

Caltrain

Advocacy and Major Projects Committee

February 22, 2023







Northern California's Megaregion Today

Economy, Jobs & Housing:

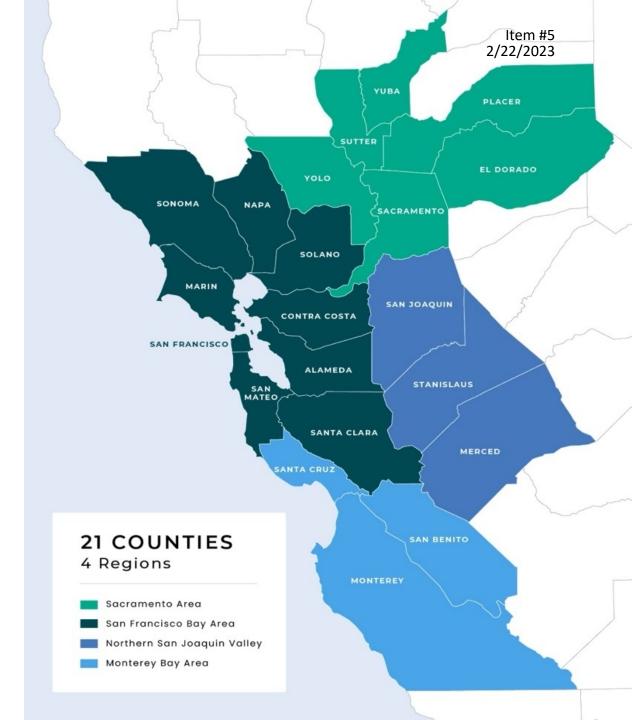
- Fifth largest megaregional economy in country
- Jobs and affordable housing imbalance

Roadway Congestion & Climate Risks:

- Persistent traffic
- Climate and health-damaging air pollution

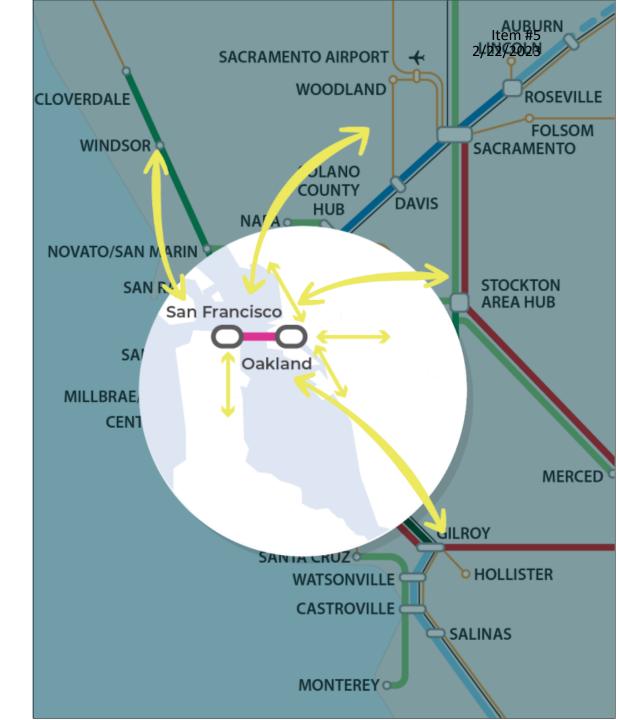
Passenger Rail Service & Infrastructure:

- Inconvenient, disconnected train network with limited routes and service
- One rail crossing of Bay (BART Transbay Tube)



Link21: A Program of Projects

- A new transbay passenger rail crossing between Oakland and San Francisco (BART, regional rail or both)
- Synergies between rail projects throughout the Megaregion to reduce the perceived distance between destinations
- Network improvements for both regional rail and BART: better travel time, frequency, hours of service, new markets



Link21 Unlocks Travel Potential

Markets

Better Megaregional connectivity

Service

- Improved travel, frequency with some one-seat rides, and faster transfer opportunities
- More capacity, service redundancy and reliability, between BART and Regional Rail

Technology

Greener, lighter, and faster trains

Infrastructure

Enhanced tracks, signaling, structures, and facilities



Link21: Modern Trains and Service

Example: Caltrain EMU

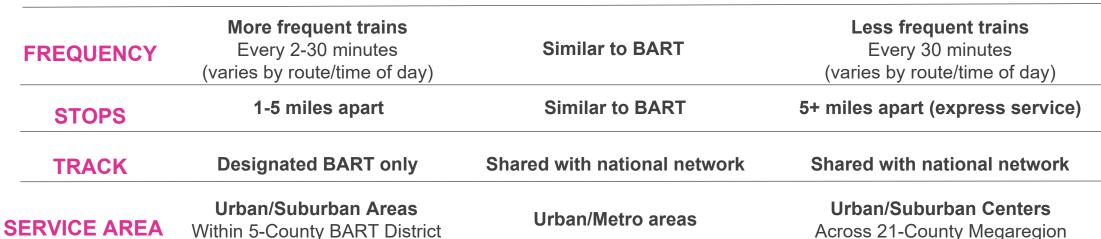
BART

MODERN REGIONAL RAIL

URBAN METRO SERVICE







NEW TRAIN TECHNOLOGY that is greener, lighter, and faster



Link21 and the Caltrain Corridor

- Caltrain assumptions from Caltrain Service Vision (start with 6TPH per PBA2050)
- Modern vehicles (standard gauge, zeroemission) compatible with Caltrain EMU
- Electrification and Downtown Extension / The Portal are important predecessor projects to Link21





Sources: Caltrain (EMU) and SFCTA (DTX map)

Megaregional benefits: Peninsula / San Francisco to East Bay

More connectivity

 Peninsula direct to Oakland, Berkeley, other East Bay destinations

Improved travel time and traveler convenience

- New Regional Rail crossing would enable some trips without a transfer
- New BART crossing would enable additional transfer points to Regional Rail

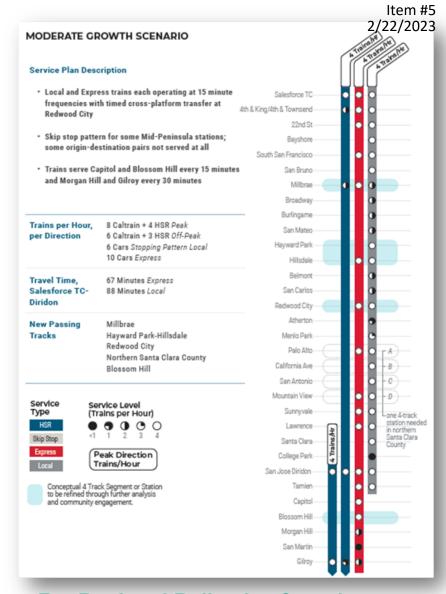
More train service

- Potentially up to 5 min. frequency
- Caltrain to increase frequencies with new electric-powered fleet



Service Considerations

- Regional Rail Crossing 10 TPHPD
 - 6 Caltrain connect to East Bay through crossing
 - Metro Service operation (higher frequency, more stops)
 - 4 TPHPD from East Bay turn at STC
 - Express / Intercity Service (lower frequency, fewer stops)
 - Potential to increase service in crossing consistent with Caltrain's Vision
- HSR 4TPHPD to STC
- BART (New) Crossing 24TPHPD
 - Existing BART tube assumed 30 TPHPD
 - Results in increased frequency on all East Bay BART lines



For Regional Rail, mix of service types and stopping patterns - similar to Caltrain service



Link21 Program Timeline

PHASE 0 (2019 - 2022)

PHASE 1 (2022 – 2024)

PHASE 2 (2024 – 2028) PHASE 3 (2028 – 2039)

PROGRAM DEFINITION

- Business Case Framework
- Problem & Vision Statement
- Goals & Objectives

PROJECT IDENTIFICATION

- Preliminary Business Case
- Identify Project Concepts

PROJECT SELECTION

- Intermediate Business Case
- Project Alternative(s)
- Environmental Review
- Final Business Case & Implementation Strategy

PROJECT DELIVERY

- Funding Strategy
- Design
- Construction
- Testing & Commissioning
- Ready for Service



Link21's Four-Part Business Case



STRATEGIC CASE



- Passenger
 Experience
- Community, Livability, and Equity
- Economic Growth and Competitiveness
- Environmental Stewardship
- Land Use



ECONOMIC CASE

What are the economic costs and benefits?

- Benefit/Cost Analysis
- User benefits
- Business and Employment



FINANCIAL CASE

What is the financial viability?

- Revenue Generation
- Cost Effectiveness
- Funding Opportunities
- Financing Options



DELIVERABILITY & OPERATIONS CASE

What is required to deliver and operate the project?

- Governance
- Project Risks
- Construction and Operations
- Network Functionality

