



CONNECT NORTHERN CALIFORNIA

City of Alameda Transportation Committee

March 22, 2023



March 2023

DRAFT-DELIBERATIVE



LINK21 PROGRAM OVERVIEW



Northern California's Megaregion Today

Economy, Jobs & Housing:

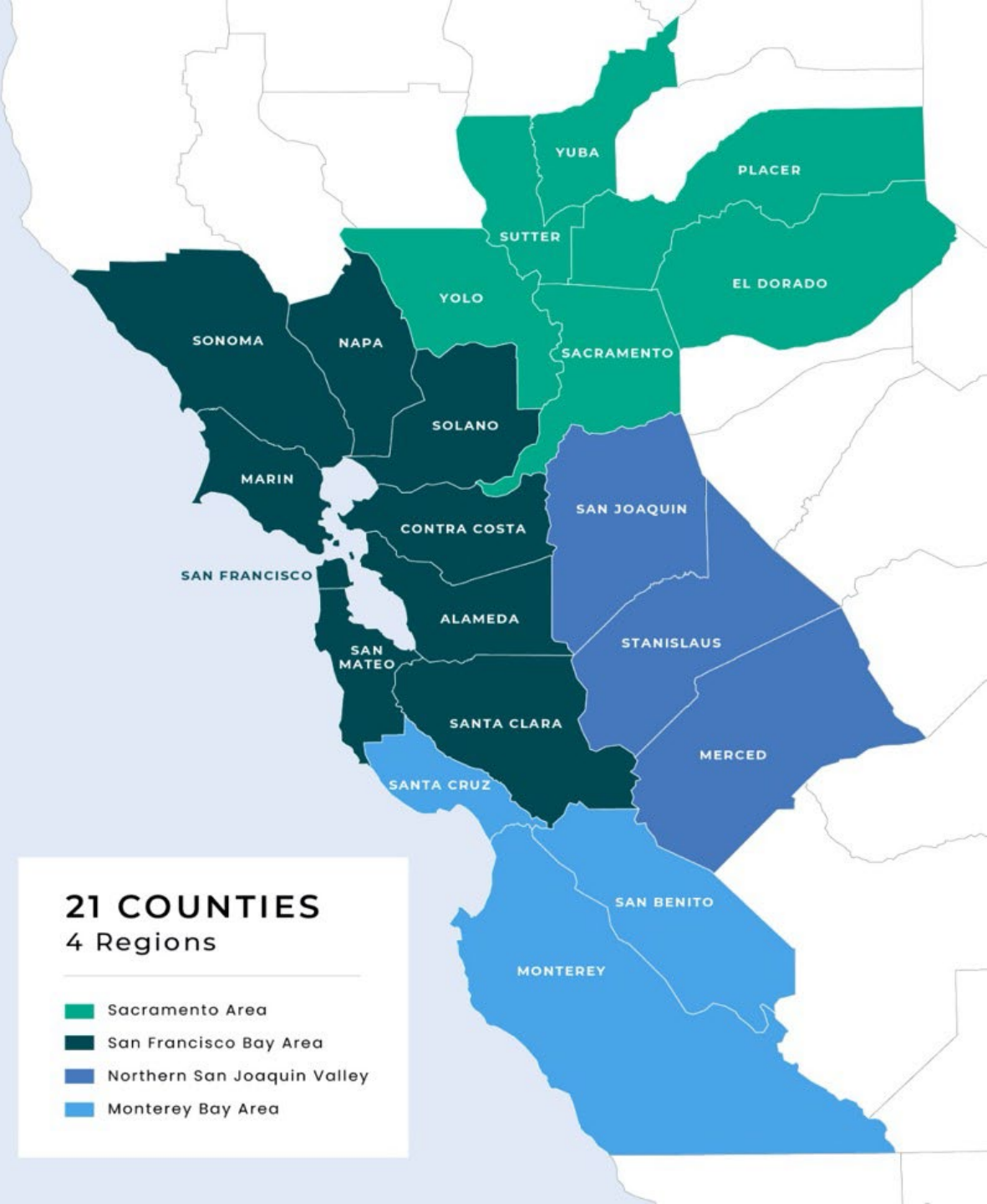
- Fifth largest megaregional economy in country
- Jobs and affordable housing imbalance

Roadway Congestion & Climate Risks:

- Persistent traffic
- Climate - and health-damaging air pollution

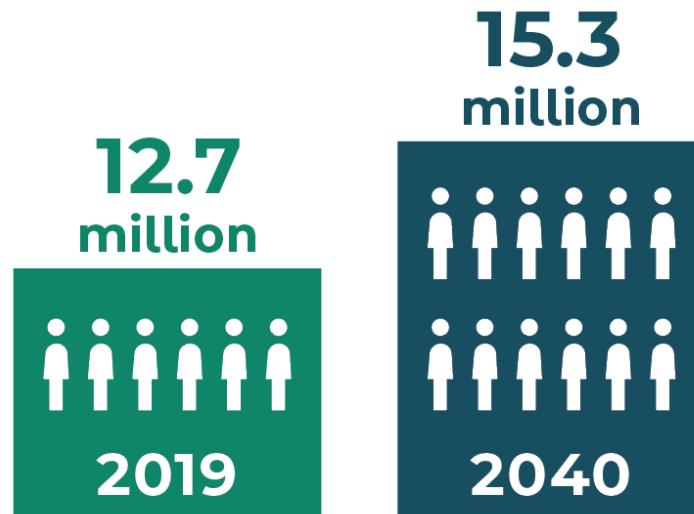
Passenger Rail Service & Infrastructure:

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



Projected Growth from 2015 to 2040

20% ↑
In population



26% ↑
In daily trips within
San Francisco Bay Area
(estimated 28 million)*



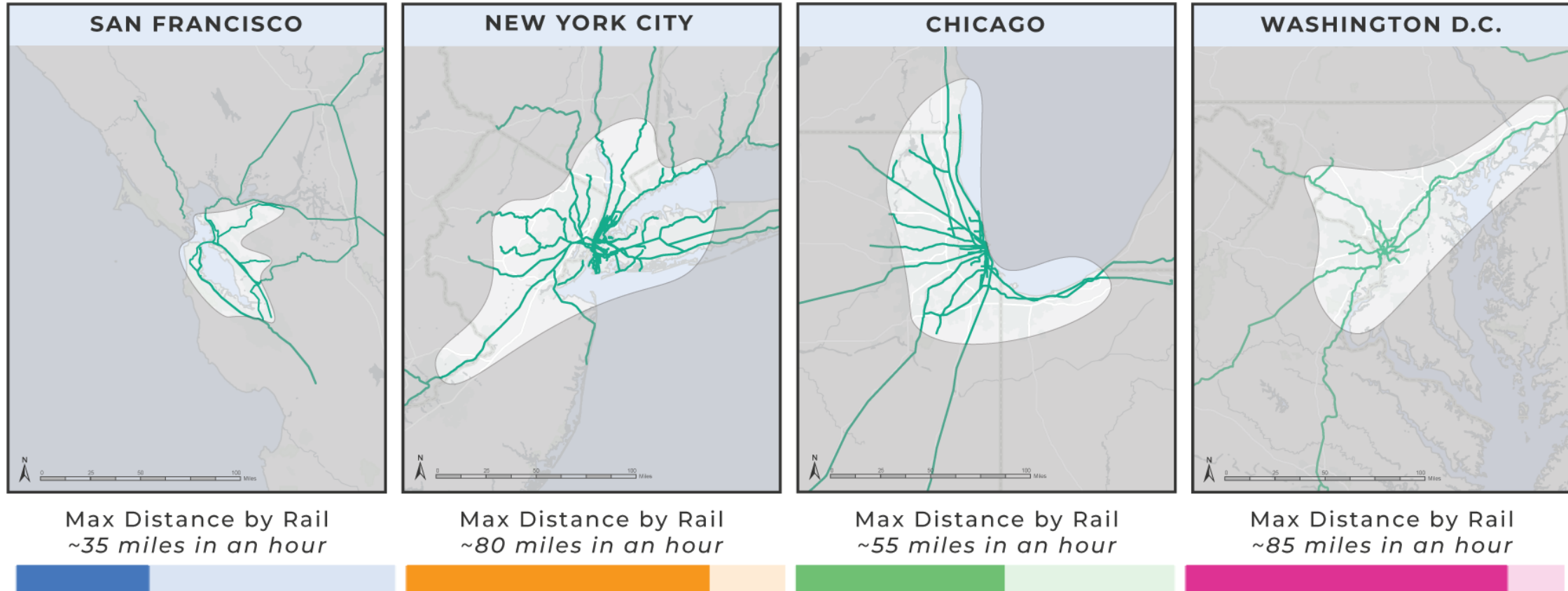
64% ↑
In daily trips between
Bay Area and other counties
(estimated 800,000)*



* Projected increase from 2015 to 2040



One Hour Commute Sheds by Megaregion



LEGEND

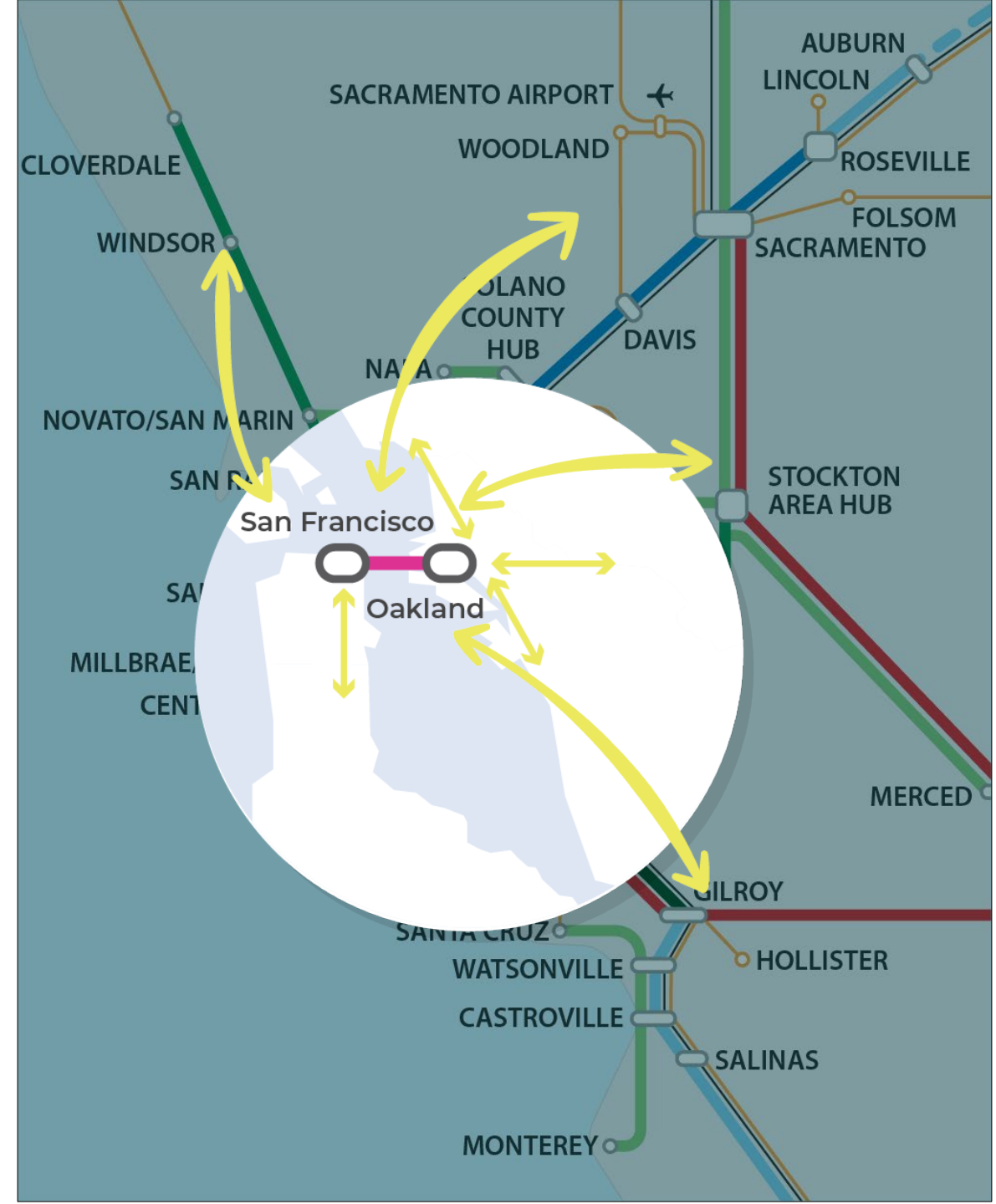
- Areas accessible from each city's downtown within 1-hour of travel by passenger rail. Data is based on agency timetables.
- Passenger rail lines, excluding light rail, that connect directly to each city's downtown. On the San Francisco map, rail lines that do not directly connect to downtown are also shown.

Link21: A Program of Projects

A new transbay passenger rail crossing
between Oakland and San Francisco (BART or Regional Rail)

Improvements to both BART & Regional Rail
better travel time, frequency, hours of service, new markets

Synergies between projects in Megaregion
reduce perceived distance between destinations



Link 21 Goals & Objectives

TRANSFORM THE PASSENGER EXPERIENCE

- Provide better service
- Improve reliability and system performance
- Build ridership and mode share



PROMOTE EQUITY AND LIVABILITY

- Connect people and places
- Improve safety, health, and air quality
- Advance equity and community stability



SUPPORT ECONOMIC OPPORTUNITY AND GLOBAL COMPETITIVENESS

- Improve access to opportunity and employment
- Connect major economic, research, and education centers
- Enable transit-supportive and equitable land use



ADVANCE ENVIRONMENTAL STEWARDSHIP AND PROTECTION

- Increase climate change resilience
- Reduce greenhouse gas emissions
- Conserve resources



Equity at Link21 Core

1. Equitable Engagement, Analysis, and Planning

- Direct and accessible engagement

2. Community-Based Partnerships & Co-Creation

- Prioritizing communities that have been marginalized
- Partnering to understand needs and identify opportunities

3. Equity Advisory Council (EAC)

- 18 Members from the Megaregion
- Two representatives from Alameda
- Launched in February 2022

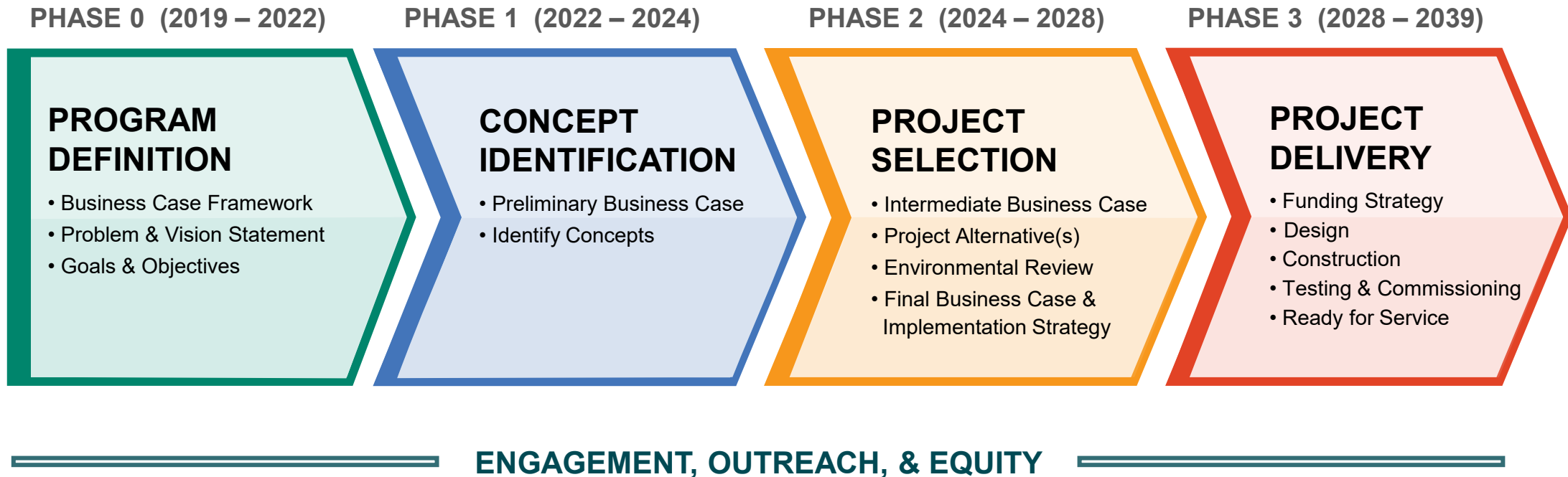


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Link21 Program Timeline



LINK21 ENGAGEMENT & OUTREACH



Multi-Faceted Engagement



Communication Tactics

- Informational/Education Materials
- Interactive Website
- Social Media/Media Relations
- Electronic Notifications



Engagement Tactics

- Stakeholder Partnerships
- Briefings/Presentations/Community Tabling Events
- In-person and Virtual Public Meetings/Workshops
- Survey/Polling





What We've Heard From Alamedans



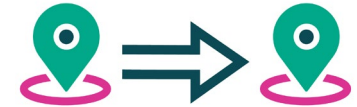
“Strong desire for Station in Alameda”

- Webster / Atlantic bus stop (busiest City stop)
- Seaplane Lagoon Ferry Terminal (also serves AC Transit)
- College of Alameda
- High-density residential in West Alameda / Southern Alameda Point



“Improved Connection to Megaregion”

- Walkability and access to BART
- Better Regional Rail connections
- Interest in more integrated network



“Connect Alameda to East Bay”

- Improved travel options between Alameda and Oakland or areas within East Bay

An aerial photograph of a multi-lane highway interchange. A semi-transparent white banner with a diagonal cutout on the right side is overlaid across the center of the image. The banner contains the text 'CONCEPT DEVELOPMENT & ANALYSIS' in a dark teal, sans-serif font. The background shows several cars on the highway, green trees along the roadside, and a 'STOP' sign at an intersection in the bottom right corner.

CONCEPT DEVELOPMENT & ANALYSIS

Business Case Framework



STRATEGIC CASE

What are the Megaregion benefits?

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



ECONOMIC CASE

What are the economic costs and benefits?

- Benefit/Cost Analysis
- Business and Employment
- Jobs and Housing



FINANCIAL CASE

What is the financial viability?

- Revenue Generation
- Funding Opportunities
- Financing Options



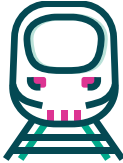
DELIVERABILITY & OPERATIONS CASE

What is required to deliver and operate the project?

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



Link21: Modern Trains and Service

	BART	MODERN REGIONAL RAIL URBAN METRO SERVICE EXAMPLE: CALTRAIN EMU	MODERN REGIONAL RAIL LONG DISTANCE SERVICE
			
FREQUENCY	More frequent trains Every 2-30 minutes (varies by route/time of day)	Similar to BART	Less frequent trains Every 30 minutes (varies by route/time of day)
STOPS	1-5 miles apart	Similar to BART	5+ miles apart (express service)
TRACK	Designated BART only	Shared with national network	Shared with national network
SERVICE AREA	Urban/Suburban Areas Within 5-County BART District	Urban/Metro areas	Urban/Suburban Centers Across 21-County Megaregion

NEW TRAIN TECHNOLOGY that is greener, lighter, and faster



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



Initial Concepts A & B: Regional Rail in Crossing

Regional Rail Salesforce Transit Center via Alameda

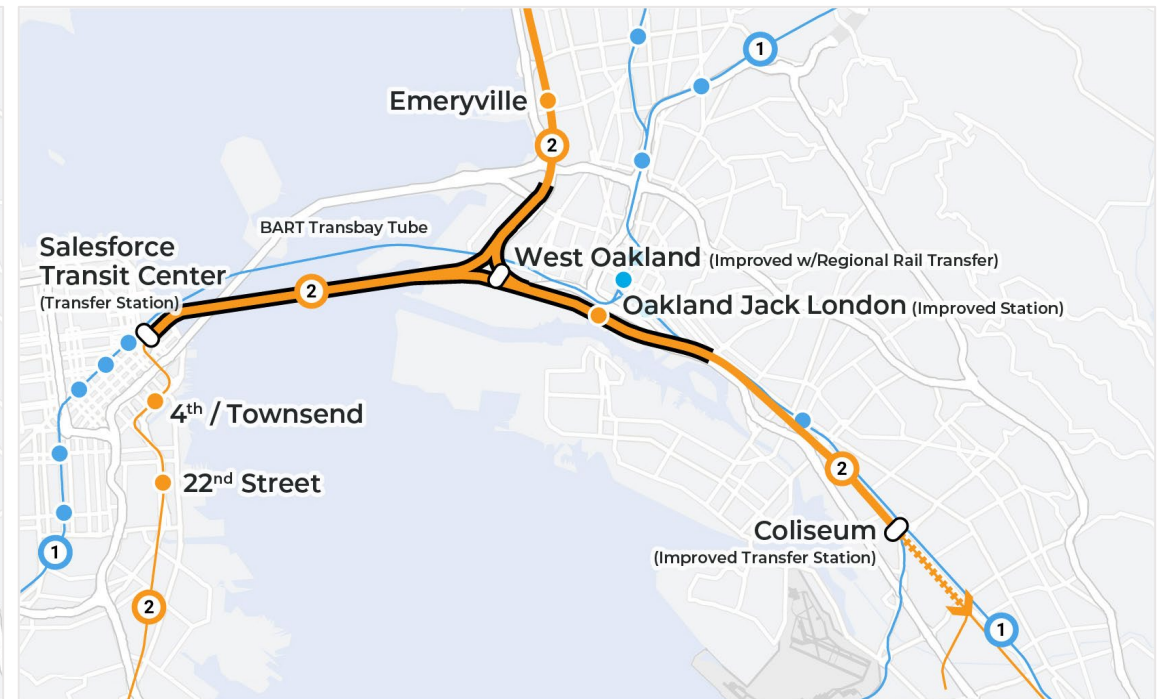


- 2 Regional Rail Concept
- 2 Regional Rail Concept (Tracks Underground)
- 2 Regional Rail Concept (Possible Improvements)

Stations

- 1 BART
- 2 Regional Rail
- Transfer

Regional Rail Salesforce Transit Center via Port



- 1 BART Concept
- 1 BART Rail Concept (Tracks Underground)
- 1 BART Rail Concept (Possible Extension)

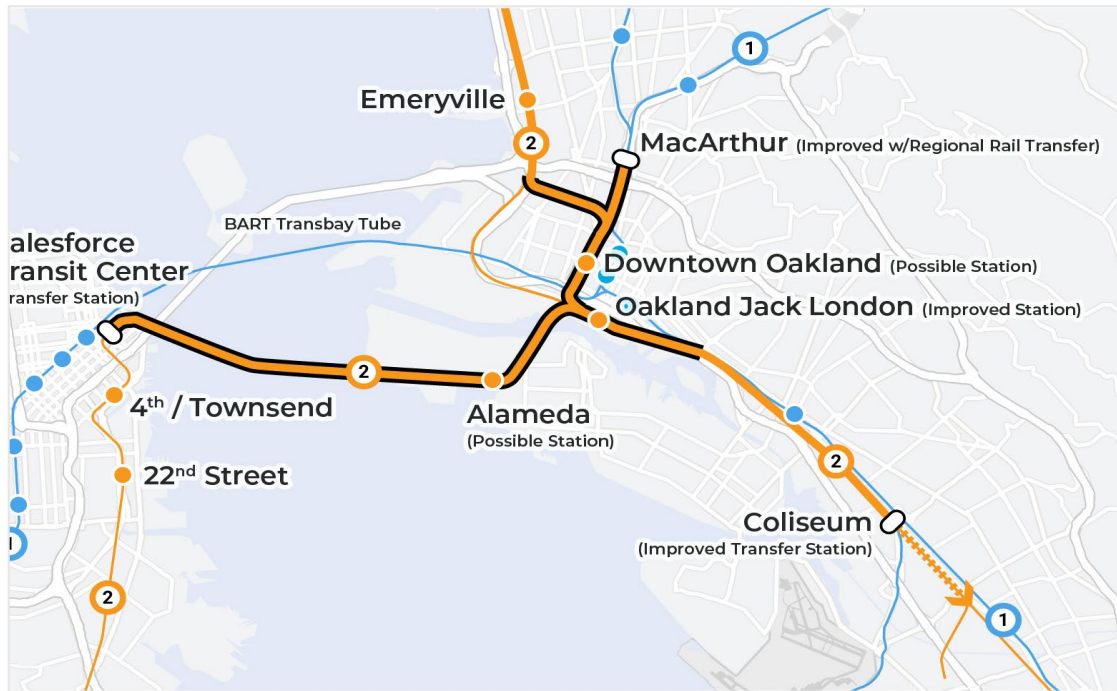
Existing and Planned

- 1 BART
- 2 Regional Rail



Initial Concepts C & D: Regional Rail in Crossing

Regional Rail Salesforce Transit Center to
MacArthur via Alameda

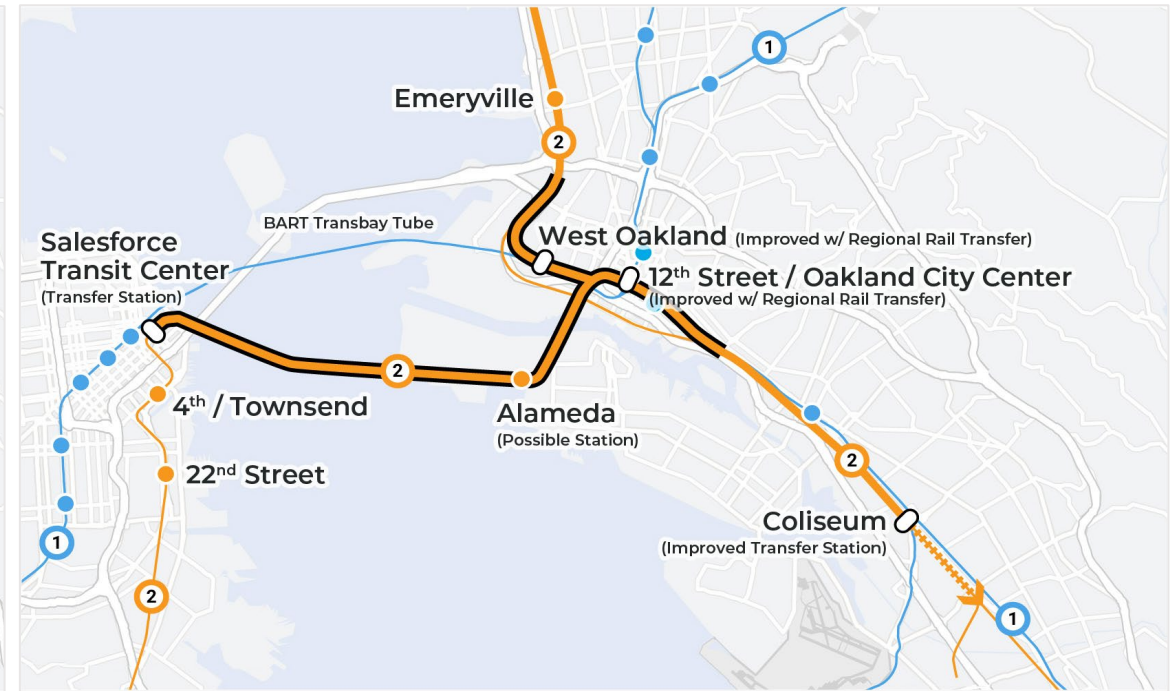


- Regional Rail Concept
- Regional Rail Concept (Tracks Underground)
- Regional Rail Concept (Possible Improvements)

Stations

- BART
- Regional Rail
- Transfer

Regional Rail Salesforce Transit Center to
Oakland City Center via Alameda



- BART Concept
- BART Rail Concept (Tracks Underground)
- BART Rail Concept (Possible Extension)

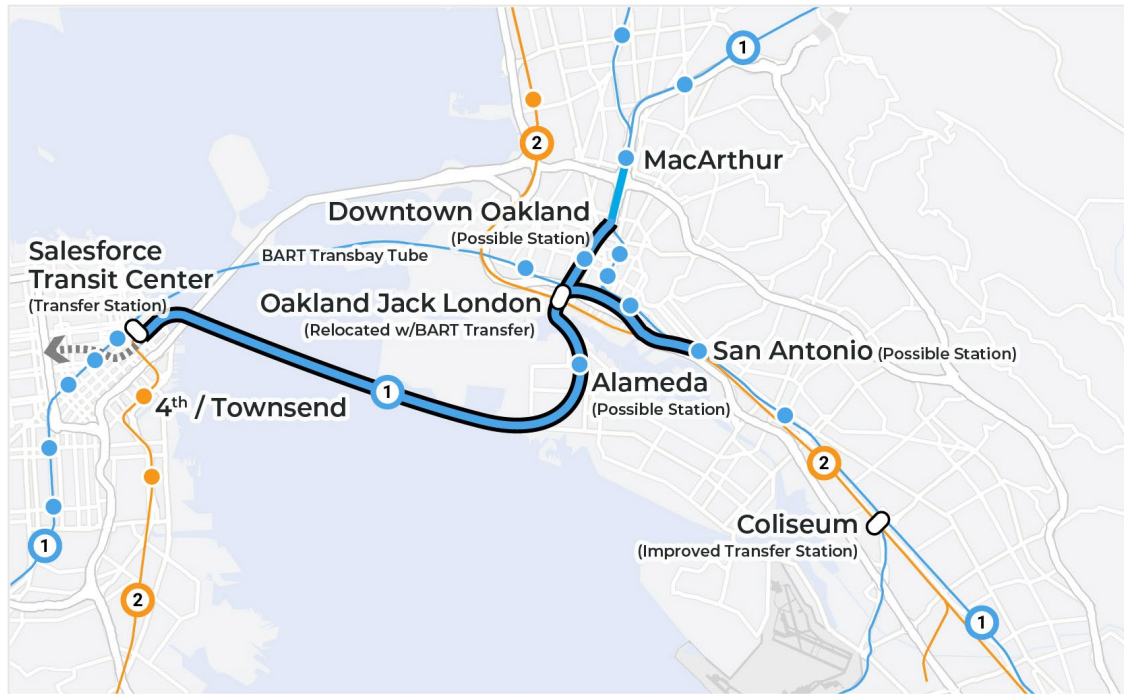
Existing and Planned

- BART
- Regional Rail



Initial Concepts E&F: BART in Crossing

BART 1st & Howard via Alameda

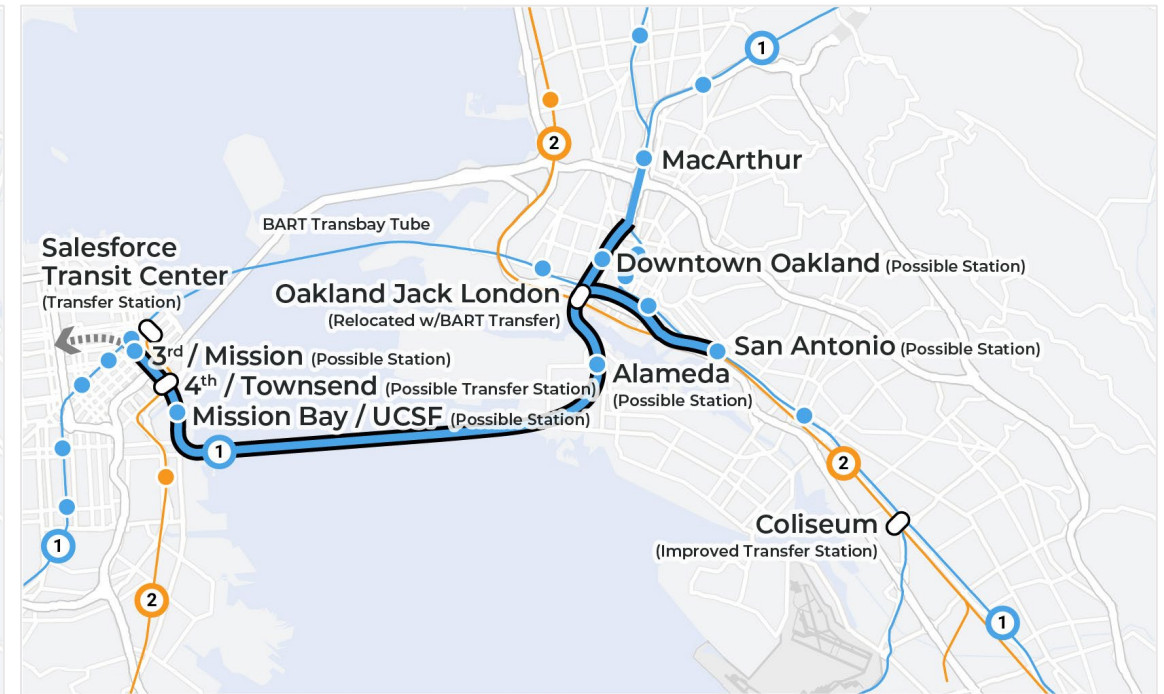


- 2 Regional Rail Concept
- 2 Regional Rail Concept (Tracks Underground)
- 2 Regional Rail Concept (Possible Improvements)

Stations

- 1 BART
- 2 Regional Rail
- Transfer

BART 3rd & Mission via Mission Bay and Alameda



- 1 BART Concept
- 1 BART Rail Concept (Tracks Underground)
- 1 BART Rail Concept (Possible Extension)

Existing and Planned

- 1 BART
- 2 Regional Rail



Next Steps for Link21

Ongoing Activities

- Collaboration with City and Agency
- Megaregional Stakeholder Engagement
- Identification of Phase 2 funding
- Concept Refinement

Program Milestone Activities

- **Summer & Fall 2023:**
Megaregional Outreach Events
- **Spring 2023:**
Concept Identification



March 2023

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Thank you!

For more information visit
Link21Program.org

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