

California's Diverse Demographics and Geography

CRC Applicant Review Panel training

August 29, 2019

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PPIC

PUBLIC POLICY
INSTITUTE OF CALIFORNIA

25 YEARS

Outline

- Sources of data
- Demographic trends and patterns
- Commission 2011



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- Sources of data
 - Decennial censuses
 - Population estimates and projections
 - Survey data
 - Administrative data and other sources
 - Errors in the data
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Decennial census purpose

- Why take a census?
 - Apportion the House of Representatives
 - Determine political districts
 - Disburse funds for programs (more than \$400 billion in federal funds every year)
 - Develop a portrait of our nation



Decennial census goals and methods

- The 2020 Census
 - Goal: Count everyone once, only once, and in the right place
 - One person reports for everyone else in the household
 - Questionnaire: Just a few questions (name, age, race/ethnicity, gender, own/rent, relationships within household)
 - Citizenship question controversy



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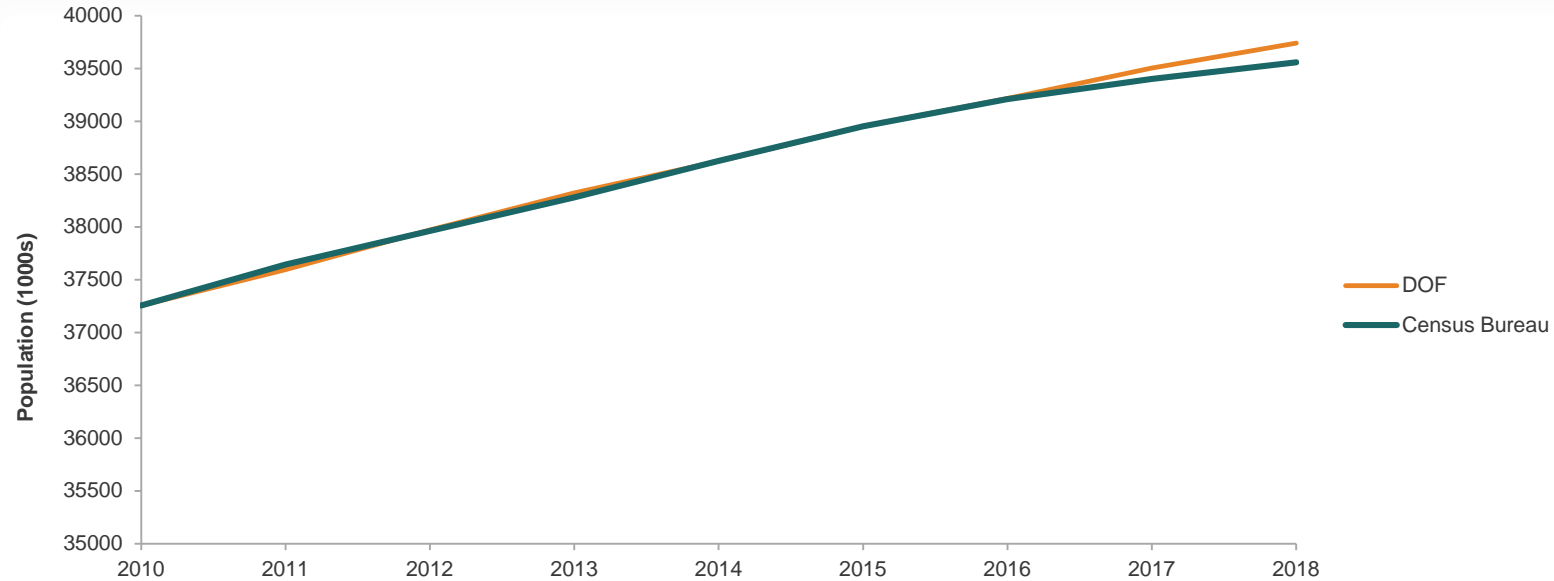


Population estimates and projections

- Estimates are historical population figures
- Projections are future population figures
- Produced by the US Census Bureau and the California Department of Finance
- Estimates are based on decennial census counts updated with recent administrative data
- Projections are based on assumptions about future fertility, mortality, and migration rates



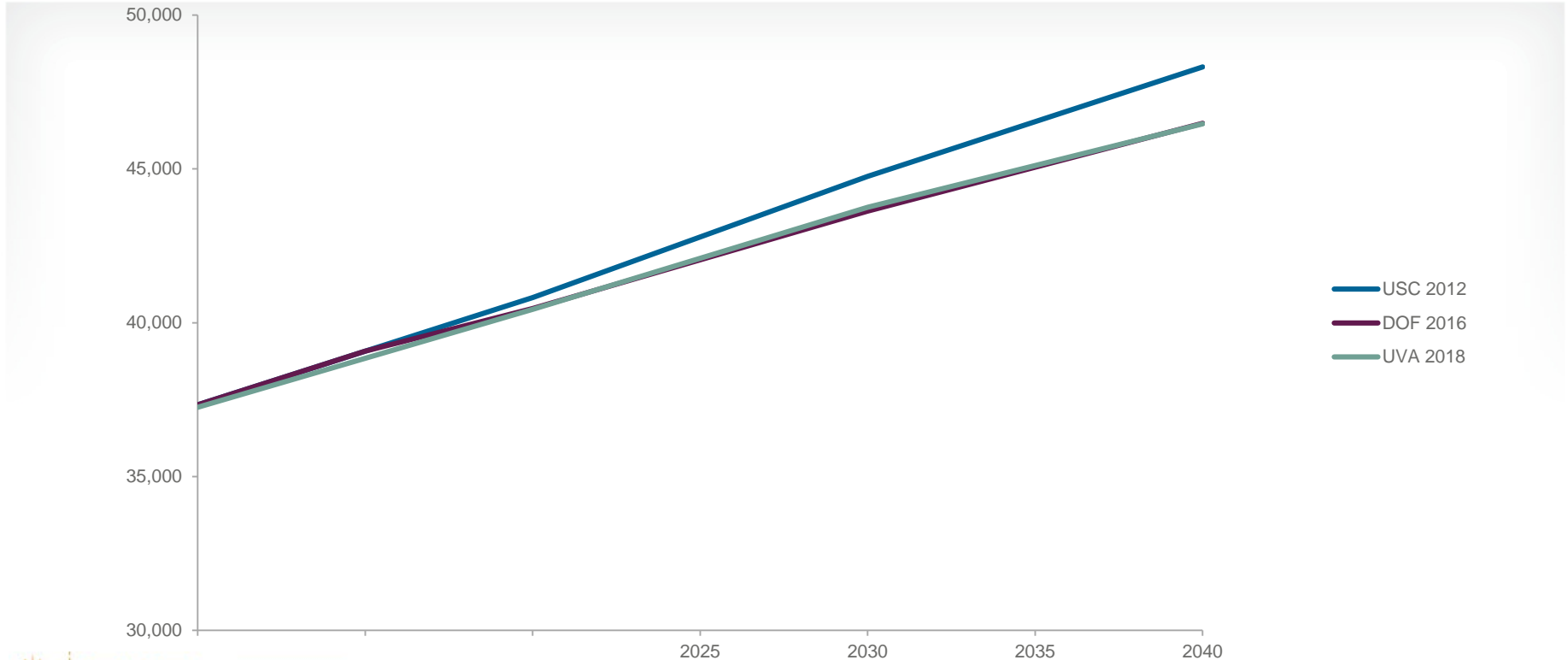
Latest population estimates match closely



Source: Department of Finance



Projections for California sometimes diverge



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Two primary surveys of the U.S. population

- Both surveys conducted by the Census Bureau
- Current Population Survey
 - Monthly survey
 - Focus on labor market
- American Community Survey (ACS)



What is the ACS?

- Monthly survey conducted by the Census Bureau
- Annually samples about 3 million households
- Items covered are similar to those of the long-form questionnaire of the 2000 decennial census
- Replaced the long form of the census starting in 2010



Topics Covered

- Demographic characteristics
- Income and employment
- Transportation
- Education
- Origins and languages
- Migration
- Disability and caregivers
- Housing: Physical characteristics
- Housing: Financial characteristics



Advantages of the ACS

- Large sample relative to the Current Population Survey
 - 3 million versus 60,000 households
- Timely data relative to the decennial census
- Lots of topics covered—great portrait of the nation on many dimensions



Limitations of the ACS

- Not a count of the population
- Small sample relative to the decennial census
 - Census long-form went to one in six households
 - ACS goes to one in forty
- A moving average rather than a point in time
- Estimates for census tracts and block groups will be based on five year periods
- Can't be used for redistricting
- Still pegged to the census estimates



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Administrative and other sources of demographic and housing data

- California Statewide Database (UC Berkeley)
 - Voter registration
 - Election outcomes
- California Department of Education
 - School demographics
 - School test scores
- California Employment Development Department
 - Unemployment rates
 - Occupations
- Private sources



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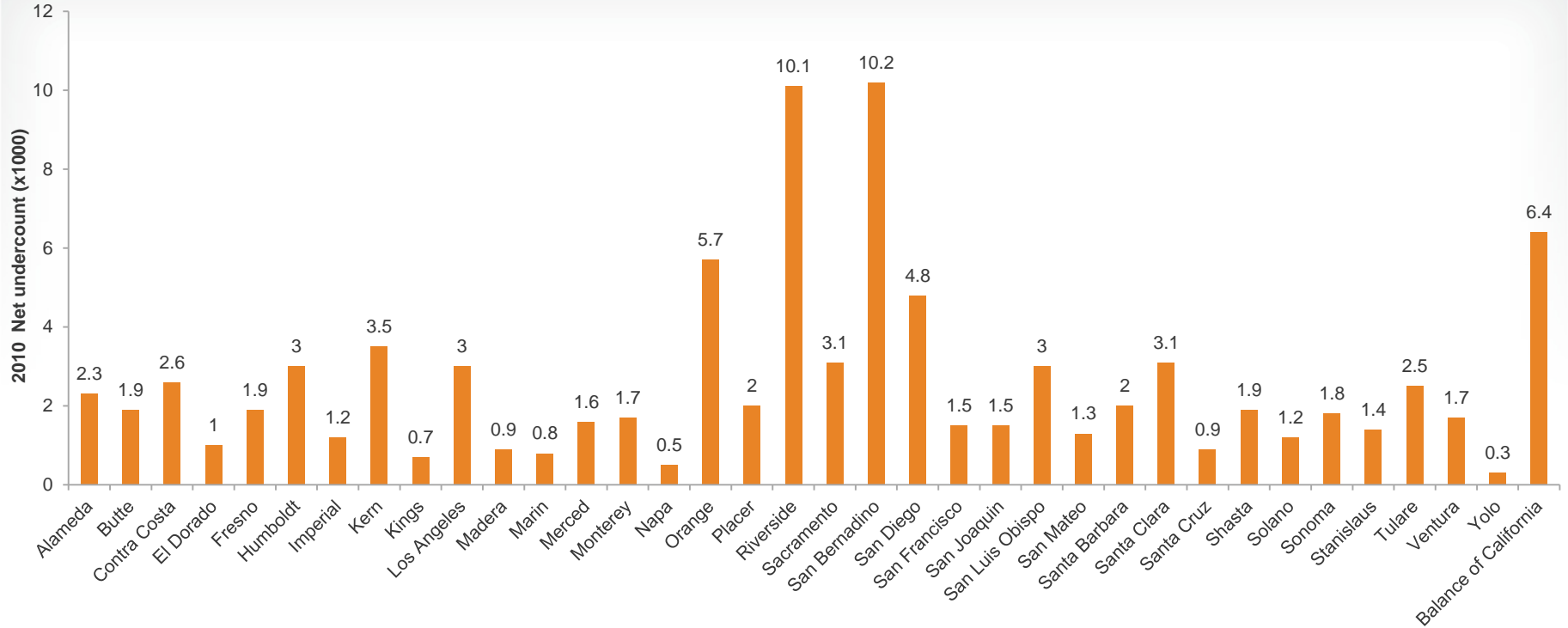


California tends to have high net undercount rates

- 1990
 - CA: -2.7%
 - US: -1.6%
- 2000
 - CA: -0.1% (one of only 10 states)
 - US: +0.5%
- 2010
 - CA: -0.26%
 - US: +0.01%



Undercounts vary by county



Concerns about a 2020 Census undercount

- Funding challenges
- General distrust that depresses response rates
- First-time Internet survey
- More aggressive administrative matching
- Non-citizen distrust

- Many apply more to California than other states



What should we do about a bad Census?

- Department of Finance estimates
- Post-Enumeration Survey and demographic analysis
- Should the state adjust for the sake of redistricting?



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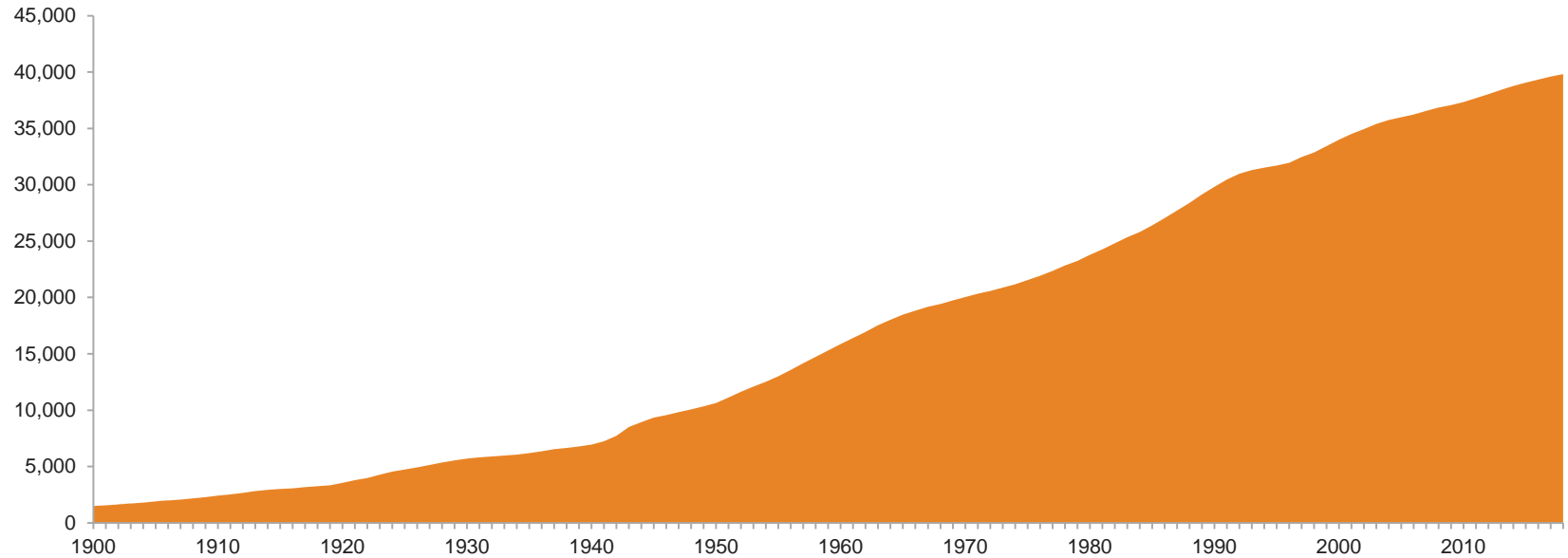
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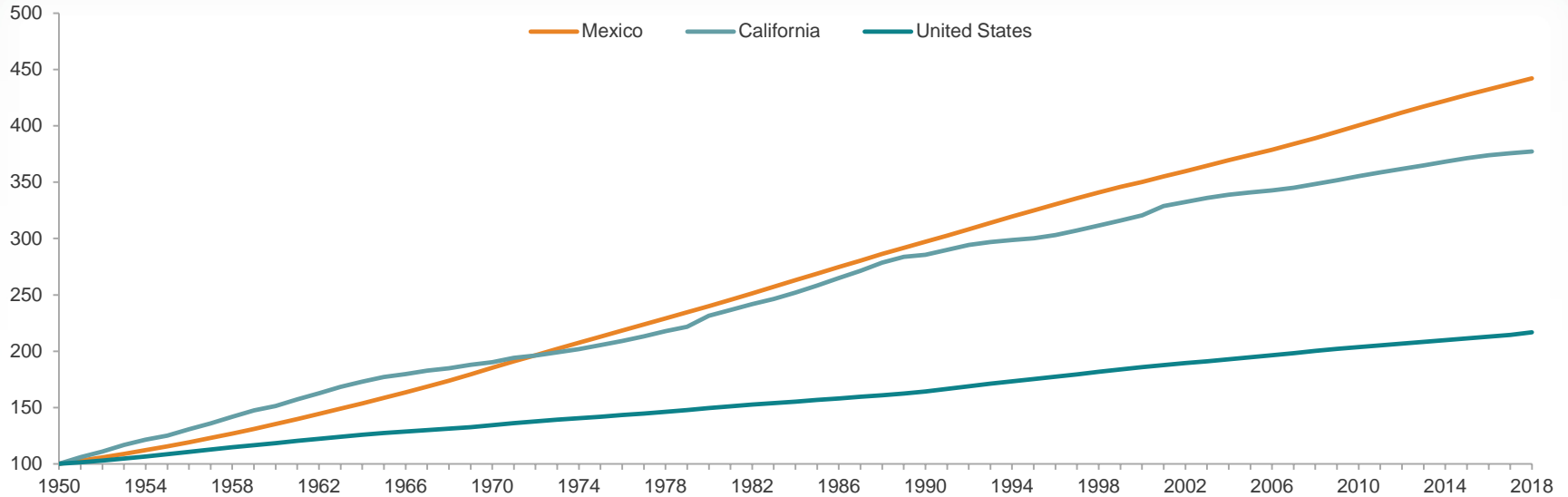


California still has a large and growing population

Populations in thousands 1900-2018



Comparisons of population change 1950=100



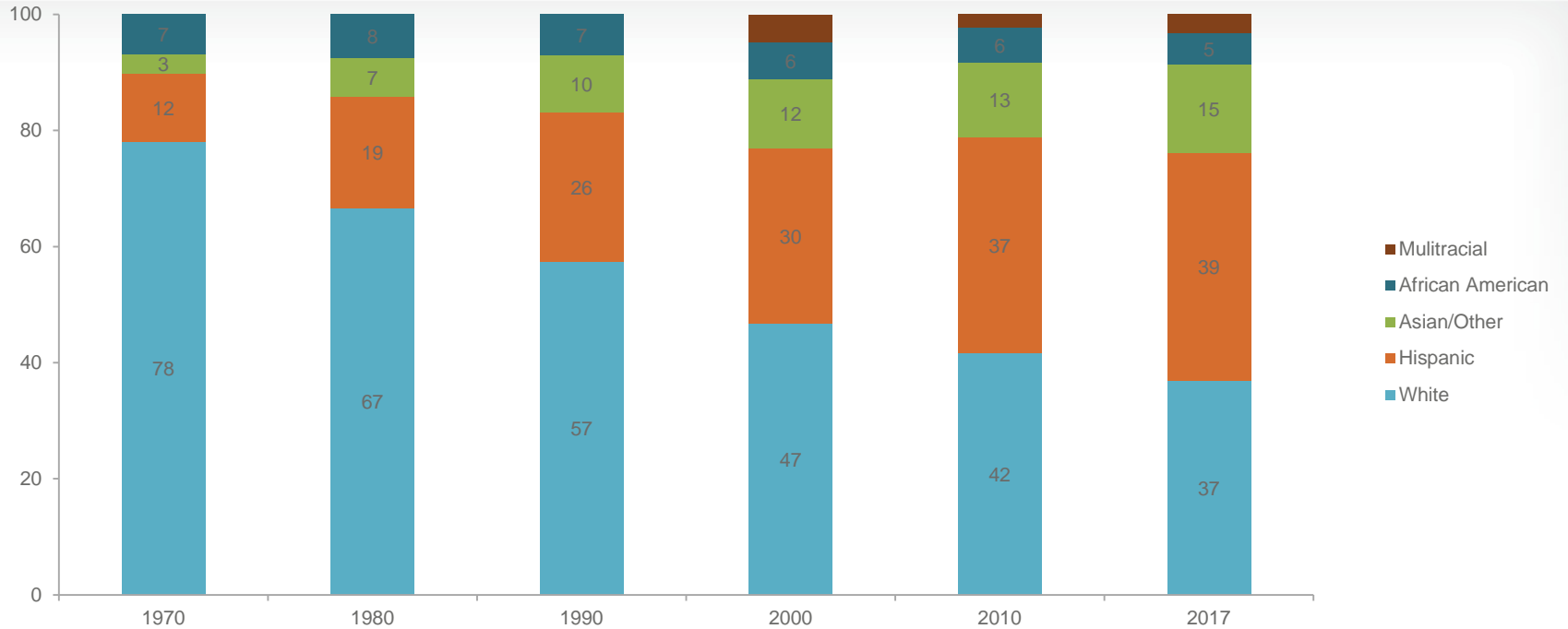
Source: US Census Bureau

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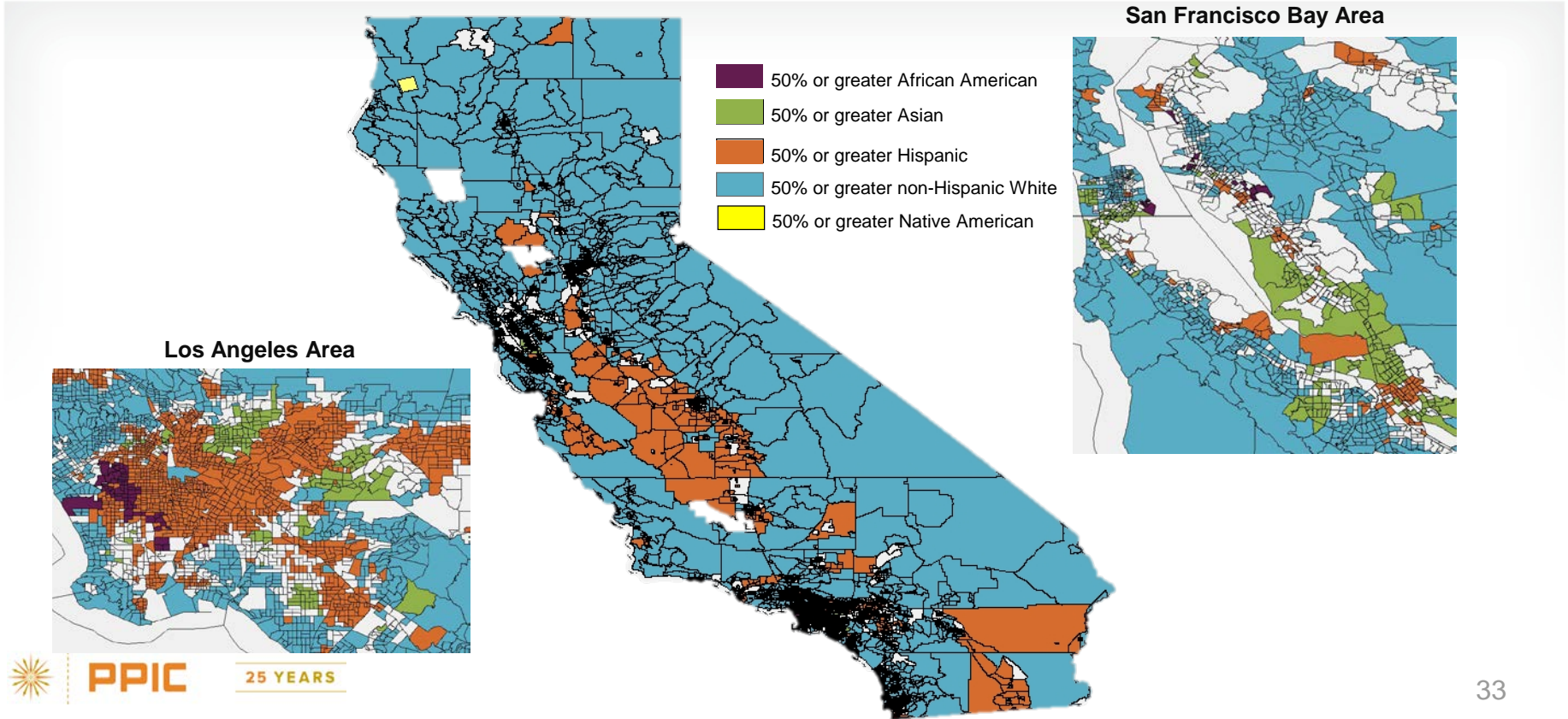


California Population by Race/Ethnicity 1970-2018

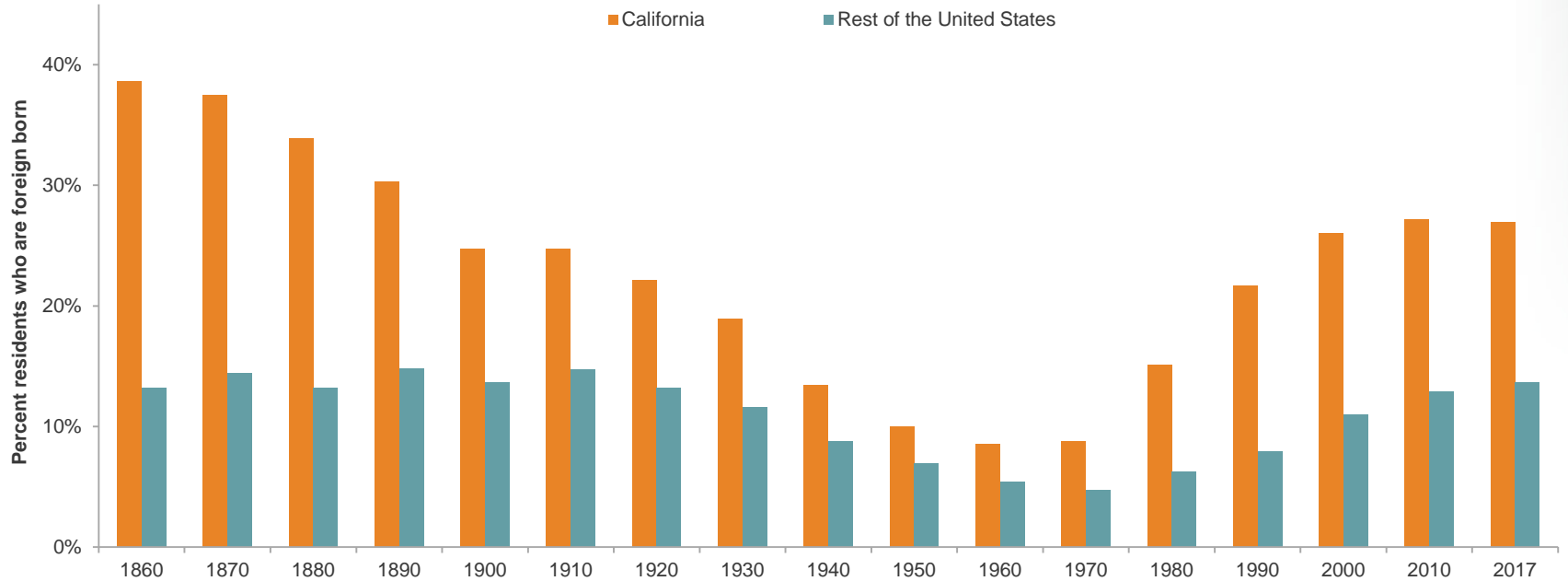


Source: United States Census Bureau, decennial censuses and American Community Survey

Ethnic Majorities by Census Tract, 2010



Percent foreign born population 1880-2017



Latin America is the leading source of immigrants

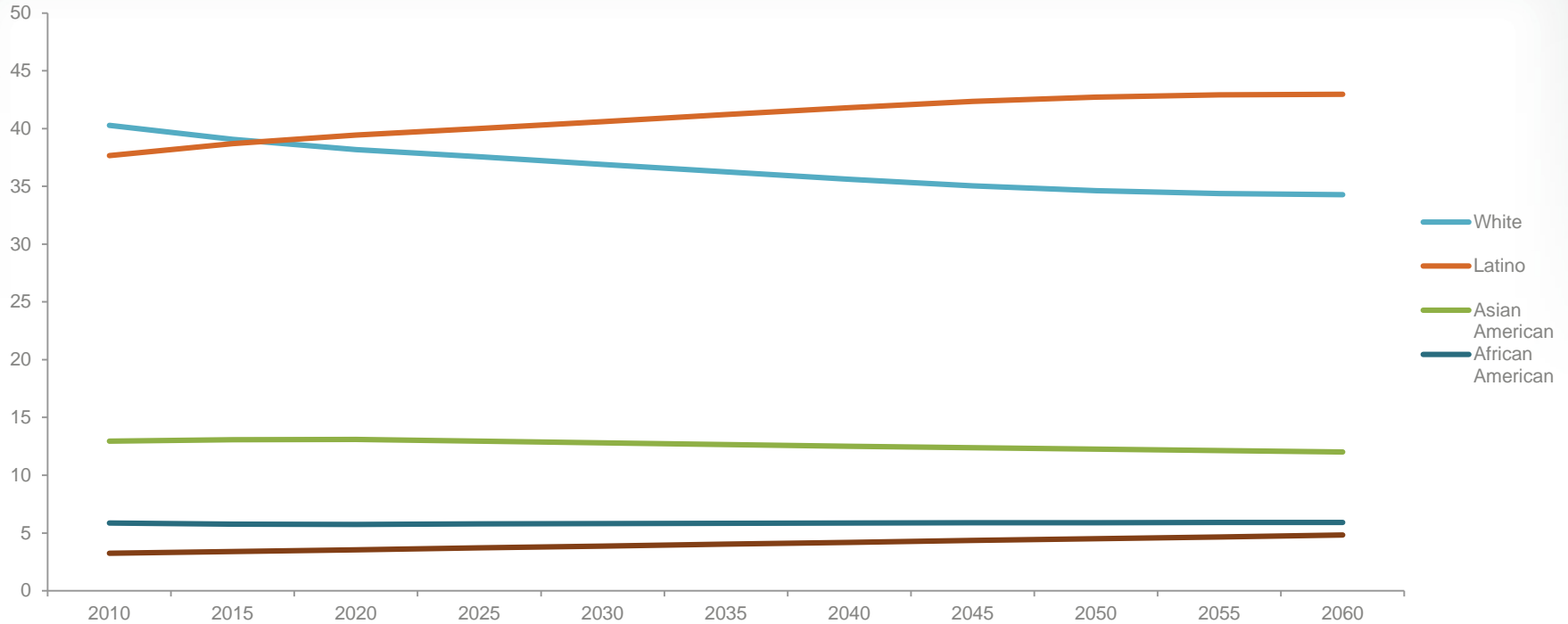
Latin America	5,327,000	(50%)
Asia	4,261,000	(40%)
Europe	639,000	(6%)
Africa	181,000	(2%)
Canada	128,000	(1%)
Oceania	96,000	(1%)

Source: 2017 American Community Survey

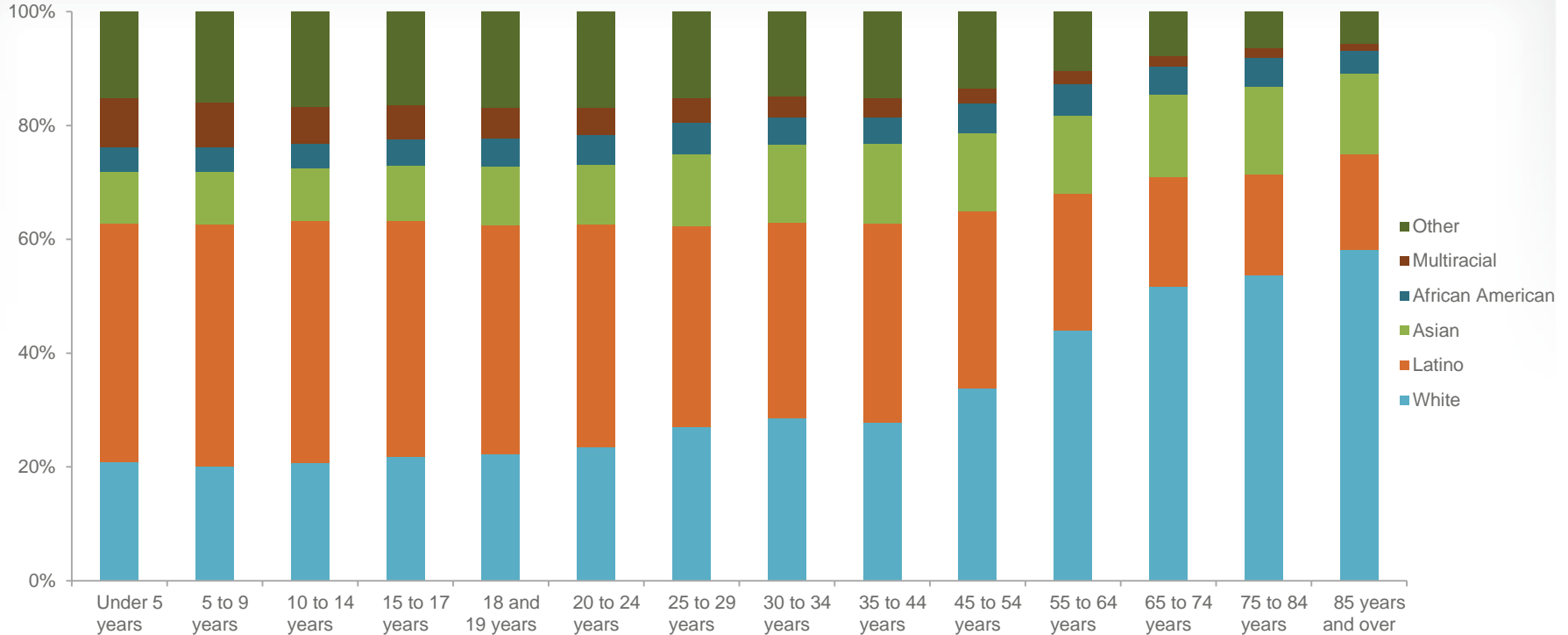
California immigrants come from dozens of countries

Mexico	Iran	Thailand	Pakistan	Cuba	Burma	Belize	Jordan
China	Taiwan	Russia	Iraq	Argentina	Romania	Ireland	Saudi Arabia
Philippines	Canada	Nicaragua	Colombia	Israel	Ethiopia	Tukey	Sweden
Vietnam	Japan	Honduras	Indonesia	Lebanon	Nigeria	Chile	Nepal
India	Hong Kong	England	Brazil	Afghanistan	Ecuador	Malaysia	Costa Rica
El Salvador	Germany	Cambodia	France	Italy	Poland	Spain	Greece
Korea	Peru	Ukraine	Egypt	Portugal	Australia	Bangladesh	Sri Lanka
Guatemala	Armenia	Laos	Fiji	Syria	Netherlands	Jamaica	Hungary

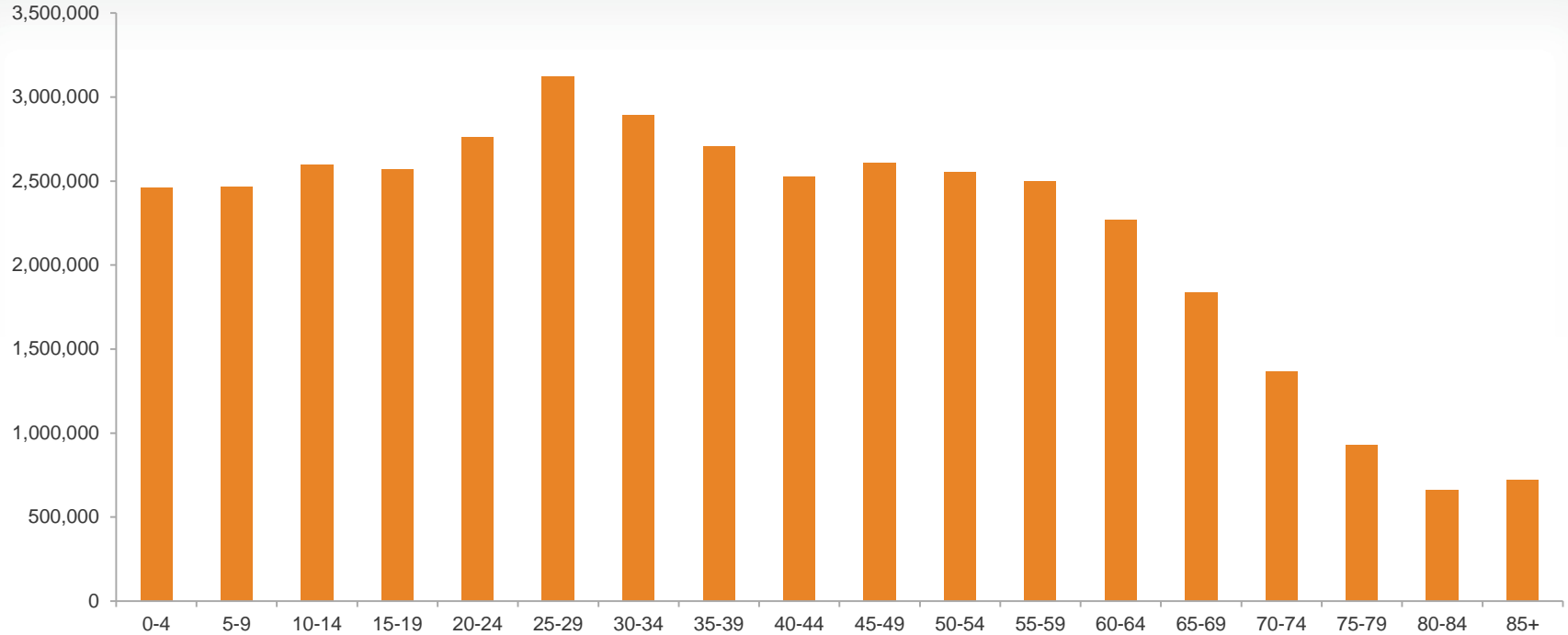
Latinos have become the single largest ethnic group



Young Californians are much more diverse



California Population by Age, 2017



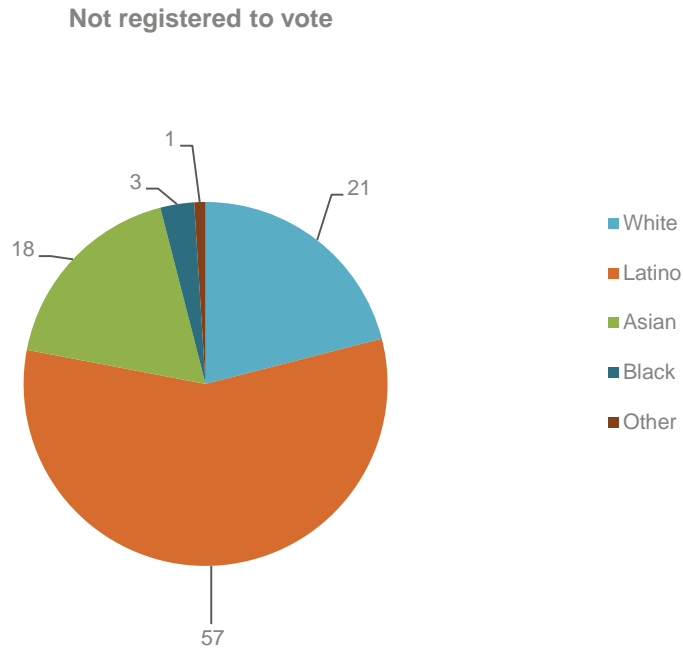
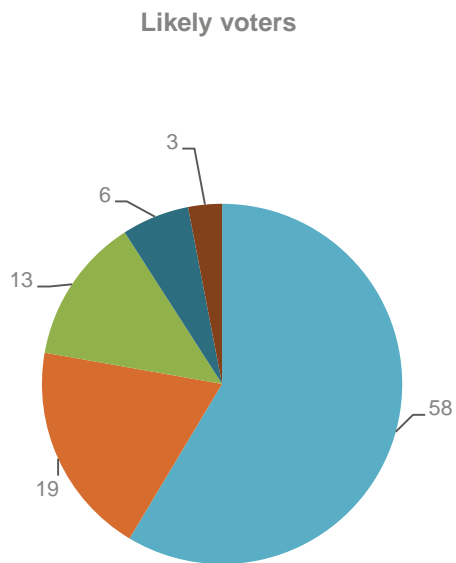
Source: American Communities Survey



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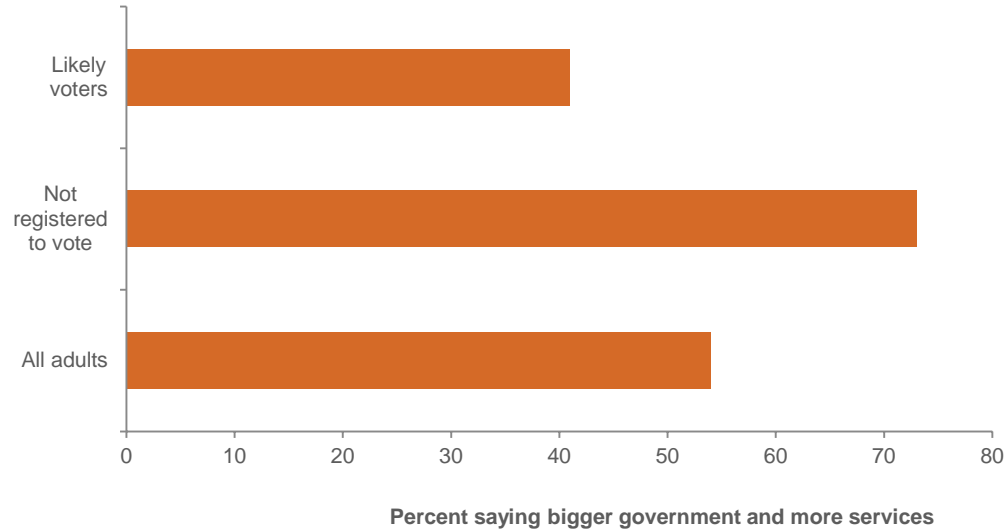
California's diversity is not represented among its voters



Source: PPIC Statewide Survey

Voters have different opinions than non-voters

"If you had to choose, would you rather have a smaller government providing fewer services, or a bigger government providing more services?"



Source: PPIC Statewide Survey

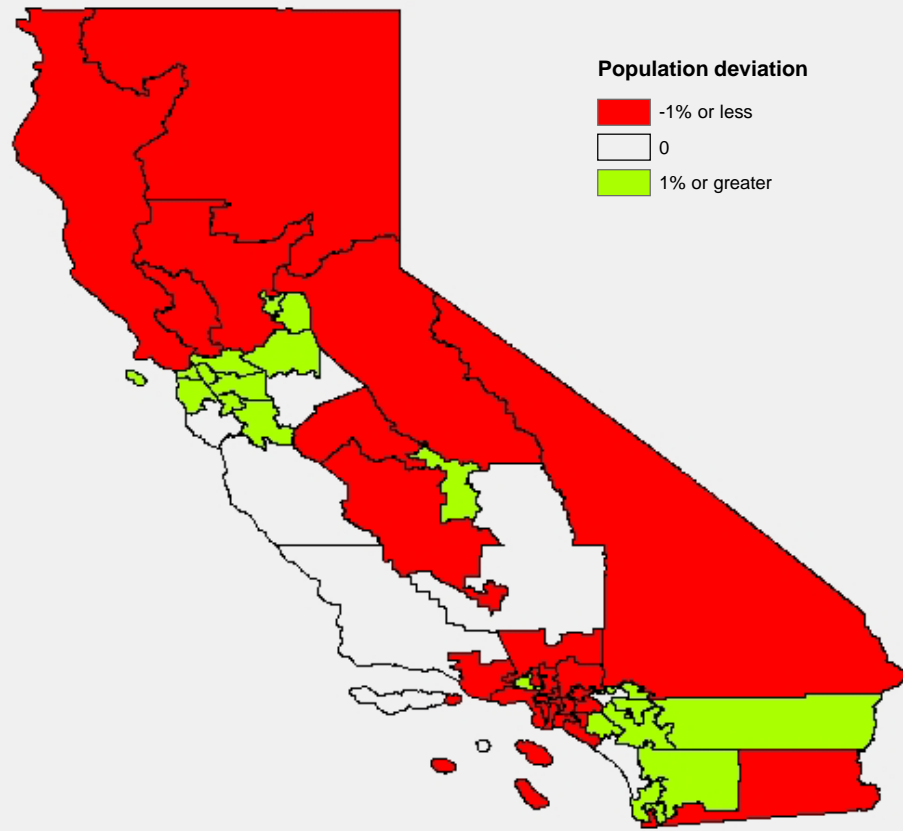


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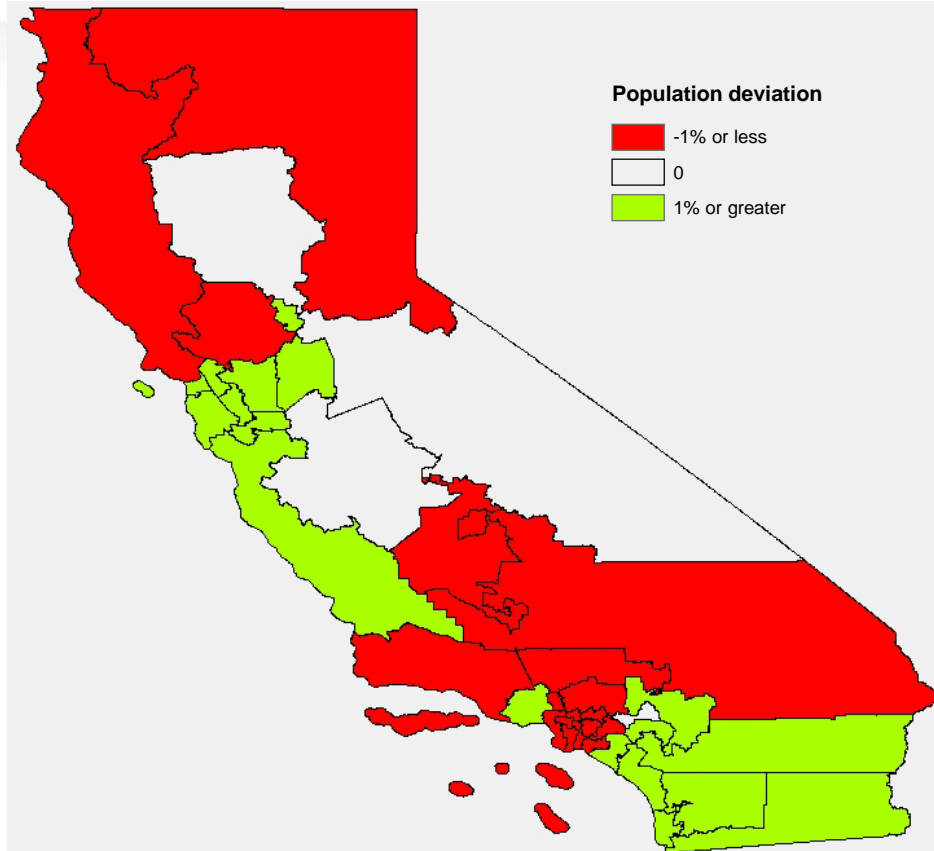
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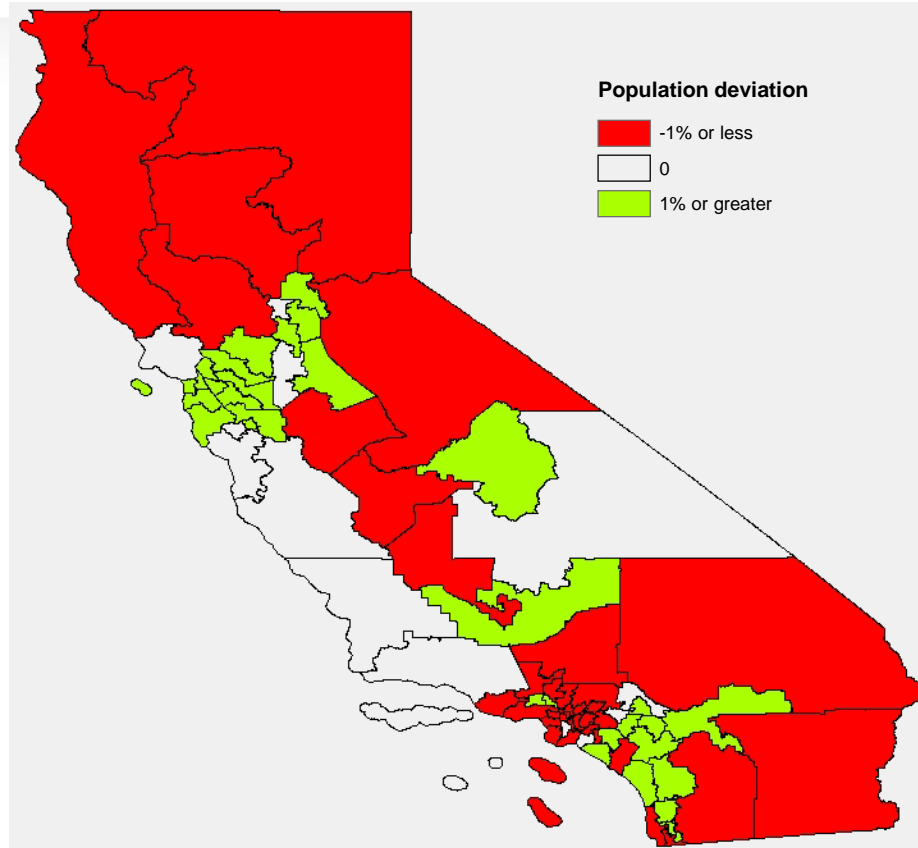
Population deviations: US Congressional districts



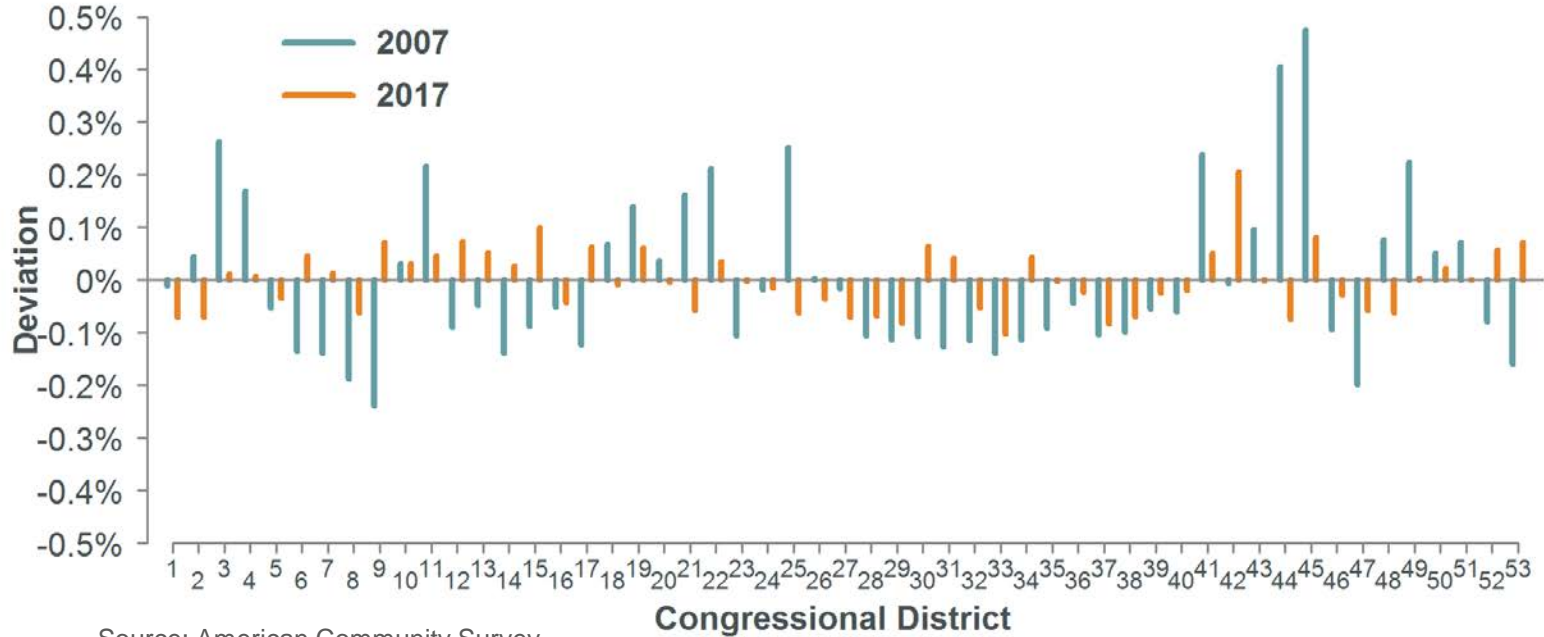
Population deviations: California Senate districts



Population deviations: California Assembly districts



Population deviations are smaller so far this cycle



Source: American Community Survey



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The CRC districts had to meet several goals

- Equal population
- Compliant with Voting Rights Act
- Geographically contiguous, compact, and respectful of communities with common interests
- Nested: two state assembly districts in each state senate district
- Not skewed by party or incumbent favoritism



VRA: new plans improved Latino, Asian-American representation

Majority-minority districts by plan

	2001 Plan	2011 Draft Plan	2011 Final Plan
African-American	0	0	0
Latino	18	19	26
Asian-American	0	0	1



Cities: modest decline in split cities

Share of cities split between districts

	2001 Plan	2011 Draft Plan	2011 Final Plan
Assembly	11%	8%	8%
Senate	4%	6%	4%
Congress	6%	12%	9%



Counties: decline in split counties for Senate

Number of counties split between districts

	2001 Plan	2011 Draft Plan	2011 Final Plan
Assembly	27	27	28
Senate	25	26	20
Congress	24	27	25



Compactness: districts became far less convoluted

Average district compactness (Polsby-Popper)

	2001 Plan	2011 Draft Plan	2011 Final Plan
Assembly	0.20	0.25	0.26
Senate	0.12	0.21	0.23
Congress	0.13	0.23	0.23



Nesting: some remaining improvement after dramatic change

	2001 Plan	2011 Draft Plan	2011 Final Plan
Average number of Assembly districts per Senate district	6.35	2.95	4.95



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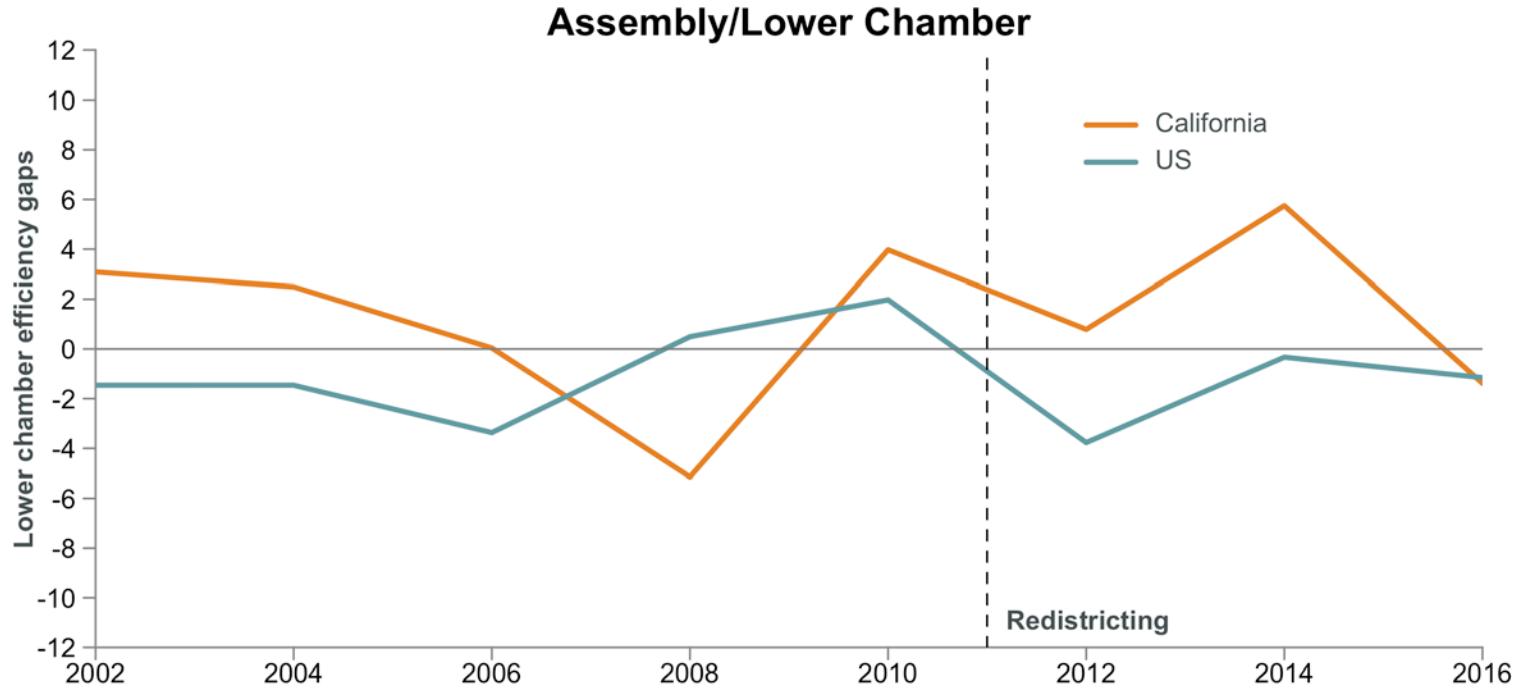


Fair and competitive plans were hoped for but not required

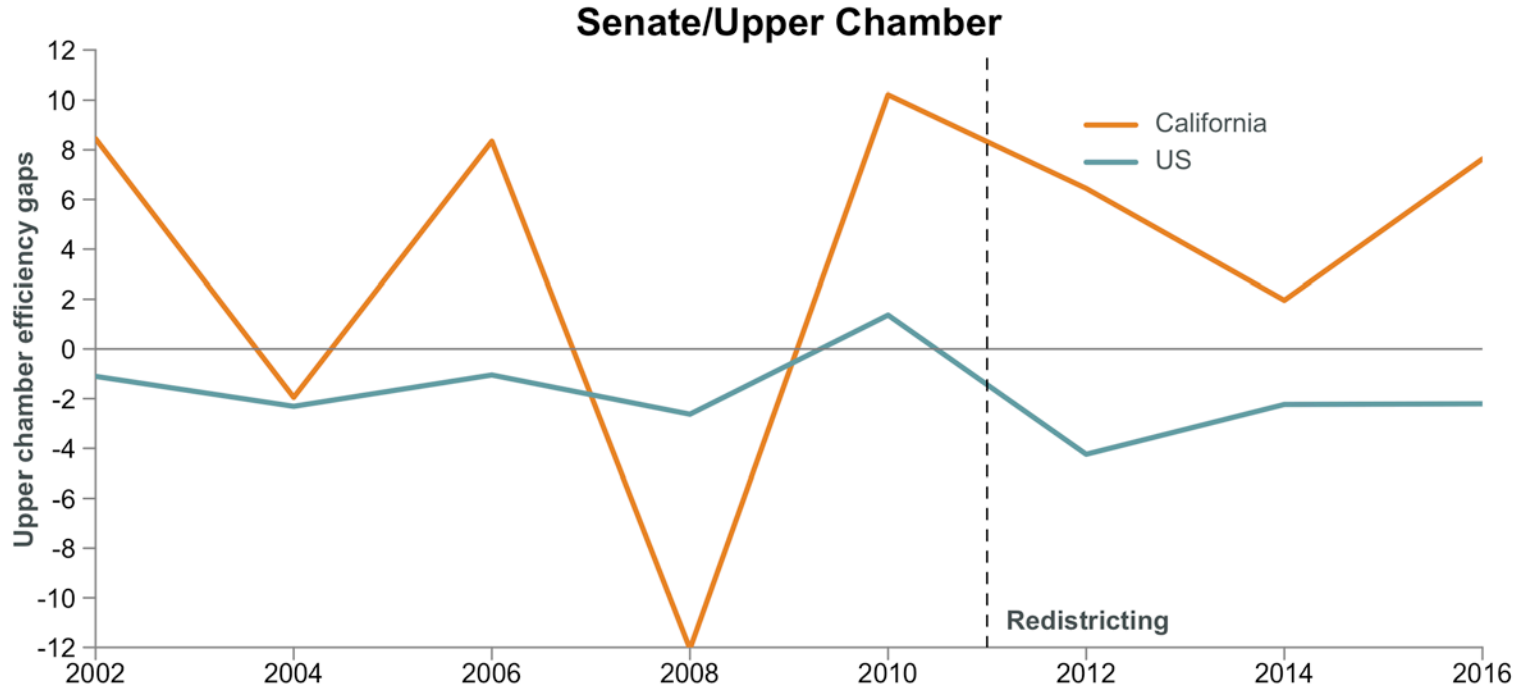
- Fairness to the major parties
 - No large gaps between the overall number of votes and seats won
- Competitive races in most or all districts
 - 45%–55% vote share for each major-party candidate



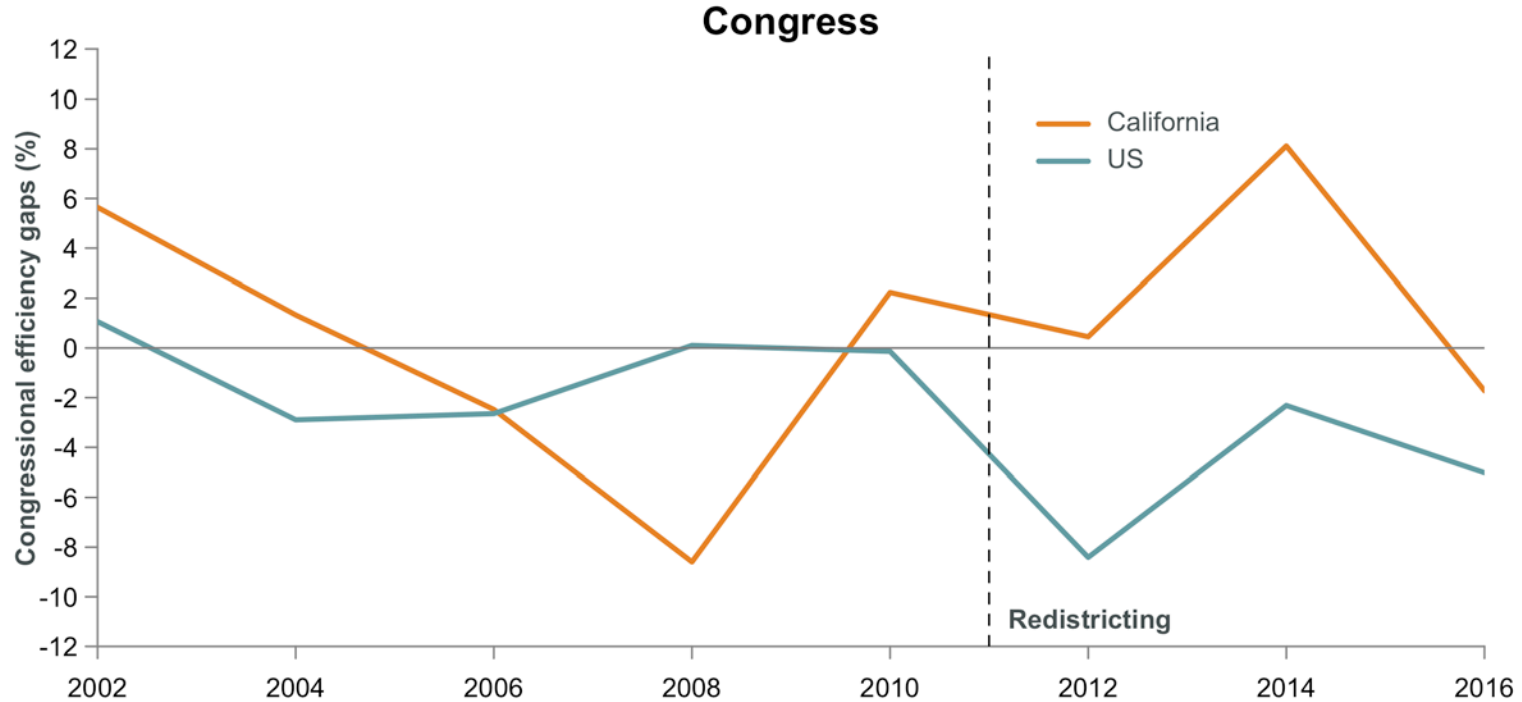
Partisan fairness: Efficiency gap trends over time are noisy



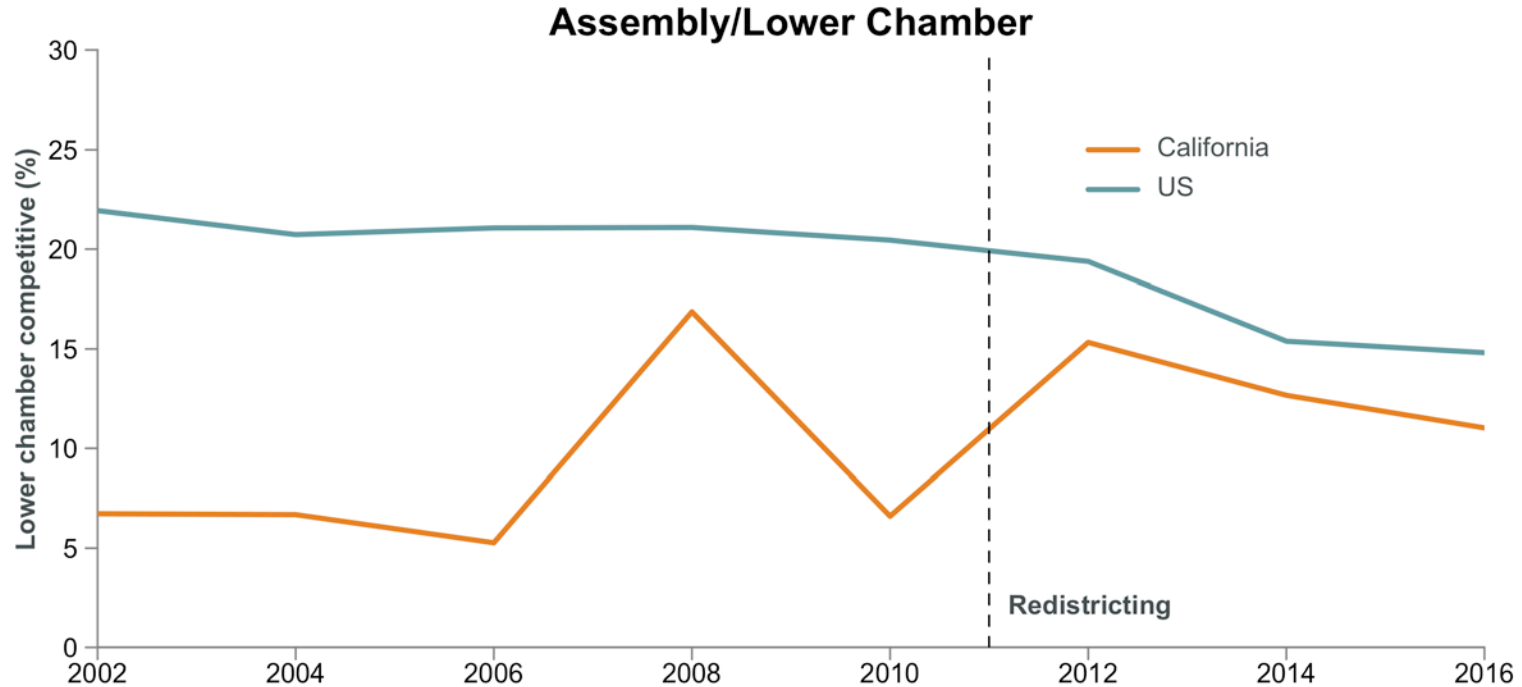
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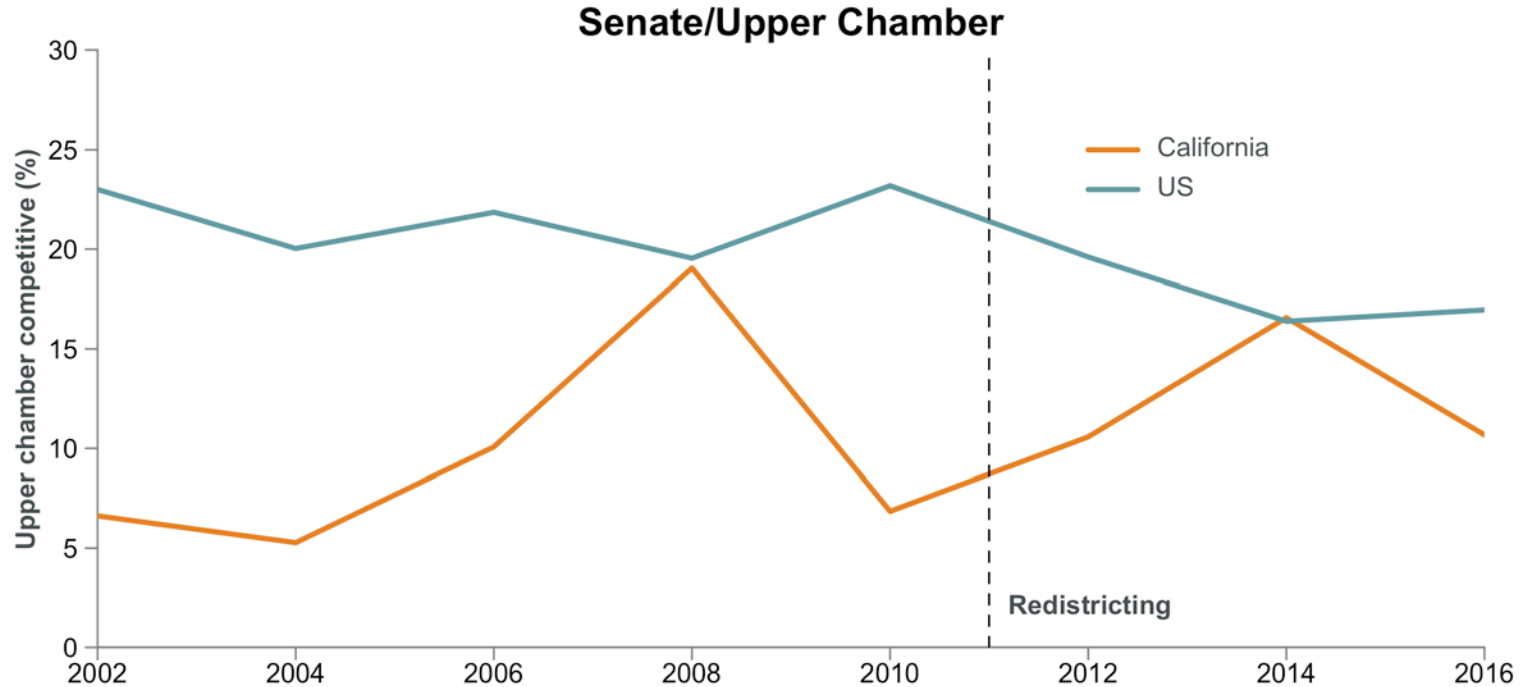
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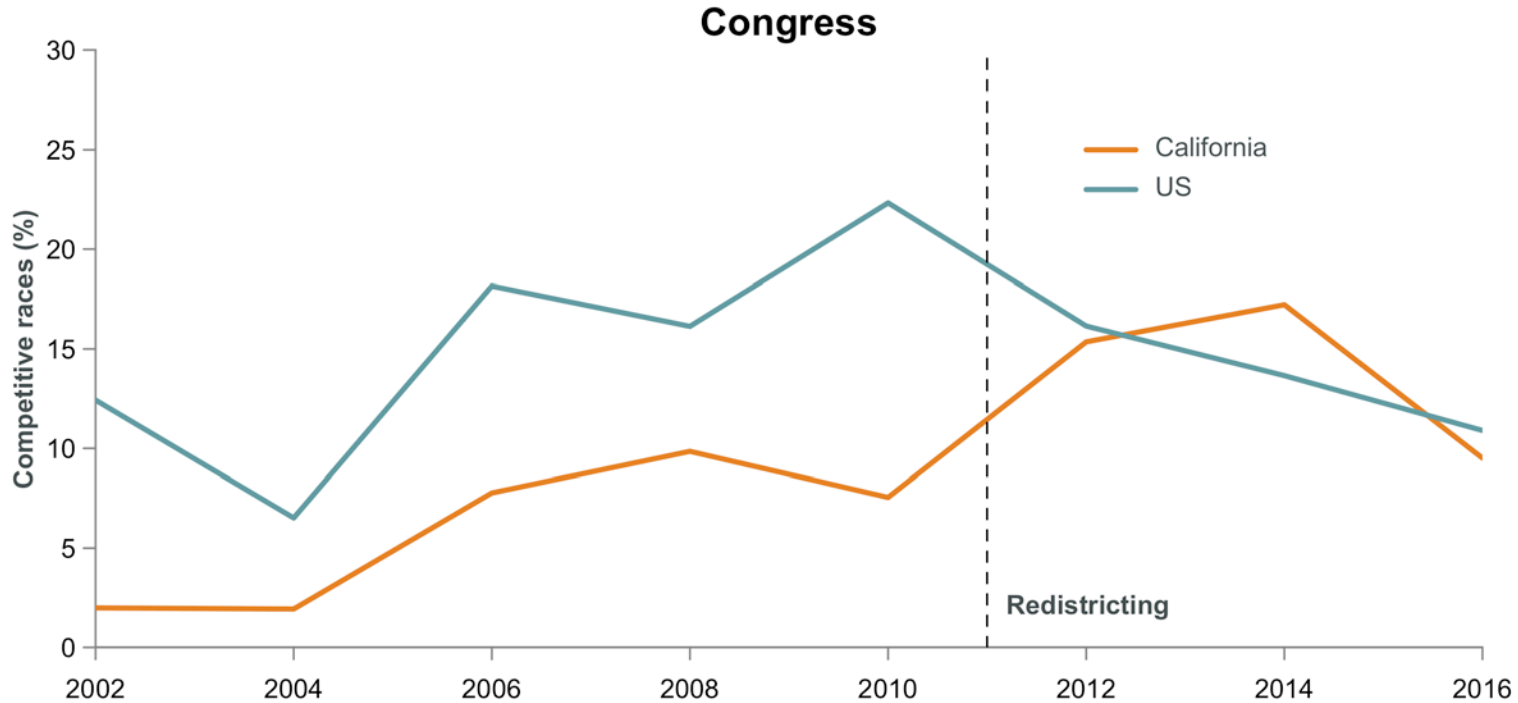
Competition: CRC assembly districts are consistently more competitive than the districts drawn in 2001



Competition: CRC senate districts are consistently more competitive



Competition: CRC congressional districts are consistently more competitive



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Notes on the use of these slides

These slides were created to accompany a presentation. They do not include full documentation of sources, data samples, methods, and interpretations. To avoid misinterpretations, please contact:

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Thank you for your interest in this work.

