# Growth, growth impacts, & planning for growth

April 18, 2006

Randall Crane, UCLA for the South Bay Salt Pond Restoration Project

### outline

- Growth trends
- Consequences
- Alternatives?

# Growth trends

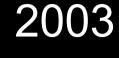


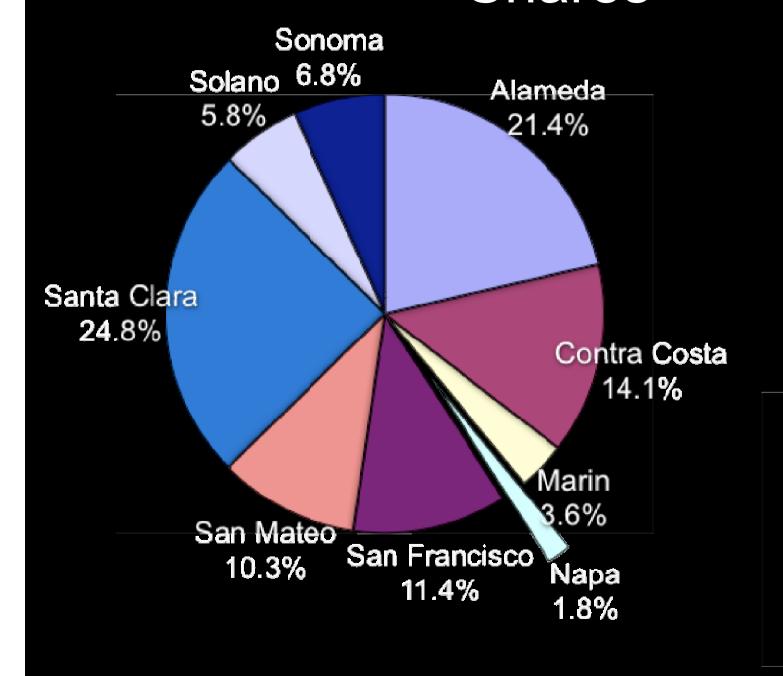
### Overview through 2020

- —1 million new jobs
- -1 million more people (50% natural, 50% immigrants)
- -265,000 daily in-commuters to the region
- —150% increase in aggregate traffic congestion
- —Conversion of up to 83,000 acres of currently undeveloped land

# Population

# Bay Area Counties by Population Shares





- Alameda
- Contra Costa
- Marin
- Napa
- San Francisco
- San Mateo
- Santa Clara
- Solano
  - Sonoma

# **County Population** Legend Population 1970 Population 1980 Population 1990 Population 2000

**San Francisco** experienced the least growth consistently each decade.

It was the only county which reported an actual loss of population (1980 and 2003).

It experienced the greatest population increase since the 1940s between 1990 and 2000.

Santa Clara County had the most growth in terms of number of people.

Name	Total Fopulation, 1970	Total Population, 1980	Pop. Change	Pct Change	Total Population 1990	Pop. Change	Pct. Change
Alameda	1073164	1105379	32195	3	1279182	173803	15.7
Contra Costa	558369	6563&C	97991	16	803732	147352	22.4
Marn	206058	222568	18530	8	230098	7528	3.4
Napa	79140	99196	20059	25 3	110785	11566	11.7
San Francisco	715674	678694	-38710	-5.2	723959	45266	6.7
San Mateo	556254	587329	31095	56	649623	62294	10.6
Santa Clara	1064714	1296971	230357	21 6	1497677	202506	16.6
Solano	169941	235203	65262	38 4	340421	105218	44,7
Sorone	204865	299661	94798	46 2	388222	88541	29.5

## Growth rates, 1990-2002

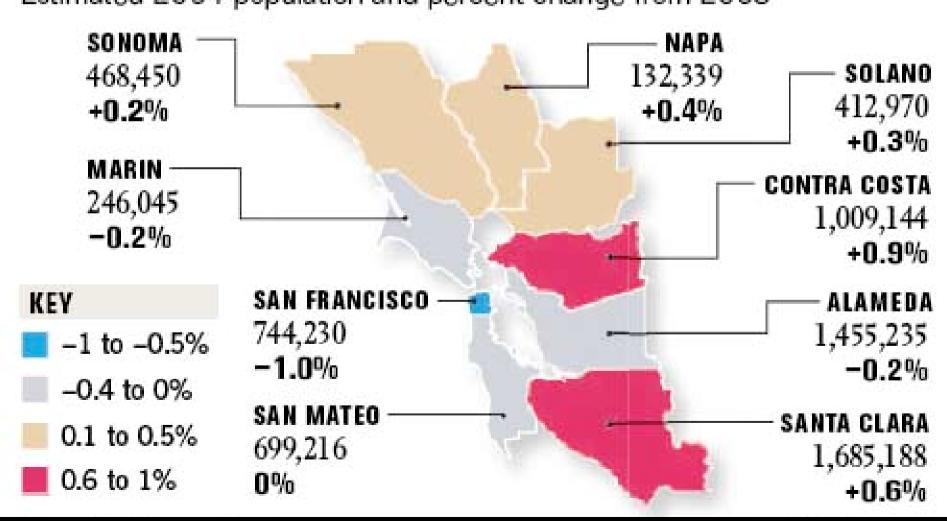
<b>Marin County</b>	8.7%
San Francisco City/County	9.6%
San Mateo County	10.8%
<b>Santa Clara County</b>	<b>15.1%</b>
BAY AREA	15.9%
Napa County	16.5%
<b>Alameda County</b>	16.6%
CALIFORNIA	18.5%
<b>Solano County</b>	21.1%
<b>Sonoma County</b>	22.4%
<b>Contra Costa County</b>	23.1%

Source: Department of Finance E-1 & E-4 Reports

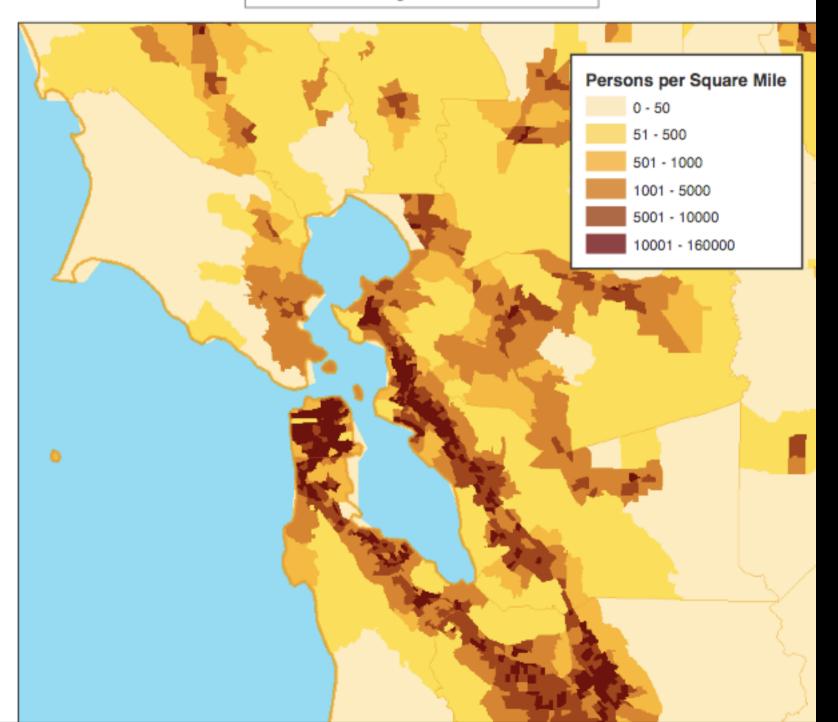
#### Population Change from 2003 to 2004

### Population changes in Bay Area counties

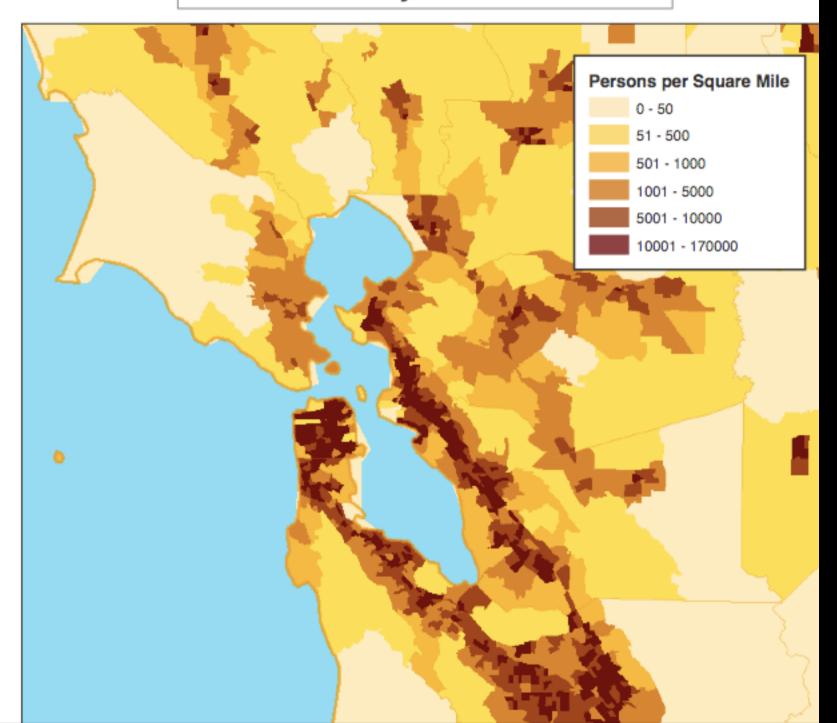
Estimated 2004 population and percent change from 2003



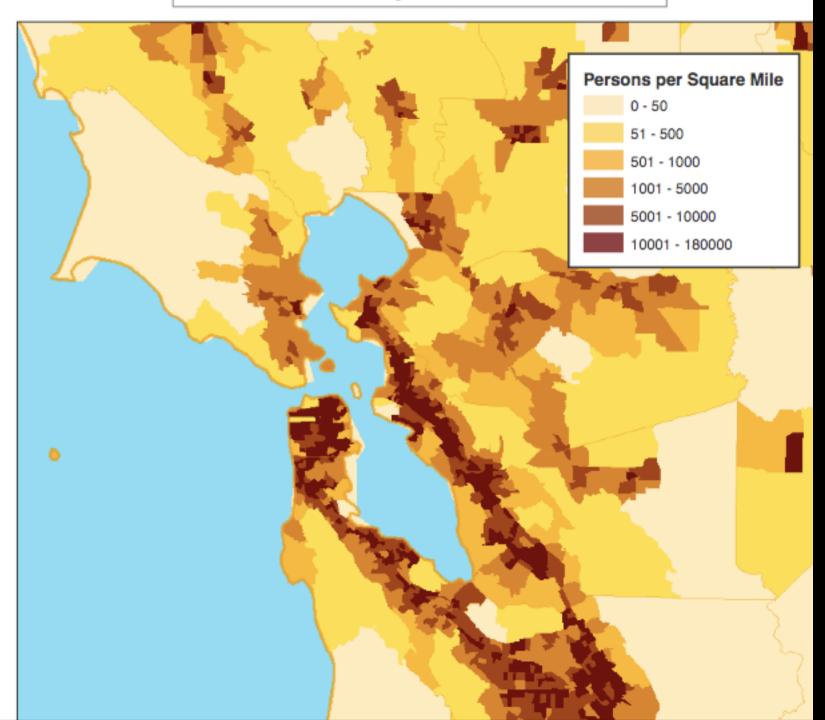
#### 2000 Population Density Bay Area



#### 2015 Projected Population Density Bay Area



#### 2025 Projected Population Density Bay Area

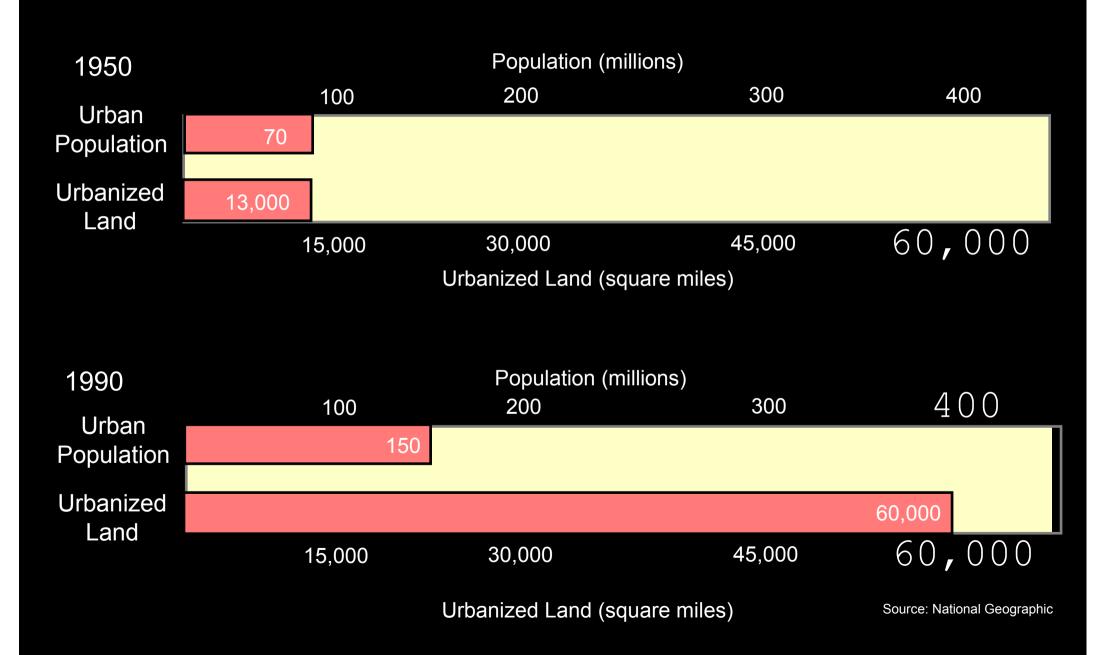


# Consequences

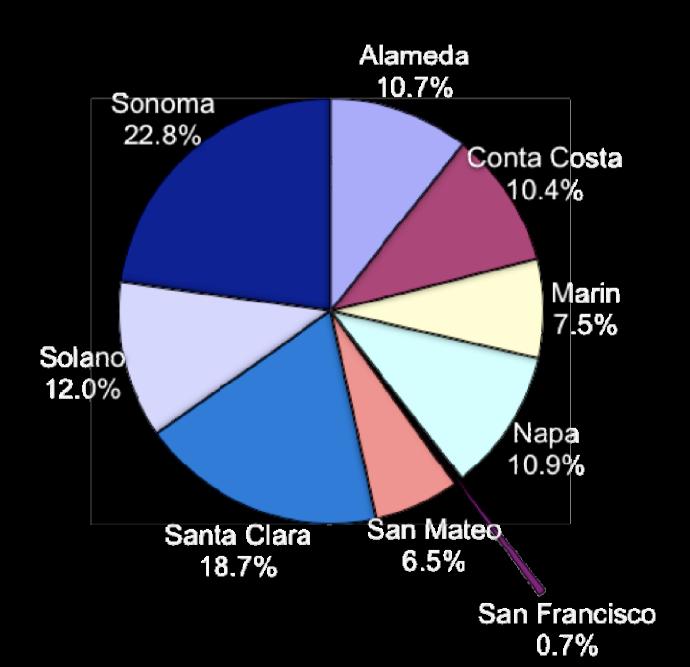
- Open Space and Agricultural Preservation
- Ecological Impacts
- Housing Availability and Affordability
- Traffic Mobility and Congestion
- Livability and Community Vitality
- Social and Economic Equity

#### **OPEN SPACE PRESERVATION**

Land has been urbanized 2 1/2 times faster than urban population has increased



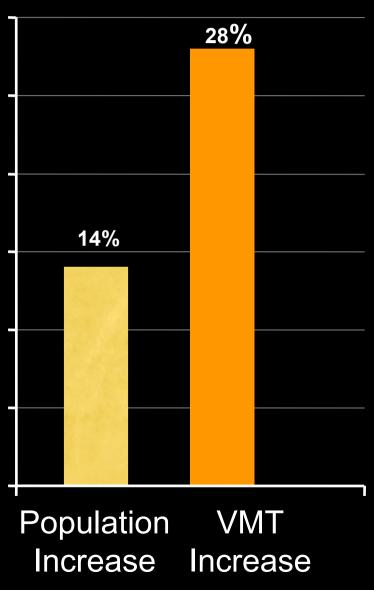
### Bay Area Counties by Land Shares



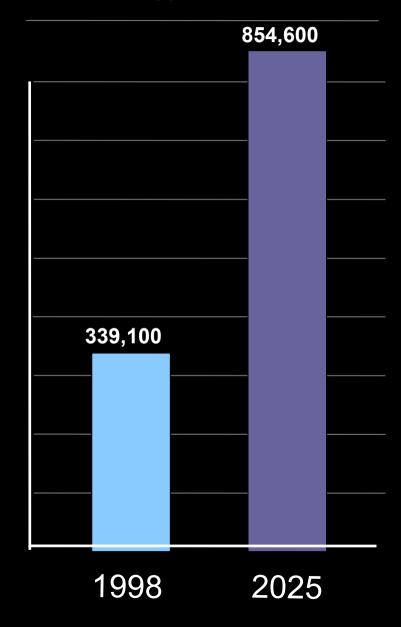
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#### TRAFFIC MOBILITY AND CONGESTION

# VMT Increasing Faster Than Population 2000-2020

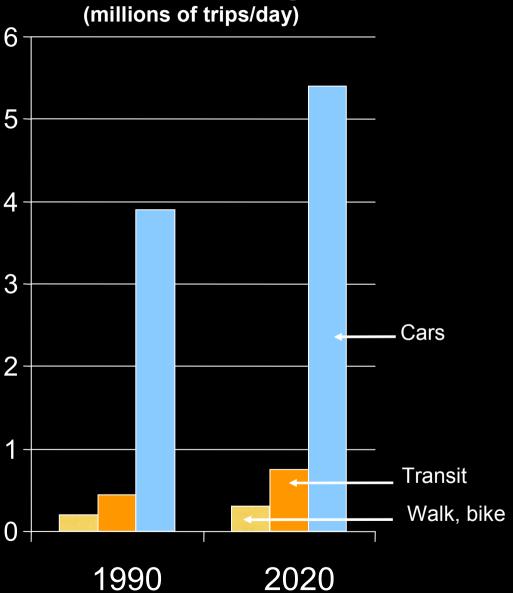


## Vehicle-Hours of Delay 150% Increase



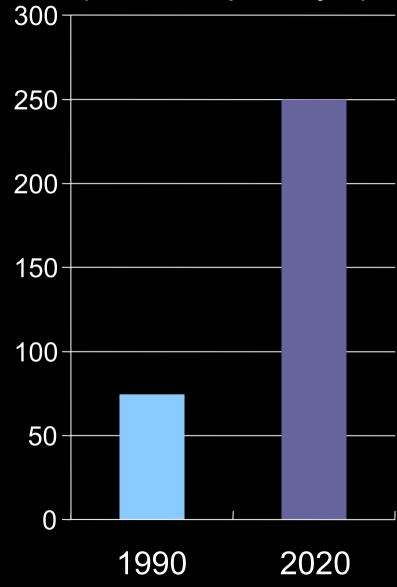
#### TRAFFIC MOBILITY AND CONGESTION



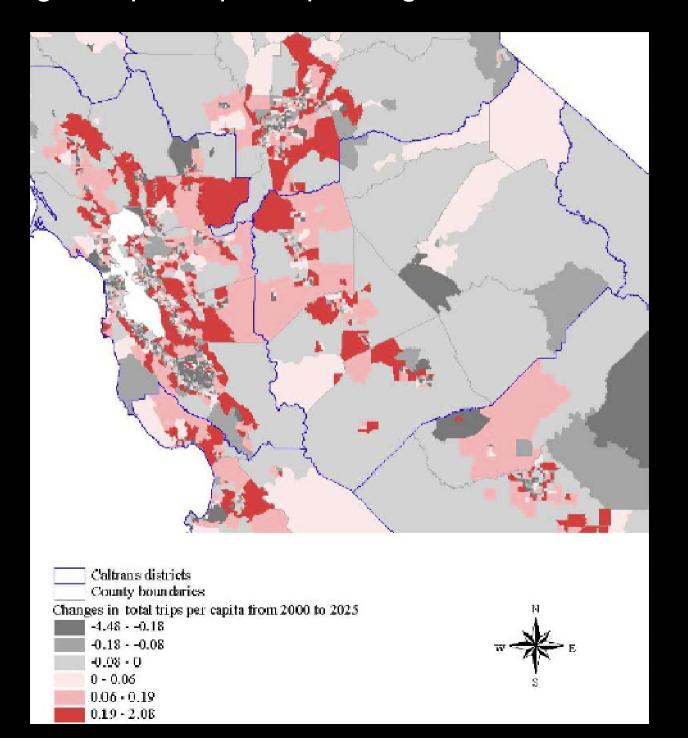


## In-Commuters to Bay Area Increase





#### Changes in per capita trip taking, 2000-2025



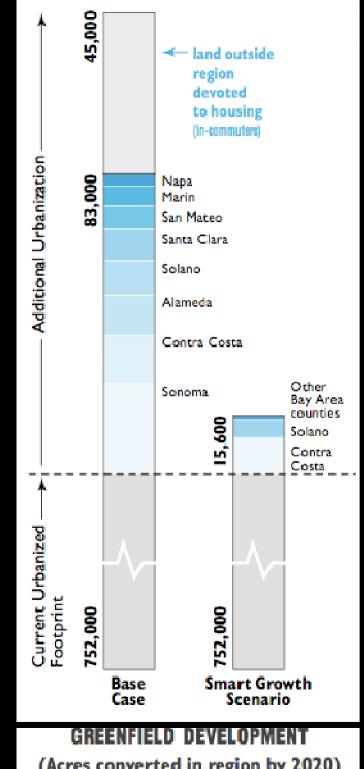
## Alternatives?

### **Growth Choices**

- Expand housing or constrain future job growth?
- Expand infrastructure to address runoff, other Bay contamination issues, and/or handle in-commuters?
- Get better handle on demographic assumptions of our neighbors (easy) Coordinate transportation investments in key corridors that cross or approach county boundaries (harder)
- Coordinate housing and/or employment planning and development in key travel corridors that traverse regional borders
- Find a smarter way to grow?

#### Smart Growth's three legs

- Comprehensive, integrated, forward-looking city planning -- a.k.a. the "rational" planning model
- B. A normative re-packaging of best practices for compact development -- a.k.a. the "new urbanism"
- C. A more inclusionary land governance process, but limited to those with the power to delay conventional deal making



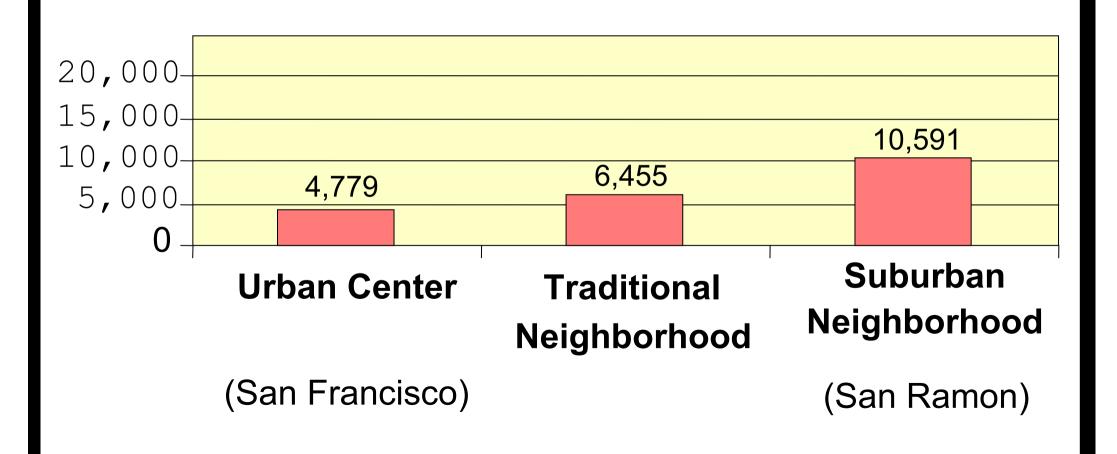
(Acres converted in region by 2020)

## **Smart Growth Principles**

- Efficiently accommodate projected growth.
- Provide sufficient affordable housing.
- Revitalize central cities and older suburbs.
- Reduce single occupant vehicle trips.
- Preserve open space and agricultural land.
- Foster equitable economic development while minimizing displacement.

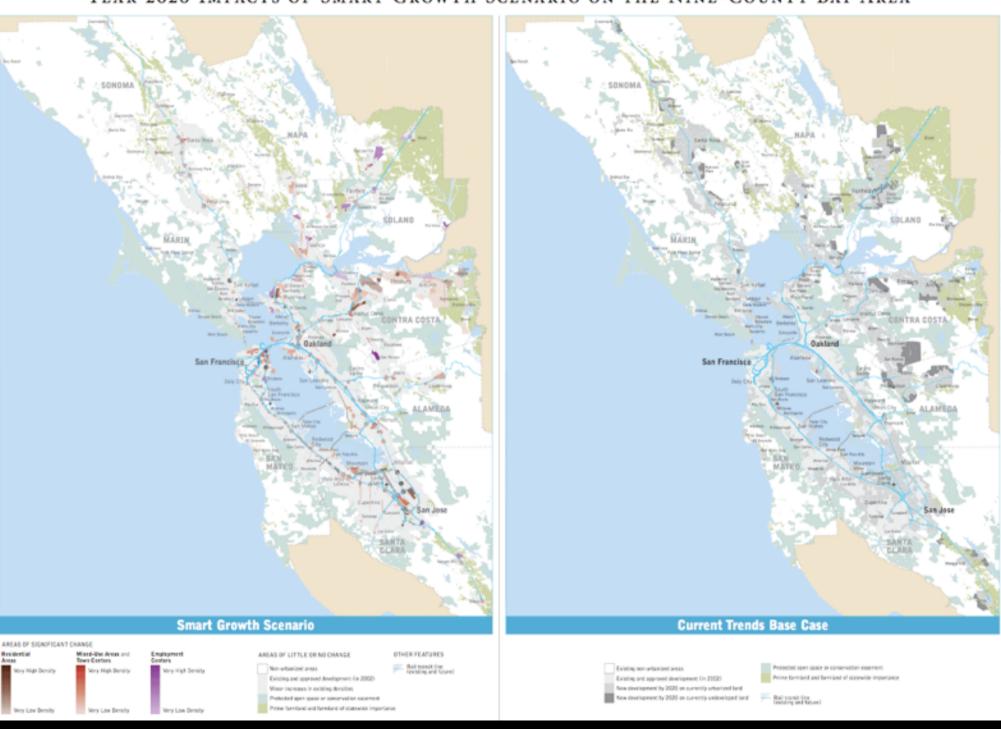
# Claims made about Traffic Mobility & Congestion under different Growth Patterns

#### Vehicle Miles Traveled Per Year

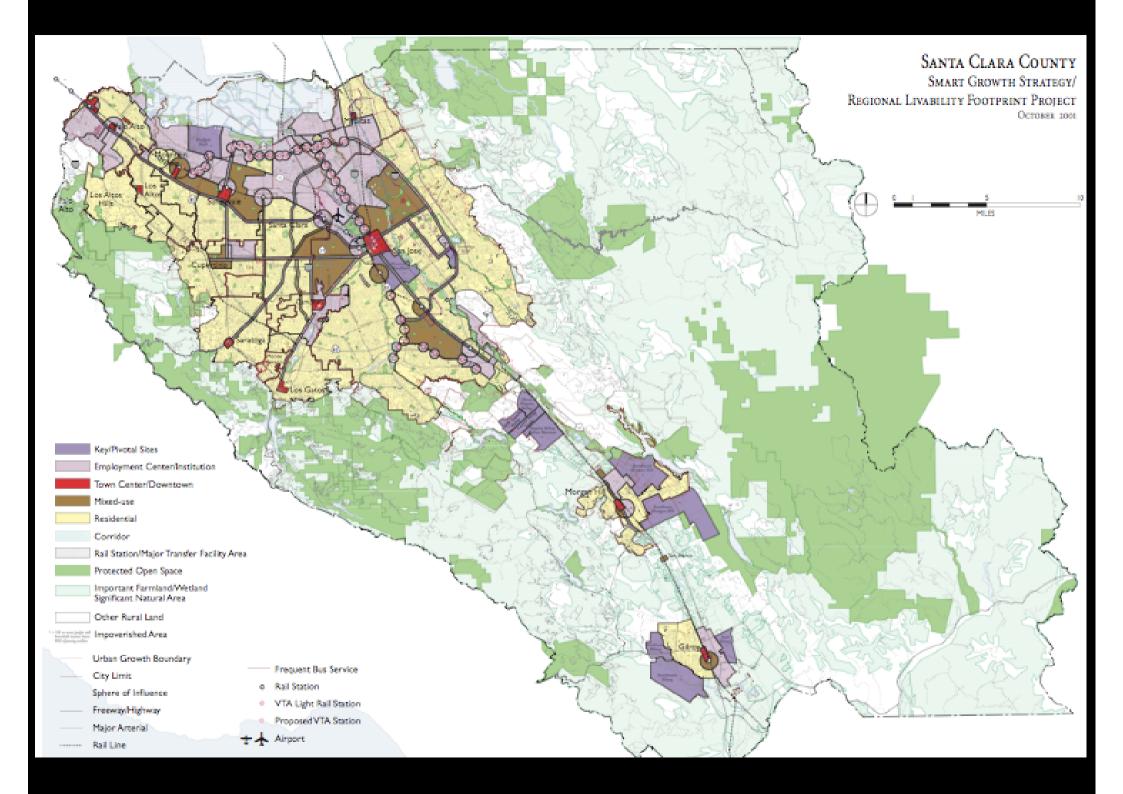


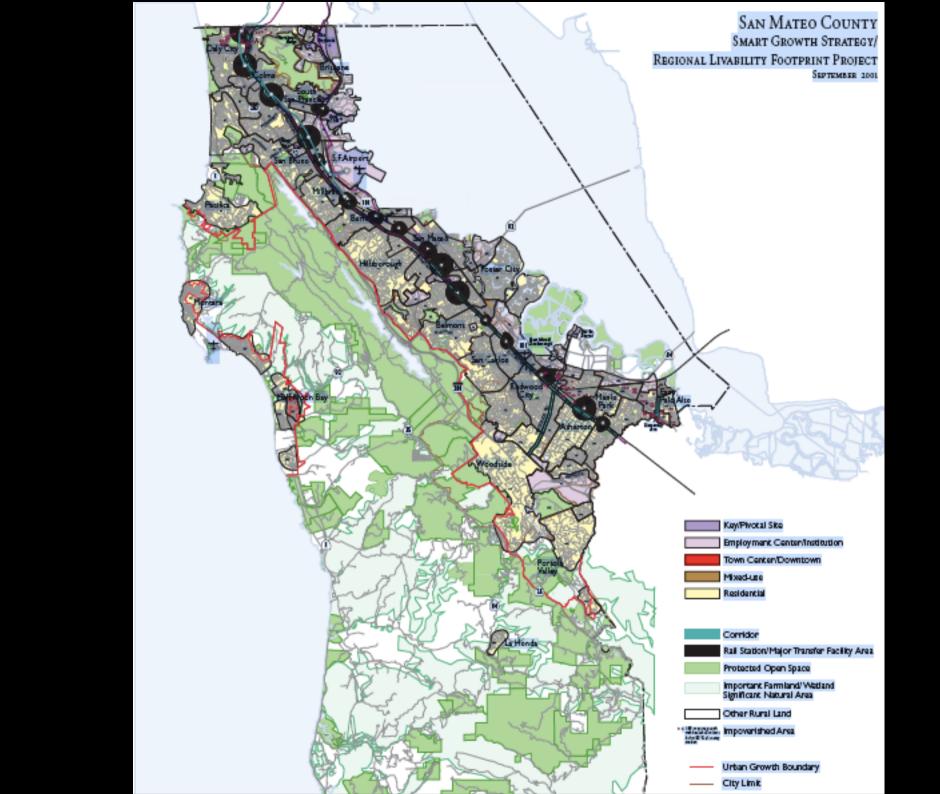
#### SMART GROWTH STRATEGY REGIONAL LIVABILITY FOOTPRINT PROJECT

YEAR 2020 IMPACTS OF SMART GROWTH SCENARIO ON THE NINE-COUNTY BAY AREA









# Summary

- Populations will continue to rise substantially almost everywhere in the region, split between births and migrants, especially in Santa Clara and Alameda counties. This will change only with weakness in the economy.
- The environmental impacts are more uncertain, and depend on where and how dense development takes place, and the associated infrastructure investments
- Key to influencing and mitigating these impacts is integrated planning -- across jurisdictions, agencies, and sectors.