Transportation

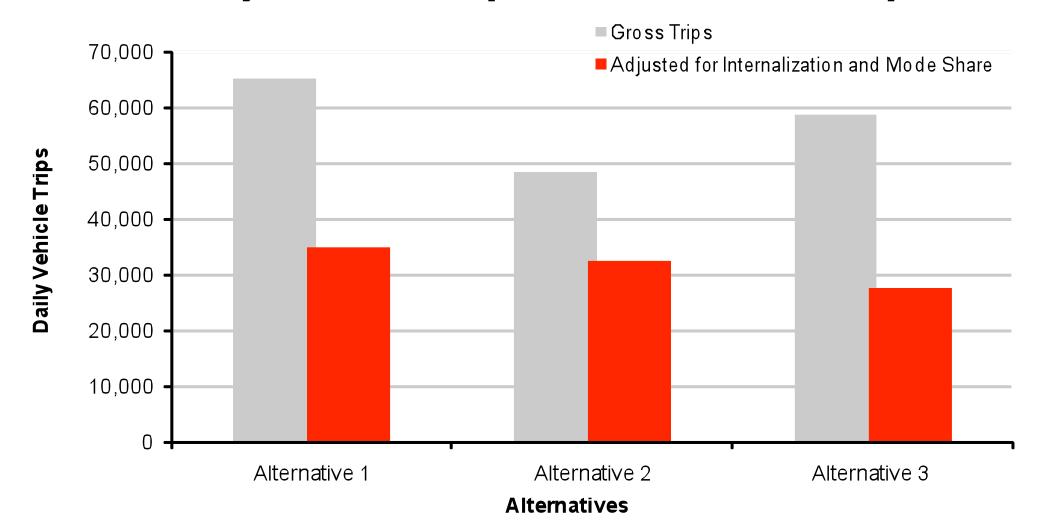
Three key areas of potential change are analyzed here:

The **traffic** indicators describe the potential of each Plan Alternative to impact the transportation network surrounding the Plan Area.

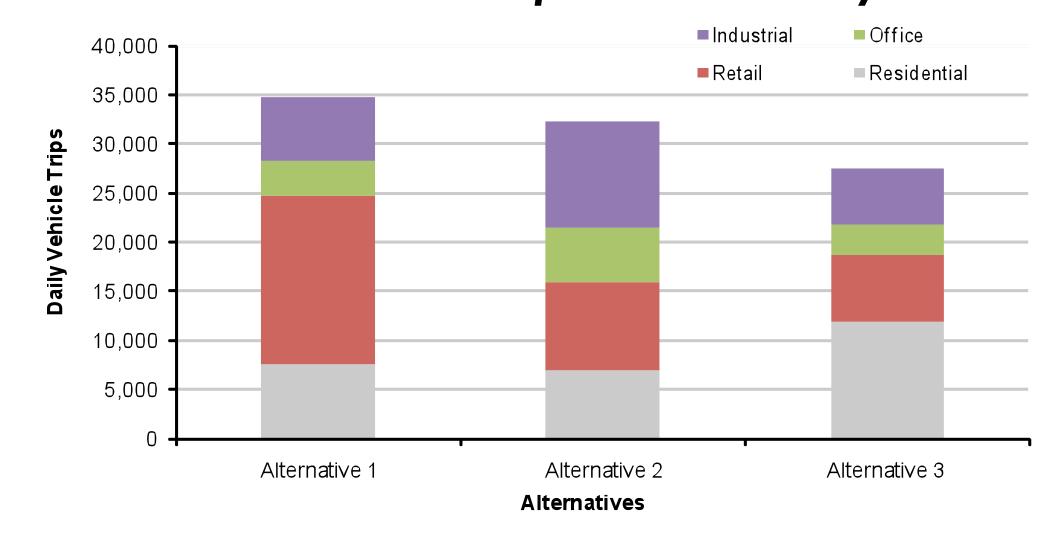
Travel choices assesses each Plan Alternative's ability to support and promote travel by transit, pedestrian, and bicycle modes, a key goal of the Central Estuary Plan.

Connectivity highlights new roadways that provide paths for cars to navigate through the area and shorten walking distances, creating an inviting and safe pedestrian environment and providing sufficient roadway capacity without having to design wide streets with large intersections.

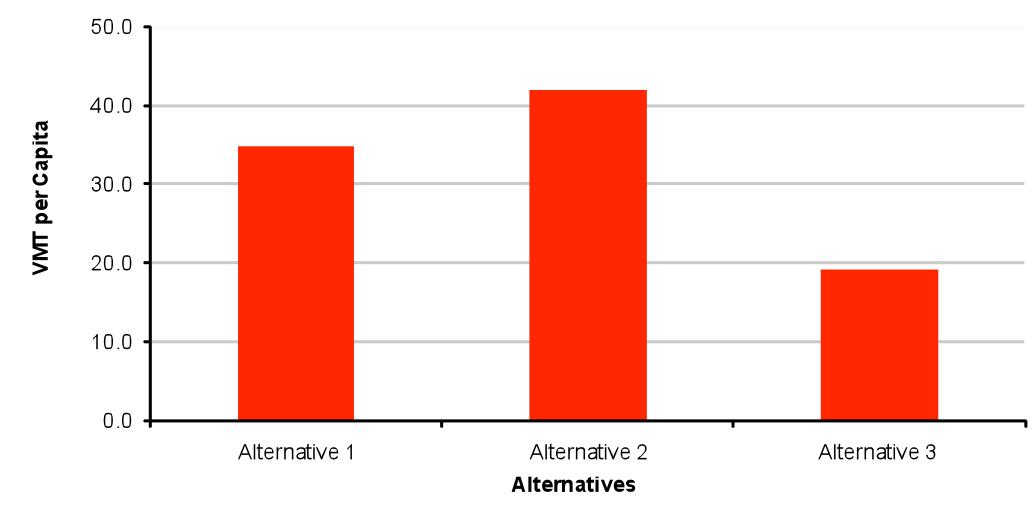
Traffic Gross Daily Vehicle Trip Generation Comparison



Net External Vehicle Trip Generation by Land Use



Vehicle Miles Traveled (VMT) per Capita



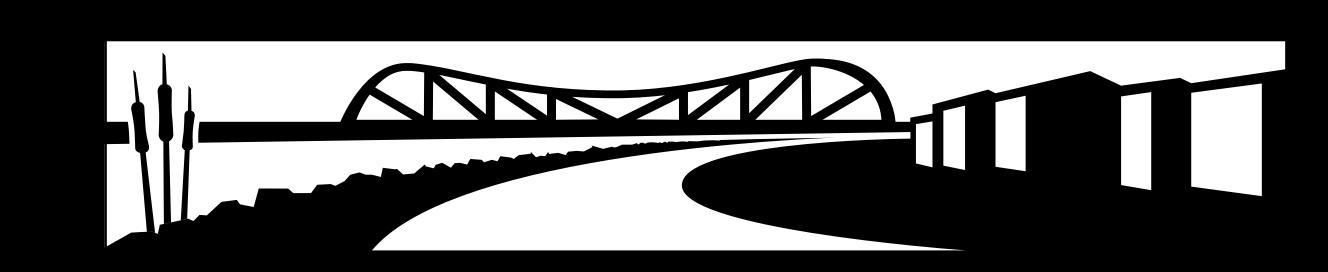
Travel Choices Transit Suitability

Population Density (DU per Acre)	Alternative I	Alternative 2	Alternative 3
West	0.8	9.03	8.15
Central-West	9.97	7.87	10.64
Central-East	6.74	0.73	15.31
East	7.98	0	9.27
Plan Area	5.89	4.3	10.56
Viability of New Transit	Unlikely	Unlikely	Possible

Bike and Pedestrian Suitability

The alternatives provide sufficient density, mix of land uses, and internal connectivity to support a significant level of pedestrian and bicycle activity.

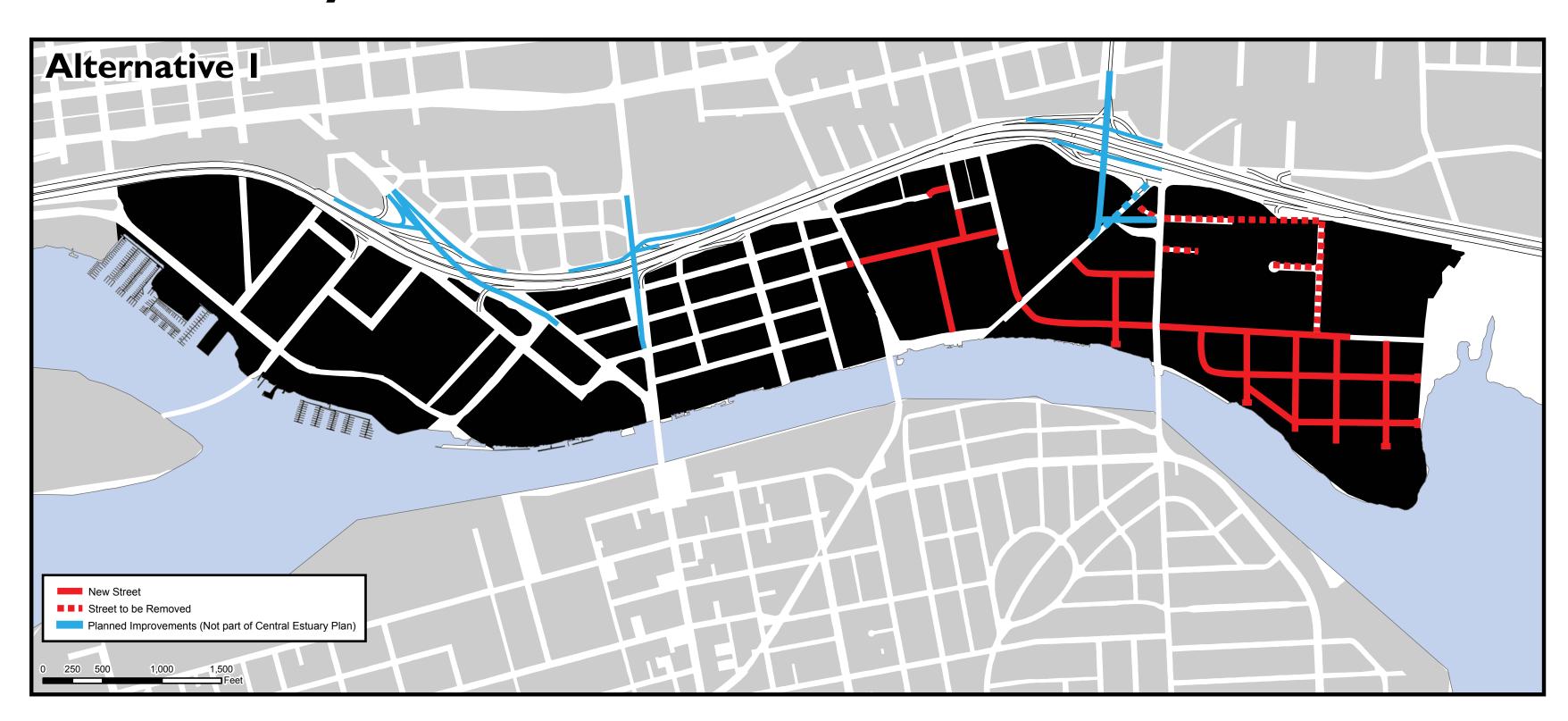
- All 3 Alternatives propose significant increases in mixed-use development throughout the Plan Area. Complimentary land uses (e.g., residential and retail) will promote walking and biking in the area by providing destinations within a reasonable distance of origins.
- Improving connections to the Fruitvale BART station and the City of Alameda should also improve walking and biking. The Fruitvale station has the second-highest bike mode share in the BART system and the City of Alameda offers a number of shopping destinations a short distance across the Estuary.
- New development will contribute funds toward infrastructure improvements such as improved sidewalks, intersection crossings, bike lanes, etc.

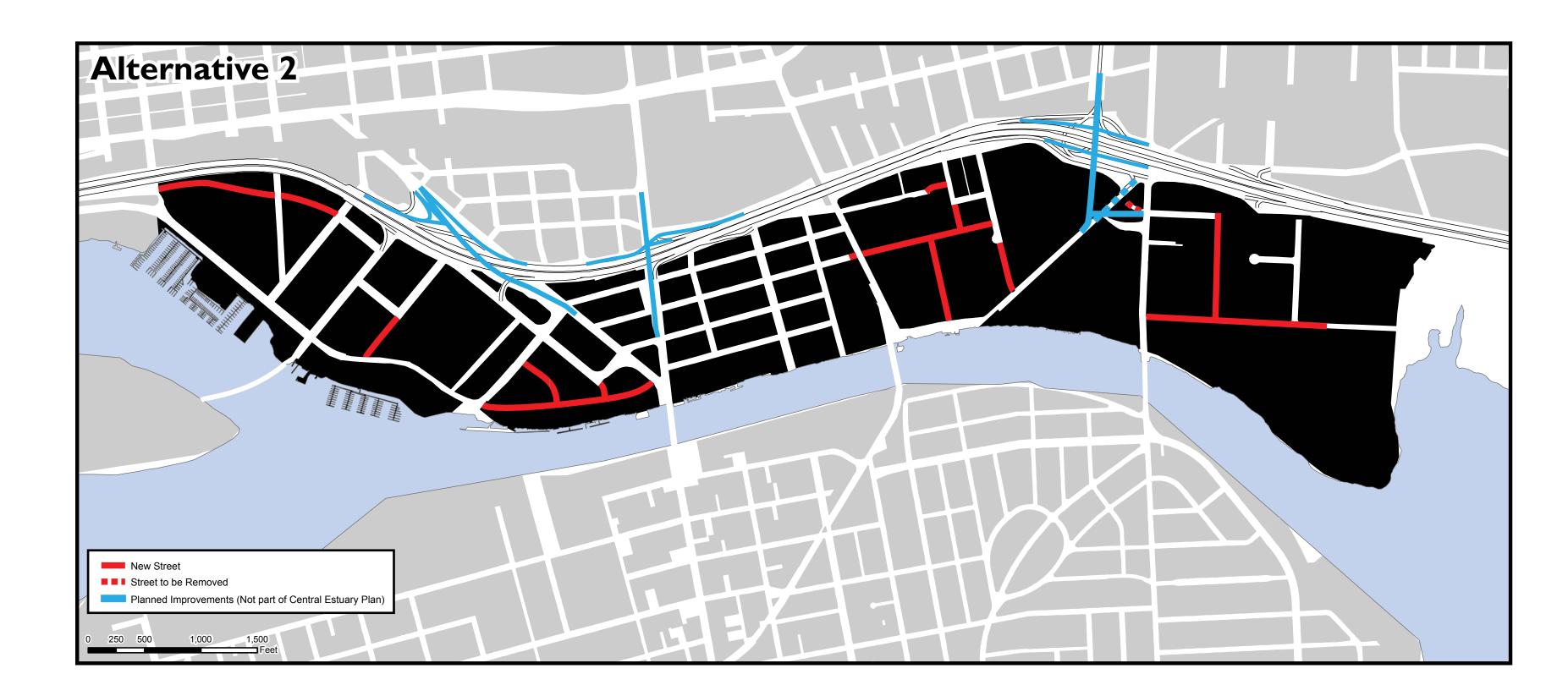


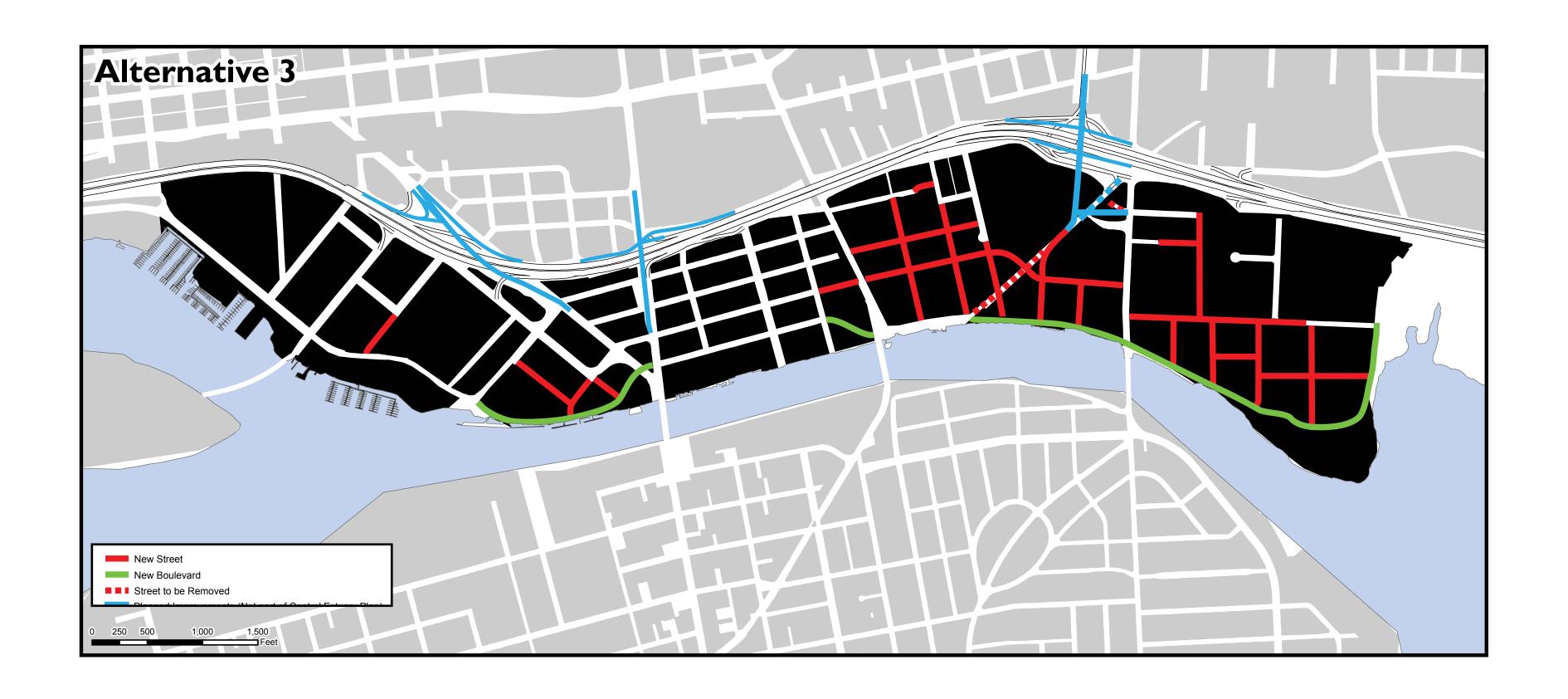


Transportation

Connectivity

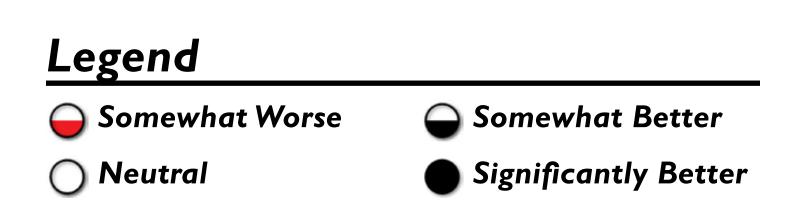


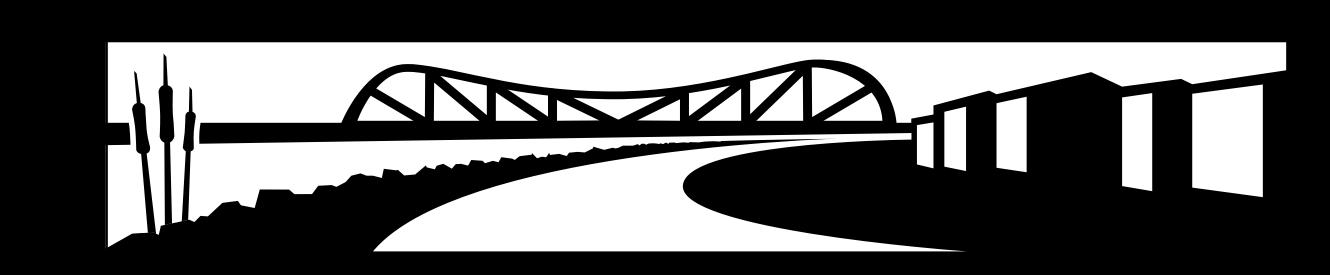




Summary

Transportation Topic Area	Alternative I	Alternative 2	Alternative 3
Traffic			
Gross Daily Vehicle Trips	0	0	Θ
Internal Capture, External Walk/Transit Mode Share Reductions			
Net External Daily Vehicle Trips	0	0	lacktriangle
Vehicle-Miles Traveled (VMT)	0	0	Θ
VMT per Capita	0	0	lacksquare
Travel Choices			
Transit Suitability	0	0	lacktriangle
Pedestrian and Bicycle Suitability			lacktriangle
Connectivity			
External Connections	0	0	0
Internal Connections (Includes Bike/Ped Access)	0	0	

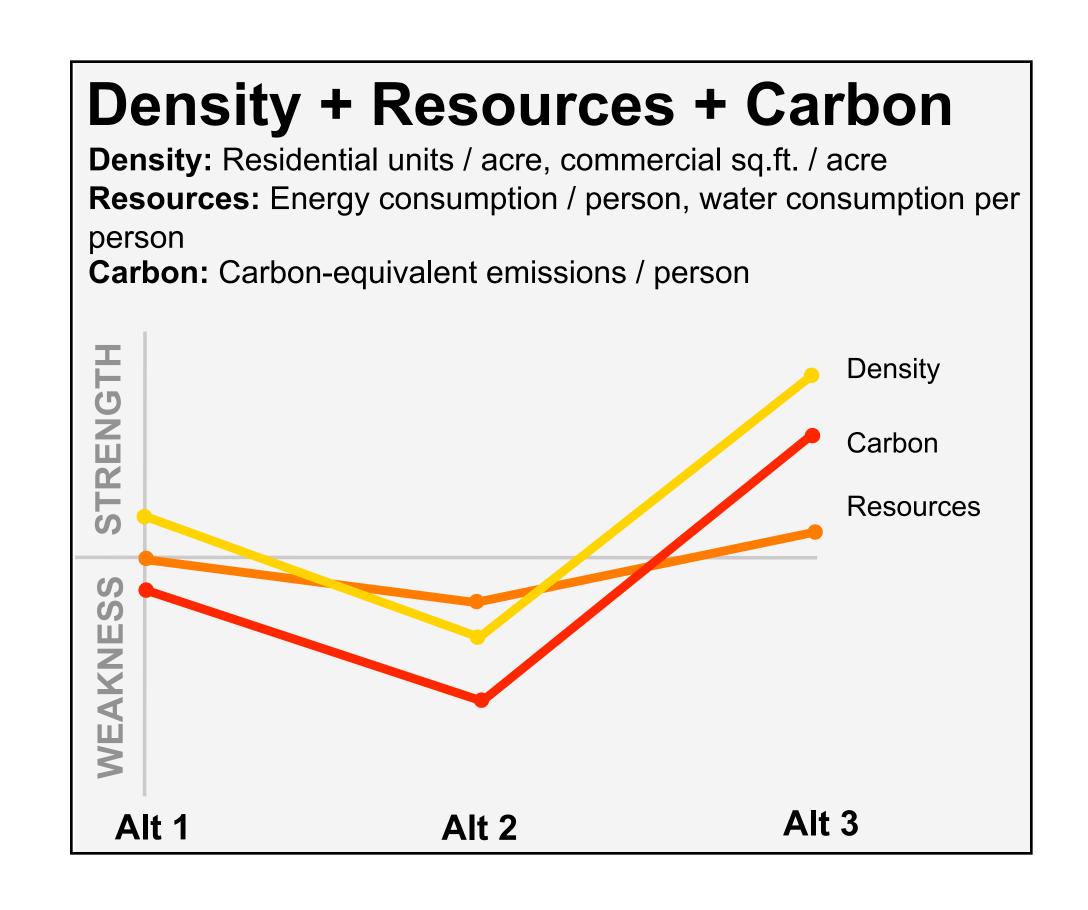


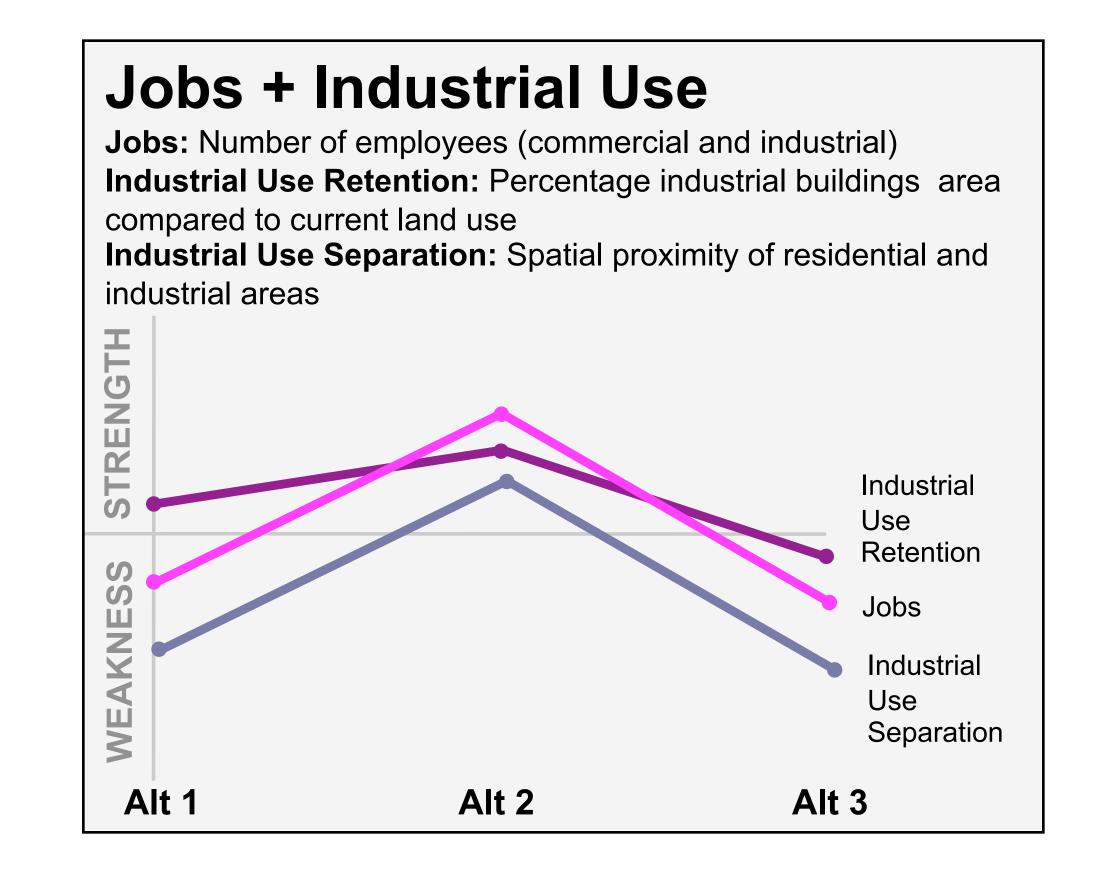


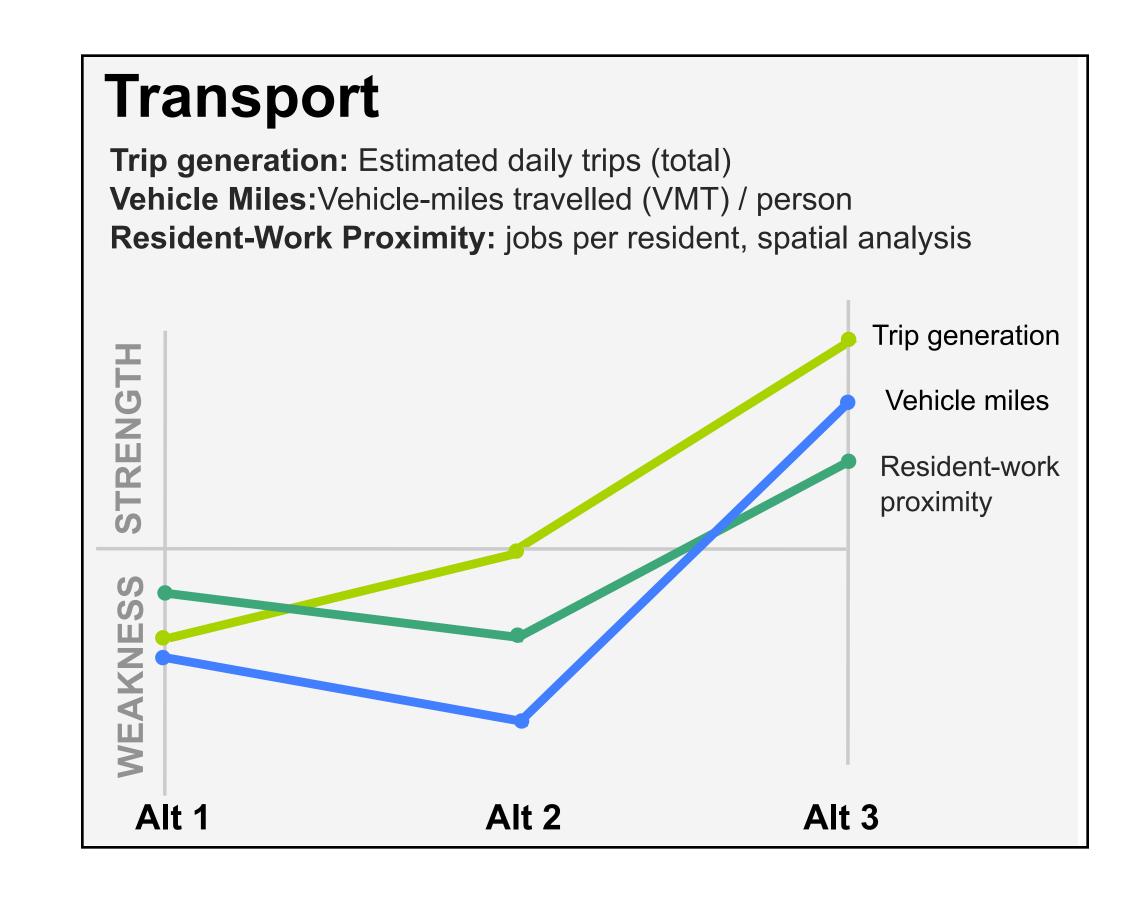


Sustainability

This evaluation assesses the ability of each Plan Alternative to positively address the Sustainability goals defined in the Central Estuary Plan, City of Oakland plans and policies and the California State law. It is intended to provide a holistic performance appraisal of the alternatives.







Alternative I

Key Strengths

- Open space accessibility waterfront development provides good access to parks and the Bay Trail
- District energy systems district heating and cooling feasible with the relatively high density and energy consumption

Key Weaknesses

- Trip generation highest probability of congestion problems
- Resident work proximity few residents for local jobs, increasing commuting probability
- Housing density low resident population per acre

Alternative 2

Key Strengths

- Retains more than 60% of current buildings
- Separation of industrial uses aggregates industrial program, reducing public health risk and increasing public space quality.

Key Weaknesses

- Density accommodates too little residential population on site.
- Resources high energy and water consumption per person.
- Carbon high emissions per person due to resource consumption and transport demand.

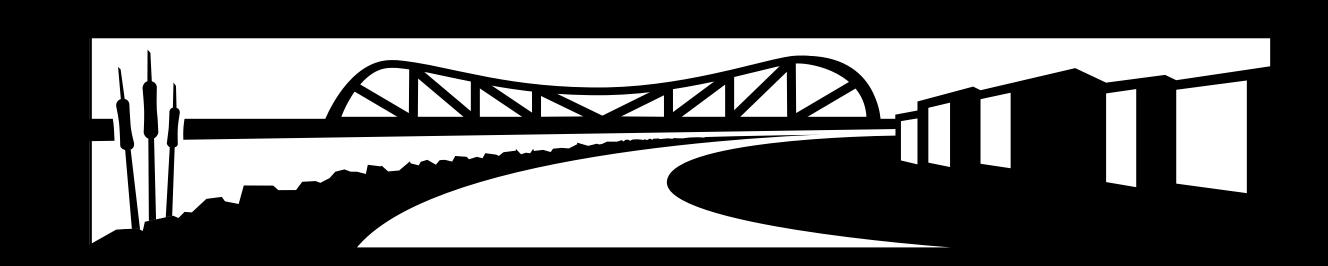
Alternative 3

Key Strengths

- Resident-work proximity –good allocation of jobs and housing with high resident population.
- Carbon lowest emissions per person due to high density and good balance of land use programs.

Key Weaknesses

- Separation of industrial uses has waterfront development in proximity to industrial uses, increasing public health risk and reducing public space quality.
- Open space availability has relatively small park acreage for the high resident population.





Public Health

A comparison of public health impacts across Alternatives

The charts on this page illustrate the baseline conditions, and conditions under each Alternative, of various public health indicators within the Plan Area. The color green indicates desirable performance, while the color red indicates poor performance. The size of each pie chart corresponds to the relative size of the population within each Alternative.

The Alternatives have wide-ranging effects on the status of these public health inidcators. While in certain cases the addition of new housing provides opportunities for some, it may also result in a higher percentage of Plan Area residents living in poor proximity to amenities like schools and transit, and living closer to certain liabilities like truck routes and sources of pollution.

Likewise, the redevelopment of industrial lands into retail, business parks and R&D incubator spaces may result in reduced pollution and noise, but it also displaces certain jobs in favor of others.

This public health assessment helps to inform a dialogue about trade-offs between the various Alternatives. For certain indicators, specific numbers cannot be forecasted. These indicators are shown as improved, neutral, or declining in quality.

Summary

	-		
Health-related	Alternative	Alternative	Alternative
Element	1	2	3
Environment		•	
Sustainabile and Safe			
Transportation))
Access to Goods and			
Services			

Health-related Element	Alternative I	Alternative 2	Alternative 3
Impacts on Housing	0	0	0
Impacts on Workforce	0	•	0
Social Cohesion	$\overline{\bullet}$	•	

Legend

Somewhat Worse

Somewhat Better

O Neutral

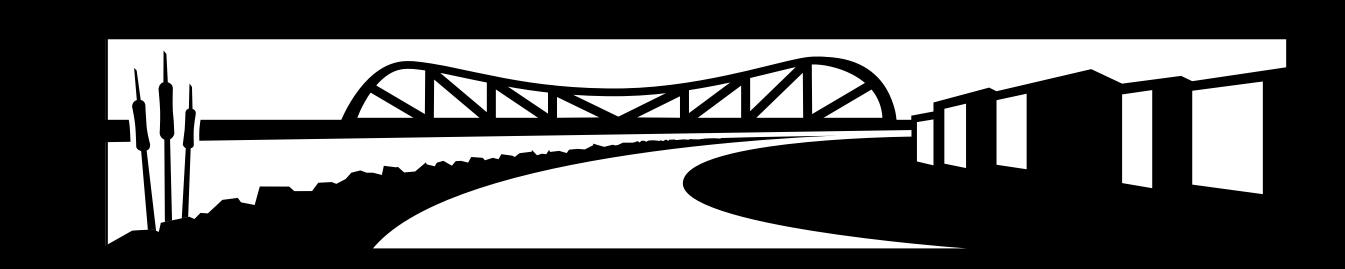
Significantly Better

	Existing	ALTERNATIVE I	ALTERNATIVE 2	ALTERNATIVE 3
Subarea Totals:	916 total residents 366 total households	4,73 I total residents 2,297 total households	3,530 total residents 1,782 total households	8,469 total residents 4,096 total households

LIABILITIES				
Busy Roadways (100,000+ vehicles/day) Households within 1,000 feet	297	30%	1,283	1,505
leet	households	households	households	households
Truck Routes	81%	46%	80%	32%
Households within 500 feet	297 households	I,052 households	I,419 households	I,297 households
Stationary	100%	100%	20%	40%
Pollution Sources Households within close proximity	366 households	2,297 households	350 households	I,650 households
High-Noise	100%	100%	100%	100%
Environment Households within close proximity	366 households	2,297 households	I,782 households	4,096 households

	Existing	ALTERNATIVE I	ALTERNATIVE 2	ALTERNATIVE 3
Subarea Totals:	916 total residents 366 total households	4,73 I total residents 2,297 total households	3,530 total residents 1,782 total households	8,469 total residents 4,096 total households

ASSETS				
Public Elementary	85%	36%	88%	66%
Schools Households within ½-mile	312 households	817 households	I 563 households	2702 households
Neighborhood or	95%	99%	99%	99%
Regional Parks Population within ¼-mile	866 residents	4700 residents	3500 residents	8400 residents
Public Library	99%	81%	99%	87%
Population within I-mile	904 residents	3843 residents	3500 residents	7396 residents
Grocery Store	88%	42%	91%	69%
Population within ½-mile	806 residents	I 993 residents	3221 residents	5846 residents
Bank or Credit	92%	79%	91%	84%
Union Population within ½-mile	847 residents	373 I residents	322 I residents	7087 residents
Local Transit	78%	27%	77%	44%
Households within ¼-mile	285 households	610 households	I,369 households	I,800 households
Regional Transit	41%	26%	19%	33%
Households within ½-mile	< 150 households	592 households	339 households	I,356 households





Employment & Demographics

Employment in the Plan Area

Alternative I

- Preserves strong food-related industrial cluster in the West Subarea
- Some increase in jobs new retail and industrial business park
- New retail-oriented jobs would offer low wages

Alternative 2

- Least jobs would be displaced
- Most new jobs at R&D incubator best support the existing workforce
- Greatest overall increase in employment
- Displacement of the food-related industry

Alternative 3

- Many new jobs
- New retail-oriented jobs offer very low
- Office/R&D jobs offer high wages, poor match for existing workforce
- Remaining industrial uses expected to lose viability

Displacement of Existing Jobs

	West	Central- West	Central- East	East
Alternative I	Θ	0	—	\overline{igo}
Alternative 2	\bigcirc	0	Θ	\odot
Alternative 3	\bigcirc	O	Θ	\bigcirc

Creation of New Jobs

	West	Central- West	Central- East	East
Alternative I	0	0		Θ
Alternative 2	\overline{igo}	0		0
Alternative 3	0	0		igorplus

	West	West	Central-East	East	Total
Jobs Lost	0	50	507	531	1088
Jobs Added	0	0	570	879	1449
Net Change in Total Jobs	0	-50	63	348	361

Employment Change by Subarea - Alternative 2

	West	West	Central-East	East	Total
Jobs Lost	497	21	216	0	734
Jobs Added	544	0	888	0	1432
Net Change in Total Jobs	47	-21	672	0	697

Employment Change by Subarea - Alternative 3

	West	West	Central-East	East	Total
Jobs Lost	195	93	507	201	996
Jobs Added	10	0	150	1454	1614
Net Change in Total Jobs	-185	-93	-357	1253	618

Impact on Residential Uses

Land Use Market Viability	West	Central- West	Central- East	East
Alternative I	\bigcirc	0	Θ	
Alternative 2	\bigcirc	0	0	\bigcirc
Alternative 3	Θ	0		Θ

Impact on Office Uses

Land Use Market Viability	West	Central- West	Central- East	East
Alternative I	0	0	0	0
Alternative 2	\bigcirc	0	Θ	0
Alternative 3	igoredown	0	Θ	Θ

Employment Change by Subarea - Alternative I Impact on Light-industrial/Warehousing Uses

Land Use Market Viability	West	Central- West	Central- East	East
Alternative I	Θ		0	\bigcirc
Alternative 2	\bigcirc		Θ	$\overline{\bullet}$
Alternative 3	\bigcirc			0

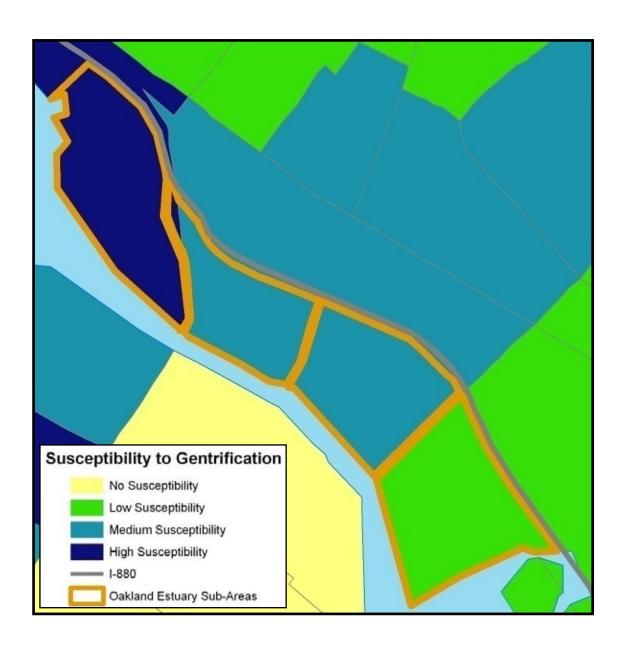
Impact on Heavy Industrial Uses

Land Use Market Viability	West	Central- West	Central- East	East
Alternative I	0	0	Θ	\overline{igo}
Alternative 2	\bigcirc	0	0	igorplus
Alternative 3	\bigcirc	0	Θ	Θ

Impact on Retail Uses

Land Use Market Viability	West	Central- West	Central- East	East
Alternative I	0	0	Θ	
Alternative 2	\bigcirc	Θ	Θ	\bigcirc
Alternative 3	\bigcirc	Θ	•	\bigcirc

Housing in the Plan Area



Impact on Existing Low-Income Households

	West	Central- West	Central- East	East
Alternative I	0	\overline{igo}	0	0
Alternative 2	\bigcirc	\bigcirc	Θ	\circ
Alternative 3	\bigcirc	\bigcirc	0	0

Impact on Housing Needs

	West	Central- West	Central- East	East
Alternative I	0	0	Θ	Θ
Alternative 2	\bigcirc	0	0	0
Alternative 3	igorplus	0	•	0

Legend





Alternative I

- Protected industrial uses keep land/housing prices
- Lowest risk of displacement of households in Plan

Alternative 2

- New residential development replaces industrial
- High risk of displacement of households in West and **Central West Subareas**

Alternative 3

- New residential development replaces industrial
- High risk of displacement of households in West, Central West & East Subareas





