SERVICE to SAN FRANCISCO Train No. 101 103 305 207 309 211 313 215 217 319 221 323 225 227 329 231 Gitroy Gitroy 6.06 6.02 7.06 7.15 7.15

|        | Gilroy                  |      |      |      |      |      |       |      |      | 6:06 |      | 6:28  |      |      | 7:06 |      |      |       |       |       |       |       | Gilroy                  |       |      |      |
|--------|-------------------------|------|------|------|------|------|-------|------|------|------|------|-------|------|------|------|------|------|-------|-------|-------|-------|-------|-------------------------|-------|------|------|
| 9 H    | San Martin              | 1    | ML   |      |      |      |       |      |      | 6:15 |      | 6:37  |      |      | 7:15 |      |      |       |       |       | Δ\    | M/    | San Martin              | P     | M    |      |
| ZONE   | Morgan Hill             |      |      |      |      |      |       |      |      | 6:21 |      | 6:43  |      |      | 7:21 |      |      |       |       |       |       |       | Morgan Hill             |       |      |      |
| ŝ      | Blossom Hill            |      |      |      |      |      |       |      |      | 6:36 |      | 6:58  |      |      | 7:36 |      |      |       |       |       |       |       | Blossom Hill            |       |      |      |
| ZONE   | Capitol                 |      |      |      |      |      |       |      |      | 6:42 |      | 7:04  |      |      | 7:42 |      |      |       |       |       |       |       | Capitol                 |       |      |      |
| $\sim$ | Tamien                  |      | 4:55 |      | 5:51 | 5:56 |       |      |      | 6:50 | 6:56 | 7:15  |      |      | 7:53 | 7:59 |      | 8:28  |       | 9:37  |       |       | Tamien                  |       |      |      |
|        | San Jose Diridon        | 4:28 | 5:03 | 5:45 | 5:59 | 6:04 | 6:23  | 6:49 | 6:54 | 6:59 | 7:04 | 7:23  | 7:49 | 7:54 | 7:59 | 8:04 | 8:23 | 8:39  | 9:13  | 9:50  | 10:13 | 11:13 | San Jose Diridon        | 12:13 | 1:13 | 2:13 |
| 4      | College Park            | -    | -    | -    | -    | -    | -     | -    | -    | -    | -    | -     |      | -    | 8:03 |      | -    | -     | -     | -     | -     | -     | College Park            | -     | -    | -    |
| 뜅      | Santa Clara             | 4:33 | 5:08 | -    | 6:06 | -    | 6:28  | -    | -    | 7:06 | -    | 7:28  | -    | -    | 8:08 | -    | 8:28 | 8:44  | 9:18  | 9:55  | 10:18 | 11:18 | Santa Clara             | 12:18 | 1:18 | 2:18 |
| ~      | Lawrence                | 4:39 | 5:13 | -    | 6:12 | -    | -     | -    | -    | 7:12 | -    | 7:34  | -    | -    | 8:15 | —    | -    | 8:50  | 9:24  | 10:00 | 10:24 | 11:24 | Lawrence                | 12:24 | 1:24 | 2:24 |
| $\sim$ | Sunnyvale               | 4:43 | 5:18 | -    | 6:20 | 6:15 | 6:36  | -    | 7:07 | 7:20 | 7:15 | 7:40  | -    | 8:07 | 8:22 | 8:15 | 8:36 | 8:55  | 9:29  | 10:05 | 10:28 | 11:28 | Sunnyvale               | 12:28 | 1:28 | 2:28 |
|        | Mountain View           | 4:48 | 5:23 | 6:01 | 6:25 | -    | 6:42  | 7:05 | 7:12 | 7:25 | -    | 7:46  | 8:05 | 8:12 | 8:28 | -    | 8:42 | 9:00  | 9:34  | 10:10 | 10:33 | 11:33 | Mountain View           | 12:33 | 1:33 | 2:33 |
|        | San Antonio             | 4:52 | 5:27 | -    | 6:29 | -    | -     | -    | -    | 7:29 | -    | -     |      | -    | 8:32 | -    | -    | 9:04  | 9:38  | 10:14 | 10:37 | 11:37 | San Antonio             | 12:37 | 1:37 | 2:37 |
|        | California Avenue       | 4:57 | 5:31 | -    | 6:34 | -    | 6:48  | -    | 7:18 | 7:34 | -    | 7:51  |      | 8:18 | 8:36 | -    | -    | 9:09  | 9:42  | 10:18 | 10:42 | 11:41 | California Avenue       | 12:41 | 1:41 | 2:41 |
| 봉      | Palo Alto               | 5:01 | 5:36 | 6:09 | 6:38 | 6:27 | -     | 7:13 | 7:22 | 7:38 | 7:28 | -     | 8:13 | 8:22 | 8:41 | 8:28 | -    | 9:14  | 9:47  | 10:23 | 10:47 | 11:46 | Palo Alto               | 12:46 | 1:46 | 2:46 |
| ~      | Menlo Park              | 5:04 | 5:39 | -    | 6:41 | -    | 6:54  | -    | -    | 7:41 | -    | 7:56  | -    | -    | 8:44 | -    | 8:51 | 9:17  | 9:50  | 10:26 | 10:50 | 11:49 | Menlo Park              | 12:49 | 1:49 | 2:49 |
| $\sim$ | Redwood City            | 5:10 | 5:44 | -    | 6:47 | 6:33 | 6:59  | -    | -    | 7:47 | 7:35 | 8:02  | -    | -    | 8:51 | 8:35 | 8:57 | 9:24  | 9:57  | 10:32 | 10:55 | 11:55 | Redwood City            | 12:55 | 1:55 | 2:55 |
|        | San Carlos              | 5:15 | 5:49 | -    | -    | -    | 7:04  | -    | 7:30 | -    | -    | 8:07  | -    | 8:30 | -    | -    | 9:02 | 9:28  | 10:01 | 10:37 | 10:59 | 11:59 | San Carlos              | 12:59 | 1:59 | 2:59 |
|        | Belmont                 | 5:18 | 5:52 | -    | -    | -    | 7:07  | -    | -    | -    | -    | 8:10  |      | -    | -    | -    | 9:05 | 9:32  | 10:05 | 10:40 | 11:03 | 12:03 | Belmont                 | 1:03  | 2:03 | 3:03 |
|        | Hillsdale               | 5:22 | 5:56 | 6:19 | 6:54 | -    | 7:11  | 7:24 | 7:35 | 7:54 | -    | 8:14  | 8:25 | 8:35 | 8:59 | -    | 9:09 | 9:35  | 10:08 | 10:44 | 11:06 | 12:06 | Hillsdale               | 1:06  | 2:06 | 3:06 |
|        | Hayward Park            | 5:25 | 5:59 | -    | -    | -    | 7:14  | -    | -    | -    | -    | 8:17  | -    | -    | -    | -    | 9:12 | -     | 10:11 | -     | 11:09 | 12:09 | Hayward Park            | 1:09  | 2:09 | 3:09 |
| 2      | San Mateo               | 5:28 | 6:03 | -    | -    | 6:44 | 7:18  | -    | 7:39 | -    | 7:45 | 8:21  | -    | 8:39 | -    | 8:45 | 9:15 | 9:40  | 10:15 | 10:49 | 11:12 | 12:12 | San Mateo               | 1:12  | 2:12 | 3:14 |
| 뜅      | Burlingame              | 5:32 | 6:06 | -    | -    | -    | 7:21  | -    | 7:44 | -    | -    | 8:24  | -    | 8:44 | -    | -    | 9:19 | 9:43  | 10:18 | 10:52 | 11:15 | 12:15 | Burlingame              | 1:15  | 2:15 | 3:17 |
| ~      | Millbrae                | 5:36 | 6:11 | 6:28 | 7:03 | 6:52 | 7:26  | 7:32 | -    | 8:03 | 7:53 | 8:29  | 8:34 | -    | 9:08 | 8:53 | 9:24 | 9:48  | 10:23 | 10:57 | 11:20 | 12:20 | Millbrae                | 1:20  | 2:20 | 3:22 |
| $\sim$ | San Bruno               | 5:41 | 6:16 | -    | -    | -    | 7:30  | -    | 7:51 | -    | -    | 8:33  | -    | 8:51 | -    | -    | 9:28 | 9:53  | 10:28 | 11:02 | 11:25 | 12:25 | San Bruno               | 1:25  | 2:25 | 3:27 |
|        | So. San Francisco       | 5:45 | 6:20 | -    | 7:09 | -    | 7:34  | -    | -    | 8:09 | -    | 8:37  | -    | -    | 9:14 | -    | 9:32 | -     | 10:32 | -     | 11:29 | 12:29 | So. San Francisco       | 1:29  | 2:29 | 3:31 |
| -      | Bayshore                | 5:51 | 6:26 | -    | -    | -    | 7:41+ | -    | -    | -    | -    | 8:45+ | -    | -    | -    | -    | 9:39 | -     | 10:38 | -     | 11:35 | 12:35 | Bayshore                | 1:35  | 2:35 | 3:37 |
| 8      | 22 <sup>nd</sup> Street | 5:57 | 6:32 | -    | -    | -    | 7:50+ | -    | -    | -    | -    | 8:53+ | -    | -    | -    | _    | 9:45 | -     | 10:44 | -     | 11:41 | 12:41 | 22 <sup>nd</sup> Street | 1:41  | 2:41 | 3:43 |
| 2      | San Francisco           | 6:03 | 6:38 | 6:47 | 7:24 | 7:09 | 7:57  | 7:52 | 8:08 | 8:24 | 8:13 | 9:00  | 8:54 | 9:08 | 9:29 | 9:13 | 9:52 | 10:09 | 10:52 | 11:19 | 11:48 | 12:48 | San Francisco           | 1:48  | 2:48 | 3:52 |

Caltrain's pre-pandemic service amplified its most successful markets, but restricted greater diversity of riders and travel behavior.



Highly tailored to pre-COVID office schedules



20 different stopping patterns



**Inconsistent BART connections** 



Infrequent midday and evening service



# Caltrain Service - Multiple Phases of Crisis & Response

### Initial Triage

March 2020 – May 2020

### Surviving the Pandemic

May 2020 – Summer 2021

### **Preparing for the Next Reality**

Fall 2021 and Beyond

 Service cut to 42 trains per day during initial shelter-inplace order.

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- Service restored to 68 trains per day.
  - After board adoption of Equity, Connectivity, Recovery, and Growth Policy, service increased to 70 trains per day with a focus on off-peak service and BART connections.
- Opportunity to rebuild service to capture post-pandemic markets and build upon ECRG policy.

# Equity, Connectivity, Recovery, and Growth Policy



### Equity

Undertake service changes in a manner that enhances equity and access for historically disadvantaged and underserved groups and communities.



#### Connectivity

Plan for a standardized schedule with consistent station arrivals so that transit providers can coordinate with Caltrain's service.

Prioritize coordination of major intermodal transfers within service planning, focusing on the connection to BART at Millbrae



#### **Recovery & Growth**

Strive to deliver specific elements and benefits of the Long Range Service Vision as soon as practical and supported by market demand and financial circumstances of the railroad.



## **Service Planning**



### **Post-Pandemic Uncertainty**

There is substantial uncertainty around post-pandemic travel behavior, especially when and how regular commuting patterns will return. Caltrain travel patterns could look substantially different than before the pandemic, given that many tech companies may shift to regular remote or flexible work schedules. A post-pandemic Caltrain service will need to be diverse and adapt to changing corridor needs while also capturing new markets.

#### **Tracking Data & Trends to Inform Service Planning**

- Pre-Pandemic Ridership Patterns & Surveys
- Pandemic Ridership & Feedback
- Vaccinations & Variants
- Go Pass Participation
- University Reopening Plans (Stanford, Santa Clara, San Jose State, UCSF, etc.)

- Travel Behavior Trends (Office Reopenings & Remote/Flexible Work Schedules)
- Economic Trends (Office Vacancies, Unemployment Rates, & Development Activity)
- Freeway Congestion
- Restoring Special Events (Giants, Warriors, Sharks, etc.)

Gas Prices

### Background Analysis: Market Research

#### **Results of the 2021 Bay Area Council Poll (April 13):**

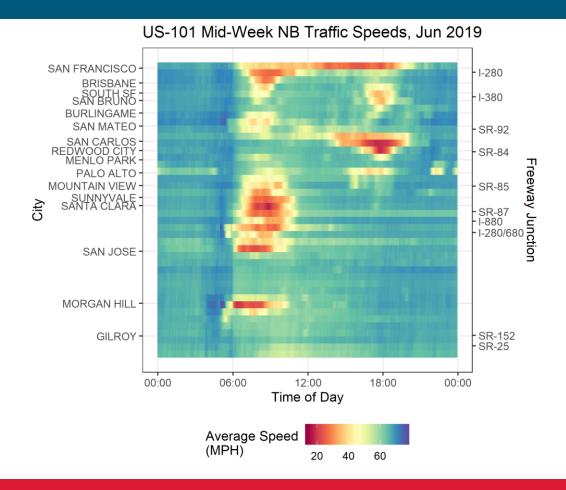
- 34% of respondents currently employed don't plan to travel to a workplace as often as they did before the pandemic hit.
- Just 38% said they will resume commuting to their workplace five days a week.
- 53% of those in a variety of professional services and technology jobs said they plan to work in the office less frequently after the pandemic than they did before.

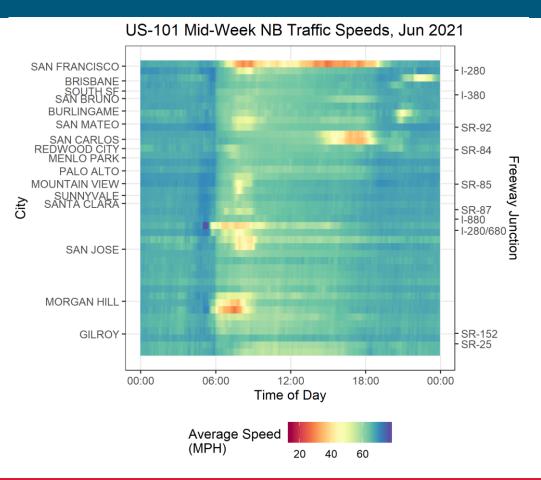
#### **City and County of SF Office of the Controller Report:**

#### "Status of the Re-Opening of the SF Economy: June 2021"

- The five-county San Francisco metro area continues to lag comparable metro areas in office attendance
  - Still below 20%, which is lower than New York, L.A., and Austin
- Despite improvements in the public health situation, the rate of small business closures remained steady from March to early June.
  - More than 45% of small businesses in the city remain closed.
- Employment in the San Francisco Metro Division is recovering slowly.
  - Total employment is still down 10% from pre-pandemic level and has not yet recovered to the level reached before the second wave of COVID-19 infections at the end of last year.

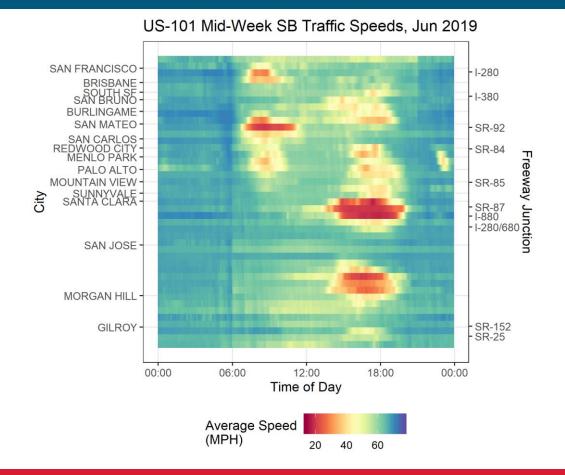
### Background Analysis: Freeway Speed Comparison (Pre- vs. Post-Pandemic)

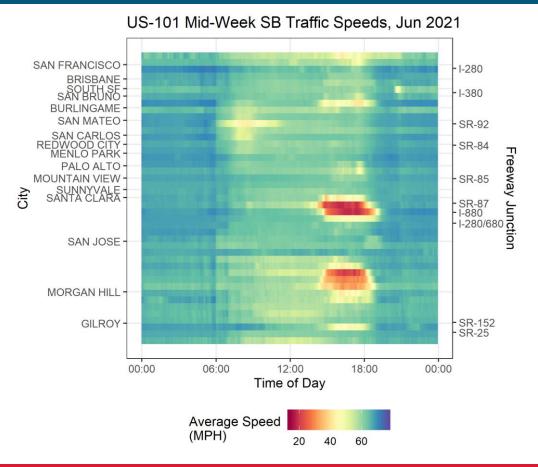




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### Background Analysis: Freeway Speed Comparison (Pre- vs. Post-Pandemic)





# Background Analysis: What are other railroads doing?

### Metra (Chicago):

New pilot schedules will start July 12 on the UP North, BNSF and Metra Electric lines and July 19 on the Rock Island Line. In response to riders' evolving needs and global best practices, the pilot schedules step away from pre-pandemic schedules that prioritized peak rush-hour service **in favor of a more balanced approach that spreads out the service to offer better off-peak options**. The schedules also have been reimagined with **more memorable timetables and service patterns**.

### MBTA (Boston):

Over the last year, though Commuter Rail ridership has remained low overall, midday trains retained a higher percentage of their ridership than the traditional AM and PM peak trains with ridership more evenly distributed throughout the day. Recognizing that commuting needs have changed and will continue to evolve, the MBTA and Keolis have **developed a Regional Rail** style of service that offers more options to returning pre-pandemic commuters as well as new riders who may not have considered the service previously.

### Service Planning Strategy



Match Flexibility of Future Workplace & Recapture Commuter Market



Address Systemic Inequities of Caltrain Service



Build New Ridership Markets

# 1. Match Flexibility of Future Workplace & Recapture Commuter Market

### **Key Findings**

#### **Uncertainty**

Most office-based employers do not have a clear picture of the post-pandemic "new normal" – employer policies and employee preferences continue to evolve

#### **Evolution Over Time**

It may take months or years for clear trends to emerge and a new normal to be established. Caltrain will need to monitor and adapt to new travel behavior.

### **Greater Flexibility**

Increased work from home and flexible work hours are expected, but will vary widely by employer:

- Universities, life sciences, logistics, and hospitality/services more likely to be in person all or most of the time
- Offices (especially tech) more likely to have a remote work option, but adoption will be different between employers



### **2. Address Systemic Inequities** of Caltrain Service

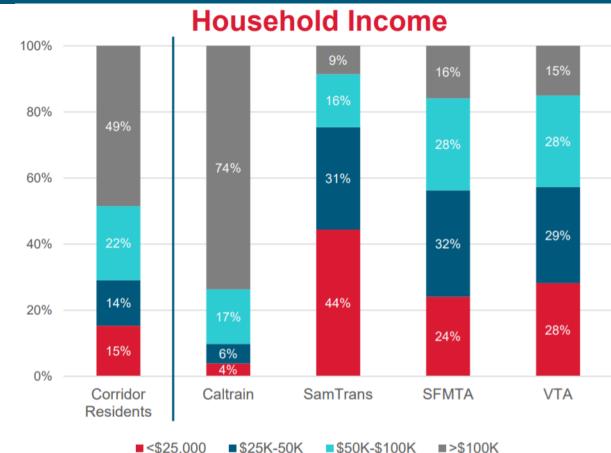
### **Key Findings**

#### **Schedule-Imposed Barriers**

Prior to the pandemic, Caltrain's highlycustomized schedule posed barriers for off-peak/ weekend trips, intermodal transfers, and "novice" riders.

### **Disproportionate Outcomes**

Schedule-imposed barriers particularly affected people who are transit-reliant or work nontraditional schedules populations that are disproportionately lower income and people of color



■\$50K-\$100K <\$25.000 \$25K-50K

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### 3. Build New Ridership Markets

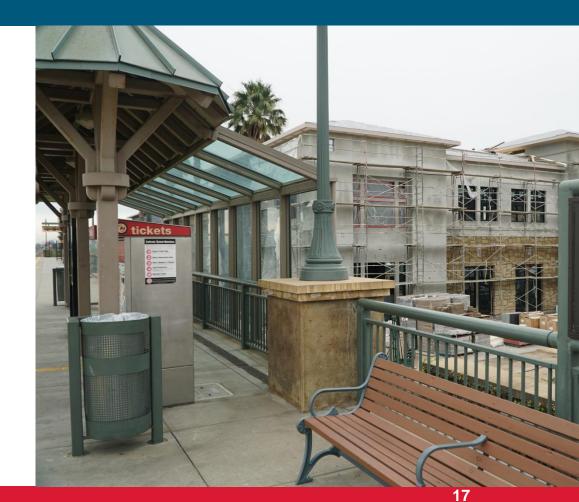
### **Key Findings**

#### **Latent Demand & Development Activity**

Prior to the pandemic, Caltrain experienced significant latent demand due to low frequencies and limited connectivity for many stations. Construction activity along the corridor remains strong, and recently-completed developments provide potential for new ridership growth.

#### **Special Events & Non-Commute Trips**

Recent ridership data show that the traditional Giants game market is rebounding quickly, and Caltrain has an opportunity to better serve Warriors and Sharks games, concerts and special events, airport travel, medical appointments, and other noncommute trips – especially during evenings and weekends.



### **Service Planning Strategy**

Approach

#### Match Flexibility of Future Workplace & Recapture Commuter Market

Address Systemic Inequities of Caltrain Service

#### **Build New Ridership Markets**

### Competitive Service

Restore Baby Bullet and zone express service to recapture riders adjusting to new travel behavior

#### Simple Service

Simplify structure while expanding train options and frequency at as many stations as possible

#### All-Day Service

Maintain expanded midday, evening, and weekend service to broaden Caltrain's reach

#### Coordinated Service

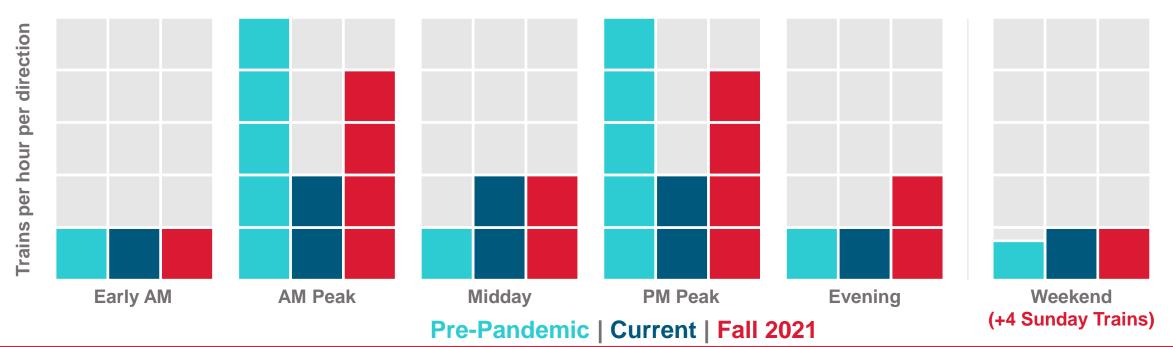
Coordinate connections with BART and other operators

#### Optimized Service

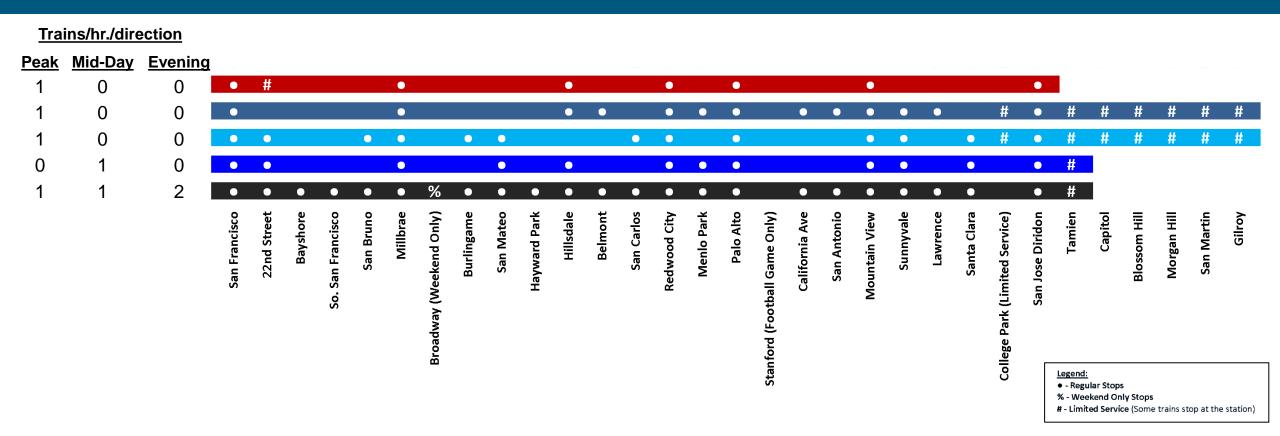
Adjust stopping patterns to serve latent demand and growing station areas

### **August 2021 Service Expansion**

The August 2021 service plan focuses on expanding peak period and evening frequency as well as adjusting stopping patterns. Overall weekday span of service will not change. Sunday service will be expanded to match Saturday Service.



### August 2021 Service Plan (Weekdays)



### Key Peak Hour Metrics: AM Peak Trains per Hour by Station Pair

| From Origin Station<br>to Destination<br>Station | San Francisco | 22nd Street | Bayshore | South San Francisco | San Bruno | Millbrae | Burlingame | San Mateo | Hayward Park | Hillsdale | Belmont | San Carlos | Redwood City | Menlo Park | Palo Alto | California Avenue     | San Antonio | Mountain View | Sunnyvale | Lawrence | Santa Clara | San Jose Diridon | Tamien |
|--|---------------|-------------|----------|---------------------|-----------|----------|------------|-----------|--------------|-----------|---------|------------|--------------|------------|-----------|-----------------------|-------------|---------------|-----------|----------|-------------|------------------|--------|
| San Francisco                                    |               | 3           | 1        | 1                   | 2         | 4        | 2          | 2         | 1            | 3         | 2       | 2          | 4            | 2          | 4         | 2                     | 2           | 4             | 3         | 2        | 2           | 4                | 1      |
| 22nd Street                                      | 2             |             | 1        | 1                   | 2         | 3        | 2          | 2         | 1            | 2         | 1       | 2          | 3            | 1          | 3         | 1                     | 1           | 3             | 2         | 1        | 2           | 3                | 1      |
| Bayshore   | 1             | 1           |          | 1                   | 1         | 1        | 1          | 1         | 1            | 1         | 1       | 1          | 1            | 1          | 1         | 1                     | 1           | 1             | 1         | 1        | 1           | 1                | 1      |
| South San Francisco                              | 1             | 1           | 1        |                     | 1         | 1        | 1          | 1         | 1            | 1         | 1       | 1          | 1            | 1          | 1         | 1                     | 1           | 1             | 1         | 1        | 1           | 1                | 1      |
| San Bruno  | 2             | 2           | 1        | 1                   |           | 2        | 2          | 2         | 1            | 1         | 1       | 2          | 2            | 1          | 2         | 1                     | 1           | 2             | 2         | 1        | 2           | 2                | 1      |
| Millbrae   | 4             | 2           | 1        | 1                   | 2         |          | 2          | 2         | 1            | 3         | 2       | 2          | 4            | 2          | 4         | 2                     | 2           | 4             | 3         | 2        | 2           | 4                | 1      |
| Burlingame                                       | 2             | 2           | 1        | 1                   | 2         | 2        |            | 2         | 1            | 1         | 1       | 2          | 2            | 1          | 2         | _1                    | _1          | 2             | 2         | 1        | 2           | 2                | 1      |
| San Mateo  | 2             | 2           | 1        | 1                   | 2         | 2        | 2          |           | 1            | 1         | 1       | 2          | 2            | 1          | 2         | <b>S</b> <sub>1</sub> | В           | 2             | 2         | 1        | 2           | 2                | 1      |
| Hayward Park                                     | 1             | 1           | 1        | 1                   | 1         | 1        | 1          | 1         |              | 1         | 1       | 1          | 1            | 1          | 1         | 1                     | -1          | 1             | 1         | 1        | 1           | 1                | 1      |
| Hillsdale  | 3             | 1           | 1        | 1                   | 1         | 3        | 1          | 1         | 1            |           | 2       | 1          | 3            | 2          | 3         | 2                     | 2           | 3             | 2         | 2        | 1           | 3                | 1      |
| Belmont  | 2             | 1           | 1        | 1                   | 1         | 2        | 1          | 1         | 1            | 2         |         | 1          | 2            | 2          | 2         | 2                     | 2           | 2             | 2         | 2        | 1           | 2                | 1      |
| San Carlos                                       | 2             | 2           | 1        | 1                   | 2         | 2        | 2          | 2         | 1            | 1         | 1       |            | 2            | 1          | 2         | 1                     | 1           | 2             | 2         | 1        | 2           | 2                | 1      |
| Redwood City                                     | 4             | 2           | 1        | 1                   | 2         | 4        | 2          | 2         | 1            | 3         | 2       | 2          |              | 2          | 4         | 2                     | 2           | 4             | 3         | 2        | 2           | 4                | 1      |
| Menlo Park                                       | 2             | 1           | 1        | 1                   | 1         | 2        | 1          | 1         | 1            | 2         | 2       | 1          | 2            |            | 2         | 2                     | 2           | 2             | 2         | 2        | 1           | 2                | 1      |
| Palo Alto  | 4             | 2           | 1        | 1                   | 2         | 4        | 2          | 2         | 1            | 3         | 2       | 2          | 4            | 2          |           | 2                     | 2           | 4             | 3         | 2        | 2           | 4                | 1      |
| California Avenue                                | 2             | 1           | 1        | 1                   | 1         | 2        | N          | 1 6       | 1            | 2         | 2       | 1          | 2            | 2          | 2         |                       | 2           | 2             | 2         | 2        | 1           | 2                | 1      |
| San Antonio                                      | 2             | 1           | 1        | 1                   | 1         | 2        |            |           |              | 2         | 2       | 1          | 2            | 2          | 2         | 2                     |             | 2             | 2         | 2        | 1           | 2                | 1      |
| Mountain View                                    | 4             | 2           | 1        | 1                   | 2         | 4        | 2          | 2         | 1            | 3         | 2       | 2          | 4            | 2          | 4         | 2                     | 2           |               | 3         | 2        | 2           | 4                | 1      |
| Sunnyvale  | 3             | 2           | 1        | 1                   | 2         | 3        | 2          | 2         | 1            | 2         | 2       | 2          | 3            | 2          | 3         | 2                     | 2           | 3             |           | 2        | 2           | 3                | 1      |
| Lawrence   | 2             | 1           | 1        | 1                   | 1         | 2        | 1          | 1         | 1            | 2         | 2       | 1          | 2            | 2          | 2         | 2                     | 2           | 2             | 2         |          | 1           | 2                | 1      |
| Santa Clara                                      | 2             | 2           | 1        | 1                   | 2         | 2        | 2          | 2         | 1            | 1         | 1       | 2          | 2            | 1          | 2         | 1                     | 1           | 2             | 2         | 1        |             | 2                | 1      |
| San Jose Diridon                                 | 4             | 2           | 1        | 1                   | 2         | 4        | 2          | 2         | 1            | 3         | 2       | 2          | 4            | 2          | 4         | 2                     | 2           | 4             | 3         | 2        | 2           |                  | 1      |
| Tamien   | 2             | 1           | 1        | 1                   | 1         | 2        | 1          | 1         | 1            | 2         | 2       | 1          | 2            | 2          | 2         | 2                     | 2           | 2             | 2         | 2        | 1           | 2                |        |

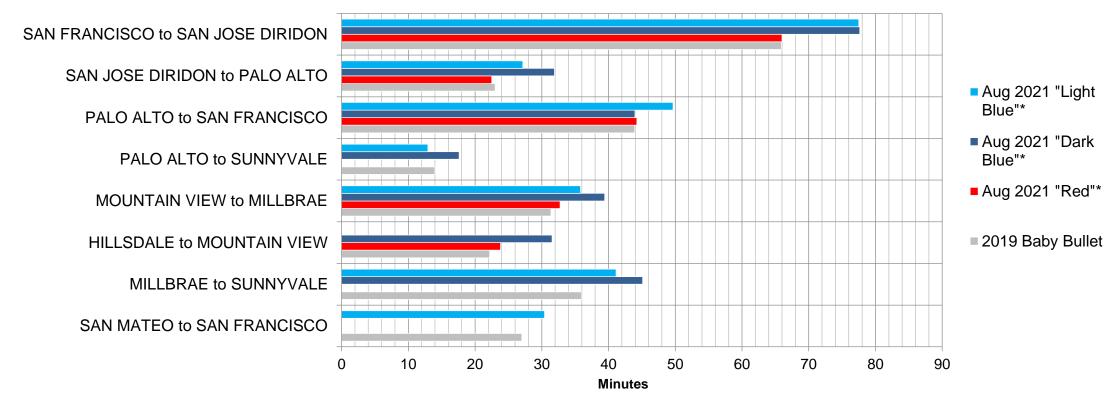
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|--|---------------|-------------|----------|---------------------|-----------|----------|------------|-----------|--------------|-----------|---------|------------|--------------|------------|-----------|-------------------|-------------|---------------|-----------|----------|-------------|------------------|--------|
| San Francisco                                    |               | 5           | 1        | 1                   | 1         | 5        | 2          | 3         | 1            | 3         | 1       | 3          | 5            | 3          | 5         | 2                 | 1           | 4             | 1         | 2        | 2           | 5                | 1      |
| 22nd Street                                      | 1             |             | 1        | 1                   | 1         | 5        | 2          | 3         | 1            | 3         | 1       | З          | 5            | 3          | 5         | 2                 | 1           | 4             | 1         | 2        | 2           | 5                | 1      |
| Bayshore   | 1             | 1           |          | 1                   | 1         | 1        | 1          | 1         | 1            | 1         | 1       | 1          | 1            | 0          | 1         | 0                 | 0           | 0             | 0         | 0        | 1           | 1                | 0      |
| South San Francisco                              | 2             | 1           | 1        |                     | 1         | 1        | 1          | 1         | 1            | 1         | 1       | 1          | 1            | 0          | 1         | 0                 | 0           | 0             | 0         | 0        | 1           | 1                | 0      |
| San Bruno  | 2             | 1           | 1        | 1                   |           | 1        | 1          | 1         | 1            | 1         | 1       | 1          | 1            | 0          | 1         | 0                 | 0           | 0             | 0         | 0        | 1           | 1                | 0      |
| Millbrae   | 4             | 1           | 1        | 2                   | 1         |          | 2          | 3         | 1            | 3         | 1       | 3          | 5            | 3          | 5         | 2                 | 1           | 4             | 1         | 2        | 2           | 5                | 1      |
| Burlingame                                       | 2             | 1           | 1        | 1                   | 2         | 1        |            | 2         | 1            | 2         | 1       | 2          | 2            | 1          | 2         | C                 |             | 1             | 0         | 1        | 1           | 2                | 0      |
| San Mateo  | 3             | 1           | 1        | 1                   | 2         | 2        | 2          |           | 1            | 2         | 1       | 3          | З            | 2          | З         | J                 | D           | 2             | 1         | 2        | 2           | 3                | 0      |
| Hayward Park                                     | 1             | 1           | 1        | 1                   | 1         | 1        | 1          | 1         |              | 1         | 1       | 1          | 1            | 0          | 1         | 0                 | 0           | 0             | 0         | 0        | 1           | 1                | 0      |
| Hillsdale  | 4             | 1           | 1        | 2                   | 2         | 3        | 2          | 2         | 1            |           | 1       | 2          | 3            | 1          | 3         | 1                 | 0           | 2             | 0         | 1        | 1           | 3                | 0      |
| Belmont  | 1             | 1           | 1        | 1                   | 1         | 1        | 1          | 1         | 1            | 1         |         | 1          | 1            | 0          | 1         | 0                 | 0           | 0             | 0         | 0        | 1           | 1                | 0      |
| San Carlos                                       | 2             | 1           | 1        | 1                   | 2         | 1        | 2          | 2         | 1            | 2         | 1       |            | 3            | 2          | 3         | 2                 | 1           | 2             | 1         | 2        | 2           | 3                | 0      |
| Redwood City                                     | 3             | 1           | 1        | 2                   | 1         | 3        | 1          | 2         | 1            | 2         | 1       | 1          |              | 3          | 5         | 2                 | 1           | 4             | 1         | 2        | 2           | 5                | 1      |
| Menlo Park                                       | 2             | 1           | 1        | 2                   | 1         | 2        | 1          | 1         | 1            | 2         | 1       | 1          | 2            |            | З         | 2                 | 1           | З             | 1         | 2        | 1           | 3                | 1      |
| Palo Alto  | 4             | 0           | 0        | 1                   | 1         | 3        | 1          | 2         | 0            | 3         | 0       | 1          | 2            | 1          |           | 2                 | 1           | 4             | 1         | 2        | 2           | 5                | 1      |
| California Avenue                                | 3             | 1           | 1        | 2                   | 2         | 3        | R          |           | 1            | 3         | 1       | 2          | 2            | 2          | 2         |                   | 1           | 2             | 1         | 2        | 1           | 2                | 0      |
| San Antonio                                      | 1             | 0           | 0        | 1                   | 0         | 3<br>1   | ð          |           |              | 1         | 0       | 0          | 1            | 1          | 1         | 1                 |             | 1             | 1         | 1        | 1           | 1                | 0      |
| Mountain View                                    | 4             | 1           | 1        | 2                   | 2         | 3        | 2          | 2         | 1            | 4         | 1       | 2          | 2            | 2          | 3         | 3                 | 1           |               | 1         | 2        | 1           | 4                | 1      |
| Sunnyvale  | 4             | 1           | 1        | 2                   | 2         | 3        | 2          | 3         | 1            | 3         | 1       | 2          | 3            | 2          | 3         | 3                 | 1           | 3             |           | 1        | 1           | 1                | 0      |
| Lawrence   | 1             | 0           | 0        | 1                   | 0         | 1        | 0          | 0         | 0            | 1         | 0       | 0          | 1            | 1          | 1         | 1                 | 1           | 1             | 1         |          | 1           | 2                | 0      |
| Santa Clara                                      | 2             | 1           | 1        | 2                   | 1         | 2        | 1          | 1         | 1            | 2         | 1       | 1          | 2            | 2          | 1         | 2                 | 1           | 2             | 2         | 1        |             | 2                | 0      |
| San Jose Diridon                                 | 5             | 1           | 1        | 2                   | 2         | 4        | 2          | 3         | 1            | 4         | 1       | 2          | 3            | 2          | 4         | 3                 | 1           | 4             | 3         | 1        | 2           |                  | 1      |
| Tamien   | 2             | 0           | 0        | 1                   | 0         | 2        | 0          | 1         | 0            | 1         | 0       | 0          | 2            | 1          | 2         | 1                 | 1           | 1             | 2         | 1        | 1           | 2                |        |

October 7, 2019

August 30, 2021

### Key Travel Time Metrics (Peak Period)





Note: August 2021 train type names are just placeholders and refer to the color of lines in the diagram on Page 20. Actual names and colors are still under development.

### **Gilroy Service**

This service change restores the third Gilroy round trip. Service was designed to offer customers multiple options for one-seat rides along the Peninsula, including direct service to College Park on one train in each direction.

Arrival and departure times at Gilroy were coordinated with VTA based on feedback received during the South County survey conducted in 2019. Discussions are ongoing regarding the timing of implementing a 4<sup>th</sup> round trip in the near future.



Northbound trains leave from Gilroy at 5:54AM, 6:31AM, and 5:52AM.

Southbound trains arrive in Gilroy at 5:21PM, 6:42PM, and 7:19PM.\*



\*Final schedule under review; exact times subject to change

### **Overall Benefits**

## The new Caltrain schedule will attract both former and prospective customers by providing:

- One-seat ride between all station pairs, all day long
- Competitive peak-period trip time in more station
  pairs
- Faster service during midday periods
- More frequent evening service for special events
  - New Sunday evening trains will provide service from Chase and SAP Centers

### Scalable to adjust to emerging ridership patterns

Provides adequate connections with BART at Millbrae

Accommodates construction activities during off peak hours



## **Ongoing Constraints**

Caltrain's primary goal of the fall schedule change is to increase service. Still, the railroad must continue to operate within significant schedule constraints, including:

### **Financial Constraints**

- Farebox revenue remains low and will take time to recover
- Service levels must be aligned with financial capacity



### **Major Construction Projects**

- South San Francisco and Electrification projects require track access to complete
- Train schedules must be tailored to accommodate ongoing singletracking operations

### Staffing

- Service reductions during the pandemic were achieved through attrition (retirements)
- Replenishing through hiring and training will take months.



### Future Considerations

- Collaborate with BART to improve Evening and Sunday Millbrae Connections
- Schedule is designed to allow for the addition of a 5th train per hour (second Baby Bullet) during peak periods when demand increases
- Increasing work windows to accelerate upcoming construction work for PCEP



### **Next Steps**

- Publish timetable and post online and in stations
- Monitor ridership patterns on specific trains
- Continue to analyze market trends and regional developments to guide future service adjustments
- Collaborate with BART to continue to improve Millbrae connections

