Connected Transportation/ Seamless Mobility

Bay Area Opportunities and Challenges

Commission Workshop – January 2020

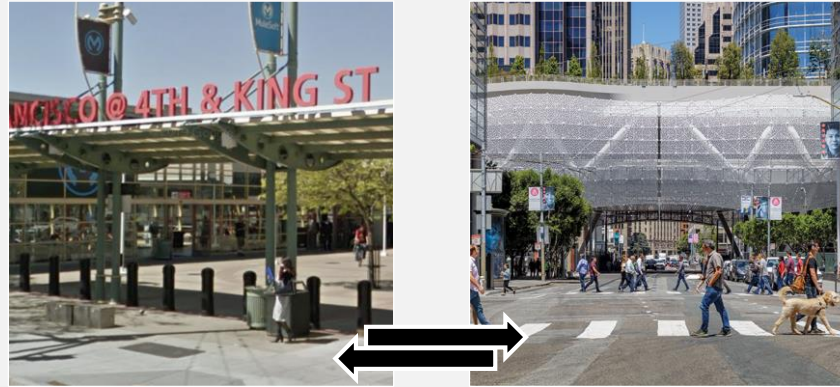METROPOLITAN TRANSPORTATION COMMISSION

Seamless System Challenges

- **Physical Gaps in the System**

- **Customer Usability**

- **Mega Project Delivery/Governance**

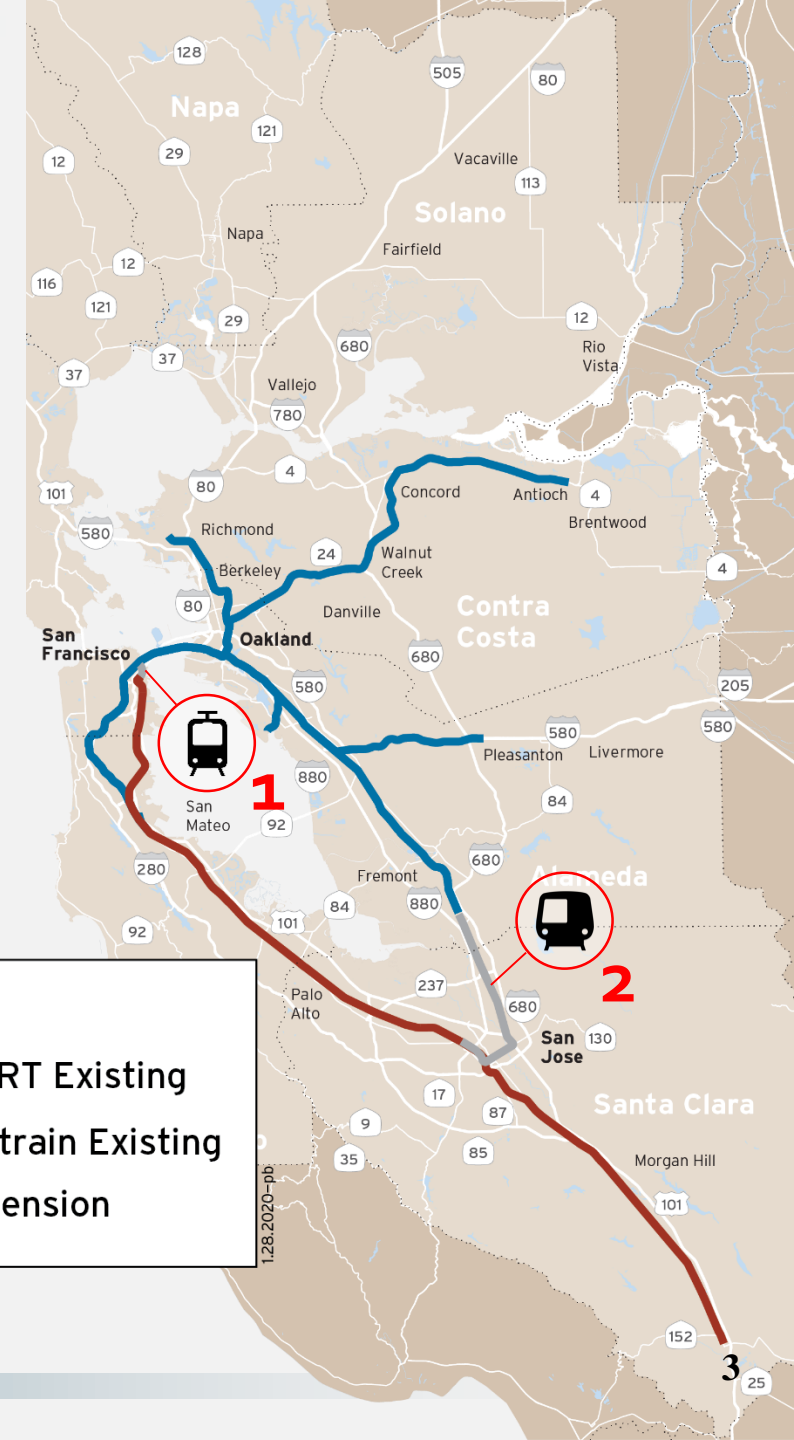# Illustrative Gaps
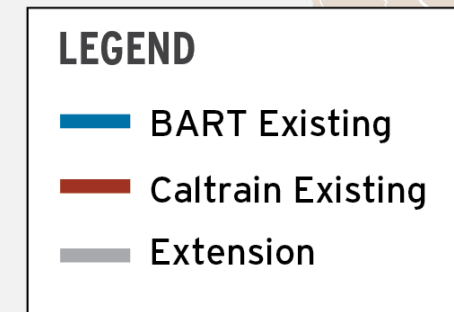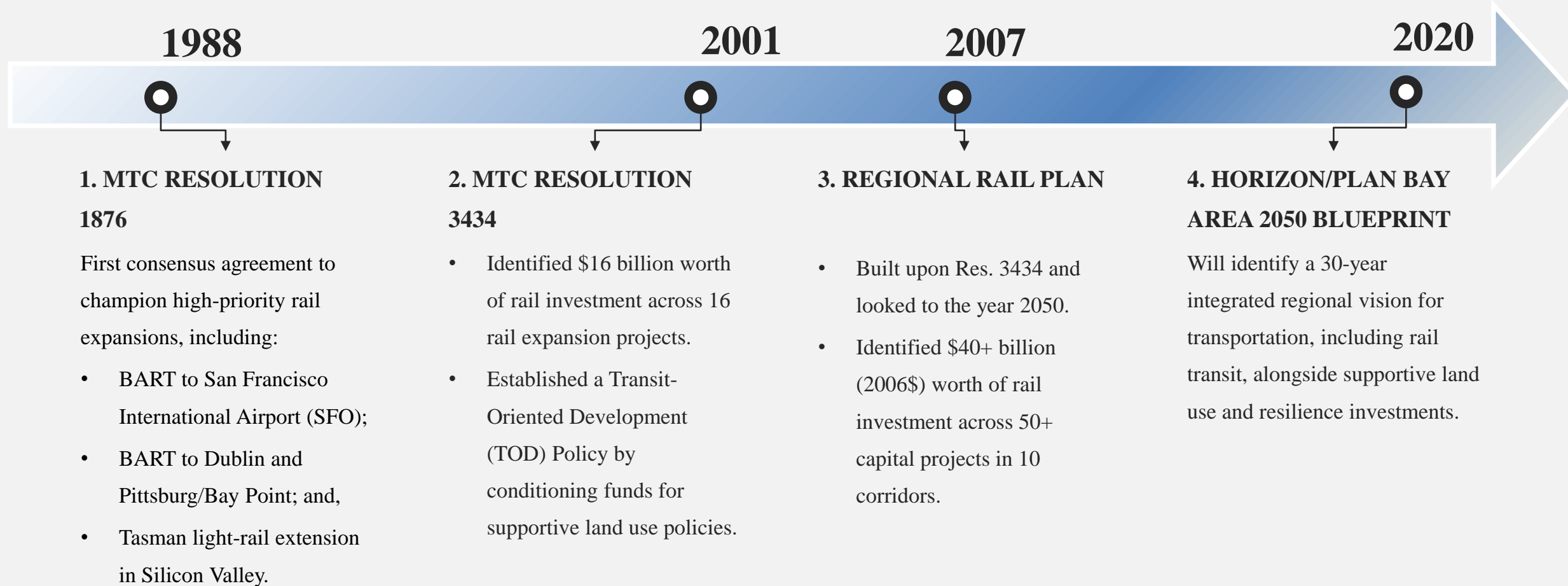# in the Region's Rail System

1 DTX

2 BART to San Jose

LEGEND

▬	BART Existing
▬	Caltrain Existing
▬	Extension

1.28.2020–pb

MTC's Role in Regional Rail Expansion Programs

1988   **2001**   **2007**   **2020**

1. MTC RESOLUTION 1876

First consensus agreement to champion high-priority rail expansions, including:

- BART to San Francisco International Airport (SFO);
- BART to Dublin and Pittsburg/Bay Point; and,
- Tasman light-rail extension in Silicon Valley.

2. MTC RESOLUTION 3434

- Identified $16 billion worth of rail investment across 16 rail expansion projects.
- Established a Transit-Oriented Development (TOD) Policy by conditioning funds for supportive land use policies.

3. REGIONAL RAIL PLAN

- Built upon Res. 3434 and looked to the year 2050.
- Identified $40+ billion (2006$) worth of rail investment across 50+ capital projects in 10 corridors.

4. HORIZON/PLAN BAY AREA 2050 BLUEPRINT

Will identify a 30-year integrated regional vision for transportation, including rail transit, alongside supportive land use and resilience investments.
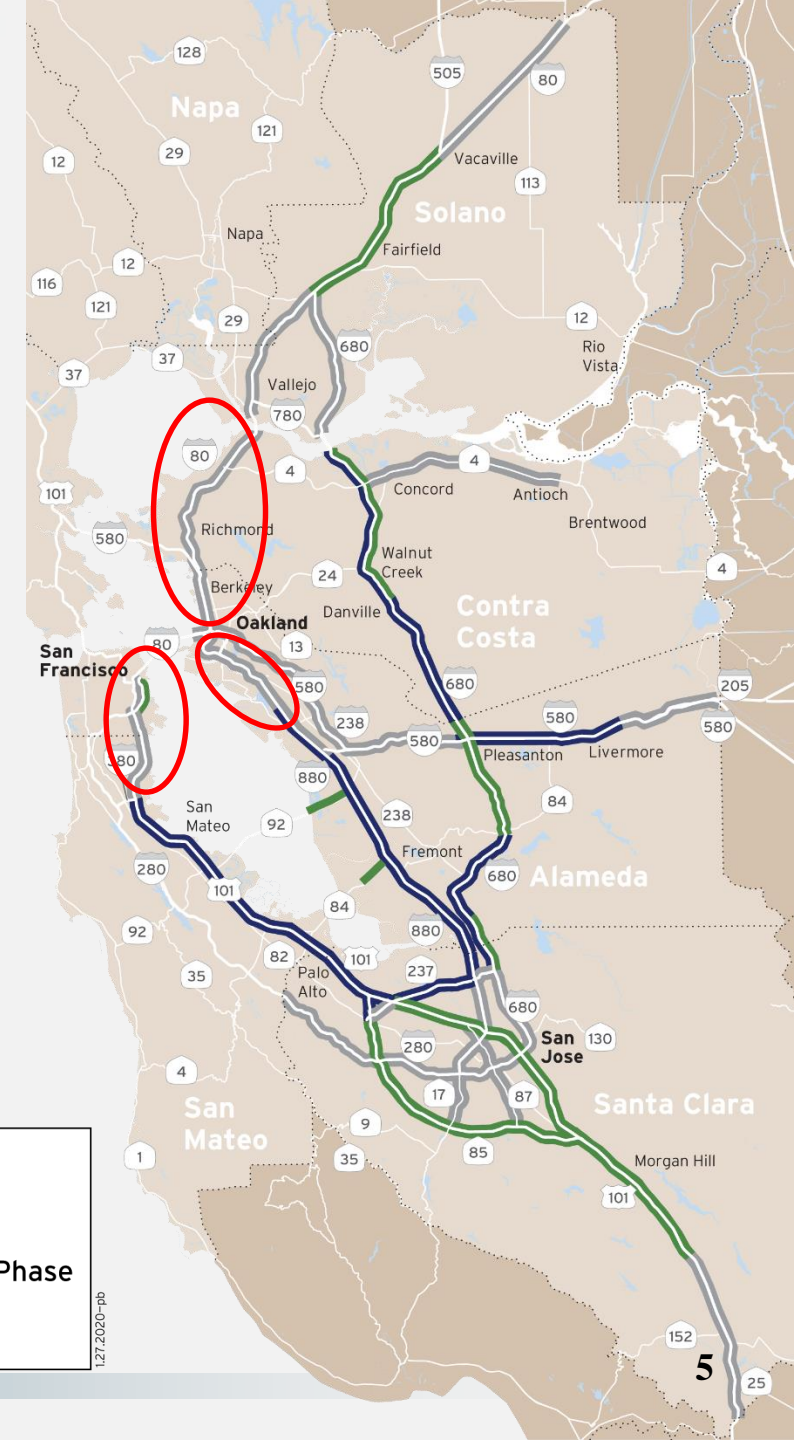
Illustrative Gaps in the Regional Express Lanes Network

- **210** directional miles open by 2022

- **200** miles in the pipeline

- Significant gaps in a regional network that could serve a robust express bus system and carpools

- Commute challenges from the greater mega region

AUTHORIZED EXPRESS LANES

— Express Lanes in Operation or Under Construction
— Express Lane Projects in Environmental or Design Phase
— Potential Future Express Lane Projects

MTC Role in Express Lane Coordination

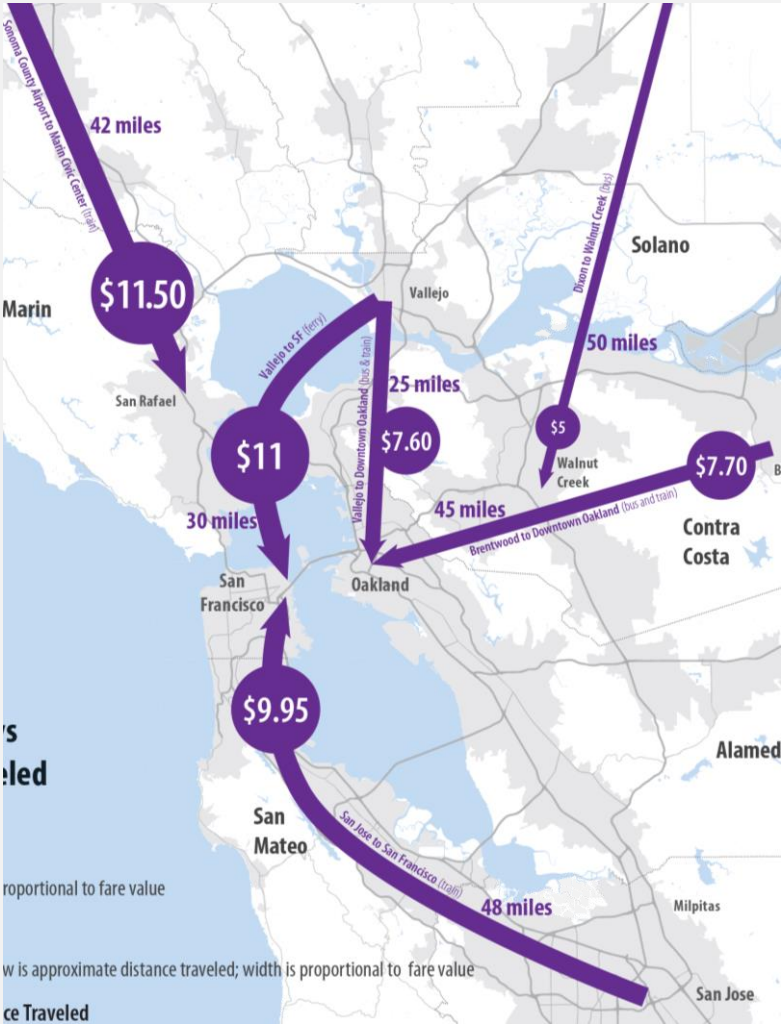|	BAIFA 80, 880, 680 ALA/CC/SOL 270 miles	Alameda CTC ALA-680/580 90 miles	VTA SCL-237, 85, 101 190 miles	San Mateo SM-101 40 miles
Approve plans; O&M Agreement; Hours/eligibility	Caltrans: SHS Owner			
Project Funding and Delivery	BAIFA with CTAs	Alameda CTC	VTA	San Mateo
Toll Policy and Violations	BAIFA	Alameda CTC	VTA	San Mateo
Toll System/Operations Including Liability and Rehab/Replacement	BAIFA	Alameda CTC	VTA	SM via BAIFA
Use of Net Revenue	BAIFA	Alameda CTC	VTA	San Mateo
Regional Coordination	BAIFA			
FasTrak / Customer Service	BATA			
Reg. Planning/Funding Priorities	MTC			

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Physical Network Gaps: MTC Role for Discussion

- **Planner**
  - ➢ How can PBA 2050 address the problem of network gaps?

- **Investor**
  - ➢ Are we being aggressive and strategic enough in managing the financing and delivery of these projects?

- **Builder/Operation**
  - ➢ Should we be expanding our role here?

Confusing & Inconsistent Fares

Example Local Bus Fares

samTrans	SFMTA	County Connection	AC TRANSIT
Adult	Adult	Adult	Adult
FARE $2.05	FARE $2.50	FARE $2.00	FARE $2.25

Example Regional Rail Fares

BART Adult	Caltrain Adult
Antioch ➔ Powell *45 miles*	San Jose ➔ SF *47 miles*
FARE $7.90	FARE $9.95

Traveler Information Challenge
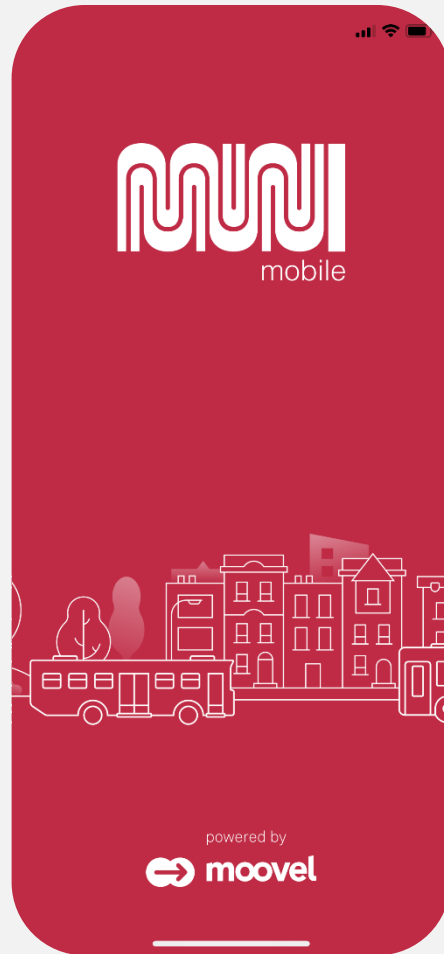
Muni Trip Planner app
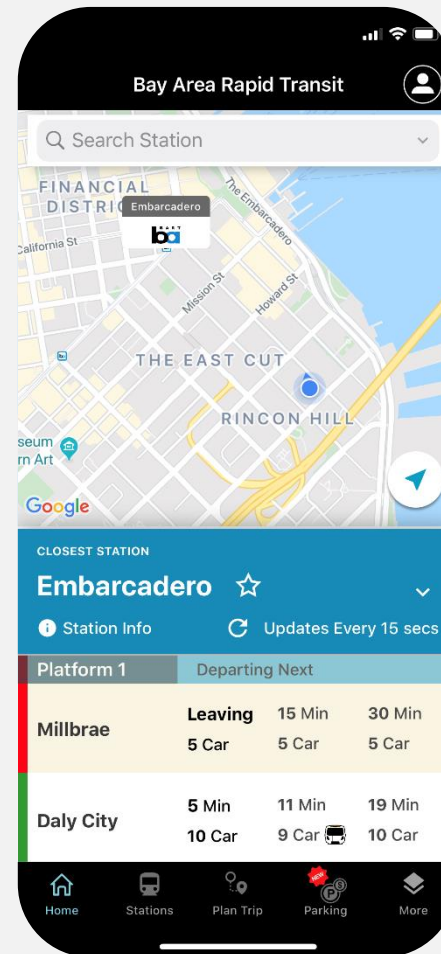
BART Trip Planner app
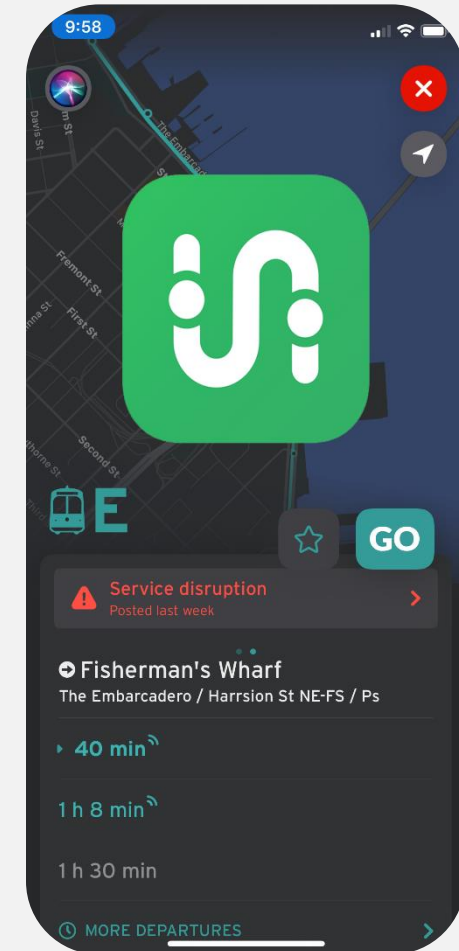
Transit app Trip Planner

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Multiple Service Providers

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MTC's Role in Coordinating Seamlessness

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Customer Usability: MTC Role for Discussion

- **Fare Policy/Integration**

- **Wayfinding Signage**

- **Schedule Synchronization**

- **Traveler Information**

Mega Project Delivery/Governance Current Trends for the Rail Network

HIGH COSTS

$108 BILLION

total Plan investment thru 2040

RAIL INVESTMENTS:

26% of Plan ($78b) to operate & maintain

10% of Plan ($30b) to modernize & expand

DELAYED DELIVERY

DECADES

to design, fund & build megaprojects

delays occur in all phases:

development, environmental,

design/engineering, right-of-way

acquisition, & construction

Rail Expansion Work Under Development:
Nearly All Exploring Governance for Success

- **Caltrain Business Plan**

- **Caltrain Downtown Extension (DTX)**

- **Diridon Integrated Station Concept (DISC) Plan**

- **Dumbarton Rail**

- **Second Transbay Rail Crossing**

- **Valley Link**

SMART to Cloverdale

SR-37/ SMART to Solano

Transbay Crossing

DTX

Valley Link

Caltrain Business Plan

South Bay Connect

Dumbarton Rail Corridor

Altamont Vision

East Bay Hub

DISC

SUMMARY OF ACTIVE
REGIONAL RAIL
IMPROVEMENT PROJECTS

MTC's Evolving Role

1970s

1990

2000

2010

2020

Regional Planner

Funder

Interagency Coordinator

Regional Services Provider

Operations Program Manager

Freeway / Bridge Operations Provider

Major Projects - Integrated Team Member

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Mega Project Delivery/Governance – MTC Role For Discussion

- **Convener**
  - ➢ Organize and facilitate the current conversations related to mega project priorities, connectedness, and organizational structure

- **Active Investor**
  - ➢ Conduct peer reviews, sit as member of project delivery committees

- **Seek Structural Changes**
  - ➢ Support legislative proposals toward establishing a network planner

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Key Questions for Discussion

1. **How should we prioritize within seamless mobility?**
   - ➢ Physical infrastructure gaps
   - ➢ Customer usability
   - ➢ Mega Project Delivery/Governance

2. **Are there seamless changes to focus on?**

3. **Should seamless be about transit, express lanes, other?**

4. **If seamless mobility is legislated, how involved do you want MTC to be?**

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