Mid Year Real Estate Review With Paul Brewbaker



















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Residential, commercial & development 80% & 90% commission structures

Local Knowledge - International reach











Howard Hughes.



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Mid Year Real Estate Review With Paul Brewbaker

10 Year Anniversary 2009-2018



Patrick W ONeill R PB MIRM



LUXURY HOMES INTERNATIONAL

Principal Broker Owner, Luxury Homes International President, Hawaii International Real Estate Council

2009



- Lehman Brokers collapsed 10 months earlier
- •US unemployment peaked at 10%
- •HI unemployment rate hit 7.3



2009 – 2018 Median price

Sing	le f	amil	Y	Condo)
					_

2009 \$575,000 \$302,000

2018 \$790,000 \$430,000

37.4% 42.4%



2009 – 2017 Sales Volume

Singl	e family	Condo	C
			_

2009 2,585 6,052

2017 3,908 9,732

51.2% 60.1%



Median Prices – Single Family Home Oahu

\$149,000

Peak	2018	\$790,000
Trough	2009	\$575,000
Peak	2007	\$643,500
Trough	1999	\$290,000
Peak	1990	\$352,000

1984

Trough



Median Prices – Single Family Home Oahu

Peak	2018	\$790,000	9 Years
Trough	2009	\$575,000	
Peak	2007	\$643,500	8 Years
Trough	1999	\$290,000	
Peak	1990	\$352,000	6 Years
Trough	1984	\$149,000	



Median Prices – Single Family Home Oahu

Peak Trough	20182009	\$790,000 \$575,000	9 Years	. 37%
Peak Trough	2007 1999	\$643,500 \$290,000	8 Years	122%
Peak Trough	1990 1984	\$352,000 \$149,000	6 Years	136% LUXURY HOMES

INTERNATIONAL



Paul Brewbaker PhD

- Founder of TZ Economics
- Former Chief Economist for Bank of Hawaii
- Graduate from Stanford University with a PhD from the University of Hawaii



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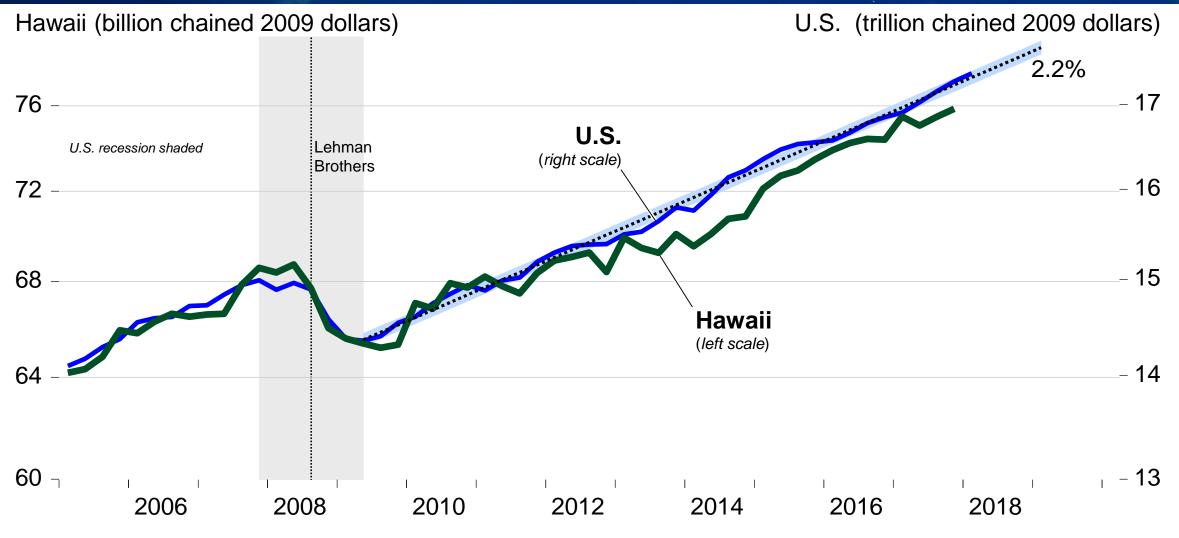




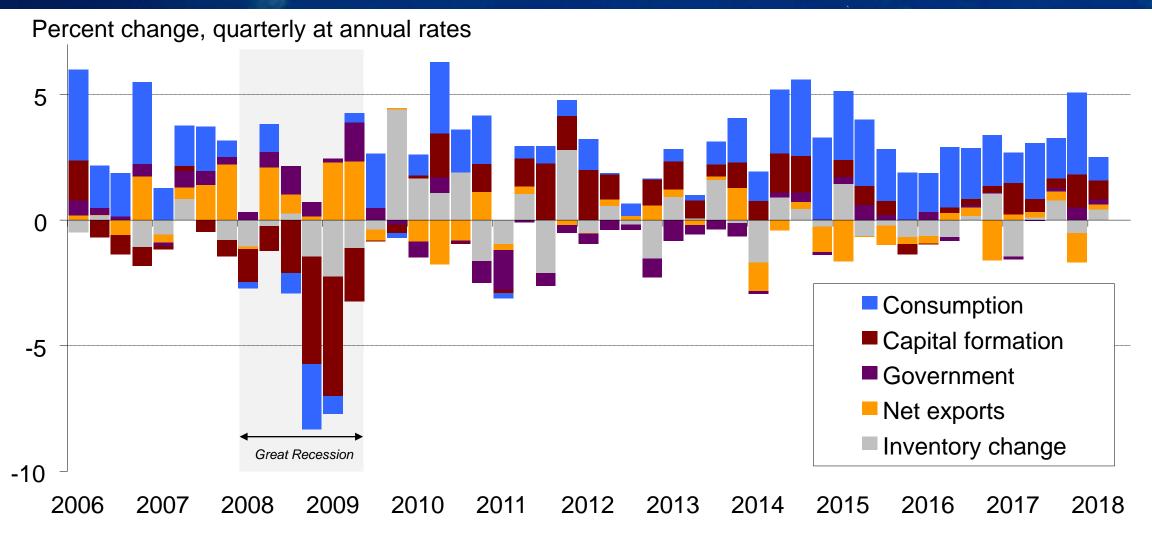
This just in (and not from the President's Twitter feed, Instagram, etc.)

- "The [Federal Reserve Board, Federal Open Market] Committee expects that further gradual increases in the target range for the federal funds rate will be consistent with sustained expansion of economic activity, strong labor market conditions, and inflation near the Committee's symmetric 2 percent objective over the medium term. Risks to the economic outlook appear roughly balanced."
- "In view of realized and expected labor market conditions and inflation, the Committee decided to raise the target range for the federal funds rate to 1-3/4 to 2 percent. The stance of monetary policy remains accommodative, thereby supporting strong labor market conditions and a sustained return to 2 percent inflation."

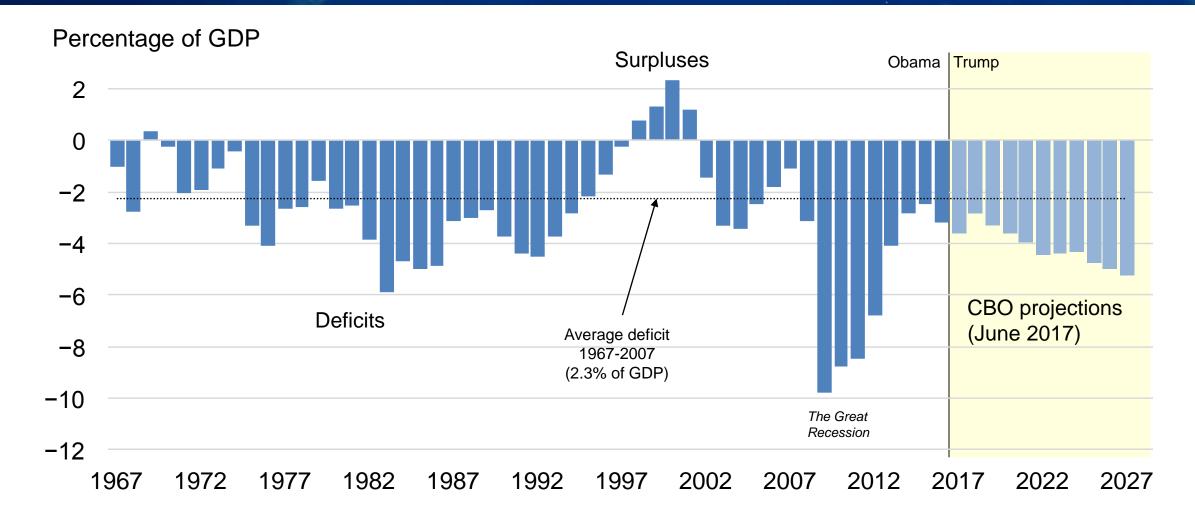
Real GDP during the 2010s expansion has grown at trend rates of 2.17 percent/annum for the U.S., and 1.72 percent/annum for Hawaii



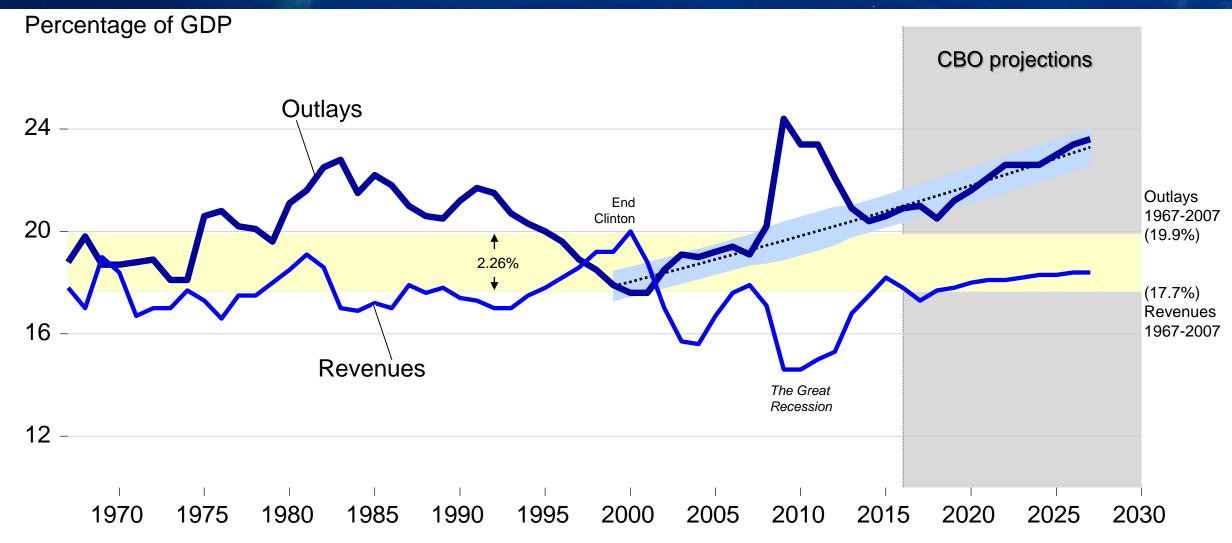
Contributions to U.S. real GDP growth shifted late in this expansion towards consumption, slightly higher fixed investment spending



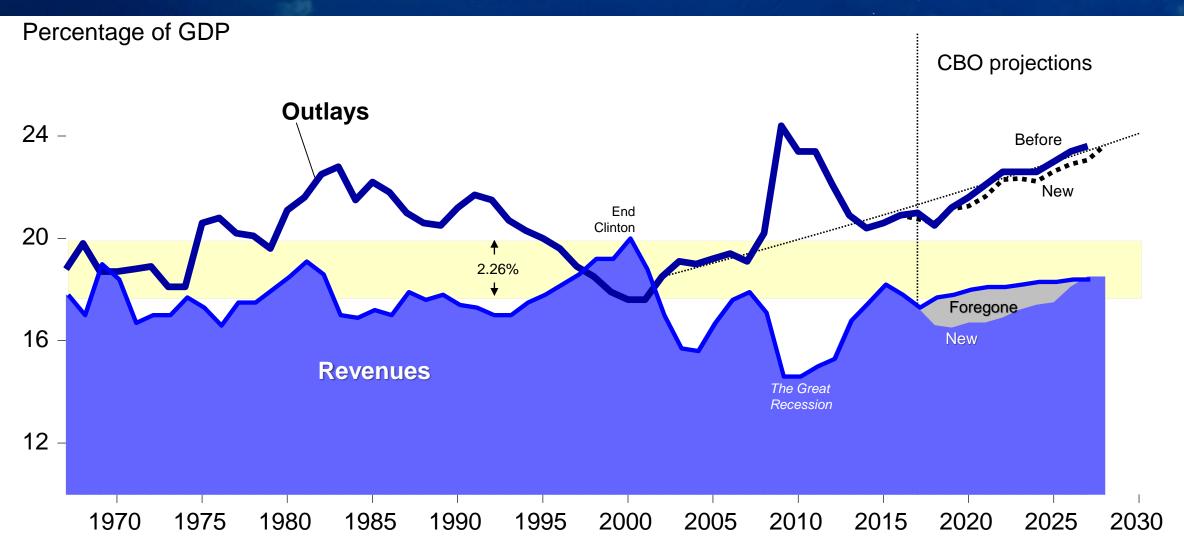
CBO-projected federal government budget deficits 2017-2027 as a percent of GDP *before* the 2017 federal tax cuts were enacted



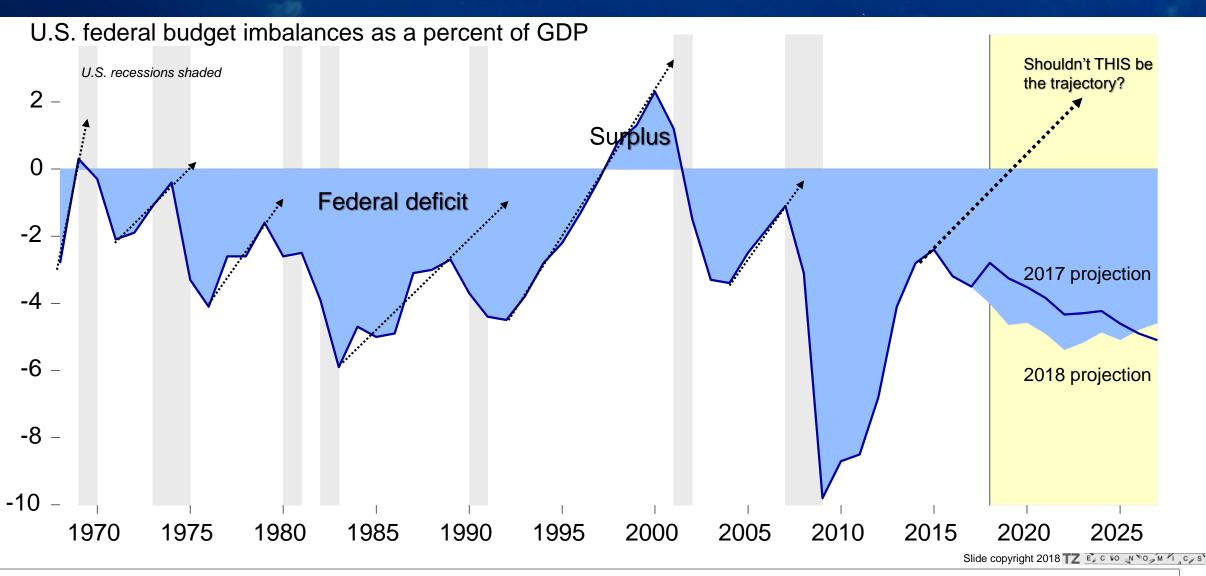
Pre-tax cut federal budget imbalance partly caused by aging, but also an outlay FAIL as percent of GDP (controlling for Great Recession)



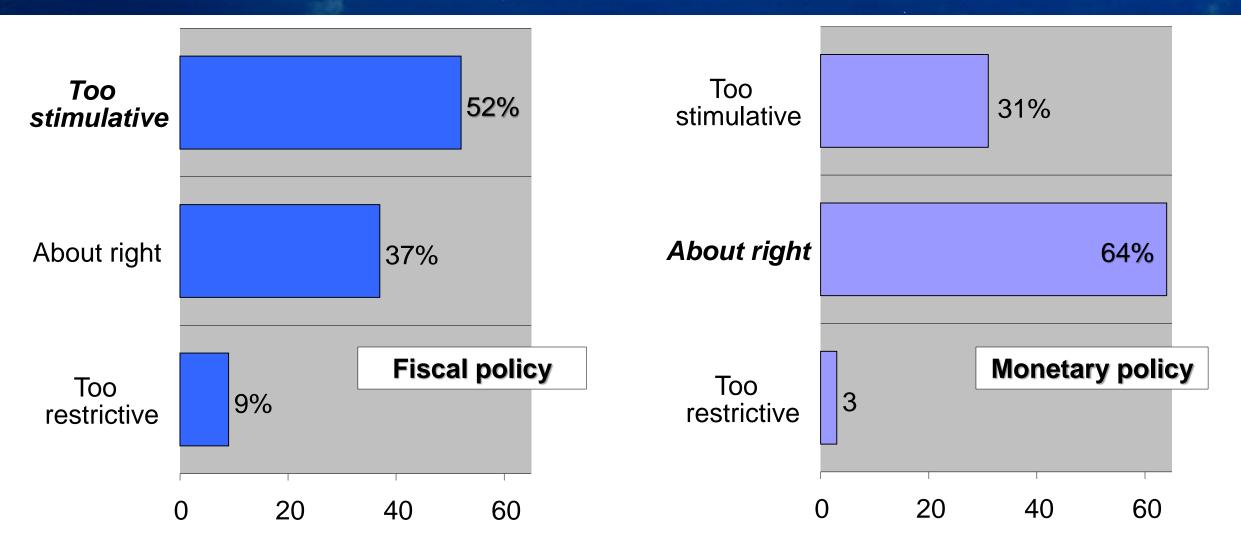
Deficit changes since June 2017: -4.2% of GDP (2018-2022); +2.8% of GDP (2023-2027)



At full employment, with a deficit of 3% of GDP instead of a surplus of 2% of GDP, why increase the deficit to 5% of GDP?



February 2018 National Association for Business Economics Economic Policy Survey results: 211 respondents (1/29 – 2/8)



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Economists' "best ways to reduce the federal deficit/GDP ratio" in the long run (if you had to pick only one)? (February 2014)

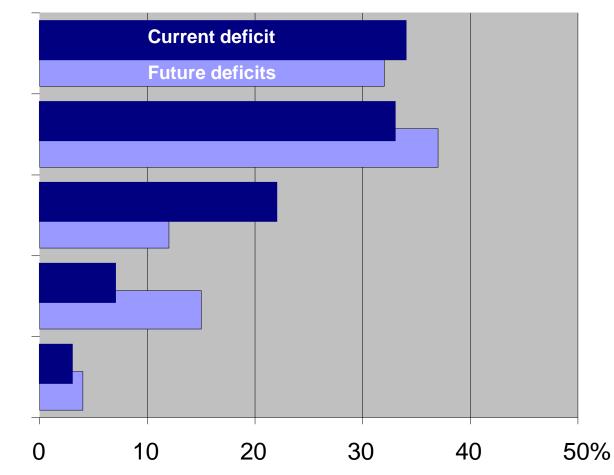
Mix of spending restraint, increased revenues

Structural policies to stimulate growth

Spending restraint

No changes

Increased revenues

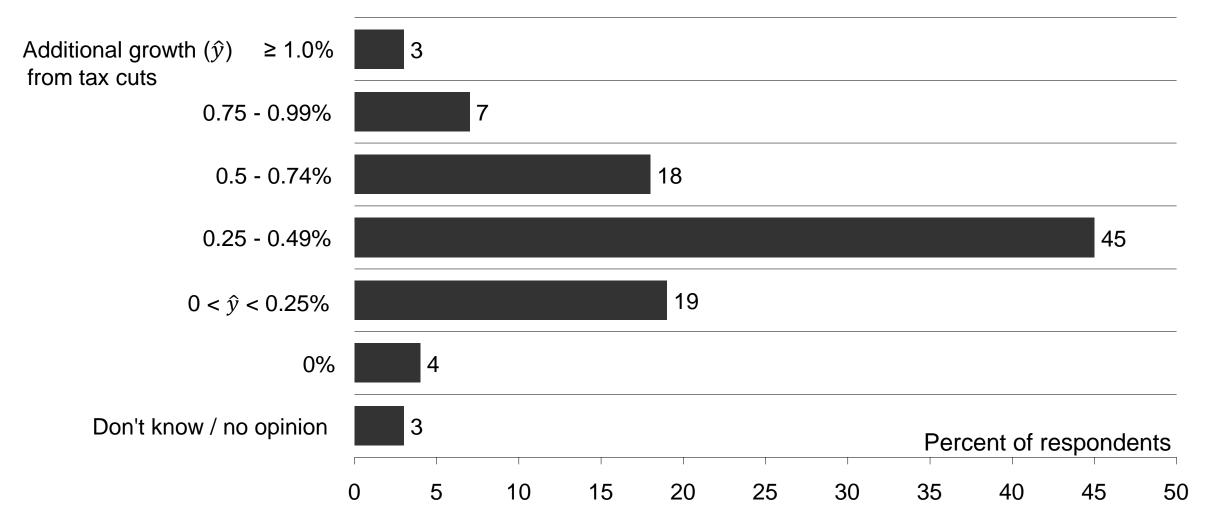




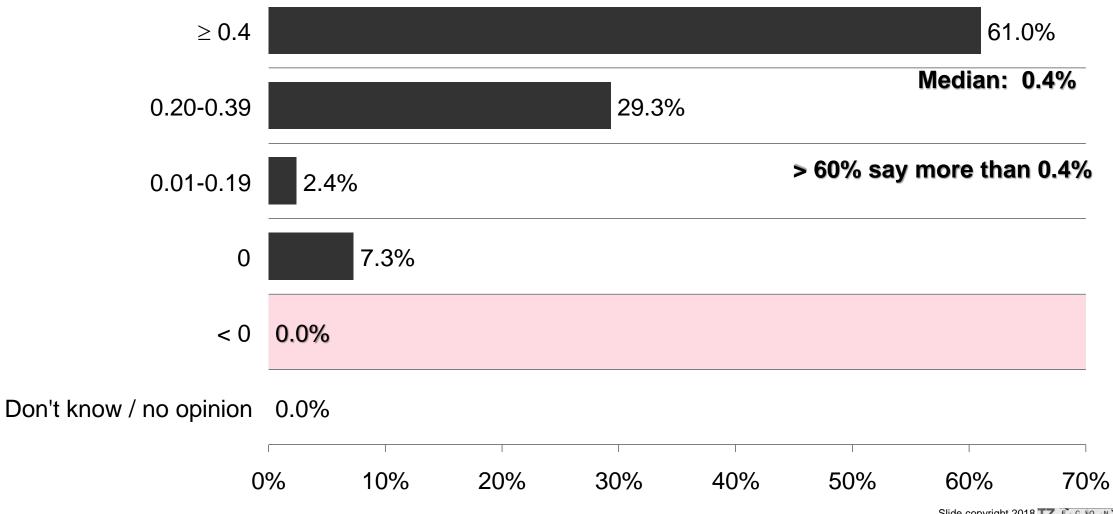
Fuhgeddaboudit

Eric Adams Borough President Bill de Blasio Mayor

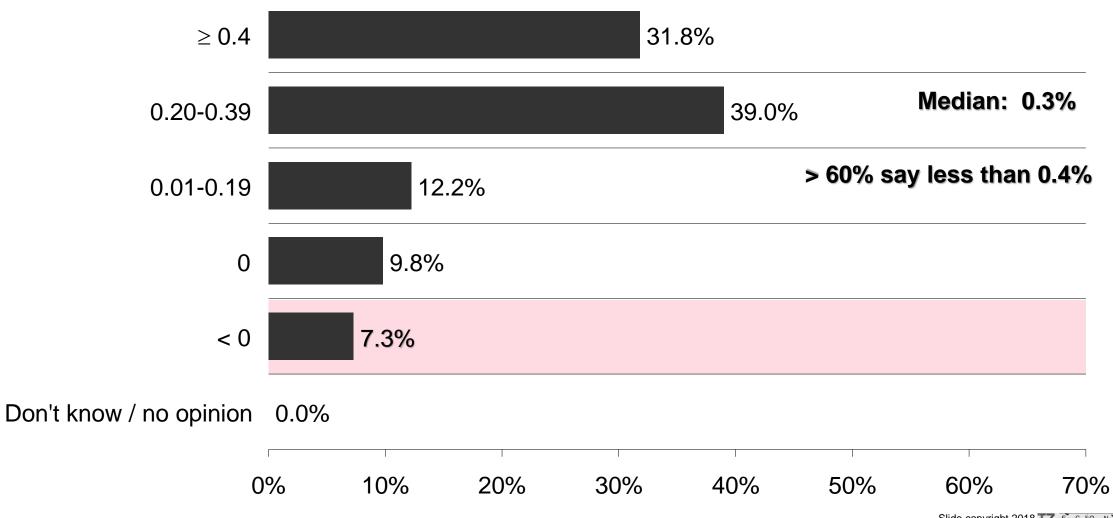
February 2018 NABE Survey: "Tax Cuts and Jobs Act...will increase the growth rate of real GDP $[\hat{y}]$ over the next year by (in percentage points)?"



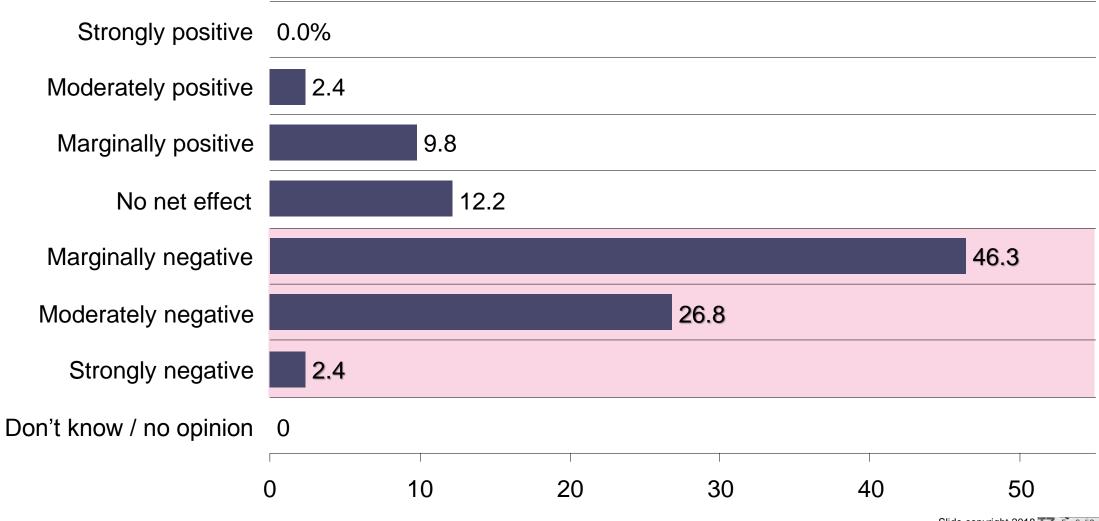
June 2018 NABE Survey: "How much do you forecast federal fiscal policy changes...add to or subtract from real GDP growth (in 2018)?"



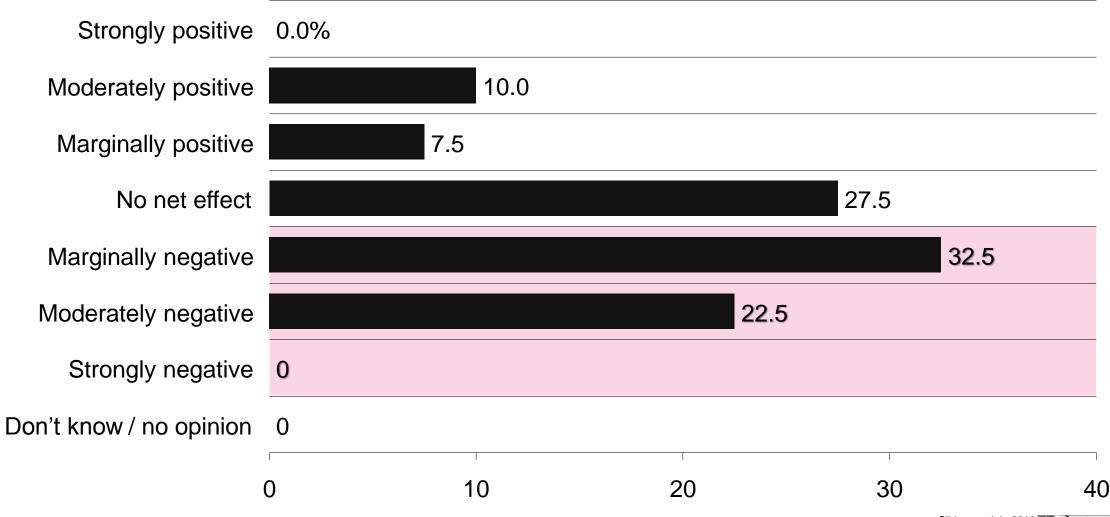
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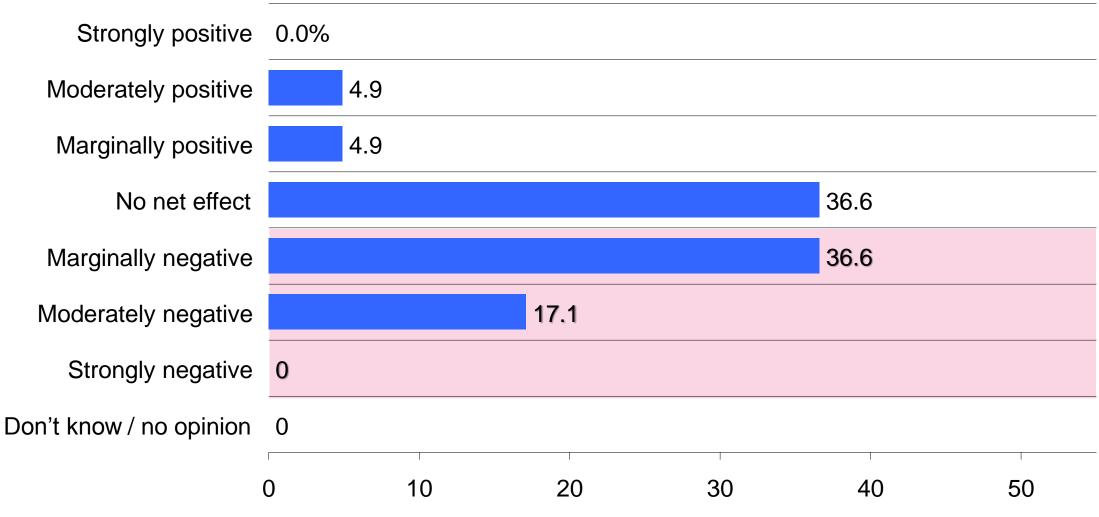
June 2018 NABE Survey: "...net effect of trade policy on U.S. real GDP growth?" 75 percent say negative, 12 percent say positive



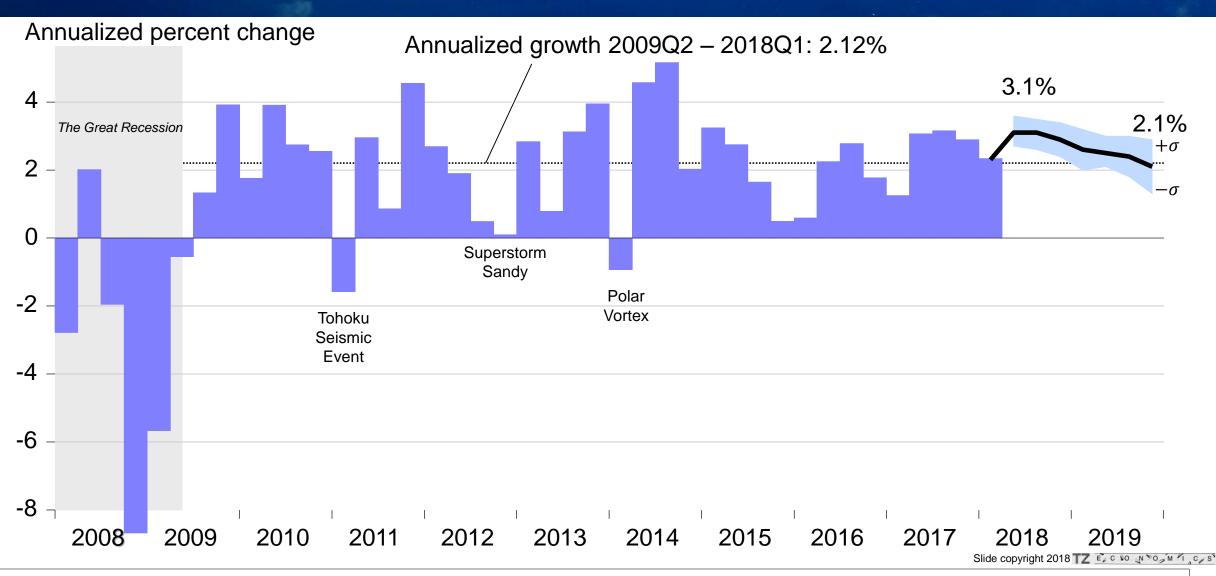
June 2018 NABE Survey: "...net effect of energy prices on U.S. real GDP growth?" 55 percent say negative, 17.5 percent say positive



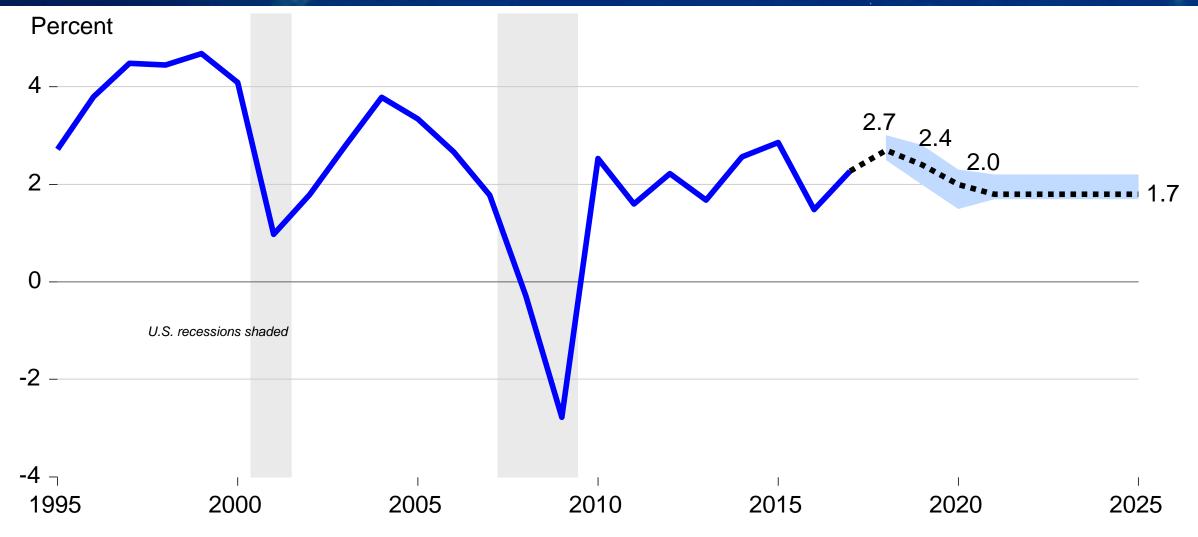
June 2018 NABE Survey: "...net effect of interest rates on capital expenditures?" 54 percent say negative, 10 percent say positive



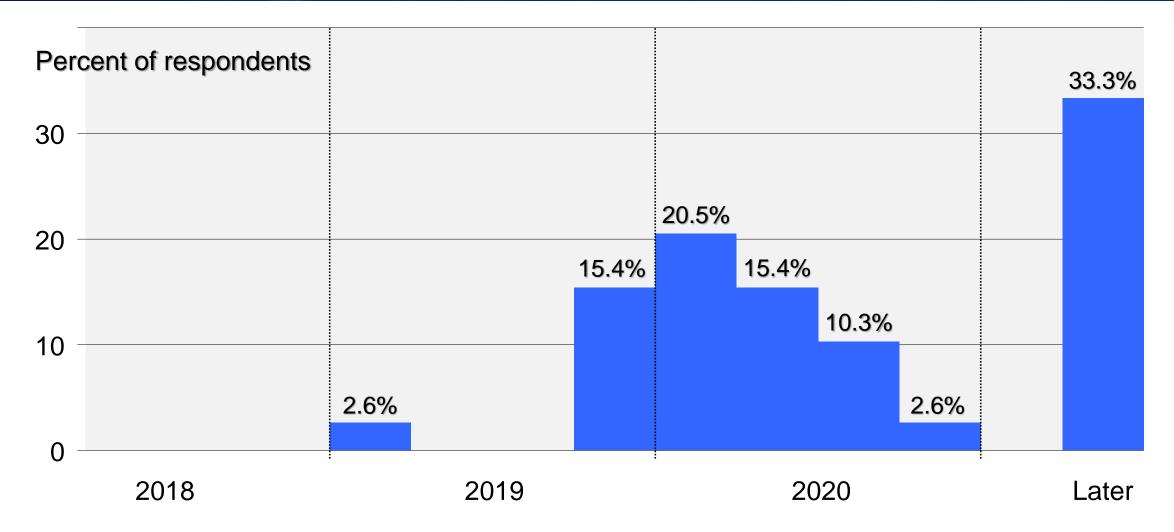
June 2018 NABE forecast survey expectation for U.S. real GDP growth: 3.1 percent this quarter, subsiding to average 2.1 percent by end-2019



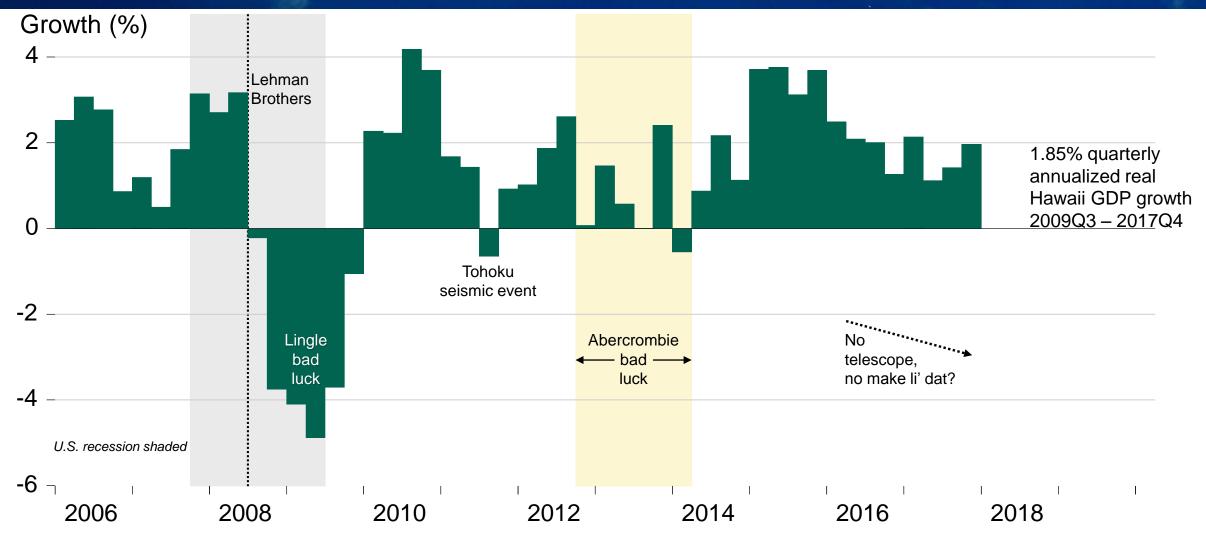
Federal Reserve Board FOMC projections for U.S. real GDP growth: 2.7 percent this year, decelerating to longer run potential 1.7 percent



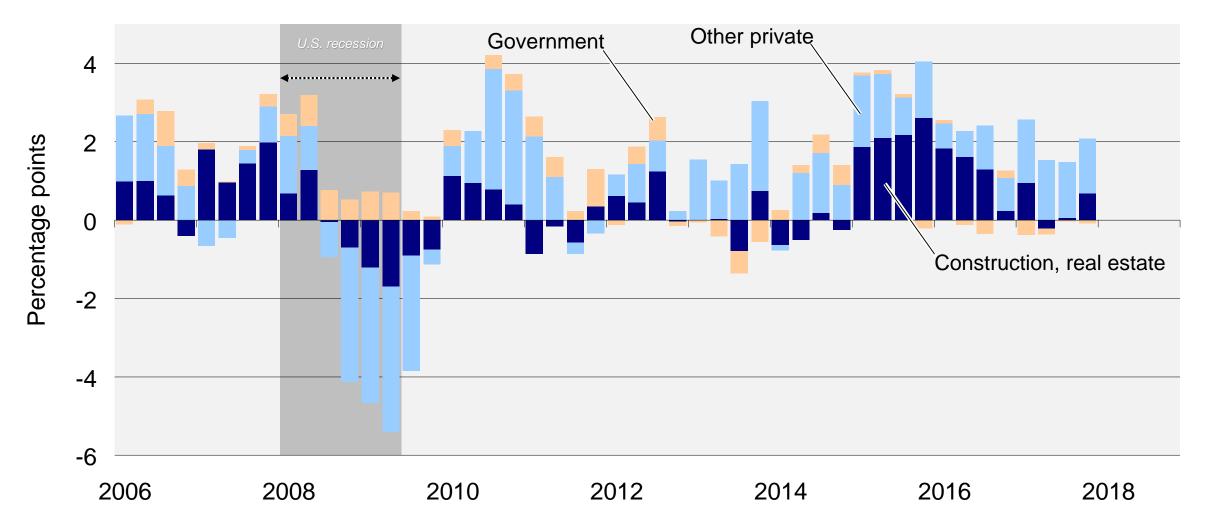
June 2018 NABE Survey: "...When do you expect the next recession?" one-third say not before 2021; two-thirds say most likely in early-2020



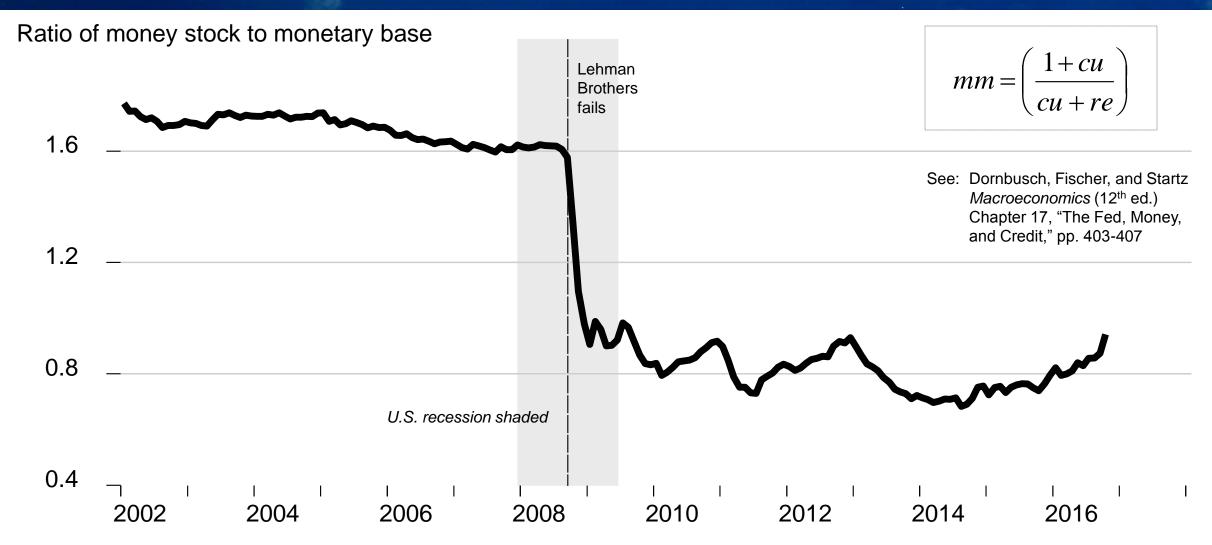
Hawaii statewide real GDP growth rates (year-over-year): tourism led start, investment led finish, soft patch in-between; now what?



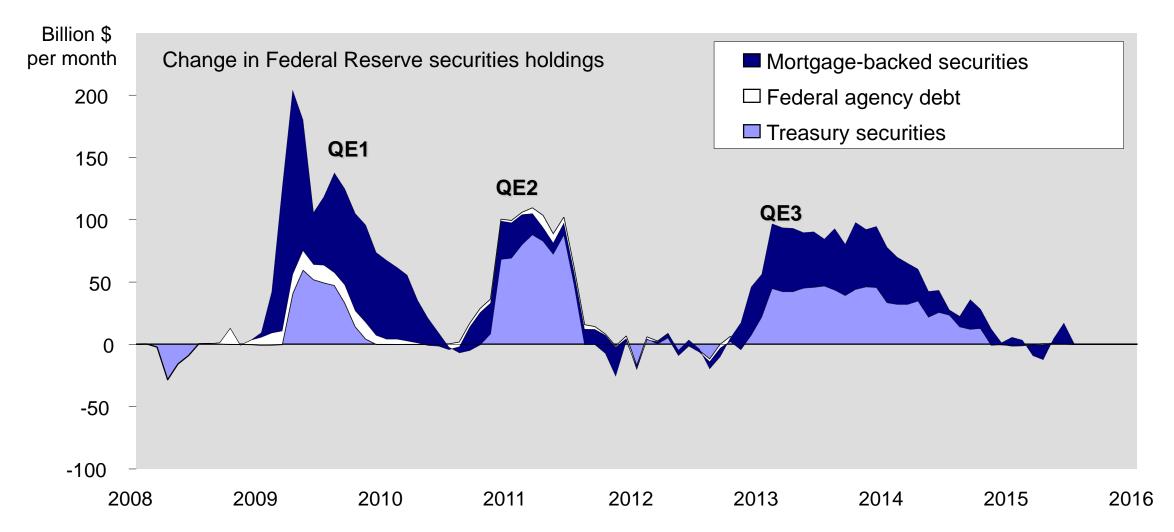
Weighted contributions to Hawaii quarterly real GDP growth: the investment surge of the mid-2010s extended economic expansion



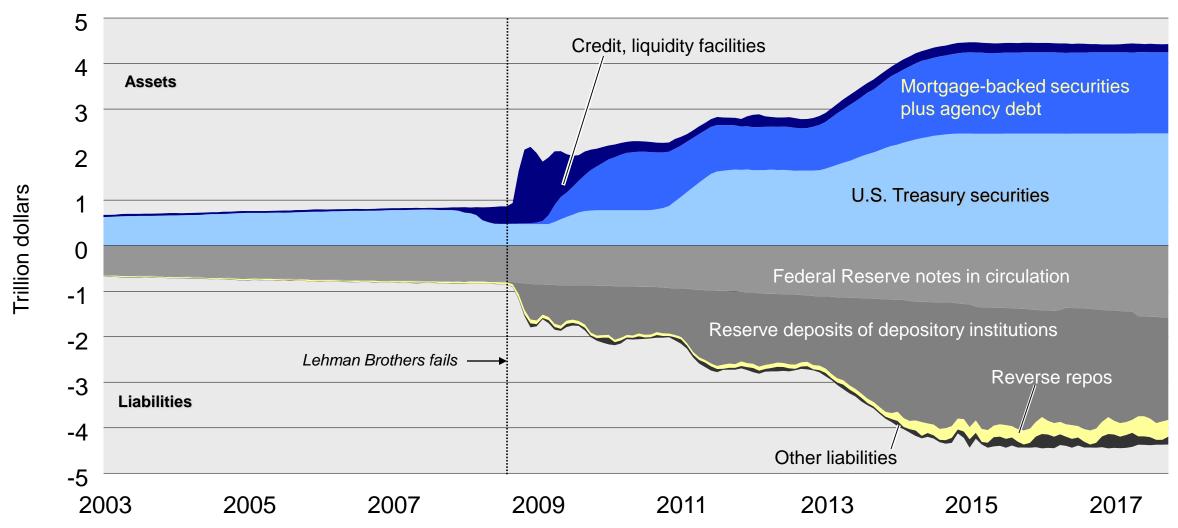
The U.S. M1 money multiplier collapsed after Lehman Brothers failed—why? Flight to liquidity (excess reserves) $\Rightarrow re$ rises



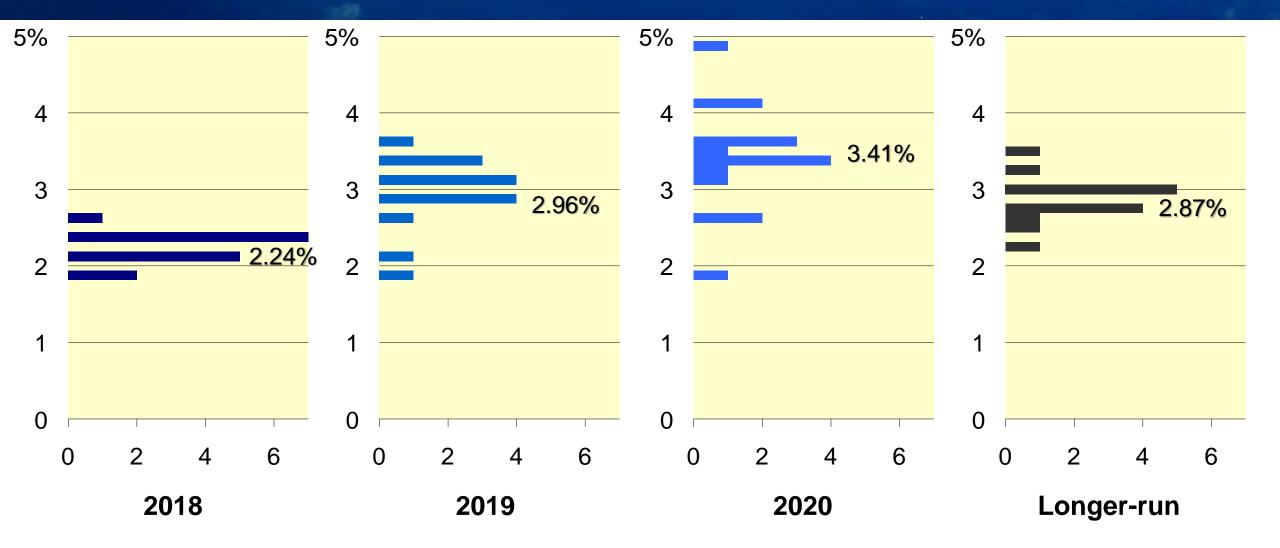
Three rounds of Quantitative Easing concluded at the end of 2014



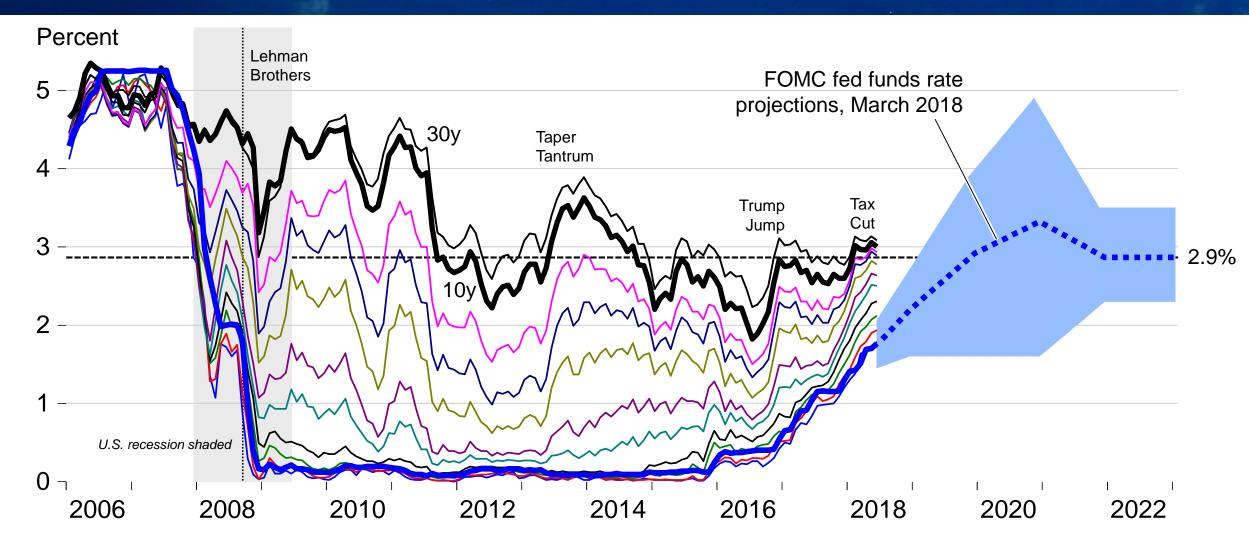
Fed to "begin implementing a balance sheet normalization program this year [2017], provided that the economy evolves broadly as anticipated"



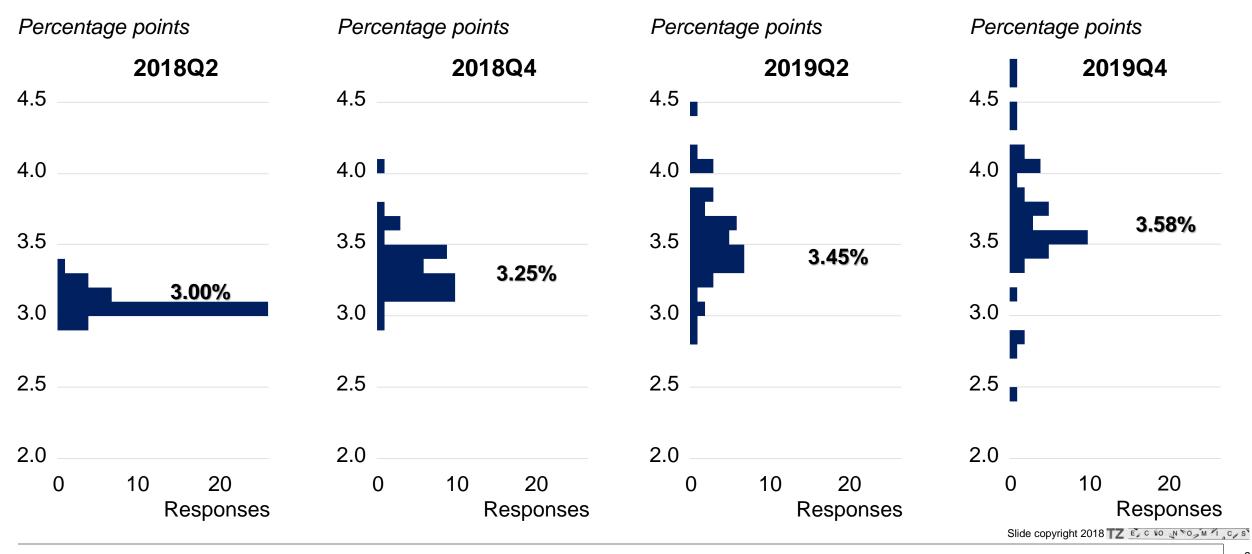
June 2018 federal funds target rate distribution of FOMC participants' pre-meeting projections—overshooting to tamp down inflation risk



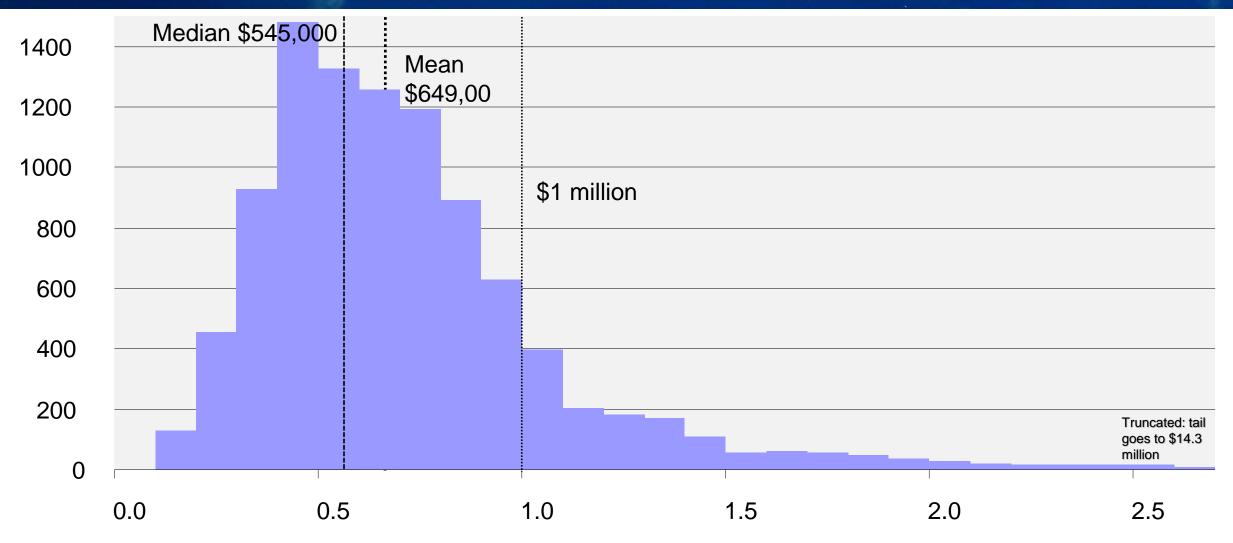
Treasury yields through June 12, 2018, FOMC fed funds projections (March 2018); longer-run "neutral" fed funds rate expectation of FOMC



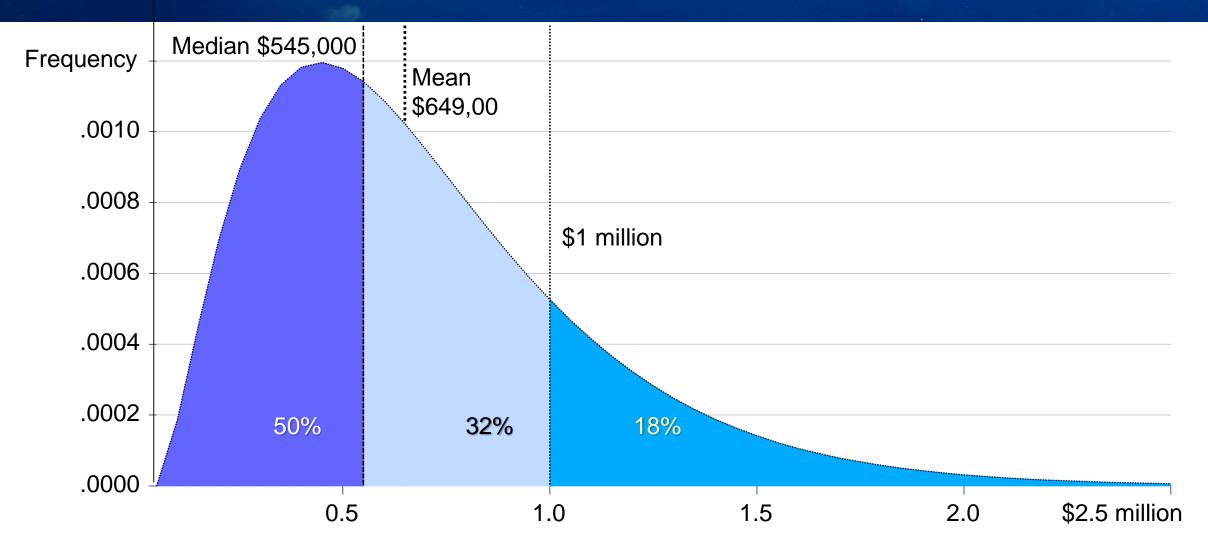
NABE June 2018 forecast survey response distributions for yields on 10-year U.S. Treasury Notes: averages for second, fourth quarters



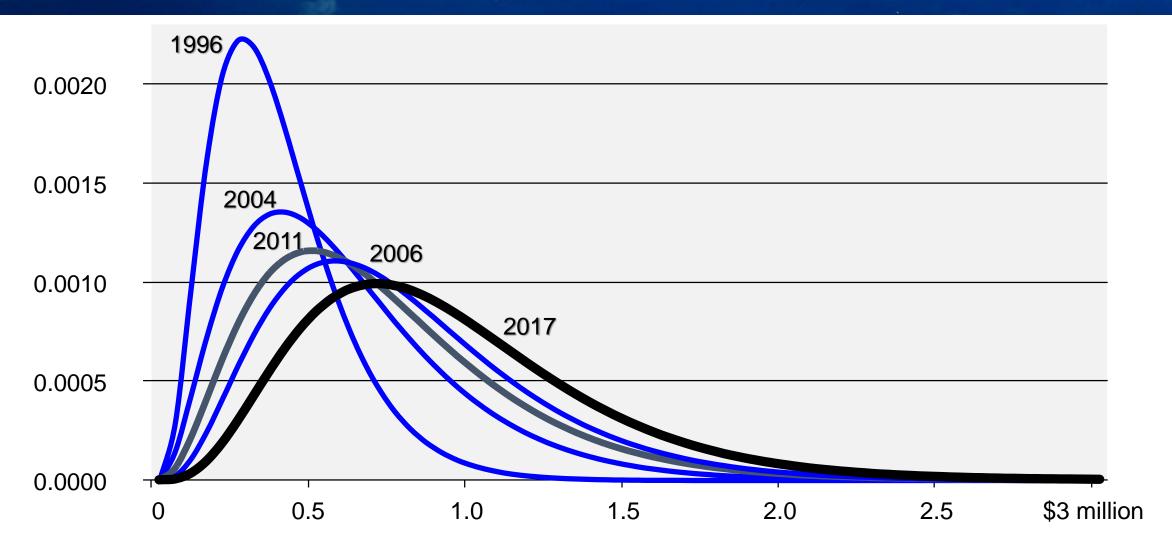
Histogram of actual Oahu existing home prices (2017) in \$100,000 increments (n = 9,850); 88/100 transactions were below \$1 million



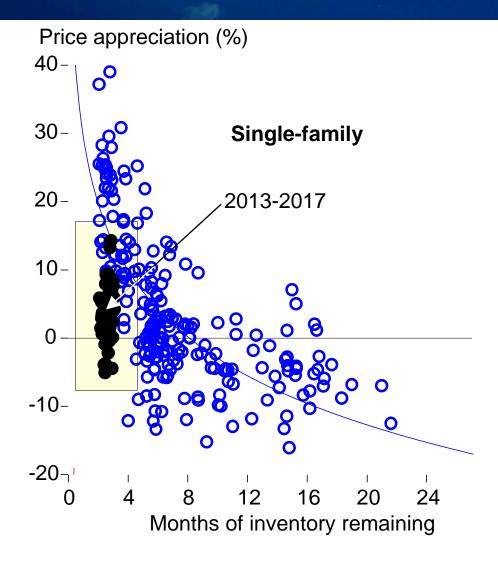
Estimated empirical gamma distribution of all 2017 Oahu existing home sales prices: ≥ 4 out of 5 transactions were below \$1 million

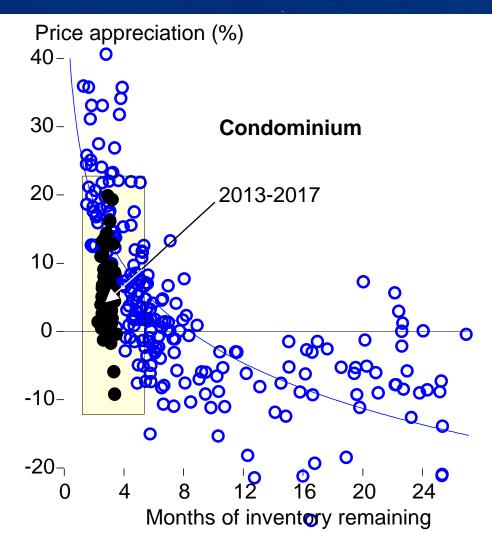


Approximating the actual distribution of annual Oahu single-family home prices using an estimated empirical gamma distribution: "moving along"

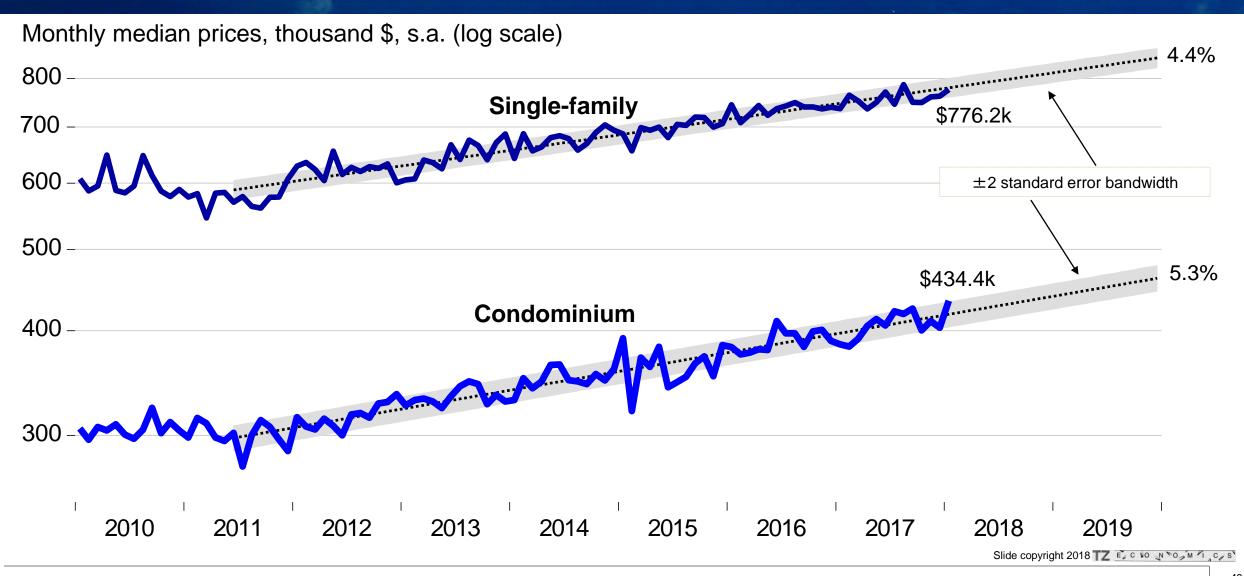


Oahu data since mid-2012, tight with NO apparent trade-off between months of inventory remaining (2-3) and home price appreciation (!)

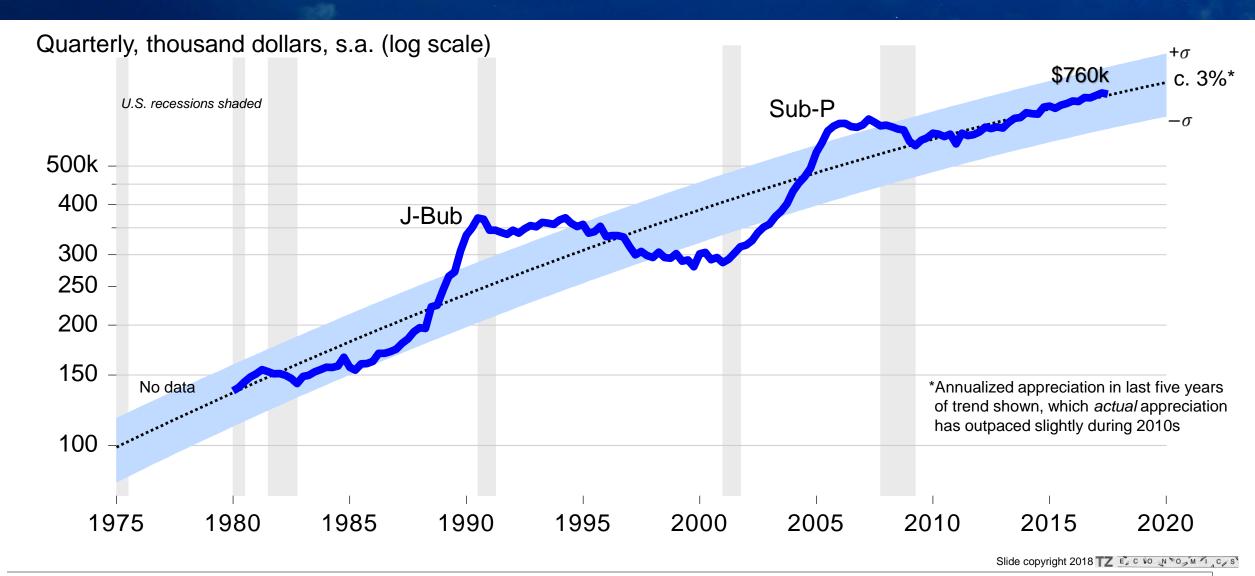




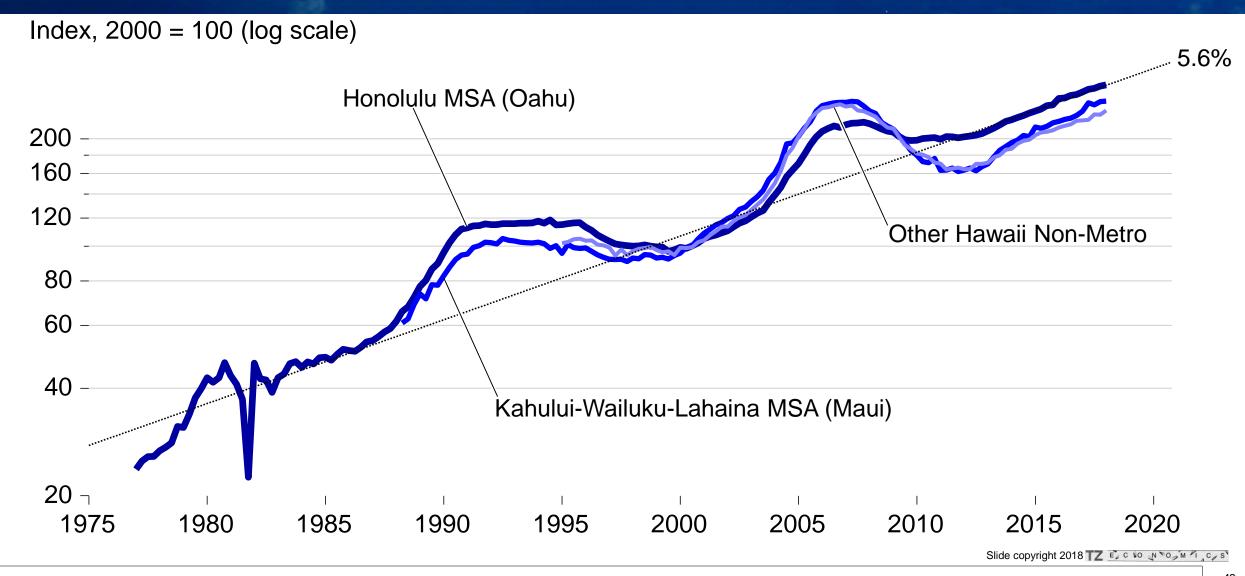
For the last six years existing home price appreciation rates on Oahu have remained remarkably steady, with narrow bandwidth



Oahu median single-family existing home sales *nominal* prices are convergent to long-run disinflationary trend; no asset pricing bubble

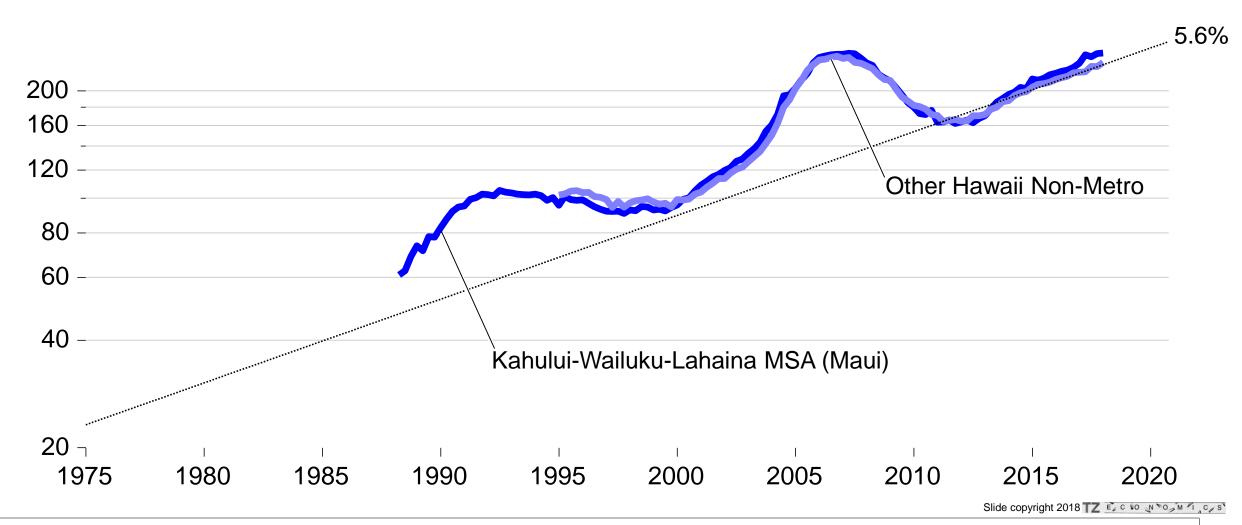


Broader FHFA All-Transactions Indexes of housing valuations display convergence to longer-run trends and absence of asset price bubble

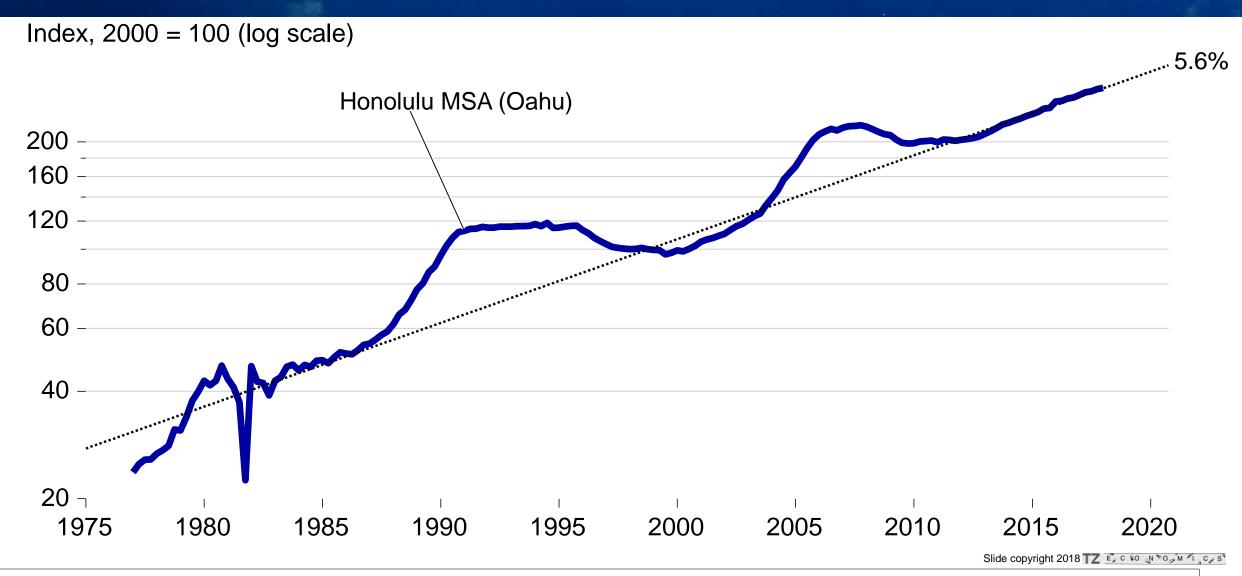


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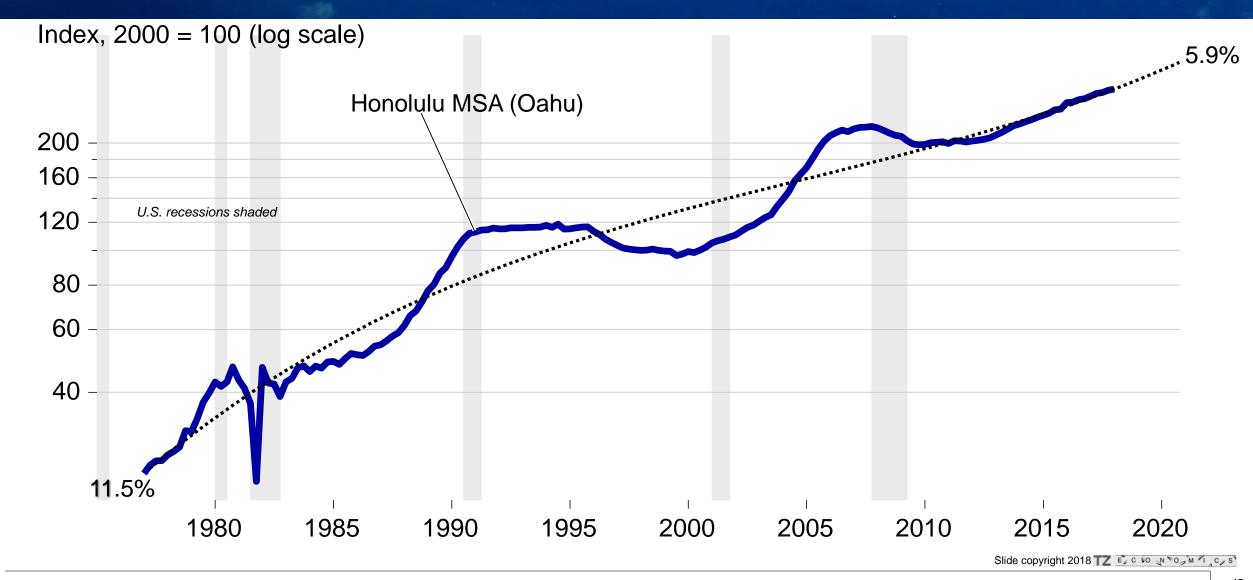
Index, 2000 = 100 (log scale)



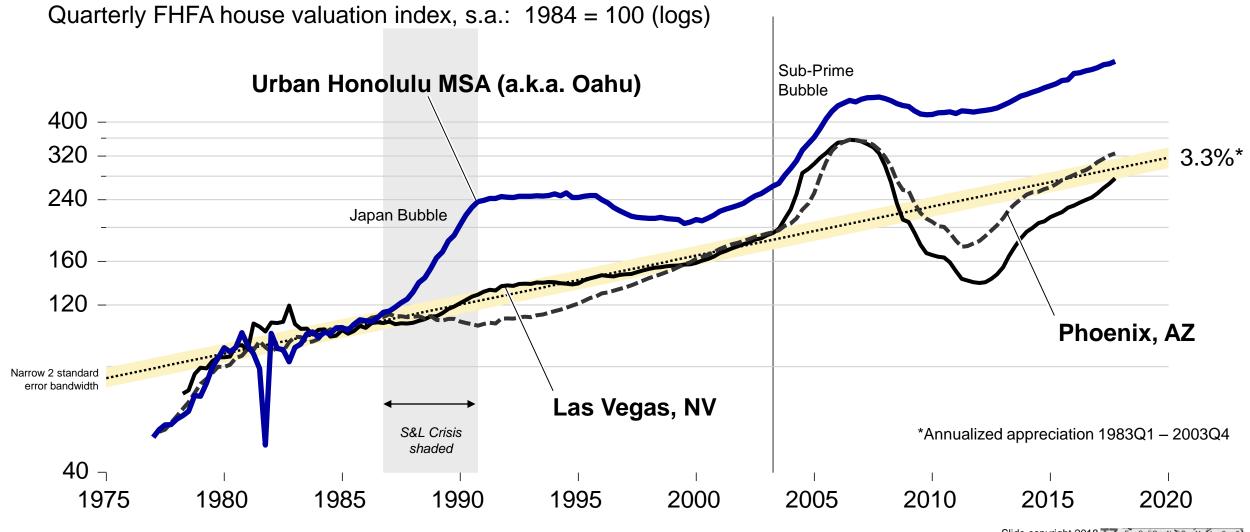
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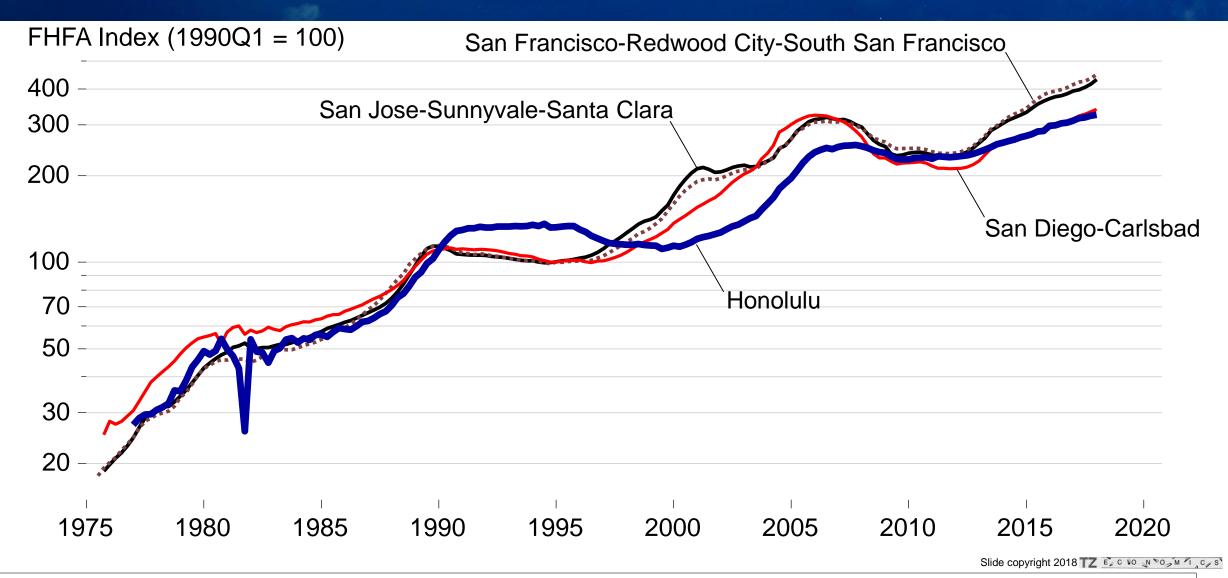
A trend-fitting exercise on what's called the "stationary component" of Oahu housing valuations reveals a more nuanced characterization



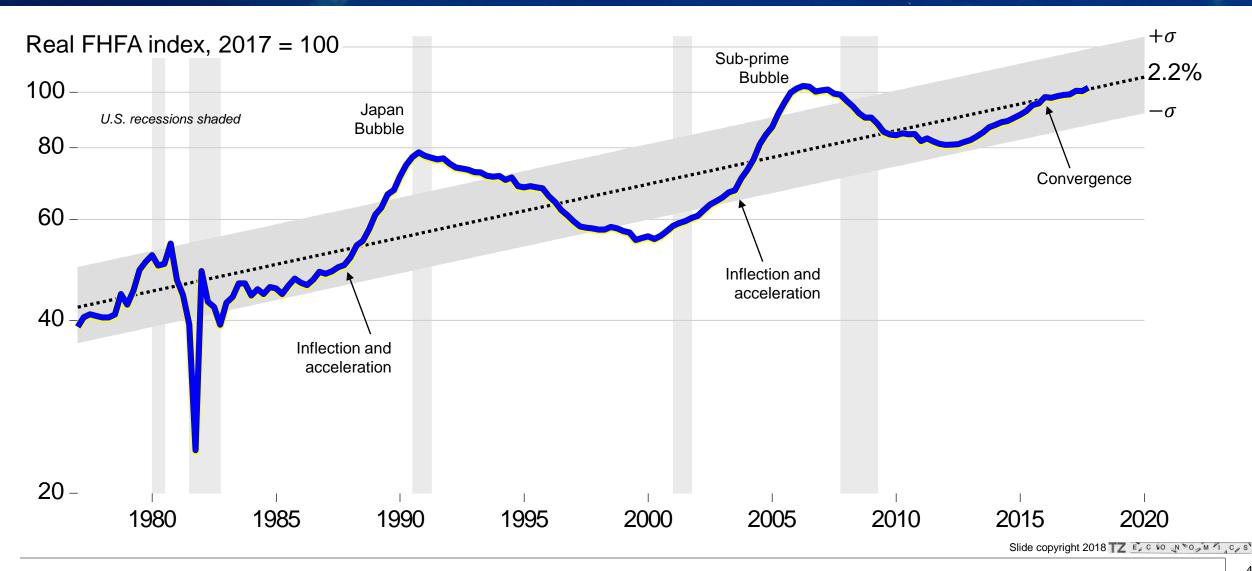
Nominal Honolulu vs. Southwest U.S. metro values: The Ninth Island (Las Vegas), Phoenix both overshot 2007-2012, now back to '90s trend



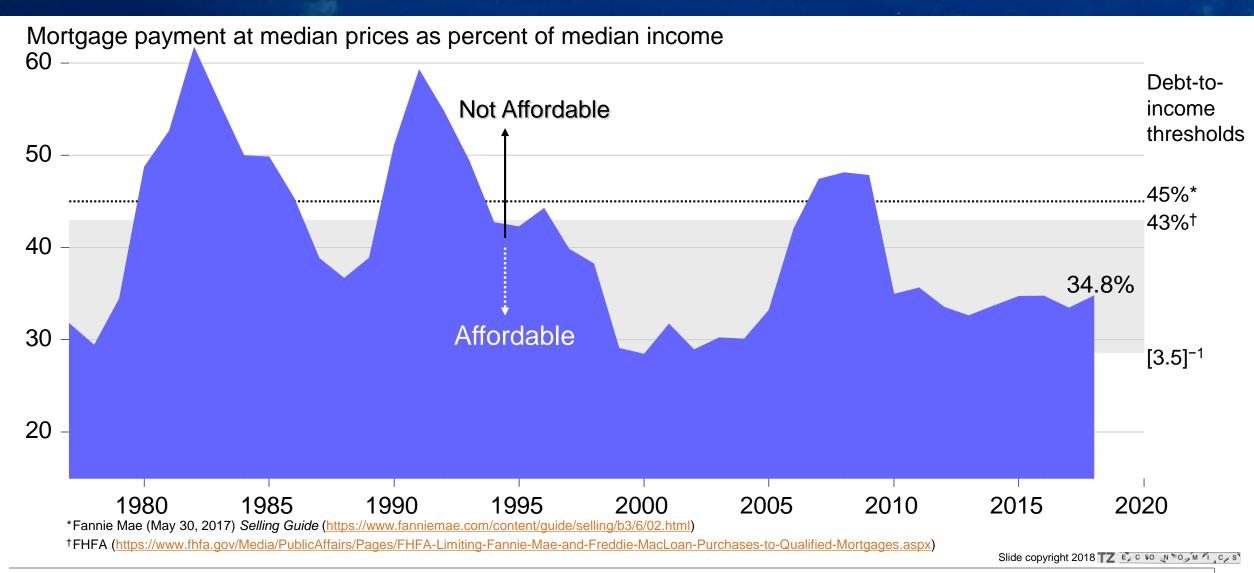
A reminder that Honolulu is not always in synch, even though capital mobility in the long-run implies that arbitrage will squash "free profit"



Real—inflation-adjusted—Oahu quarterly house valuations (sales and mortgage collateral values) exhibit steady real rates of appreciation



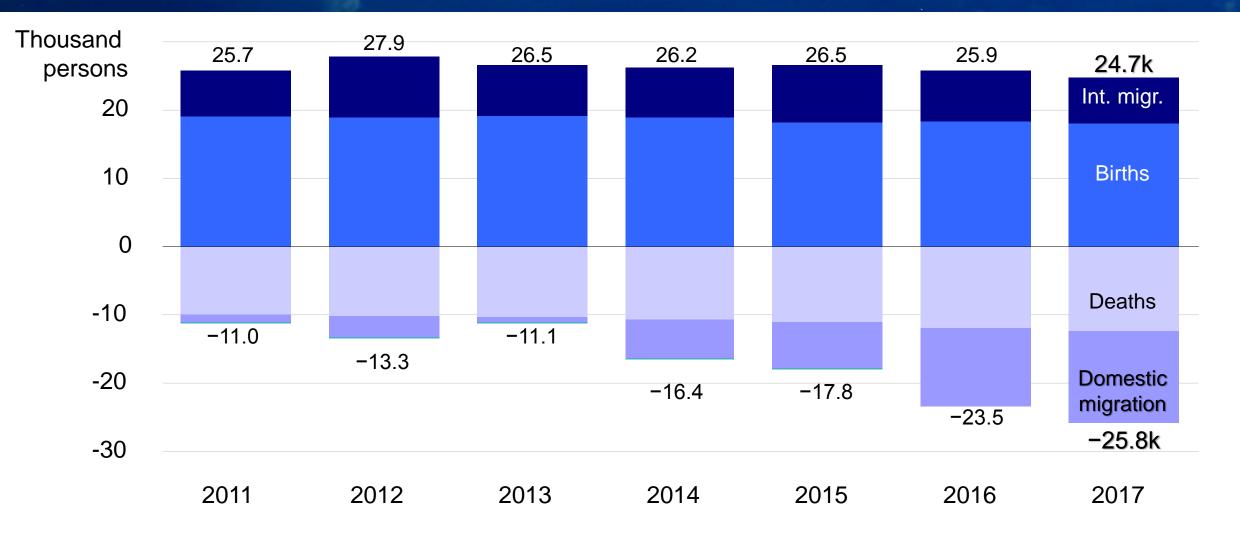
Oahu conventional mortgage debt service-to-income ratio, a measure of housing affordability, remains within the affordable zone in 2010s



Last year Hawaii was one of eight states with population decline and one of the only states not linked to falling energy commodity prices

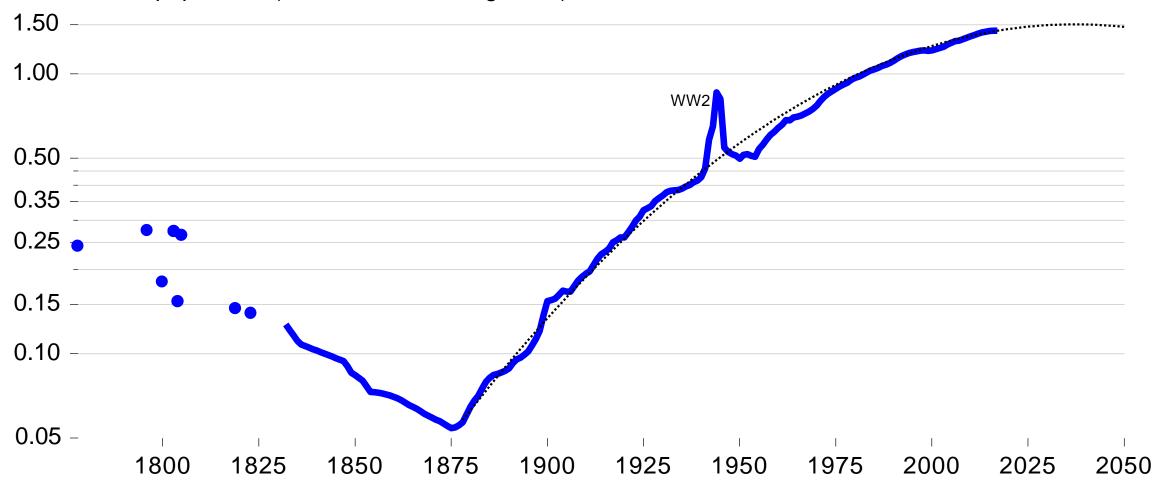
	Populations, changes in thousands				Growth
State	2016	2017	Change	Growth (%)	rank in U.S.
Wyoming	584,910	579,315	-5,595	-0.957	51
West Virginia	1,828,637	1,815,857	-12,780	-0.699	50
Illinois	12,835,726	12,802,023	-33,703	-0.263	49
Alaska	741,522	739,795	-1,727	-0.233	48
Hawaii	1,428,683	1,427,538	-1,145	-0.080	47
Mississippi	2,985,415	2,984,100	-1,315	-0.044	46
Louisiana	4,686,157	4,684,333	-1,824	-0.039	45
North Dakota	755,548	755,393	-155	-0.021	44

Hawaii statewide components of population change: natural increase; net int'l.; net domestic migration [from −1k (2011) to −13.5k (2017)]



Longer-run trends in Hawaii resident population growth point to early 21st century stagnation; 2017 was fourth population decline since 1875

Hawaii annual population (million residents; log scale)



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