### Modeling Transformational Changes to Transit

SPUR San Jose

July 23, 2019

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### Mission



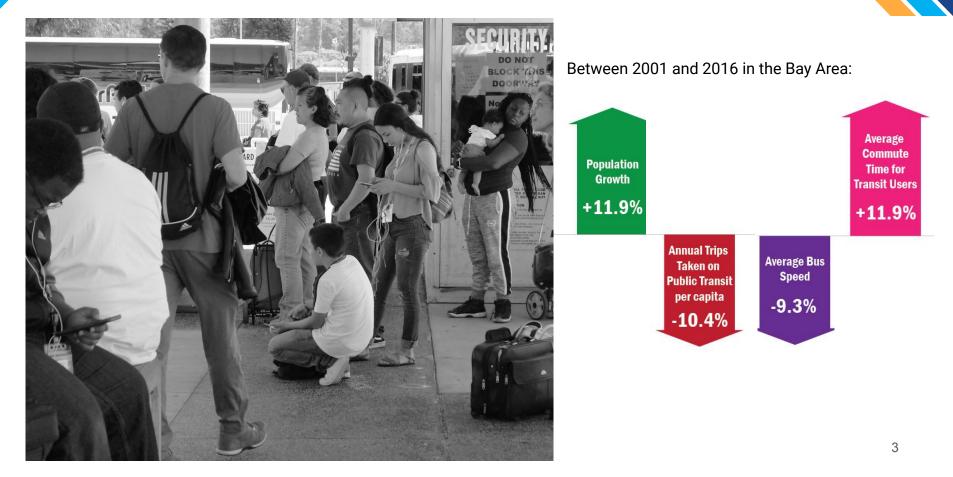
Transform the Bay Area's fragmented and inconvenient public transit into a world-class, unified, equitable, and widely-used system by building a diverse movement for change and promoting policy reforms.

To get there, we are:

- Articulating a clear vision
- Raising public awareness & grassroots support, building coalitions
- Changing professional culture
- Advancing legislative reforms
- Tactical advocacy

### Transit should be the backbone of the Bay Area, but is not keeping up

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# Our Fragmented Regional Network is not working for anyone

- Billions spent on new transit investments have been ineffective at increasing ridership or reducing driving; not aligned with state goals
- 27 different agencies provide transit service separately with little coordination and no regional vision.
- Rapid technological change and new forms of mobility create new urgency



# What Kinds of Projects do we Invest In?

**Recent Projects** 

- Warm Springs BART (2017) 886 net new daily entries (7,200 projected by 2025)
- SMART (2017)
  - 2,000 daily riders (4,800 projected by 2025)
- BART to Antioch (2018) 1,170 net new daily entries (5,400 projected by 2030)
- Rapid Bus Lines in San Francisco Up 22% in 3 years (X0,000's new riders)
- BRT lines, San Jose

(net new 53,000 bus riders projected by 2040)

Unfunded / Minimally Studied Projects

- Second Transbay Tube
- Express Bus Network
- Integrating Transit Fares
- Integrated Regional Rail Network
- Coordinated Schedules
- Coordinated Branding

# **Project Development Process**

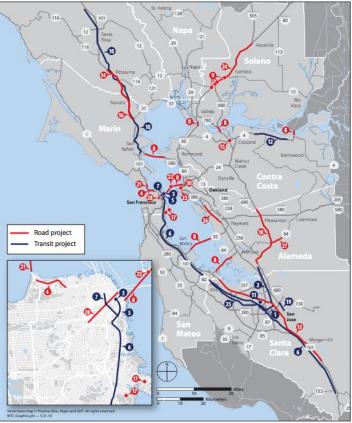


\*Plan Bay Area and Countywide Transportation Plans

### Missing:

- Strategic regional vision to drive project identification
- Network-driven approach
- Specific direction on how & where to expand access to housing & jobs

#### Projects in the 2017 TIP with Costs Greater than \$200 Million

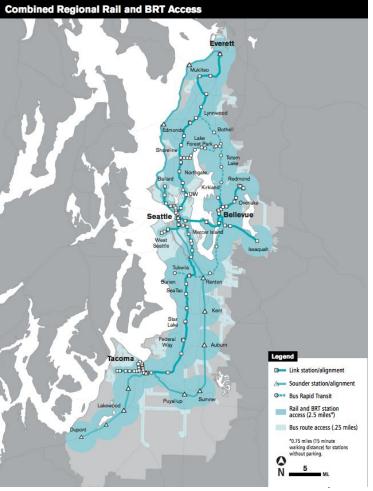


# A Network Approach

- Envision an integrated network;
- Set ambitious goals
  - "Double transit ridership by 2040"
  - "Increase # of jobs within ¼ mi. of transit by 50%"
  - "Reduce travel time between major centers"
- Prioritize transit projects that advance network goals

#### TABLE 8: Projected transit travel times and transfers between selected centers

	Existing Transit Time	Expected 2040 Transit Time without ST31	Expected 2040 Transit Time due to ST3 <sup>1</sup>
University of Washington to Everett	73 min*	60 min*	53 min
Seattle to Mariner Park-and-Ride	55 min	52 min*	41 min
Bellevue to Ballard	70 min*	58 min*	36 min*
University of Washington to West Seattle	30 min*	37 min*	23 min
Bellevue to Issaquah	25 min	28 min	18 min
Federal Way to Stadium	61 min*	56 min*	44 min*
Tacoma to Sea-Tac Airport	44 min	50 min	33 min





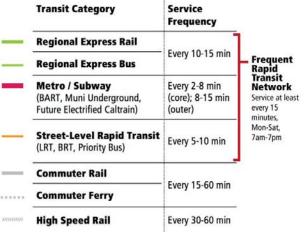
### **25+ Transit Agencies**

- No common service standards
- Minimal integration
- Planning on an agency-by-agency level

### Seamless Bay Area Vision Map

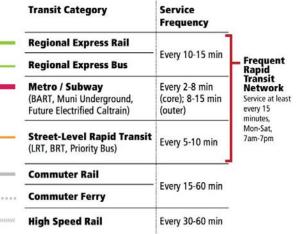


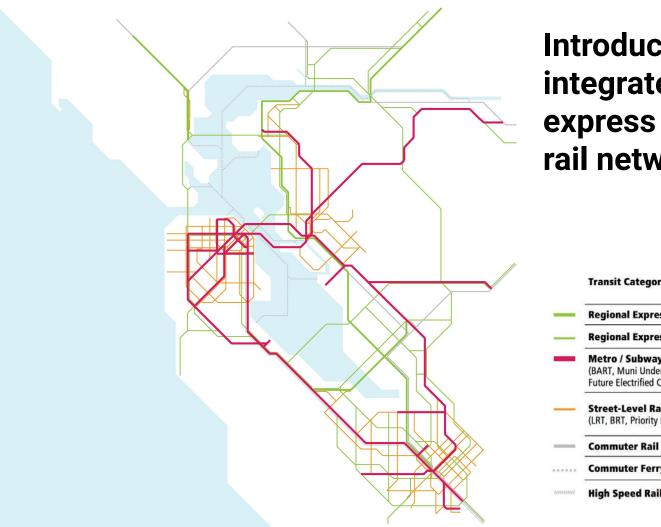
Integrate fares, branding, and service standards



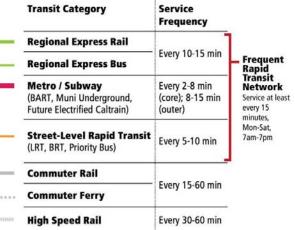


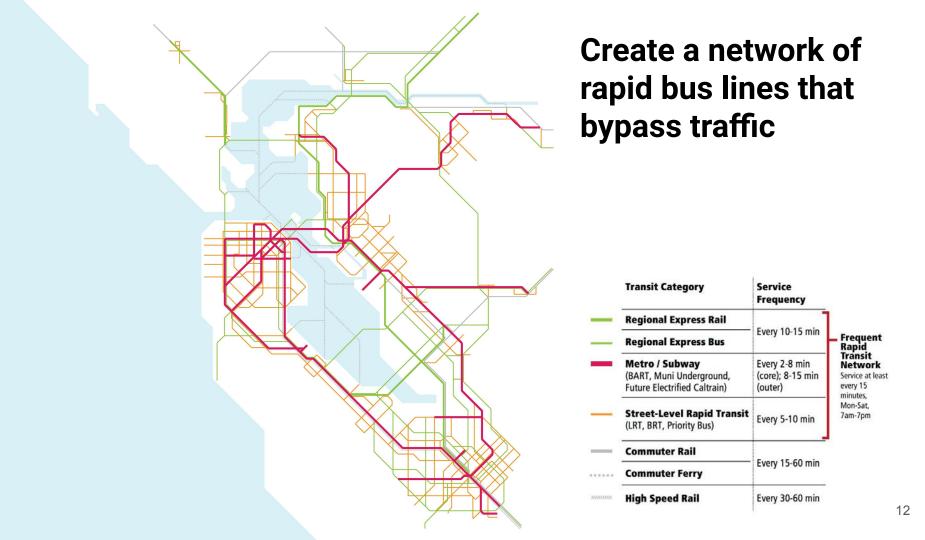
Expand and integrate BART, an electrified Caltrain, and light rail to create a seamless metro network

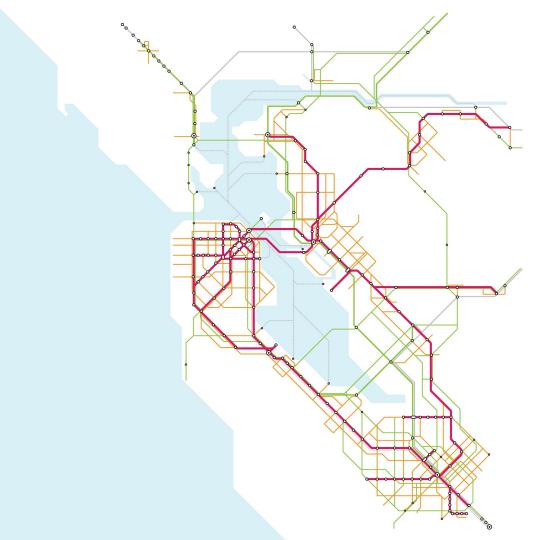




Introduce an integrated regional express bus + express rail network;

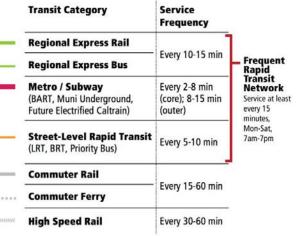






### Create a network of mobility hubs with seamless connections, common wayfinding.

- Interregional Hub
- 00 Transit Station
- Transit Stop / Terminal (Not exhaustive)





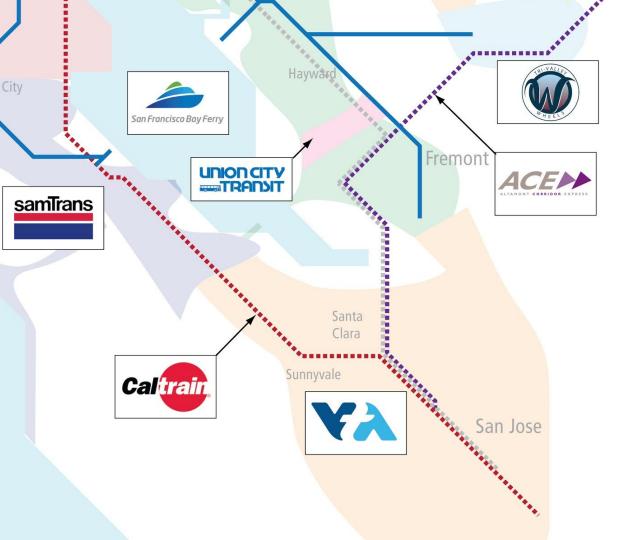
### Plan, build and operate the network as a seamless, integrated system.

- Interregional Hub
- oo Transit Station

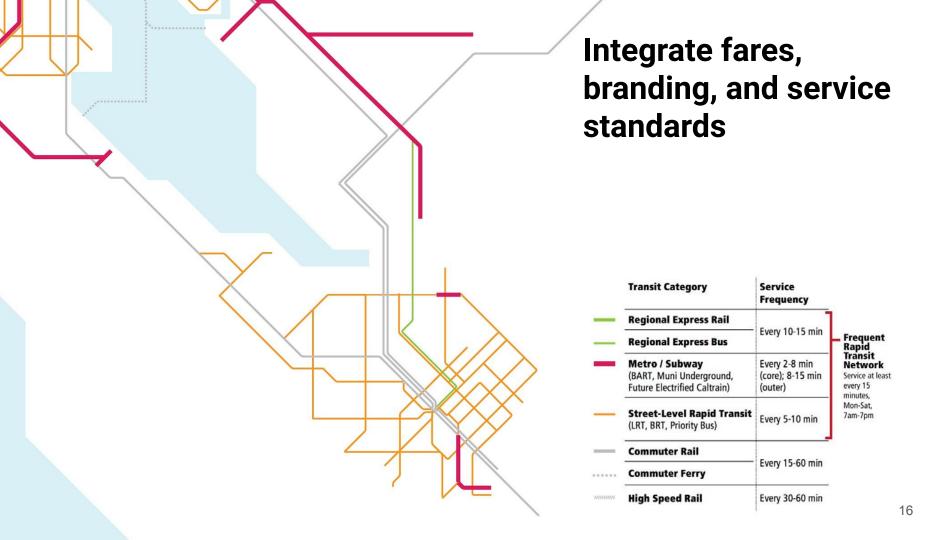
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Transit Stop / Terminal (Not exhaustive)

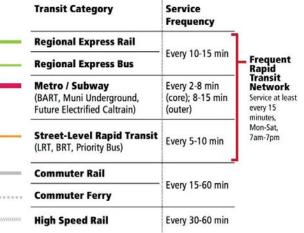
Transit Category	Service Frequency	
Regional Express Rail	-	
Regional Express Bus	Every 10-15 min	Frequent Rapid
Metro / Subway (BART, Muni Underground, Future Electrified Caltrain)	Every 2-8 min (core); 8-15 min (outer)	Transit Network Service at least every 15 minutes,
Street-Level Rapid Transit (LRT, BRT, Priority Bus)	Every 5-10 min	Mon-Sat, 7am-7pm
Commuter Rail	5	
Commuter Ferry	Every 15-60 min	
High Speed Rail	Every 30-60 min	

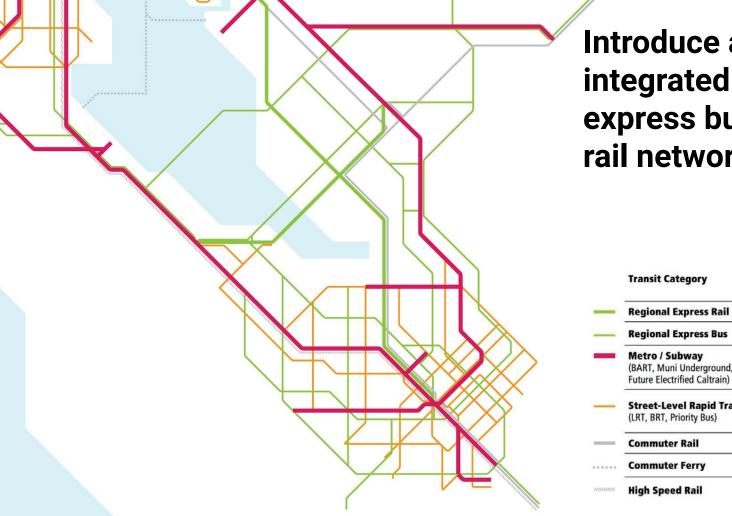


### South Bay / San Jose Detail

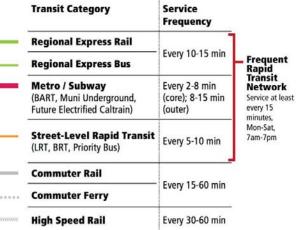


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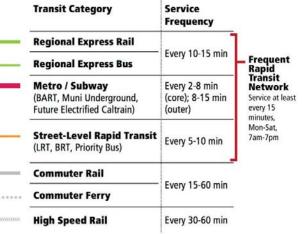
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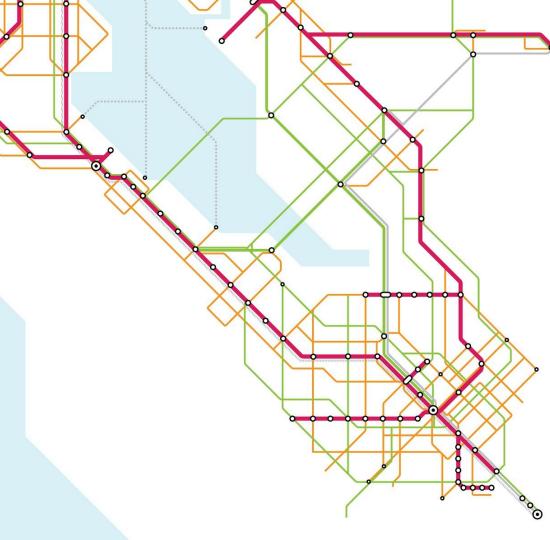


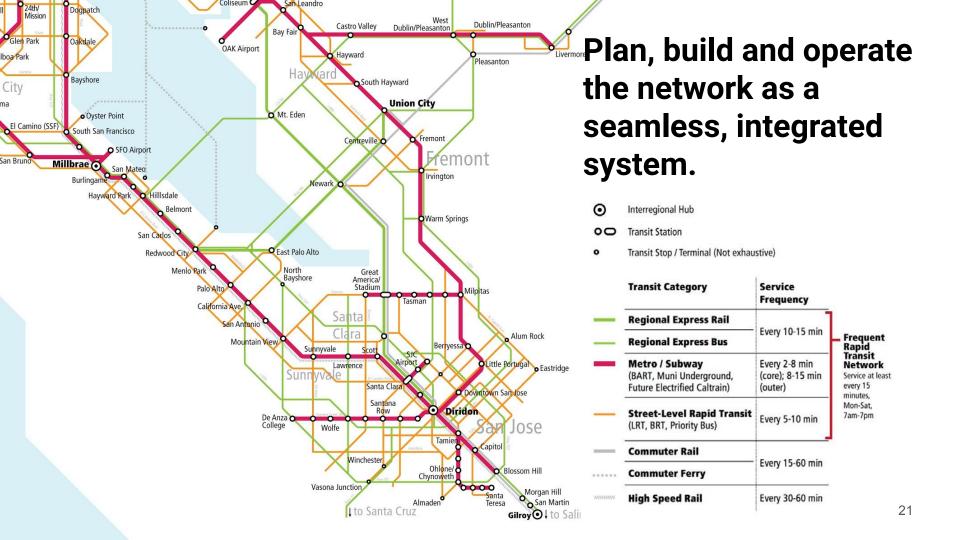


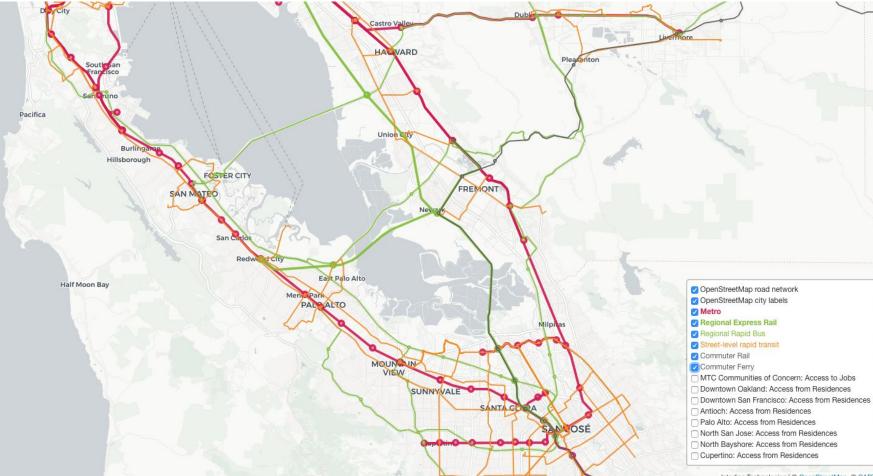
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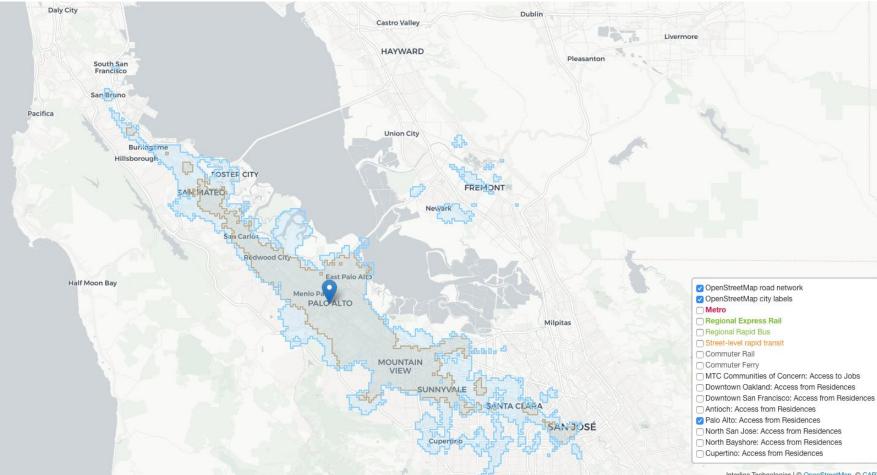




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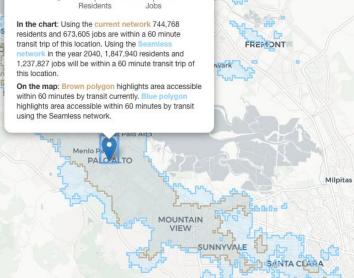


Interline Technologies | © OpenStreetMap, © CARTO



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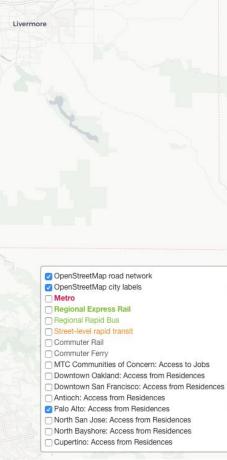
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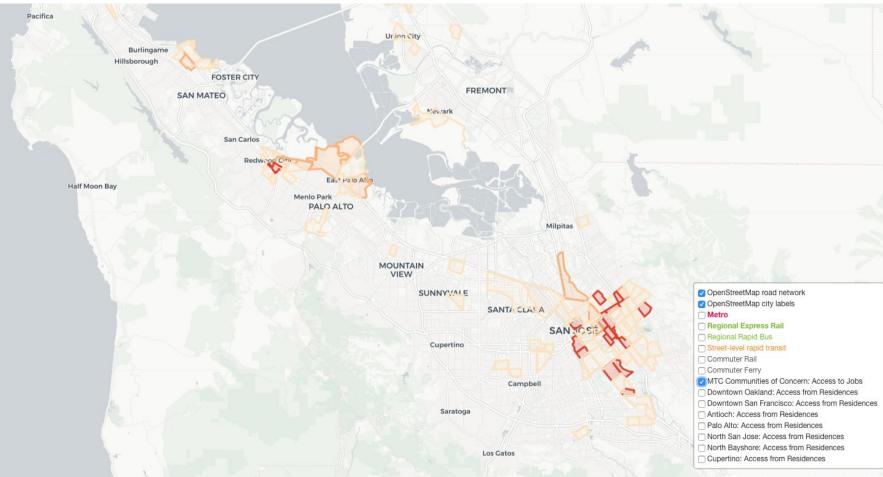
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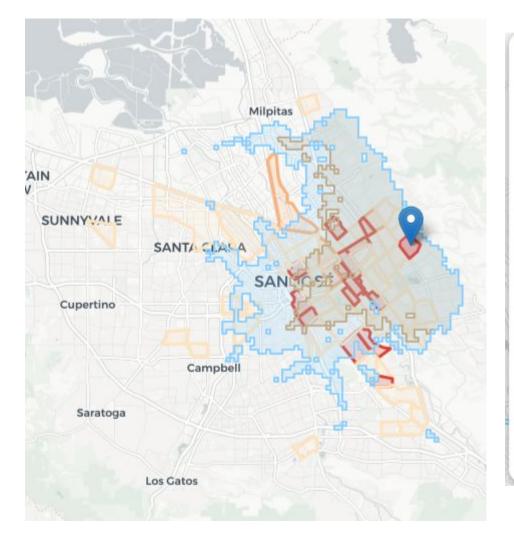
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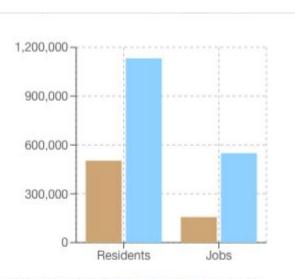
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NJOSÉ









In the chart: Using the current network 503,157 residents and 156,577 jobs are within a 60 minute transit trip of this location. Using the Seamless network in the year 2040, 1,132,558 residents and 548,742 jobs will be within a 60 minute transit trip of this location.

On the map: Brown polygon highlights area accessible within 60 minutes by transit currently. Blue polygon highlights area accessible within 60 minutes by transit using the Seamless network.

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	Residents with access to job centers within 60 minutes on transit			
	Current Network	Seamless Vision	# Increase	% Increase
Downtown San Francisco	2,176,608	3,177,228	1,000,620	<b>46</b> %
Downtown Oakland	2,423,177	3,587,424	1,164,247	<b>48</b> %
North San Jose	762,495	2,378,666	1,616,171	<b>212%</b>
Downtown Palo Alto	744,768	1,847,940	1,103,172	<b>148%</b>
Cupertino	690,693	2,036,808	1,346,115	<b>195%</b>

	Jobs Accessible within 60 minutes on transit			
	Current Network	Seamless Vision	# Increase	% Increase
Richmond (Iron Triangle)	371,442	934,273	▲ 562,831	<b>152%</b>
Marin City	142,291	1,051,384	▲ 909,093	<b>639</b> %
Central Vallejo	70,432	260461	190,029	<b>270%</b>
East Palo Alto	98,830	599,995	▲ 501,165	<b>\$07%</b>
East San Jose	309,533	878277	🔺 568,744	<b>184%</b>

# Questions

- Can measures of expanding access to jobs and housing help us to both identifying & prioritizing projects?
- What stage of the planning process are these tools most appropriate?
- How might we "repackage" sets of projects to guide our investments and make more progress in expanding access & transit use?

# Thank you

www.seamlessbayarea.org

