

# Agenda Item #7 Executive Directors Report

### Briefings

- Assemblymember Bauer-Kahan
- Assemblymember Eggman
- State Senator Glazer
- Staff of Assembly Transportation Committee
- Staff of State Senate Transportation Committee
- Staff of State Senator Wieckowski (co-author of FASTER)
- Caltrans Summit on the Summit
- City of Tracy, City of Lathrop and Mountain House



- Briefings, cont.
  - Tri-Valley Transportation Council
  - San Joaquin Partnership
  - SPUR (SF Area Planning and Urban Research Association)
  - Chancellor of Chabot-Las Positas College District
  - Tracy City Center Association
  - Silicon Valley Leadership Group Transportation Policy Committee
  - TV30 in Tri-Valley
  - Assistance with Tri-Valley Mayors upcoming trip to Wash DC



- Other Important Meetings/Work
  - ACTC Design Workshop for I-580/managed lanes
  - SJCOG and Caltrans District 10: Congested Corridors Grant Application
  - MTC: Plan Bay Area 2050 and FASTER
  - City of Tracy: Project Team for TOD Planning
  - Alstom and Redlands Arrow Project Team
  - FASTER Bay Area Technical Advisory Group and Subcommittees
  - Kick Off meeting for Tri-Valley Hub Study
  - 18-Month Budget and Organizational Structure (ACTC/BART/SJRRC)
  - Federal Railroad Administration



- Big Four Areas of Emphasis
  - FASTER Bay Area
  - Congested Corridors Grant Application
  - Environmental and Design Work
  - 18-month Budget and Organizational Structure





## CEQA Update

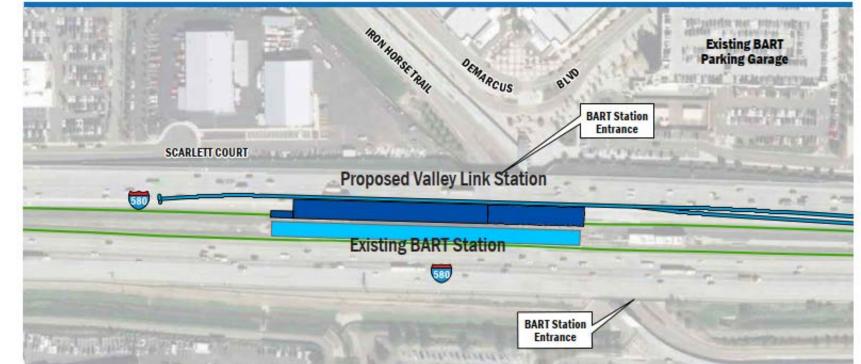
- PSR-PDS submitted to Caltrans August 2019
  - Includes approach to ED
  - Received comments from Caltrans
  - PSR/PDS approval from Caltrans expected by end of Jan 2020
  - Caltrans PA&ED process to start 2020
- Admin Draft EIR review by the Authority Complete
  - Substantially complete addressing Admin Draft comments
- Draft EIR for public review Winter 2020
  - Working with partner agencies on key project elements
    - BART Station configuration
    - Headways
- 45-day public comment period proposed





### **Transfer Platform Rendering**





#### Dublin/Pleasanton Station:

72% of the 5000 Valley Link boardings occur during the peak period



3,600 Valley Link boardings at Dublin/Pleasanton during the peak period

### 2025 Distribution of Riders on Valley Link Trains

90%

of total peak-period ridership would occur on San Joaquin Valley "full route" trains



430

Valley Link riders on each "full route" □ peak-period train

67%

of capacity of a 6-car DMU train that can hold 642 riders

### 2025 Distribution of Valley Link Riders on BART Trains

380

of the Valley Link riders on each "full route" peak period train would be transferring to BART



240 of them would be new BART riders



20%

of capacity of a 10-car BART train



BART's analysis of the need for additional BART cars and storage determined that the increment of new riders on BART attracted by Valley Link would not require additional BART car capacity in 2025.

#### Dublin/Pleasanton Station in 12/12 Scenario:

73% of the 13,300 Valley Link boardings occur during the peak period

⇒ at[

9,700 Valley Link boardings at Dublin/Pleasanton during the peak period

#### Dublin/Pleasanton Station in 12/24 Scenario:

73% of the 12,400 Valley Link boardings occur during the peak period



9,000 Valley Link boardings at Dublin/Pleasanton during the peak period

### 2040 Distribution of Riders on Valley Link Trains

12/12 Scenario

640

riders on each Valley Link "full route" [ peak-period train

100%

of capacity of a 6-car DMU train that can hold 642 riders



12/24 Scenario

**85**%

of total peak period ridership would occur on San Joaquin Valley "full route" trains

⇒ 1,000

riders on each Valley Link "full route" 二 peak-period train

104%

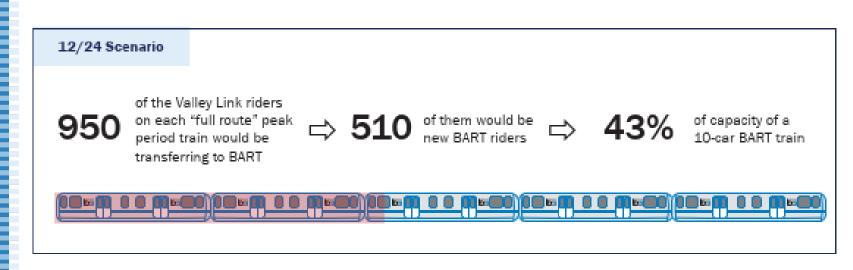
of capacity of a 9-car DMU train that can hold 963 riders



### 2040 Distribution of Valley Link Riders on BART Trains

of the Valley Link riders
on each "full route" peak period train would be transferring to BART

of the Valley Link riders
on each "full route" peak period train would be transferring to BART



# Agenda Item #8 Faster Bay Area Presentation





# Let's Build a FASTER Bay Area Together

Watch our Video

### The Bay Area is in a transportation crisis









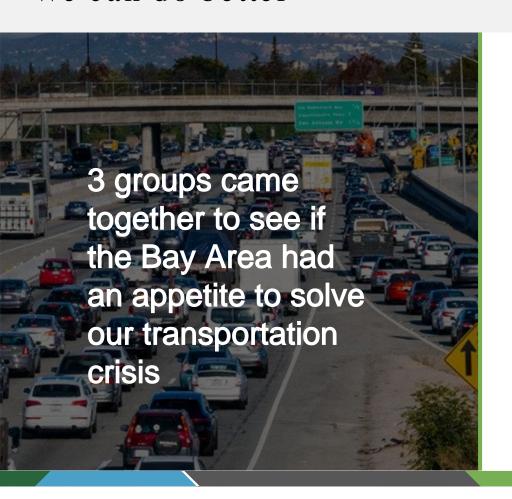
Transit ridership is down



\*Congestion up 80%, Transit down 11% since 2001, Emissions up 3% since 2010

### We can do better











### Comprehensive outreach campaign





9 Focus Groups



2 Region-wide Polls



**Online Survey** 



250+ Stakeholder Meetings



Town Halls Across Region

### Regular meetings with:

Equity & Transit Advocacy Orgs

**County Transportation Agencies** 

**Environmental Groups** 

**Labor Groups** 

Affordable Housing Groups

Voices for Public Transportation

### What we heard



### People:



Know the Bay Area is in a transportation crisis



Know that transforming transit is the solution



Willing to pay for transformational change



Want outcomes—fast, reliable, affordable, and integrated transit



Show little enthusiasm for specific projects, especially megaprojects

### The public wants meaningful reform



Pair big Bay Area transit tax with tough decisions...
There is no doubt about the need for a radical new approach to transportation."

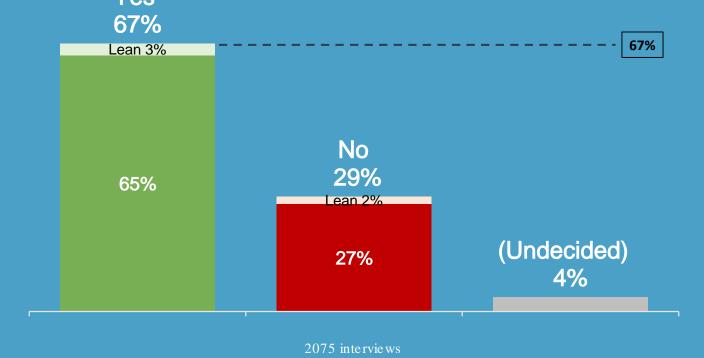
San Francisco Chronicle

The last thing we need is yet another ballot measure with a grab bag of projects. What's needed is a holistic approach that integrates the Bay Area's 26 bus, train and ferry agencies and nine congestion management agencies."

The Mercury News



# 1% Sales Tax increase to transform transit polls at 67% support Yes





# Seattle and Los Angeles have passed regional transit measures in 2016 of a similar scale







# The FASTER Vision: a Regional Transit Network that's faster than driving alone

### FASTER Transit is ...



### High quality service:



transit comes every 12 minutes in most places



transit is out of traffic—that means **faster** transit and fewer cars sitting in traffic

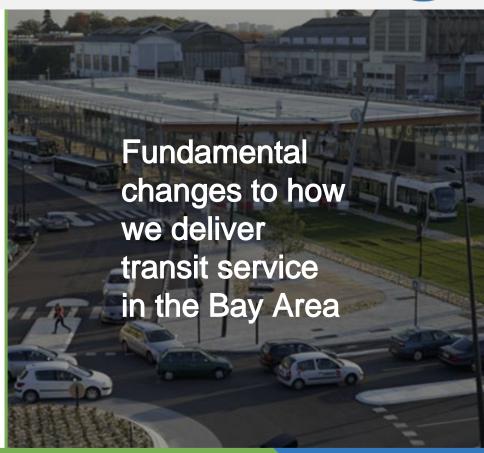


transit serves the entire region

### Delivering FASTER

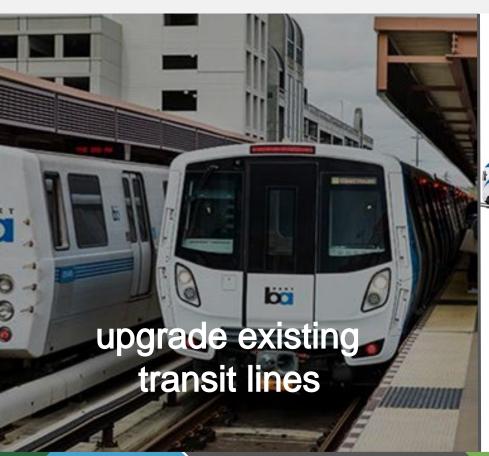


A \$100bn investment in a Regional Transit Network (FASTER Transit)



### FASTER will



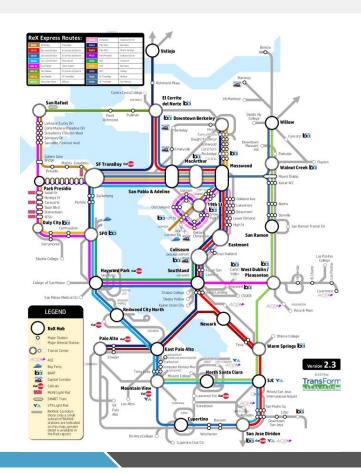




develop new transit lines

### FASTER may include...





A 9-County Rapid Bus Network running on a completed Express Lane Network

### Equitable



## The most equitable transportation revenue measure in Bay Area history



Shield low income families from the sales tax increase with a Sales Tax Fairness Credit



Exploring a mandate requiring the region's employers to invest in sustainable commutes for millions of workers



Provide massively discounted transit fares to students and low -income riders on a permanent basis

### Regional



## all communities receive their share of FASTER's transformative benefits:



Each commute shed will receive billions of dollars in guaranteed investment.



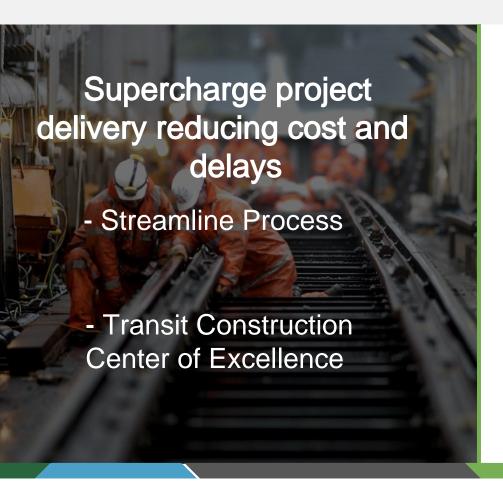
Each transit operator will receive guaranteed investments (including money for staff) to support local transit service and connecting communities to FASTER.



Each county will receive guaranteed investments to support safe walking, biking and micromobility use.

### Transforming how we do Transit





# Enable transit work as one regional network:

- Seamless customer experience across transit operators
- Regional network planned at the regional scale

### Outcomes first, projects second



We will only write into the measure FASTER Network projects that are sufficiently defined and can be delivered in a short enough time that we can project with confidence that they will be transformative —meeting objective performance metrics —and good value for money.

We will also put guardrails in the measure so that these projects would need to be re -evaluated for funding if they no longer deliver transformative outcomes or are good value for money.

### Transformative & result driven



### All projects funded for the FASTER Network will:



deliver transit that is faster than driving alone



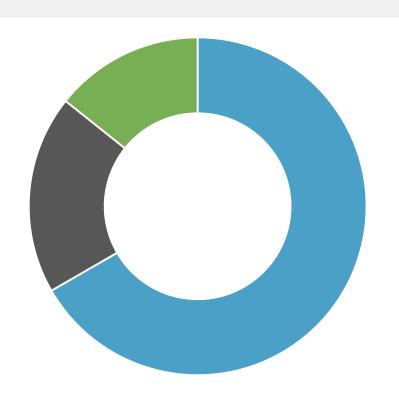
deliver transformative outcomes, based on objective performance metrics



be a good value for money

### Draft Expenditure Plan





- 1. FASTER Transit Network Build Out &
- Operations2. Connect to the FASTER Transit
- Network3. Make NetworkAffordable & Seamless

+ 4. Employer-Funded Sustainable Commute Subsidies

# 1: FASTER Transit Network Build Out & Operations





Upgrade existing service to FASTER standards



Expand and operate new FASTER lines, including:



 a new 9-county Rapid Bus Network running on a completed Express Lane Network

FASTER will serve the entire Bay Area, with guaranteed investments in each commute shed

### 2: Connect to the FASTER Transit Network





Local Transit: Service connecting communities to FASTER Transit Network



Active Transportation: Complete, connected bike & pedestrian networks, connecting communities to FASTER Transit Network, as well as jobs, schools and parks



Regional Transportation Innovation: Investments in emerging transportation technologies to increase access to the FASTER network

### 3: Make Network Affordable & Seamless





- Sales Tax Fairness Credit



- Means-based & student fares



- Funding integrated fares & seamless customer experience



- Funding construction & operations workforce development



- Funding a Project Delivery & Operations Excellence Center



- Funding and empowering service planning & coordination to ensure the FASTER Network operates as a single, seamless system

# 4: Employer-Funded Sustainable Commute Subsidies



# A mandate requiring the region's large employers to invest billions of dollars in the sustainable commutes of millions of their workers

# Potential Min. Standards for FASTER Network Investments



Rapid = frequencies of 12 minutes or less in most places
 = faster than solo driving (during peak)



- Reliable = Out of traffic (or prioritized over it)



- Networked = synched scheduling and short wait times; shared hub stations; uniform fare system, FASTER branded wayfinding



- Sustainable = congestion reducing (decrease vehicle miles traveled), sea level rise ready



- Fully Funded = Funding for project construction & operations identified 4 years after first FASTER funding commitment, and before project construction funds released



- Regional Connections = Connects to growing dense and transit -oriented population centers, major transit -oriented job centers, and major transit -oriented education or healthcare institutions



Efficiently Delivered = Best -practices for project delivery / operations excellence

#### Potential Prioritization Framework for FASTER Network Investments





- Cost effectiveness



- Ridership



- Seamless connection to the FASTER network



- Connections for disadvantaged communities, and policies to protect residents vulnerable to displacement



 Connections to communities that are planning for affordable and middle -income housing



This FASTER Transit Network would attract hundreds of thousands more riders onto transit, and significantly reduce congestion for drivers.

#### Next steps





#### Outreach continues

**Local Elected Leaders** 

Regional Stakeholders

State Legislators

Riders



#### Technical Advisory Group

MTC, Caltrans, County Transportation Agencies, Transit Agencies (meeting every 2 weeks)





Regular Updates to MTC Commission, Transit Agency Boards,

County Transportation Agency Boards



Synching up with Plan Bay Area 2050



Initial legislative structure, SB 278 (Beall), in development



# Join Us

Learn more and take our survey at www.FASTERBayArea.org

Contact us at Info@FASTERBayArea.org

# Agenda Item #9 Zero Emission Vehicle Options

### What Is Zero-Emission?

 Zero emission means what comes out of the trains is free of pollutants

 There is more than one way to implement a zero-emission train



Joe Raedle/Getty Images



## Zero Emission Trains – Hydrogen Fuel Cell Electric

- 18 Alstom iLINT trains are in use in Germany
- Stadler is building a hydrogen train for San Bernadino







### Electric

- Commuter rail electric trains use overhead wires for power
- Low-speed, short-range trains like streetcars can be completely off-wire or partial off-wire

 A partial off-wire system is possible for commuter service





# Sources of Energy – Hydrogen Fuel Cell

- Hydrogen can be purchased and stored
- It can also be made two ways -
  - Using natural gas, water and electricity
  - Using just electricity and extra water

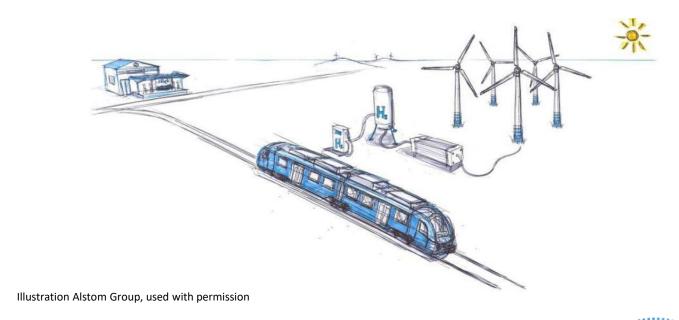




Connecting People, Housing, and Jobs

## Sources of Energy – Hydrogen Fuel Cell

Electricity can be generated on site to power a hydrogen fuel plant





# Sources of Energy - Electric

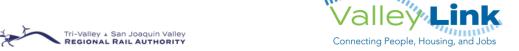
 Batteries can charge in motion with overhead wire in the middle segment of Valley Link, and potentially at the terminal stations

 Electricity can be generated on site to power the overhead wires and chargers



# Resiliency

- Energy storage, fuel or electricity is needed when:
  - hydrogen generation plant is down
  - solar power is low
  - utility power is not available
- Typically, overhead wire systems use more than one utility circuit for back up
- Overhead wire "traction power" systems can charge back up batteries to power trains and systems



### Cost

• \$150M would be needed for either zeroemission upgrade

 This is an "order of magnitude" amount that can be refined with further study



### Grants

 CARB and TIRCP offer grants for projects that are shown to lower emissions

 Other grant monies may be available if the project is shown to provide more pollution-reduction benefits

