

EQUITY AND PERFORMANCE OUTCOMES

THE FINAL
BLUEPRINT

PLAN BAY AREA 2050

Organized by the Plan Bay Area 2050 Guiding Principles, several metrics help answer two key questions per Guiding Principle. Icons indicate whether outcomes are favorable. Accompanying text sheds light on how Final Blueprint strategies and assumptions contribute to performance outcomes, and metrics highlight impacts on disadvantaged populations where feasible.

KEY DEFINITIONS IN METRICS

2015 Refers to simulated 2015 conditions, which were calibrated to closely match on-the-ground conditions.

2050 Blueprint Reflects simulated 2050 outcomes if population and job growth continue according to the Plan Bay Area 2050 Regional Growth Forecast and all 35 Final Blueprint strategies are implemented.

Households with Low Incomes Households with an annual income of less than \$45,000 in today's dollars; shown where feasible to parse out equity impacts.

Communities of Concern (CoCs) Census tracts with a significant concentration of underserved populations, including people of color and households with low incomes; updated using latest ACS data.

High-Resource Areas State-designated areas with access to well-resourced schools, open space, jobs and services.

Transit-Rich Areas State-designated areas within ½ mile of a rail station, ferry terminal, or frequent bus stop (every 15 minutes or better in peak periods).

Priority Production Areas Locally-identified industrial districts that support industries that are critical to the functioning of the Bay Area economy and are home to middle wage jobs.

What are the Key Equity and Performance Outcomes of the Final Blueprint?

All dollar values shown as part of the Equity and Performance outcomes are in year 2020 dollars.

OUTCOMES LEGEND

↗ Moving in the Right Direction

↔ Mixed Outcomes

↘ Moving in the Wrong Direction



AFFORDABLE

WILL BAY AREA RESIDENTS SPEND LESS ON HOUSING AND TRANSPORTATION?

| | HOUSING AND TRANSPORTATION COSTS AS SHARE OF INCOME | 2015 | 2050 FINAL BLUEPRINT | |
|---|---|-----------------------------------|-----------------------------|--------|
| | | Housing and Transportation | Households with Low Incomes | 113% |
| ↗ | Housing | All Households | 45% | |
| | | Households with Low Incomes | 29% | |
| | Transportation | All Households | 21% | |
| | | Households with Low Incomes | 29% | |
| | | All Households | 24% | |
| | | | | |
| | | 2015 | 2050 FINAL BLUEPRINT | |
| ↔ | Average Fare per Transit Trip | Households with Low Incomes | \$2.78 | \$1.49 |
| | Average "Out-of-Pocket" Cost per Auto Trip | All Households | \$3.16 | \$2.87 |
| | | Households with Low Incomes | \$1.39 | \$2.37 |
| | Average Parking Cost per Auto Trip | All Households | \$1.57 | \$2.73 |
| | | Households with Low Incomes | \$0.37 | \$1.11 |
| | Average Toll per Auto Trip | All Households | \$0.31 | \$0.93 |
| | | Households with Low Incomes | \$0.05 | \$0.11 |
| | | All Households | \$0.08 | \$0.23 |

WILL THE BAY AREA PRODUCE AND PRESERVE MORE AFFORDABLE HOUSING?

| | SHARE OF HOUSING THAT IS DEED-RESTRICTED AFFORDABLE | 2015 | 2050 FINAL BLUEPRINT |
|---|---|-------------------------------|----------------------|
| | | Region-Wide | 4% |
| ↗ | Communities of Concern | 11% | 39% |
| | High-Resource Areas | 2% | 24% |
| ↗ | SHARE OF NEW HOUSING PRODUCTION (2015-50) THAT IS DEED-RESTRICTED AFFORDABLE | Region-Wide | 35% |
| | | Communities of Concern | 33% |
| | | High-Resource Areas | 42% |
| ↗ | SHARE OF AT-RISK AFFORDABLE HOUSING PRESERVED AS PERMANENTLY AFFORDABLE | Region-Wide | 100% |

What are the Key Equity and Performance Outcomes of the Final Blueprint?



WILL BAY AREA RESIDENTS BE ABLE TO ACCESS THEIR DESTINATIONS MORE EASILY?

↑ The number of jobs accessible within a 30-minute drive increases by over 200,000 jobs between 2015 and 2050; however, the share of the region's jobs that can be accessed is forecasted to stay roughly similar, with marginally improved outcomes for Community of Concern residents. While the number of jobs accessible within a 45-minute transit trip remains lower than the number within a 30-minute drive, focused housing growth in Transit-Rich Areas and transit expansion strategies significantly improve the share of jobs accessible by transit. Biking and walking access also both increase slightly, mainly due to greater housing and commercial densities in growth areas. Overall, Community of Concern residents have greater job accessibility than the average Bay Area resident in 2015, with Final Blueprint strategies further advancing equitable outcomes.

| NUMBER AND SHARE OF ALL BAY AREA JOBS THAT ARE ACCESSIBLE BY | | 2015 | | 2050 FINAL BLUEPRINT | |
|--|----------------------------------|----------------|---------------|----------------------|---------------|
| | | Number of Jobs | Share of Jobs | Number of Jobs | Share of Jobs |
| Auto (30 min) | Communities of Concern Residents | 741,000 | 19.2% | 1,060,000 | 19.6% |
| | All Residents | 687,000 | 17.8% | 930,000 | 17.2% |
| Transit (45 min) (access by walk) | Communities of Concern Residents | 201,000 | 5.2% | 427,000 | 7.9% |
| | All Residents | 131,000 | 3.1% | 276,000 | 5.1% |
| Bike (20 min) | Communities of Concern Residents | 112,000 | 2.9% | 184,000 | 3.4% |
| | All Residents | 89,000 | 2.3% | 146,000 | 2.7% |
| Walk (20 min) | Communities of Concern Residents | 12,000 | 0.3% | 22,000 | 0.4% |
| | All Residents | 8,000 | 0.2% | 11,000 | 0.2% |

↑ Nearly half of all households, and over two-thirds of households with low incomes, live within a half-mile of high-frequency transit, including rail, ferry and frequent bus stops, in 2050. The Final Blueprint focuses new affordable housing development in Transit-Rich Areas, while also investing in transit service increases. Due to the more dispersed nature of job growth, the share of jobs near high-frequency transit remains relatively constant.

| SHARE OF HOUSEHOLDS AND JOBS WITHIN 1/2 MILE OF FREQUENT TRANSIT | | 2015 | 2050 FINAL BLUEPRINT |
|--|-----------------------------|------|----------------------|
| Households | Households with Low Incomes | 42% | 71% |
| | All Households | 33% | 46% |
| Jobs | All Jobs | 49% | 51% |
| | Retail Jobs | 45% | 50% |

WILL BAY AREA RESIDENTS HAVE A TRANSPORTATION SYSTEM THEY CAN RELY ON?

— Given a 35% increase in population by 2050, increases in freeway travel times are inevitable in the absence of new measures. Final Blueprint strategies such as per-mile tolling on key freeway corridors and other transportation demand management strategies, along with focused housing growth in key growth geographies, help maintain travel times near existing levels, even as lower speed limits reduce free-flow travel times.

| FREEWAY CORRIDOR PEAK-HOUR TRAVEL TIME (MINUTES) | | 2015 | 2050 FINAL BLUEPRINT |
|--|--------------------------|------|----------------------|
| Most of Route Features All-Lane Tolling | Oakland-San Francisco | 30 | 31 |
| | Vallejo-San Francisco | 57 | 58 |
| | Antioch-San Francisco | 75 | 79 |
| | Antioch-Oakland | 47 | 50 |
| | San Jose-San Francisco | 64 | 68 |
| | Oakland-San Jose | 56 | 56 |
| Partial or No Tolling on Route | Oakland-Palo Alto | 54 | 56 |
| | Fairfield-Dublin | 48 | 50 |
| | Livermore-San Jose | 48 | 62 |
| | Santa Rosa-San Francisco | 69 | 75 |

↓ With population growth and the full suite of Final Blueprint strategies, transit boardings nearly triple by 2050. While increased ridership supports critical climate goals, overcrowding on transit vehicles, which risks denial of boardings, is anticipated to rise. Final Blueprint strategies that optimize and expand transit service help maintain crowding levels close to existing conditions for some operators, but the transit service improvements are insufficient to fully manage overcrowding in the long term. Operators not listed do not have overcrowding challenges in 2050.

| PERCENT OF PERSON HOURS IN TRANSIT SPENT IN CROWDED CONDITIONS | | 2015 | 2050 FINAL BLUEPRINT |
|--|-------------------------|------|----------------------|
| Local Transit | Muni Bus | 20% | 28% |
| | AC Transit Local Bus | 0% | 31% |
| | Muni Light Rail | 32% | 22% |
| | VTA Light Rail | 0% | 33% |
| Regional Transit | AC Transit Transbay Bus | 47% | 32% |
| | Golden Gate Express Bus | 30% | 72% |
| | BART | 19% | 18% |
| | Caltrain | 8% | 46% |
| | WETA Ferry | 14% | 9% |

— In 2015, 30% of all transit vehicles had exceeded their federally recommended lifespans. As the Final Blueprint only includes sufficient maintenance funding to retain existing conditions, this metric remains mostly unchanged through 2050.

| SHARE OF TRANSIT ASSETS PAST THEIR USEFUL LIFE BENCHMARK | | 2015 | 2050 FINAL BLUEPRINT |
|--|--|------|----------------------|
| Vehicle Assets | | 30% | 30% |
| Non-Vehicle Assets | | 18% | 18% |

What are the Key Equity and Performance Outcomes of the Final Blueprint?



WILL BAY AREA COMMUNITIES BE MORE INCLUSIVE?

| ➔ | <p>The share of households with low incomes increases in Transit-Rich and High-Resource Areas. Further, the same share decreases in Communities of Concern. Together, these trends suggest lower concentrations of poverty or affluence, and more mixed-income communities in 2050. Focused production and preservation of affordable housing in High-Resource Areas increases access to places of greatest opportunity for households with low incomes, helping reverse historically exclusionary policies in many of these communities.</p> <p>NOTE: The positive effects of the Universal Basic Income strategy in reducing income inequality and decreasing the share of households with low incomes were omitted from the calculation to have a clearer understanding of the trends.</p> | SHARE OF HOUSEHOLDS THAT ARE HOUSEHOLDS WITH LOW INCOMES | | 2015 | 2050 FINAL BLUEPRINT |
|------------------------|--|--|-----|------|----------------------|
| | | Region-Wide | | 26% | 28% |
| | | Transit-Rich and High-Resource Areas | | 24% | 36% |
| | | Transit-Rich Areas | | 32% | 39% |
| | | High-Resource Areas | | 20% | 24% |
| Communities of Concern | | 43% | 41% | | |
| ➔ | <p>The Final Blueprint enables intergenerational wealth-building opportunities with strategies that support nearly 100,000 households with low incomes to own their first home.</p> | HOME OWNERSHIP RATE FOR HOUSEHOLDS WITH LOW INCOMES | | 2015 | 2050 FINAL BLUEPRINT |
| | | | | 37% | 47% |

WILL BAY AREA RESIDENTS BE ABLE TO STAY IN PLACE?

| ➔ | <p>Region-wide, the share of neighborhoods that experience a net loss in the number of households with low incomes between 2015 and 2050 is 48%. This metric is mainly driven by households with low incomes relocating to growth geographies – neighborhoods near frequent transit and/or in high-resource areas – where much of the new affordable housing is being developed under Final Blueprint strategies. Growth geographies also experience some displacement, but analysis indicates that much of this displacement is actually households with low incomes relocating between these neighborhoods, rather than being displaced to neighborhoods that lack quality transit or access to opportunity. Furthermore, the displacement risk metric does not fully capture the positive impact of protection policies at the local level, which could further reduce displacement risk and prevent homelessness.</p> <p>NOTE: Displacement is defined as a net loss in number of households with low incomes in the neighborhood (tract) between 2015 and 2050. Gentrification is defined as a drop of over 10% in the share of households with low incomes. The positive effects of the Universal Basic Income strategy in reducing income inequality and decreasing the share of households with low incomes were omitted from the calculation to have a clearer understanding of displacement trends.</p> | SHARE OF NEIGHBORHOODS (TRACTS) THAT EXPERIENCE DISPLACEMENT AND GENTRIFICATION BETWEEN 2015 AND 2050 | | DISPLACEMENT | GENTRIFICATION |
|---|--|---|---|--------------|----------------|
| | | Region-Wide | All Neighborhoods (total 1579 neighborhoods) | 48% | 53% |
| | | | Communities of Concern (total 339 neighborhoods) | 40% | 49% |
| | | | High Displacement Risk Tracts (total 850 neighborhoods) | 37% | 44% |
| | | Within Growth Geographies | Growth Geographies (total 492 neighborhoods) | 17% | 28% |
| | | | High-Resource Areas (total 199 neighborhoods) | 17% | 19% |
| | | | Transit-Rich Areas (total 344 neighborhoods) | 9% | 11% |



WILL BAY AREA RESIDENTS BE HEALTHIER AND SAFER?

| ➔ | <p>With Final Blueprint strategies in place, 98% of all Bay Area households that would be affected by two feet of sea level rise are protected. All common seismically deficient housing types and homes built in high wildfire-risk zones are retrofitted to reduce the likelihood of damage in future earthquakes and wildfires. Retrofit strategies are expected to reduce the risk of damage from earthquakes or wildfire by 25 to 50%.</p> | PERCENT OF HOUSEHOLDS IN RISK-PRONE AREAS/BUILDINGS THAT ARE PROTECTED/RETROFIT | Sea Level Rise (2ft) | Communities of Concern | 100% |
|---|---|---|------------------------|------------------------|----------------------|
| | | | All Households | 98% | |
| | | | Earthquake | Communities of Concern | 100% |
| | | | | All Households | 100% |
| Wildfire High / Medium Risk | Communities of Concern | 100% | | | |
| | All Households | 100% | | | |
| REDUCTION IN BUILDING RISK EXPOSURE TO DAMAGE FROM EARTHQUAKE OR WILDFIRE | | | 25 to 50% | | |
| ➔ | <p>The rate of fatalities and injuries decreases in 2050 with reduced speed limits and enhanced street design under the Vision Zero strategy, but it remains far from zero incidents. Additional education and enforcement actions would be required to make further headway toward this important goal.</p> | ANNUAL INCIDENTS PER ONE HUNDRED THOUSAND RESIDENTS | | 2015 | 2050 FINAL BLUEPRINT |
| | | Fatalities | | 6.0 | 4.9 |
| | | Injuries | | 26.0 | 22.7 |
| ➔ | <p>Despite increases in population and total miles driven, fine particulate matter emissions (PM_{2.5}) are forecasted to be lower than 2015 levels, driven by cleaner and more fuel-efficient vehicles.</p> | DAILY PM _{2.5} EMISSIONS (TONS) | | 5.5 | 4.4 |
| ➔ | <p>Bay Area residents have increased access to recreation opportunities, thanks to Final Blueprint strategies to protect natural lands and invest in parks and trail facilities. Prioritized investments in Communities of Concern help close the gap in park access in historically disinvested communities.</p> | PARKS AND TRAILS PER THOUSAND RESIDENTS | | 2015 | 2050 FINAL BLUEPRINT |
| | | Urban Park Acres | Communities of Concern | 1.4 | 2.3 |
| | | | Region-Wide | 1.7 | 2.1 |
| | | Trail Miles | Region-Wide | 0.2 | 0.3 |
| Publicly Accessible Open Space Acres | Region-Wide | 118 | 148 | | |

What are the Key Equity and Performance Outcomes of the Final Blueprint?

WILL THE ENVIRONMENT OF THE BAY AREA BE HEALTHIER AND SAFER?

| | | | | | | |
|---|--|--|--|------|----------------------|----------------------|
| ➔ | Greenhouse gas emission levels per capita are forecasted to drop by 22% in 2035 relative to 2005 levels, meeting the state-mandated target of 19% for the region. This is driven by strategies across all four elements of the plan (transportation, housing, economy and environment) primarily by allowance of increased housing and commercial densities in growth geographies, transportation demand management strategies including parking and tolling fees, and significant investment in clean vehicle initiatives. The projected decrease in emissions is even greater when the metric accounts for all vehicle types and future state-imposed restrictions on fuel efficiencies. | DAILY CO2 EMISSIONS PER CAPITA, RELATIVE TO 2005 | | 2015 | 2035 FINAL BLUEPRINT | 2050 FINAL BLUEPRINT |
| | | Cars and Light-Duty Trucks (SB 375) | | -1% | -22% | -20% |
| | | All Vehicles (Including Fuel Efficiency Gains) | | -7% | -48% | -52% |
| ➔ | With more efficient land use patterns, tolling and parking fee strategies, sustainable commute targets for major employers, and increased investment in active and shared modes, the commute mode share of single-occupancy auto travel drops from 51% in 2015 to 36% in 2050, thanks to more people choosing transit, telecommuting, walking and bicycling. | COMMUTE MODE SHARE | | | 2015 | 2050 FINAL BLUEPRINT |
| | | Auto: Single Occupancy | | | 51% | 36% |
| | | Auto: Other | | | 20% | 17% |
| | | Transit | | | 13% | 20% |
| | | Active Modes (Bike/Walk) | | | 5% | 10% |
| ➔ | Retrofit strategies for making the Bay Area's existing residential building stock more resource-efficient contribute to significant reductions in the region's carbon footprint as well as water consumption. | EXISTING RESIDENTIAL BUILDING STOCK EFFICIENCY, RELATIVE TO 2015 | | | | 2050 FINAL BLUEPRINT |
| | | CO ₂ Emissions | | | | -16% |
| | | Energy Consumption | | | | -16% |
| | | Water Consumption | | | | -8% |

VIBRANT

WILL JOBS AND HOUSING IN THE BAY AREA BE MORE EVENLY DISTRIBUTED?

| | | | | | | | |
|---|--|---------------------------------------|------|----------------------|-------------------|----------------------|----------------------|
| ➔ | The region-wide jobs-to-housing ratio decreases from 1.50 to 1.34 by 2050, reflecting a higher ratio of housing to job production to accommodate pent-up demand for housing. Final Blueprint strategies that enable more housing in job-rich areas, such as allowances for increased densities in growth geographies and accelerated reuse of public land, were particularly successful in the West and South Bay, bringing the ratio closer to the region-wide average in San Francisco, San Mateo and Santa Clara counties. Meanwhile, encouraging job growth in housing-rich areas continues to be a challenge. Incentives to encourage employers to shift jobs to housing-rich areas bring the ratio closer to the region-wide average in Napa and Solano counties, while Contra Costa and the other North Bay counties continue to have more housing than jobs. | JOB-HOUSING RATIO | 2015 | 2050 FINAL BLUEPRINT | JOB-HOUSING RATIO | 2015 | 2050 FINAL BLUEPRINT |
| | | Region-Wide | 1.50 | 1.34 | San Francisco | 1.86 | 1.59 |
| | | Alameda | 1.57 | 1.40 | San Mateo | 1.48 | 1.29 |
| | | Contra Costa | 1.05 | 0.97 | Santa Clara | 1.77 | 1.50 |
| | | Marin | 1.24 | 0.79 | Solano | 0.93 | 1.14 |
| | | Napa | 1.42 | 1.56 | Sonoma | 1.18 | 1.14 |
| ➔ | The mean commute distance for all workers decreases slightly, further highlighting the impact of a more balanced distribution of jobs and housing. | MEAN ONE-WAY COMMUTE DISTANCE (MILES) | | | 2015 | 2050 FINAL BLUEPRINT | |
| | | Workers with Low-Income | | | 9.5 | 9.0 | |
| | | All Workers | | | 12.0 | 11.5 | |

WILL THE BAY AREA ECONOMY THRIVE?

| | | | | | |
|---------------------------|--|--|-----|-----------|----------------------|
| ➔ | The region's economic recovery is expected to be robust through 2050, with a real growth of 66% between 2015 and 2050, even when accounting for the inclusion of significant new regional tax measures to fund transit expansion projects, affordable housing, universal basic income, sea level rise mitigations, and more. | GROSS REGIONAL PRODUCT PER CAPITA (2020 DOLLARS) | | 2015 | 2050 FINAL BLUEPRINT |
| | | | | \$107,000 | \$178,000 |
| ➔ | The long-term growth in number of jobs in high-wage industries continues to outpace overall job growth region-wide. Meanwhile, jobs in middle-wage industries keep pace, with some of that growth occurring in newly designated Priority Production Areas. Universal basic income programs also help to reduce income inequality for those continuing to work in lower-wage occupations. | GROWTH IN NUMBER OF JOBS (FROM 2015 TO 2050) | | | |
| | | All Jobs | | | 35% |
| | | Low-Wage Industries | | | 30% |
| | | Middle-Wage Industries | | | 34% |
| | | High-Wage Industries | | | 40% |
| Priority Production Areas | | | 83% | | |