

Exploring California's Economic Outlook & Trends for 2022

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A Partnership that matters



Your Presenters



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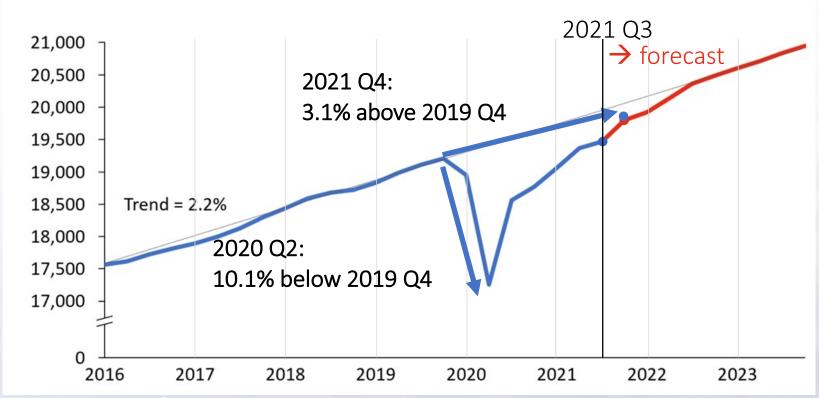
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Overview

- UCLA Anderson/ Avenu Partnership
- The U.S. economy and forecast (brief)
- The California economy
 - Labor markets
 - Real estate
 - Income and spending
- Economic forecast for California

U.S. real GDP is back above pre-pandemic levels

Real GDP Levels, Annual Rates, Billions of Chained 2012\$

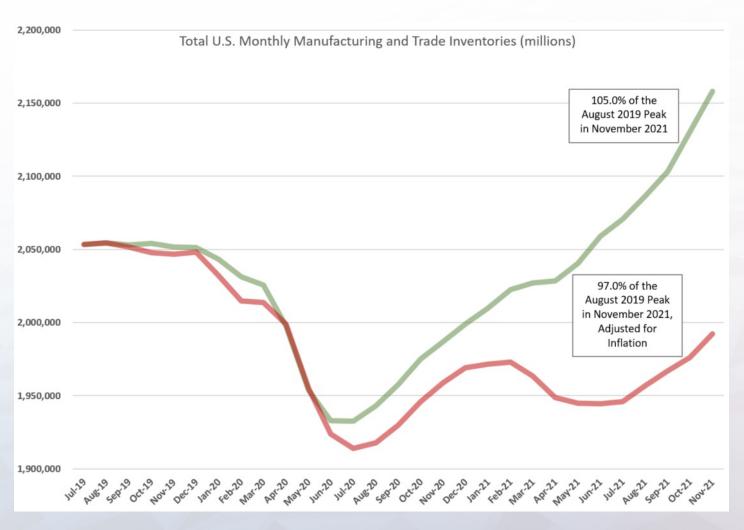


Possible changes to the forecast:

- Dec. 2021 vintage, before omicron - (2021 Q4 came in just above our forecast)
- Delay recovery in services consumption, return to work, tourism
- Depends on how consumers and government react to variants, duration of disruptions

Source: U.S. Bureau of Economic Analysis and UCLA Anderson Forecas

Do U.S. Manufacturing and Trade Inventories reflect the pattern of Real G.D.P?



What exactly is inflation?

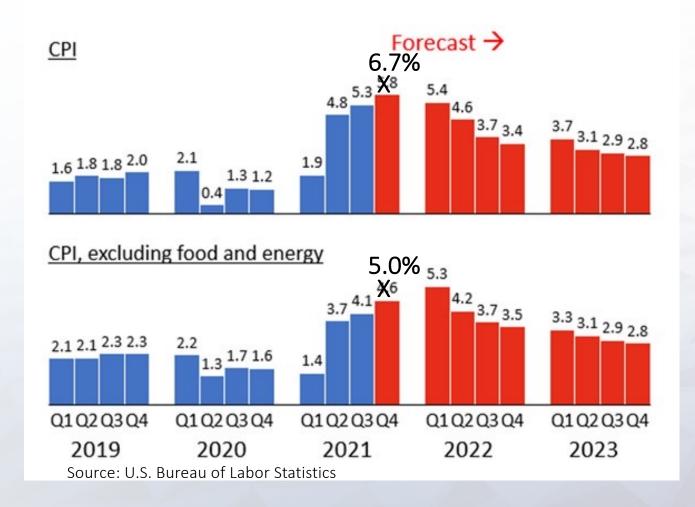
- > It is the drop in the purchasing power
- > It manifests itself as a rise in all prices and wages—not just some subset of prices.
- ➤ The U.S. Federal Reserve uses monetary tools to control inflation.
- Monetary tools include the fed funds rate, open market operations, the discount rate and the management of people's inflation expectations.
- Monetary Inflation does not significantly impact growth rates in Sales Tax Revenue because it affects both prices and wages, as well as income and expenditures equally.

Sources:

Rising Relative Prices or Inflation: Why Knowing the Difference Matters https://www.clevelandfed.org
How the Federal Reserve Controls Inflation
https://www.thebalance.com/what-is-being-done-to-control-inflation-3306095

Inflation remains elevated

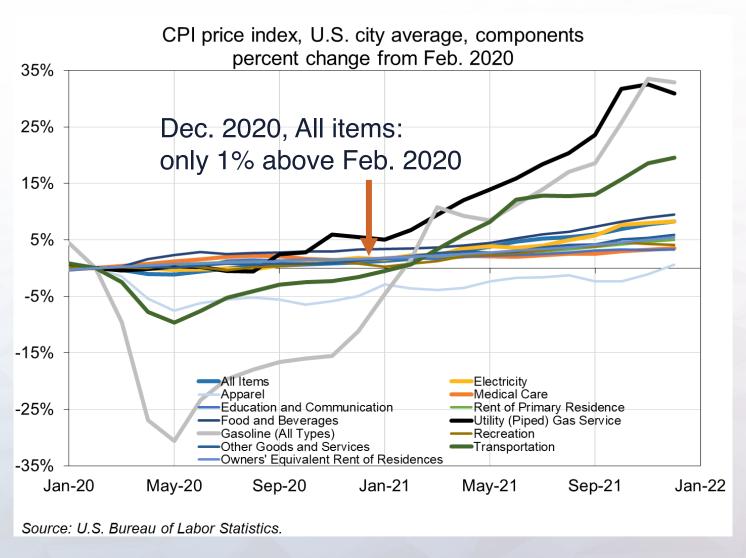
CPI Year-Over-Year Inflation



Possible changes to the forecast:

- Dec. 2021 vintage, before omicron
- Undershoot in 2021 Q4
- Potential inflationary pressures: labor costs, housing, high demand and constrained supply, variants and zero-tolerance trading partners, continued demand for goods vs services
- Potential deflationary pressures:
 oil prices already high, home
 price increases slowing,
 production ramping up in auto
 manufacturing

CPI inflation components



Source: U.S. Bureau of Labor Statistics

How do Relative Price Changes impact Taxable Sales?

Example: Gasoline Prices in Palm Desert

Average Price Per Gallon of Gasoline in CA

3/30/2017 \$3.00

12/18/2018 \$3.75 25% increase in price

Benchmark Year Gross Sales Tax Revenue

SERVICE STATIONS 2017Q1 \$501,539

SERVICE STATIONS 2018Q4 \$738,029 +47% or roughly 23% per year

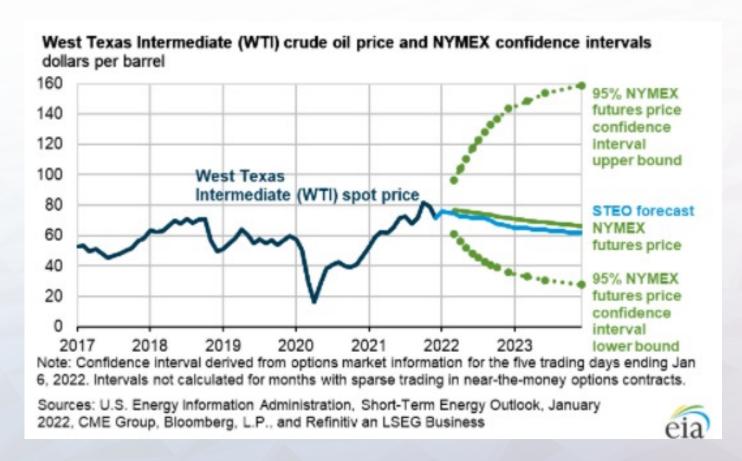
TOTAL GROSS TAX 2017Q1 \$16,569,185

TOTAL GROSS TAX 2018Q4 \$17,778,792 +7% or roughly 3.5% per year

- Analysis of the prices of taxable goods must be made under "the umbrella of income".
- Gasoline prices increased along with demand, (Vehicle Miles Travelled), but income did not increase as rapidly. Consumers, businesses, organizations and governments spent less on other taxable purchases.
- Many Relative Price Increases in recent years in CA have been in Housing and Healthcare. This has created a counterintuitive downward pressure on the disposable income remaining for taxable purchases.

How do Oil prices indirectly impact Taxable Sales?

- Most sales tax is levied against tangible personal property that must be shipped by some combination of ships, planes, trains and vehicles. Shipping costs are often embedded in the prices that consumers pay.
- Oil Prices are expected to decline in 2022 and 2023.



Statewide taxable sales are already back to pre-pandemic trend

If stable average growth had been maintained							
Fiscal Year	14 - 15	15 - 16	16 - 17	17 - 18	18 - 19	19 - 20	20 - 21
Projected	\$633.4	\$658.7	\$685.1	\$712.5	\$741.0	\$770.6	\$801.5
Change	4.3%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%
		Actual	Taxable S	ales - Cas	h Basis		
Fiscal Year	14 - 15					19 - 20	20 - 21
	and the state of the state of	15 - 16		17 - 18	18 - 19	Programme and the second secon	THE STREET STREET STREET
	and the state of the state of	15 - 16	16 - 17	17 - 18	18 - 19	The state of the s	THE STREET STREET STREET
Actual	\$633.4 4.3%	15 - 16 \$650.0 2.6%	16 - 17 \$668.3 2.8%	17 - 18 \$661.5	18 - 19 \$767.9 16.1%	\$715.2	\$805.6

Not all Economic Segments have recovered equally.

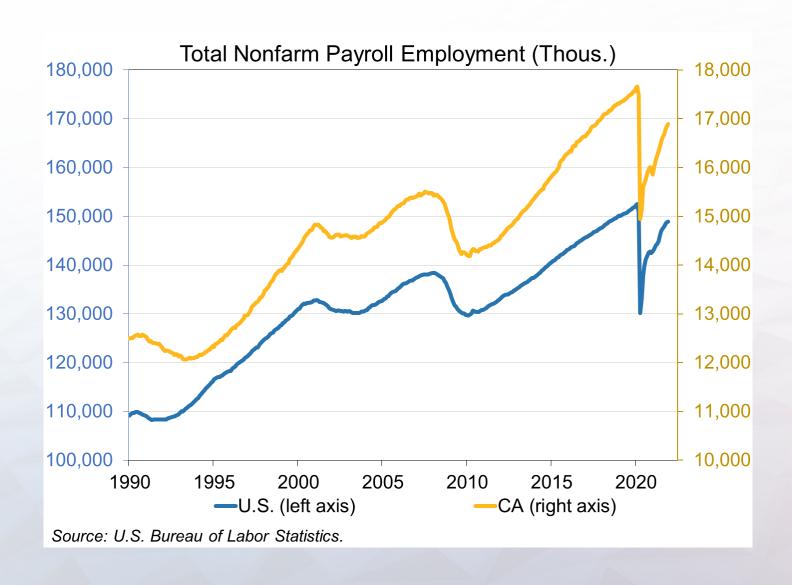
ECONOMIC SEGMENT	FY 18-19 (PRE-COVID)	FY 18-19 % of Total	5 Yr Avg Annual Growth	BMY 2021Q3 Projected Avg Growth	Actual BMY 2021Q3	% Recovered to Trend
COUNTY POOLS	933,114,462	16.4%	9.6%	1,147,772,950	1,363,749,919	118.8%
RESTAURANTS	745,391,568	13.1%	5.9%	848,272,632	599,424,017	70.7%
AUTO SALES - NEW	518,195,882	9.1%	4.6%	573,486,520	577,263,365	100.7%
DEPARTMENT STORES	402,861,472	7.1%	0.3%	405,586,228	399,451,721	98.5%
SERVICE STATIONS	352,504,931	6.2%	-2.0%	336,853,007	289,806,196	86.0%
MISCELLANEOUS RETAIL	333,375,524	5.9%	3.4%	359,460,101	410,087,772	114.1%
BLDG.MATLS-WHSLE	262,005,315	4.6%	7.4%	307,807,854	285,965,098	92.9%
APPAREL STORES	242,602,775	4.3%	1.8%	252,546,446	214,841,589	85.1%
FOOD MARKETS	210,349,891	3.7%	2.3%	221,403,051	219,000,254	98.9%
BLDG.MATLS-RETAIL	183,324,862	3.2%	2.9%	195,519,191	213,492,882	109.2%
FURNITURE/APPLIANCE	167,404,666	2.9%	2.7%	177,758,380	173,672,937	97.7%
OFFICE EQUIPMENT	159,665,765	2.8%	0.0%	159,665,765	163,613,151	102.5%
LIGHT INDUSTRY	154,144,379	2.7%	2.9%	164,397,692	155,632,385	94.7%
HEAVY INDUSTRY	145,571,710	2.6%	4.4%	160,409,150	148,284,187	92.4%
LEASING	143,603,067	2.5%	9.3%	175,543,920	128,672,357	73.3%
AUTO PARTS/REPAIR	126,658,918	2.2%	2.6%	134,197,454	130,145,374	97.0%
AUTO SALES - USED	74,206,661	1.3%	6.3%	85,171,884	84,080,590	98.7%
ALL OTHER	522,862,142	9.4%	4.1%	572,423,581	548,882,367	95.9%
TOTAL	5,677,843,988	100.0%	4.0%	6,278,275,803	6,106,066,160	97.3%

Dominated by

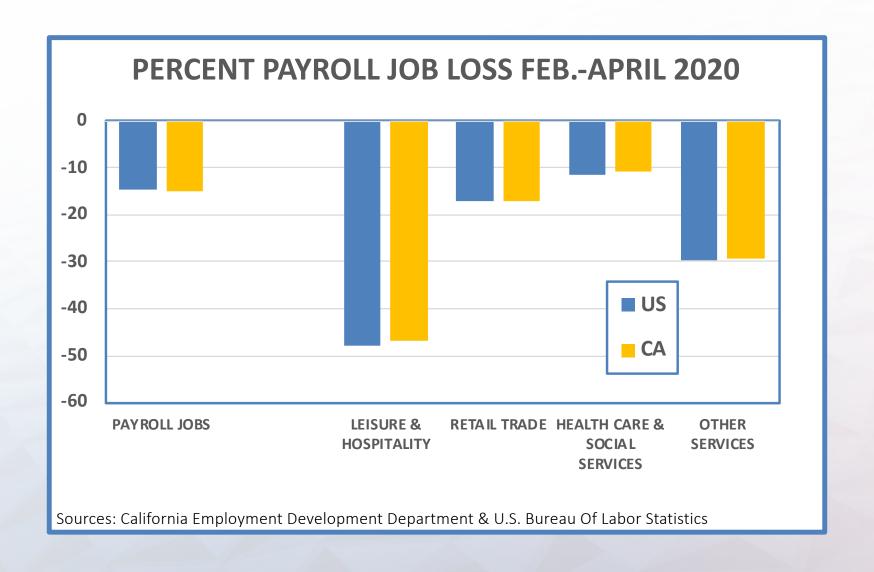
E-Commerce

Data covers 86% of California by population.

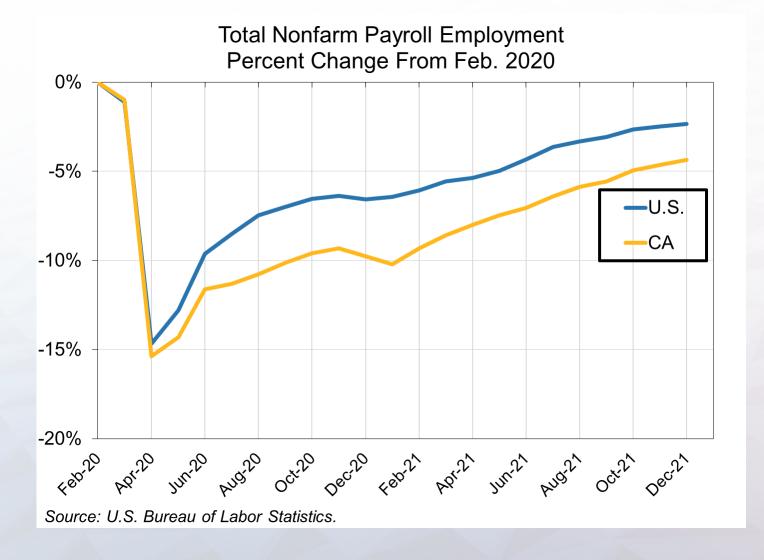
California labor markets move with U.S. labor markets



Similar losses in the 2020 recession ...



... but a slower initial recovery

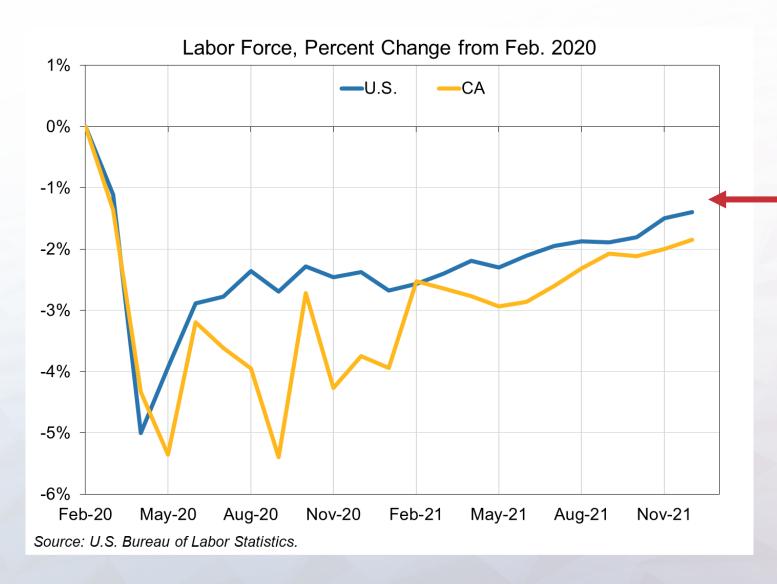


Forecast:

Payroll jobs return to Feb. 2020 levels

early 2023 (U.S.) Mid/late 2023 (CA)

Some explanations: 1) smaller labor force

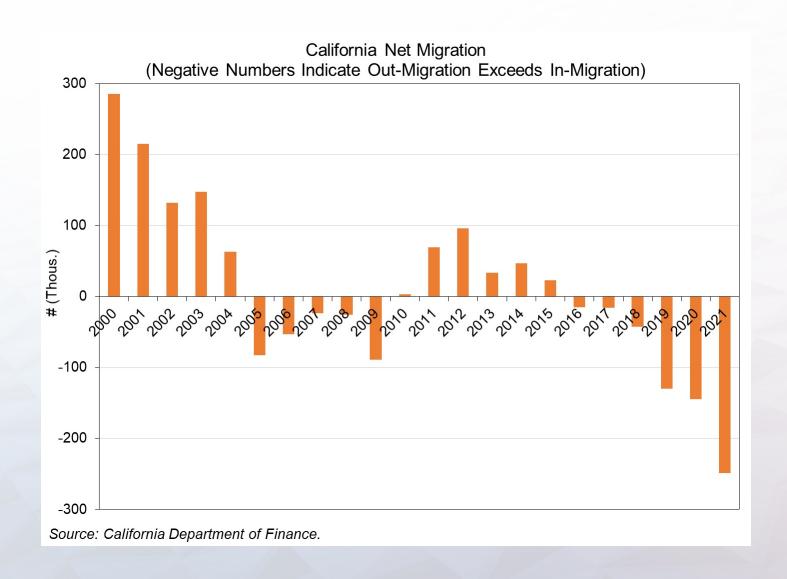


(Feb. 2020 vs Dec. 2021):

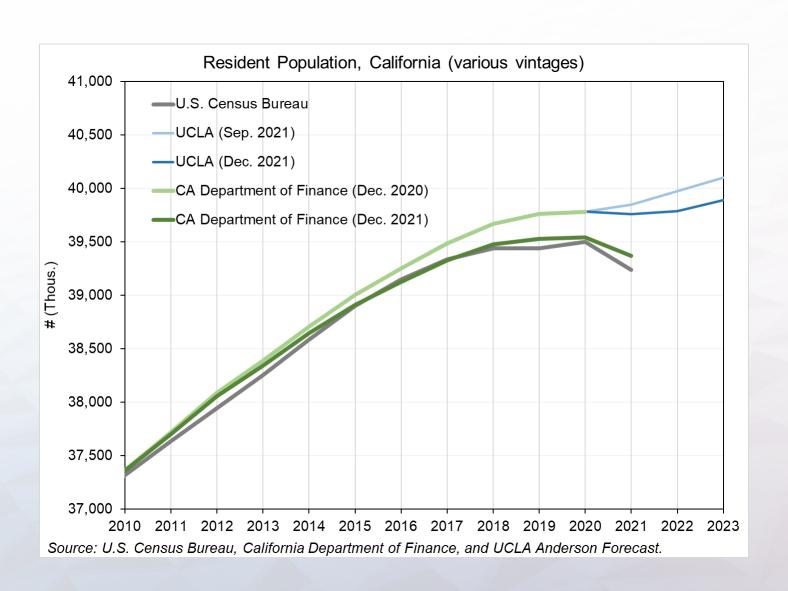
U.S.: 2.3 million fewer people in the labor force

CA: 358K fewer people in the labor force

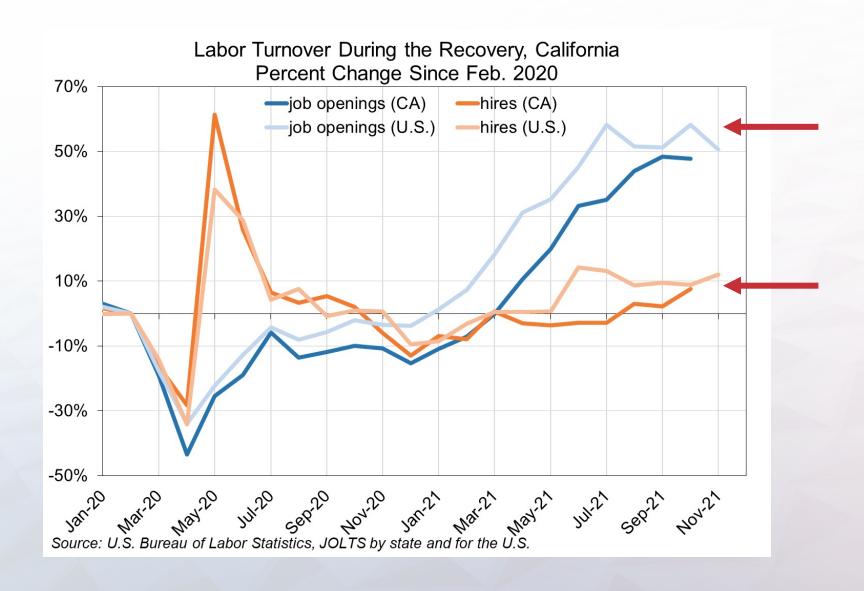
2) fewer people



Changes in population estimates



3) supply and demand mismatch



How does Employment relate to Taxable Sales?

In many large urban jurisdictions, there is a strong correlation between employment and per capita sales tax. Correlation Coefficients (-1 to 1):

San Diego	0.938	Very Strong Correlation
Fresno	0.935	Very Strong Correlation
Los Angeles	0.894	Very Strong Correlation
San Francisco	0.757	Strong Correlation
San Jose	0.720	Strong Correlation

In many smaller rural jurisdictions, the correlation between employment and per capita sales tax is very weak. Correlation Coefficients (-1 to 1):

Sausalito	-0.027	Very Weak Correlation
Bishop	-0.026	Very Weak Correlation
Rio Vista	-0.018	Very Weak Correlation
Vernon	0.224	Very Weak Correlation
Willits	0.652	Moderate Correlation

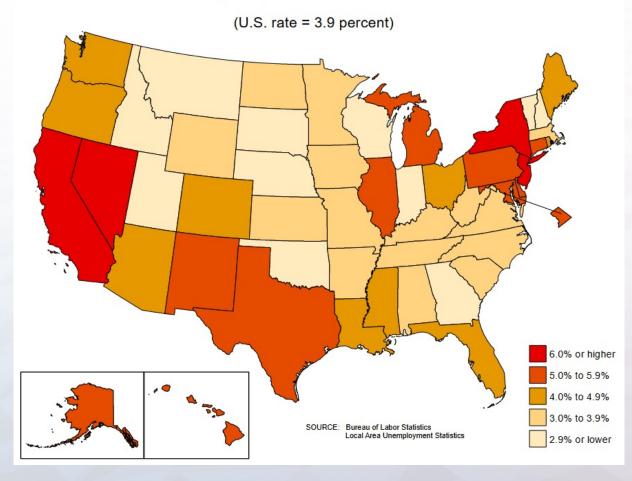


Key to Sales Tax Growth

Example: Roseville								
Change in Population	2.3%	2.1%	1.9%	2.4%	2.7%	6.3%	4.5%	
Change in Annual Taxable Sales - Cash Basis (Includes Pools)	1.8%	3.4%	1.5%	5.9%	-3.9%	-2.4%	-0.1%	
Gap	-0.5%	1.3%	-0.4%	3.5%	-6.6%	-0.5%	1.0%	
Correlation Coefficient	-0.475							
	2016	2017	2018	2019	2020	5-Year Average	Pre- Pandemic Avg	
Change in Annual Per Capita Disposable Income (EBI)	6.9%	-0.4%	10.7%	-0.1%	11.8%	6.3%	4.5%	
Change in Annual Per Capita Local Taxable Sales - Economic Basis	-2.2%	2.5%	-0.3%	-0.1%	-11.8%	-2.4%	-0.1%	
Gap	-9.1%	2.9%	-11.0%	0.0%	-23.6%	-8.2%	-4.3%	
Correlation Coefficient	-0.701	701 strong negative correlation						
Capture: Income from commuters, visitors and tourists used to make taxable purchases.	2016	2017	2018	2019	2020	5-Year Average	Pre- Pandemic Avg	
Change in Per Capita Income + Capture	1.5%	4.2%	3.7%	9.2%	-1.5%	3.4%	4.7%	
Change in Annual Taxable Sales - Cash Basis (Includes Pools)	1.8%	3.4%	1.5%	5.9%	-3.9%	1.7%	3.2%	
Gap	0.3%	-0.8%	-2.2%	-3.3%	-2.4%	-1.7%	-1.5%	
Correlation Coefficient	0.932	2 almost perfect postive correlation						

California unemployment rate higher than others

Unemployment rates by state, seasonally adjusted, December 2021



Source: U.S. Bureau of Labor Statistics (https://www.bls.gov/web/laus/mstrtcr2.pdf)

Unemployment rates by county

Dec. 2020

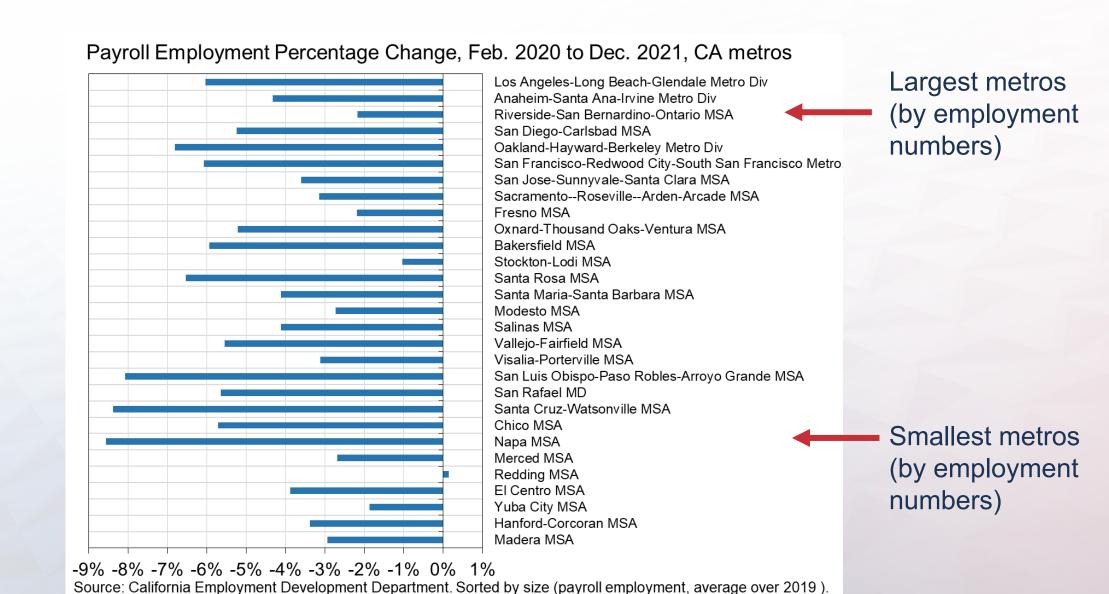


Dec. 2021

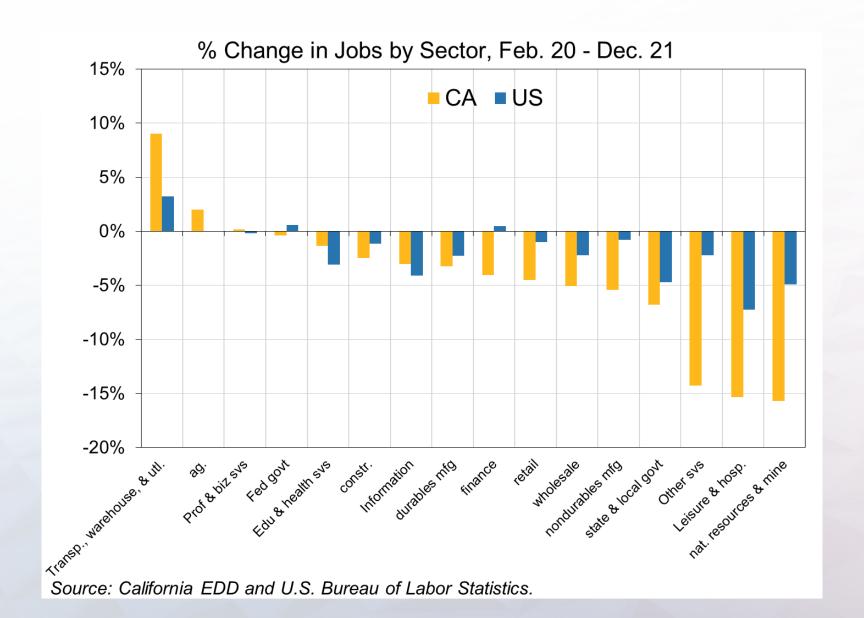


Source: California Employment Development Department. Data not seasonally adjusted

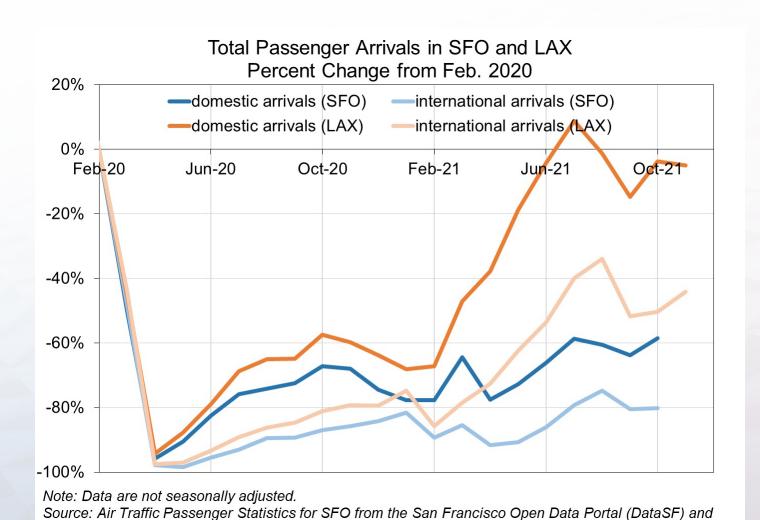
Nonfarm payroll employment (jobs) recovery by metro



Job losses concentrated in a few sectors

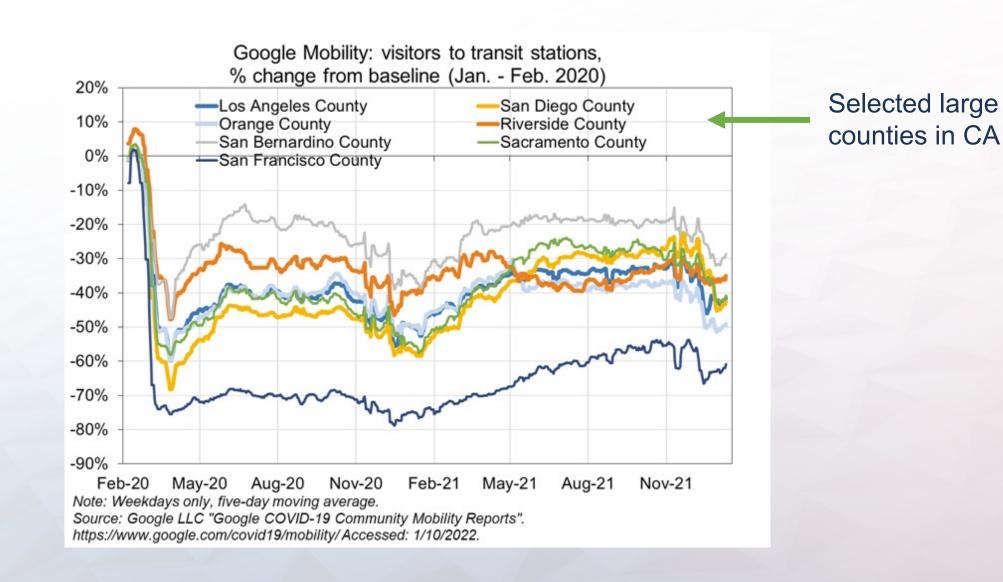


Air passenger arrivals indicate tourism still lags

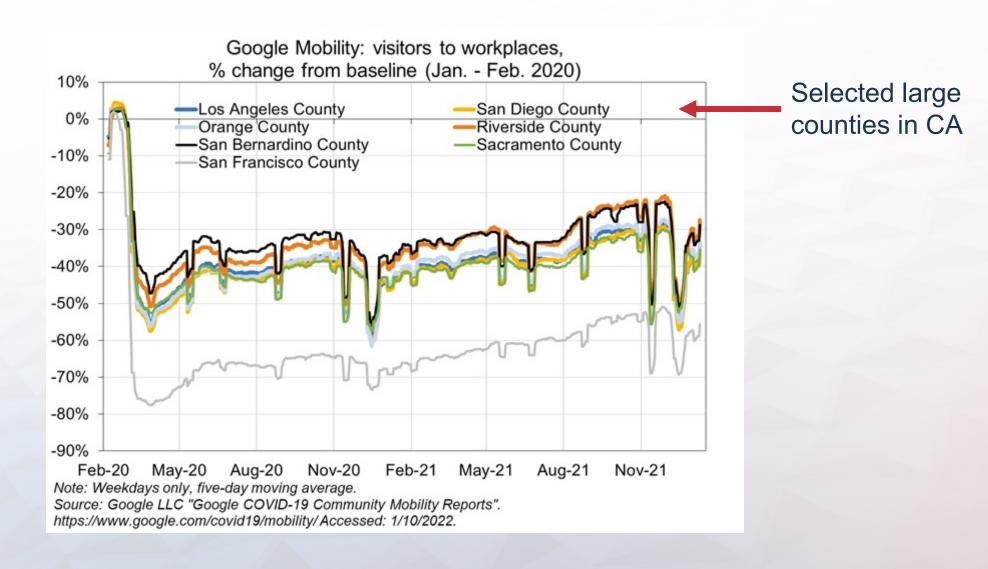


Los Angeles International Airport - Passenger Traffic By Terminal from LAWA OpenData.

Normal commute patterns have not returned



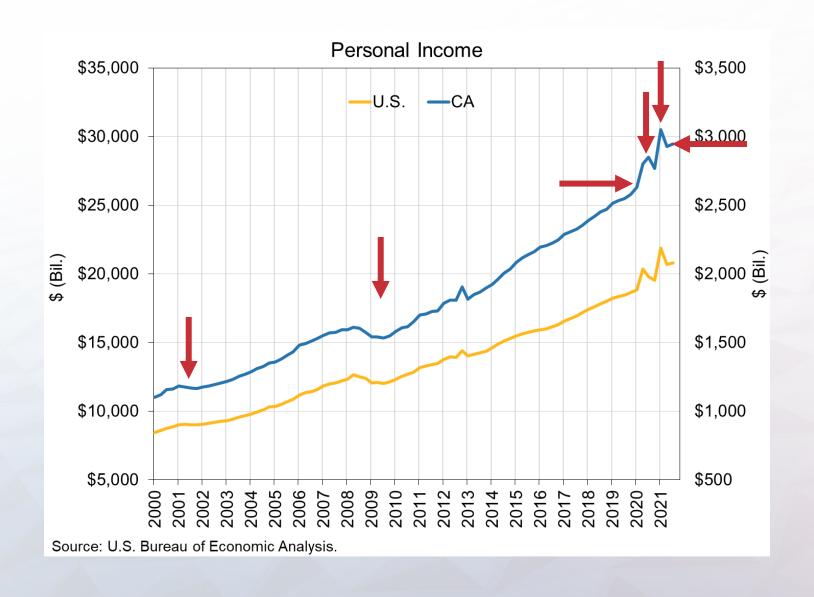
Fewer workers are going to their offices



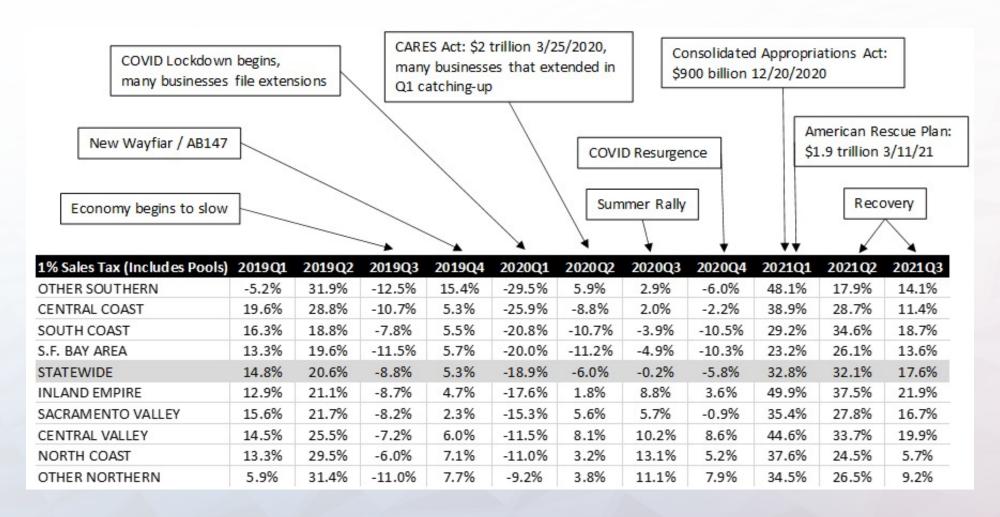
Fewer people are dining out



Gains in personal income



What should we keep in mind about where we are?



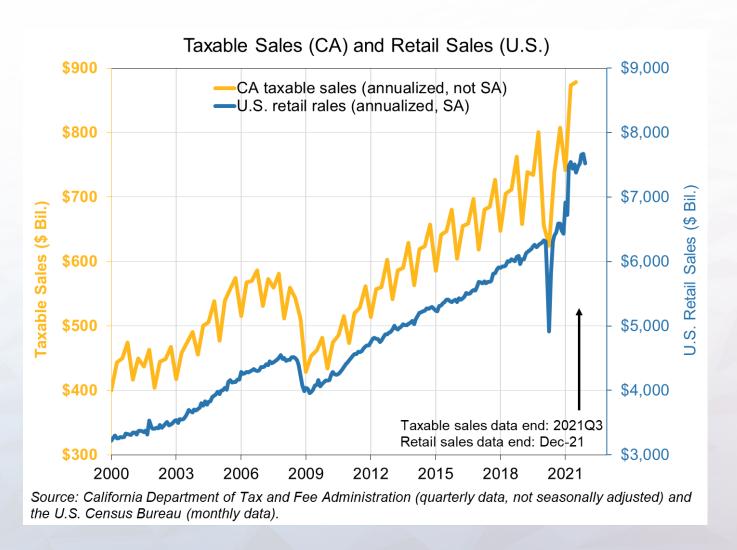
Source:

Have U.S. consumers spent all that cash?





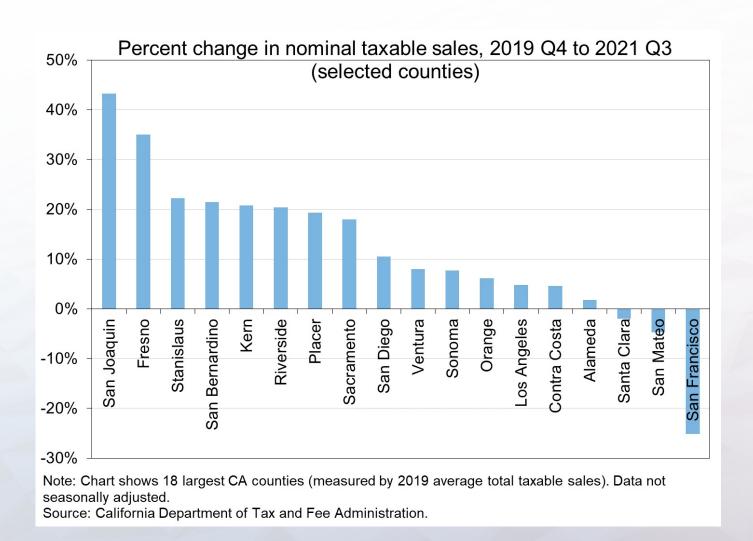
Strong growth in taxable sales after mid-2020



Forecast:

CA taxable sales annual growth: 2021: 9.8%

Taxable sales in most counties above 2019 Q4 levels



What are Relative Price Changes?

- > They are not monetary like inflation.
- They are driven by supply and demand.
- Unlike in inflation, they convey important information useful for making decisions about consumption, production and labor.
- Inflation provides no such useful information. It can distort important relative price signals, leading people to make less than optimal economic choices.
- Relative Price Changes have a great impact on Sales Tax Revenues.

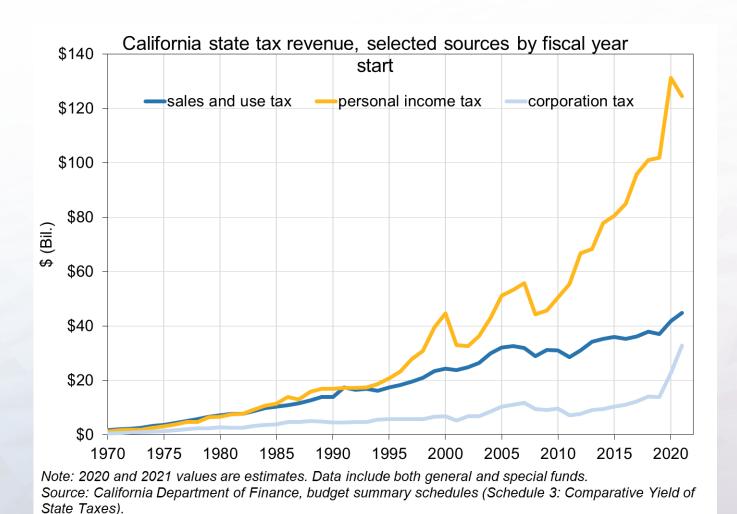
Common Drivers of Growth in Taxable Sales

➤ For all Taxable Sales Growth:

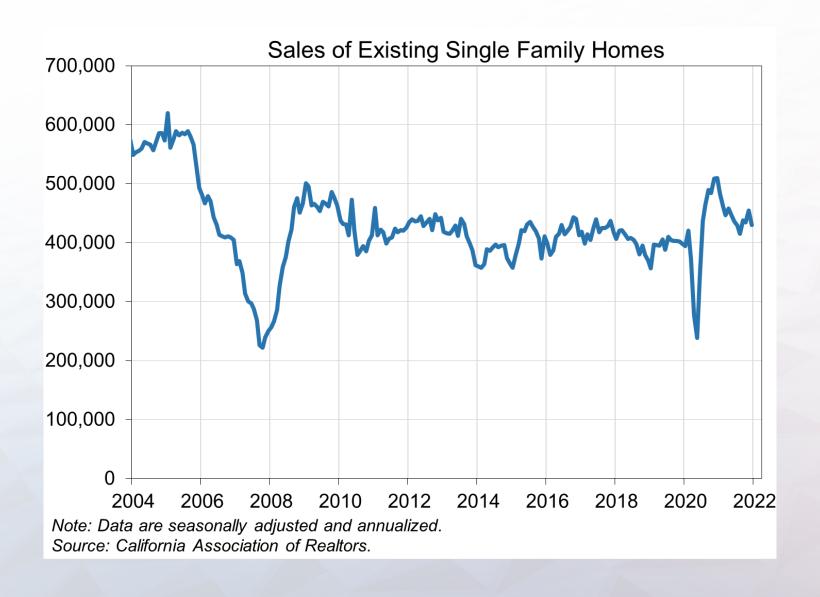
Employment
Number and types of new businesses
Tourism and Visitors
Relative Price Changes
Changes in Population

- For Consumer-Driven Taxable Sales Growth (74% of statewide):
 Disposable Income
 Personal Consumption Expenditures (PCE)
- For Business-Driven Taxable Sales Growth (22% of statewide): G.D.P.
- For Government-Driven Taxable Sales Growth: State and local budgets
- ➤ For Non-Profit-Driven Taxable Sales Growth: Healthcare and other industry analysis

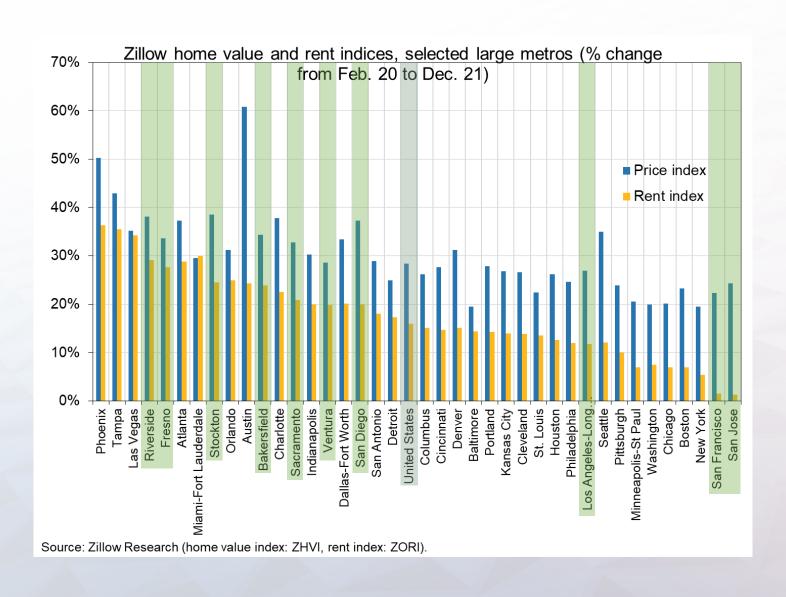
How long will strong revenue collections last?



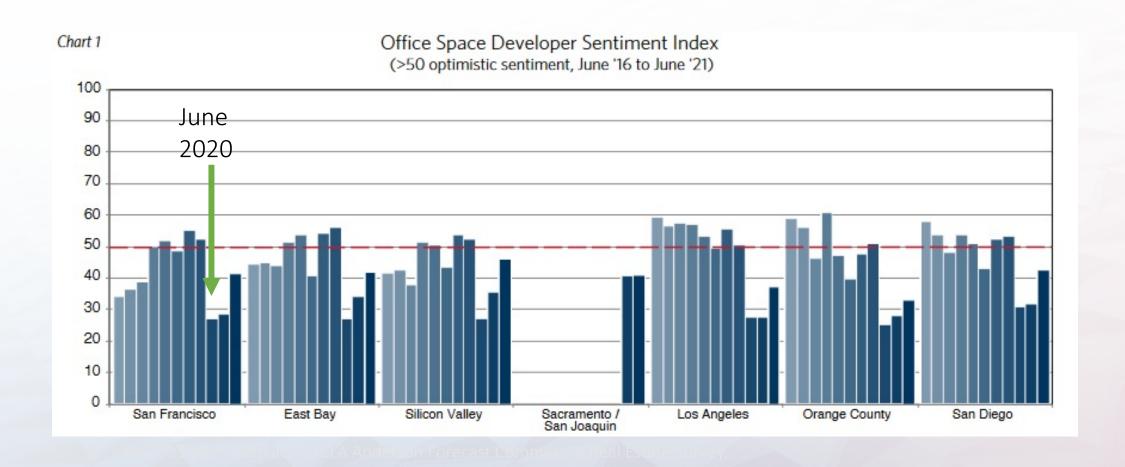
More sales across the state



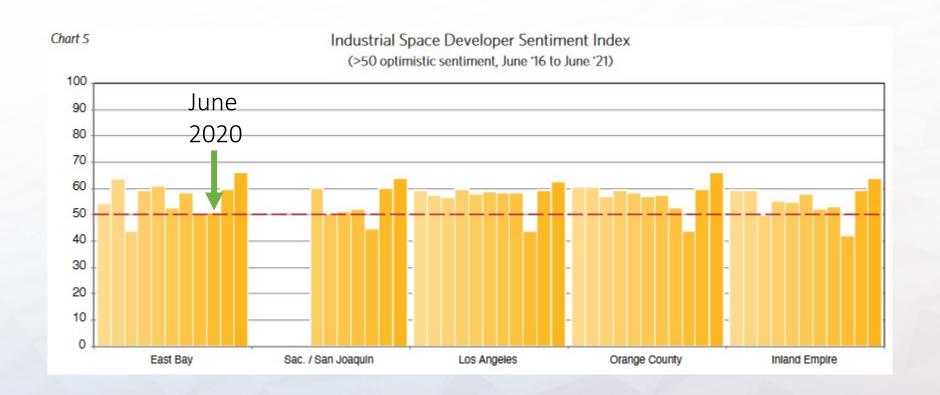
Rents generally up, less so in some larger metros



Commercial real estate: sentiments differ by sector



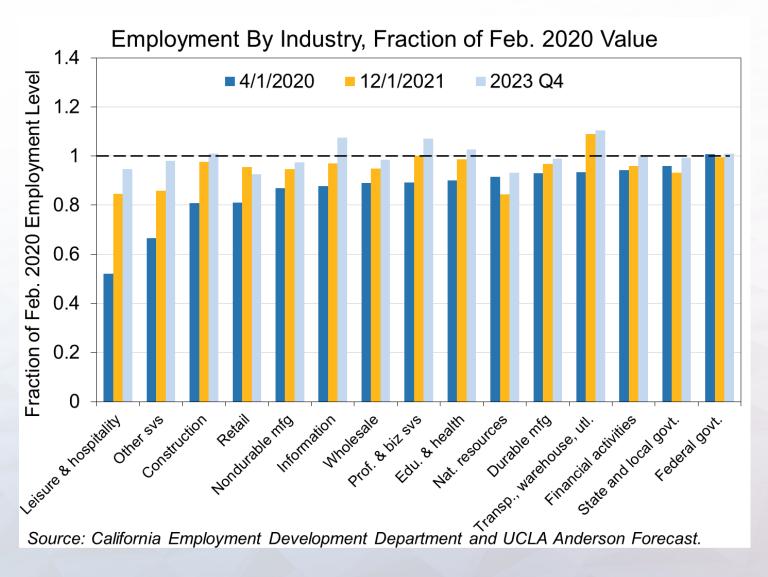
Commercial real estate: sentiments differ by sector



California forecast key indicators (Dec. 2021)

	2021	2022	2023
Payroll jobs (ann. % chg.)	1.9%	4.7%	2.5%
Unemployment rate (ann. avg.)	7.7%	5.6%	4.4%
Personal income (ann. % chg.)	6.7%	1.9%	5.8%
CPI inflation (ann. % chg.)	4.0%	4.1%	2.9%
Taxable sales (ann. % chg.)	9.8%	3.9%	3.3%
Auto registrations (mil.)	-0.44% (July to July)		1.6
Population (ann. % chg.)	-0.03%	0.05%	0.23%

California forecast key indicators: sector employment



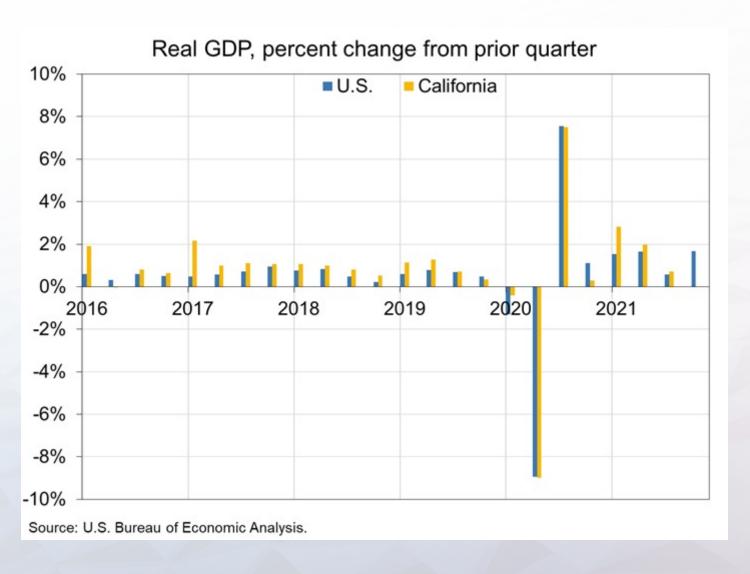
Summary

- The California economic recovery continues
- Areas of economic strength support government revenue:
 - Personal income
 - Taxable sales
 - Residential real estate
- Issues to watch:
 - Labor supply (labor force exits, migration)
 - Inflation





U.S. vs California GDP

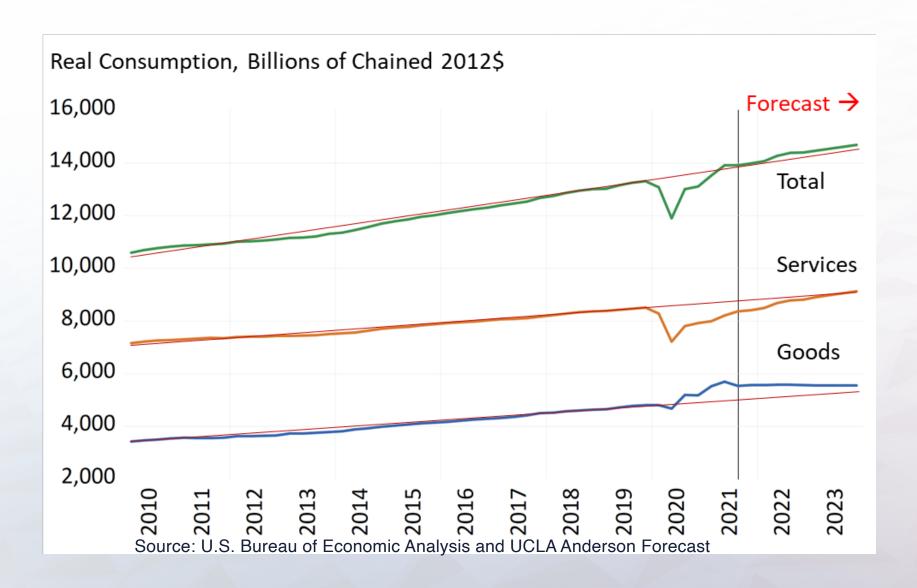


As of 2021 Q3:

U.S. real GDP 1.4% above 2019 Q4 level

CA real GDP 3.2% above 2019 Q4 level

Goods vs services: changes in consumption patterns



2021 Q4 actuals:

Total: below

forecast

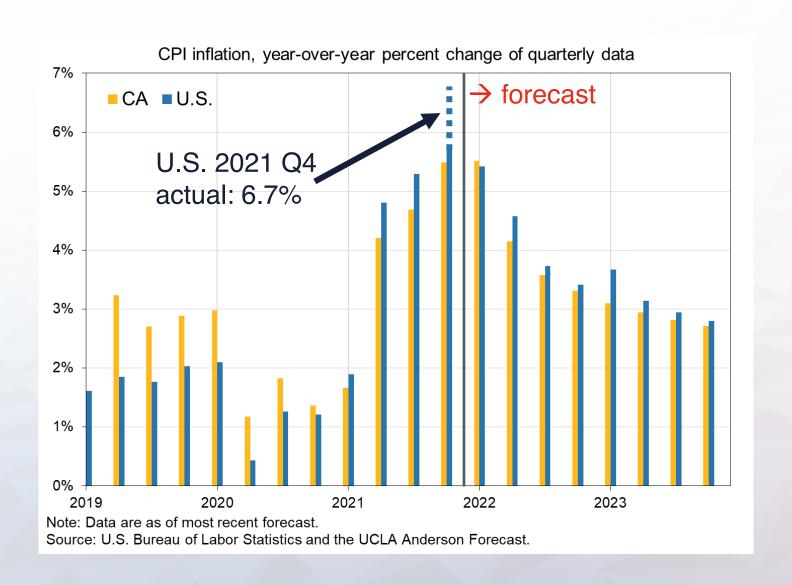
Services: above

forecast

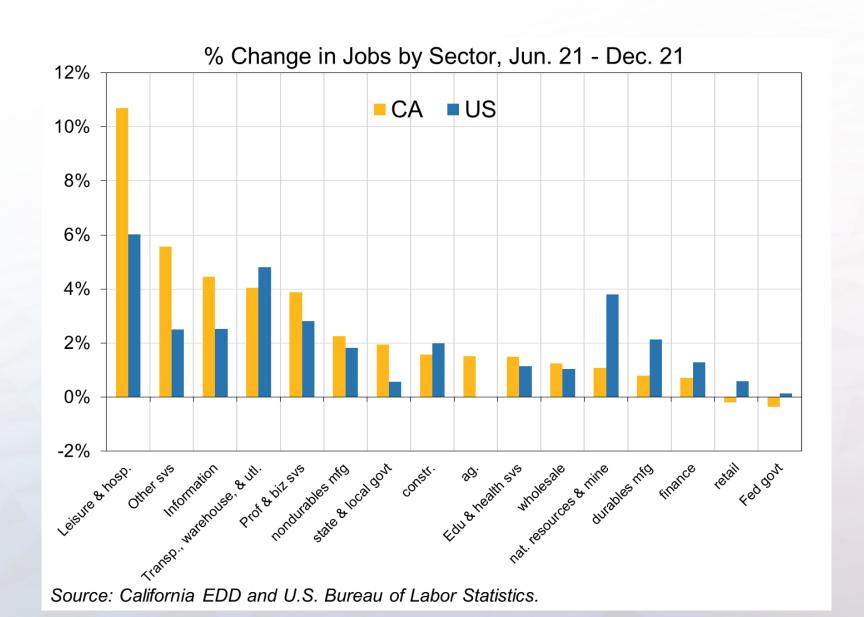
Goods: below

forecast

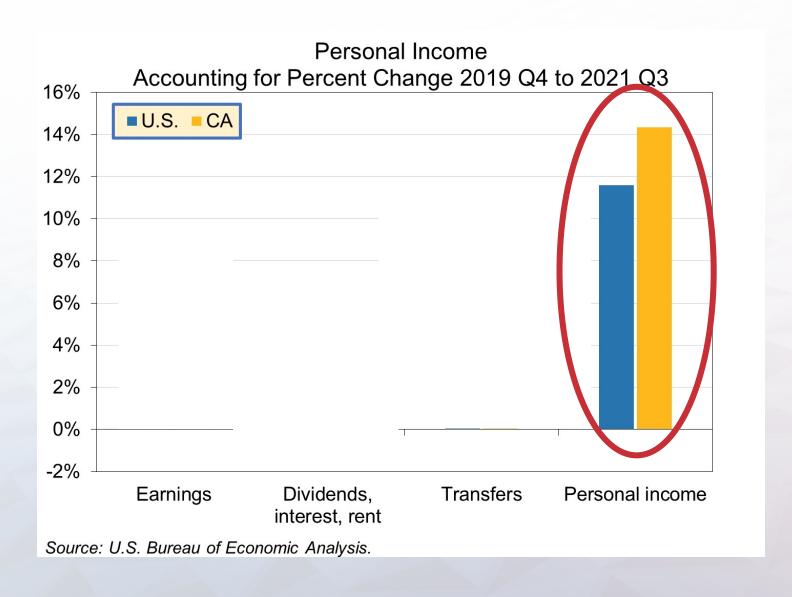
U.S. and California inflation forecasts



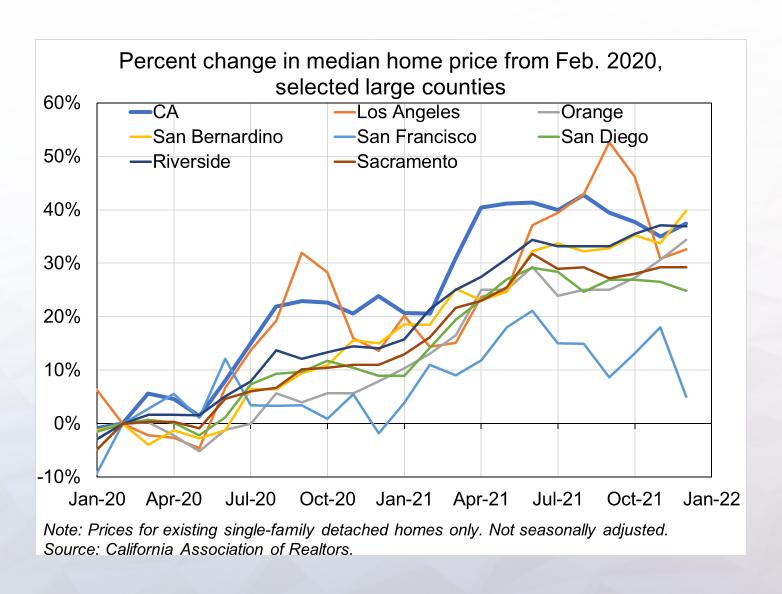
Recent job gains concentrated in hardest hit sectors



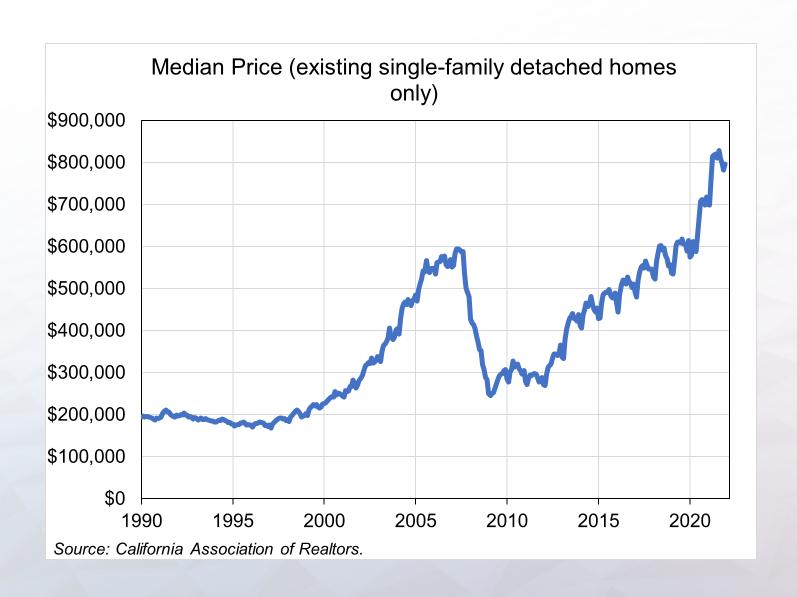
Gains in personal income – several sources



Higher prices across the state



Residential real estate: prices up sharply since 2020



California forecast key indicators

