

Analysis. Answers



The Economic Outlook January 2018

Christopher Thornberg

Founding Partner, Beacon Economics
Director, UC Riverside Center for Forecasting and Development

Politics



Reality

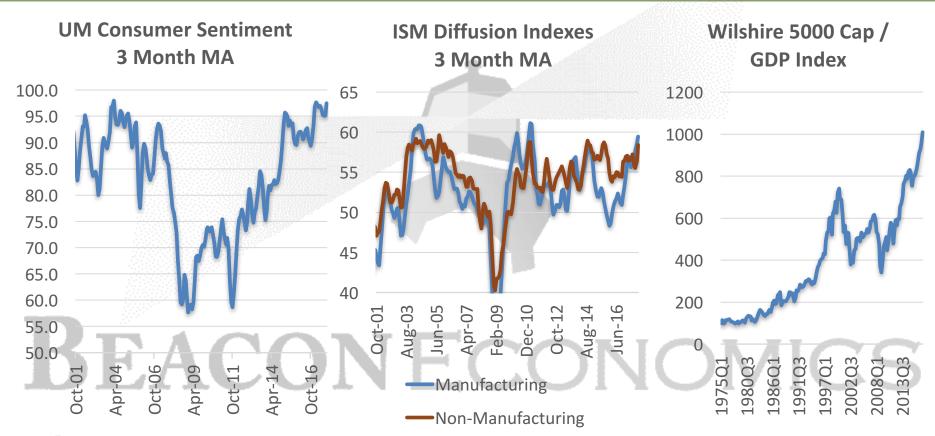




The Victory of Miserabilism

- The Good: Meet the new economy, same as the old economy
 - For all the sound and fury, very little actually happened (x taxes)
 - 2017 solid year for growth: looked a lot like 2013-2016
 - 2018 likely to be better: the tax cut stimulus will boost the economy
 - Low chance recession next 24 months
- The Bad: Brakes and Imbalances
 - Labor shortage Issues, state housing shortages
 - Consumer savings declines, another bubble forming
 - Aggressive Fed, rising rates, flattening yield curves
 - Little effort to deal with underinvestment in infrastructure, rising wealth and income inequality, healthcare cost inflation, housing
- The Ugly: 2018 will be seen as a historic turning point
 - Sharp growth in entitlement spending and government deficits
 - Breakdown in basic norms of political leadership

Optimism Abounds

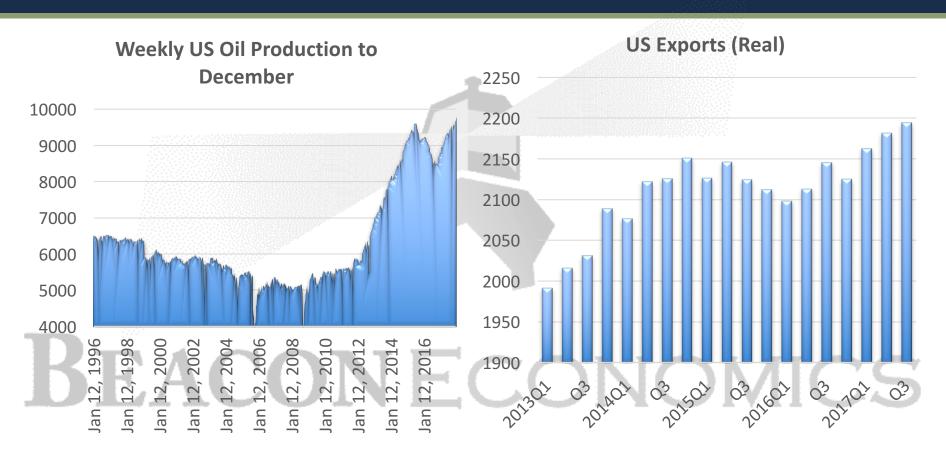


GDP Growth: Back to 2.2%

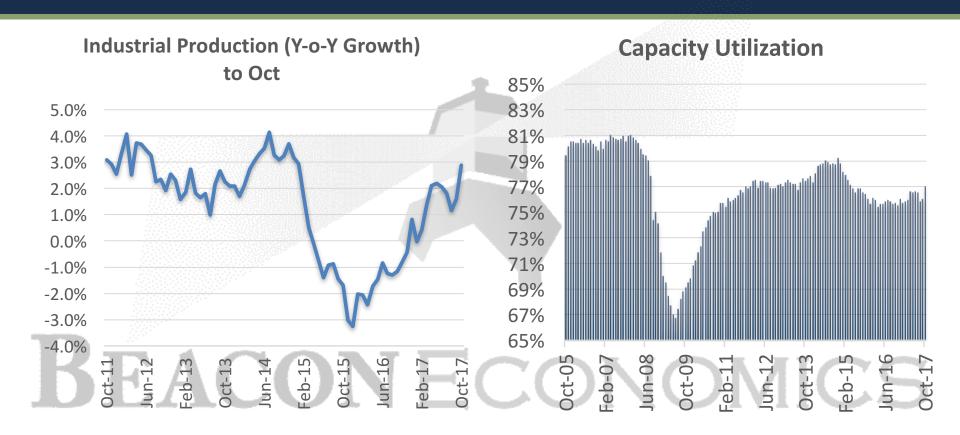


				2017
	2015	2016	2017	Q3
GDP	2.00	1.85	2.43	3.00
FD	2.70	2.19	2.36	1.86
Consumption	2.04	1.93	1.73	1.62
Goods	0.88	0.87	0.74	0.92
Services	1.17	1.06	0.98	0.70
Fixed investment	0.40	0.18	0.68	0.25
Structures	-0.28	0.10	0.15	-0.15
Equipment	0.21	-0.22	0.40	0.47
IPP	0.13	0.21	0.18	0.17
Residential	0.35	0.09	-0.04	-0.24
Net exports	-0.68	-0.31	0.28	0.41
Exports	-0.23	0.07	0.52	0.28
Imports	-0.45	-0.38	-0.24	0.12
Government	0.28	0.07	-0.05	-0.02

Oil and Exports



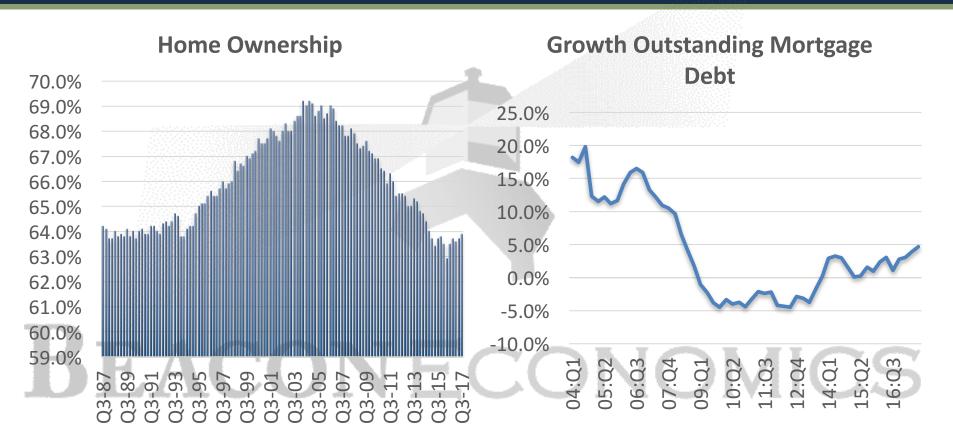
Industrial Stats: Meh.



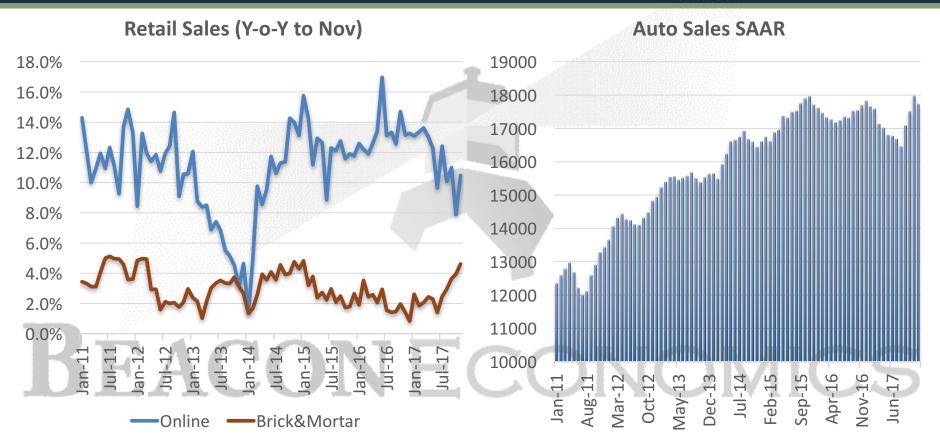
Housing



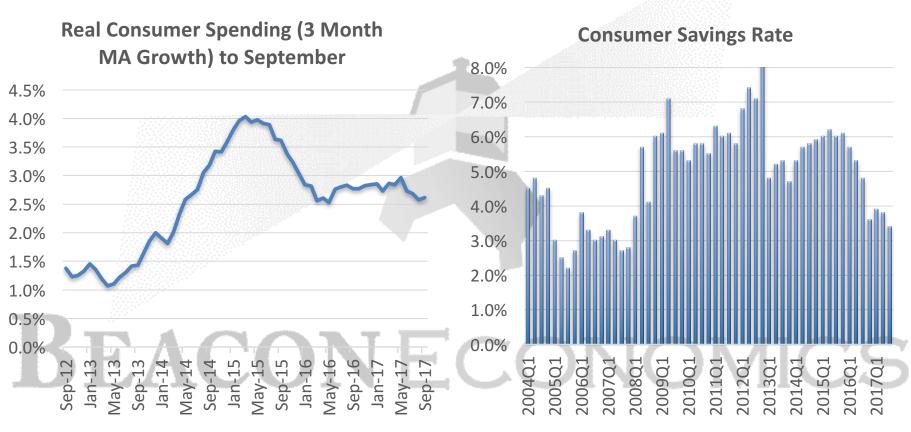
Ownership-Slight Up



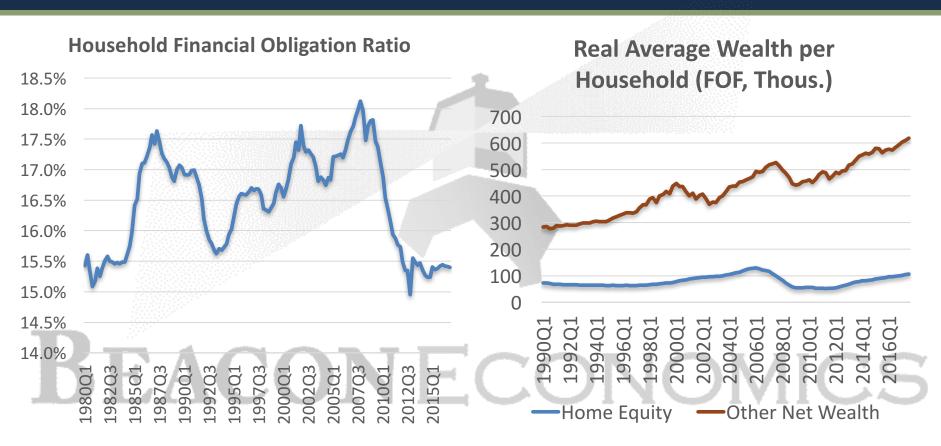
Retail Sales to November



Consumer Spending



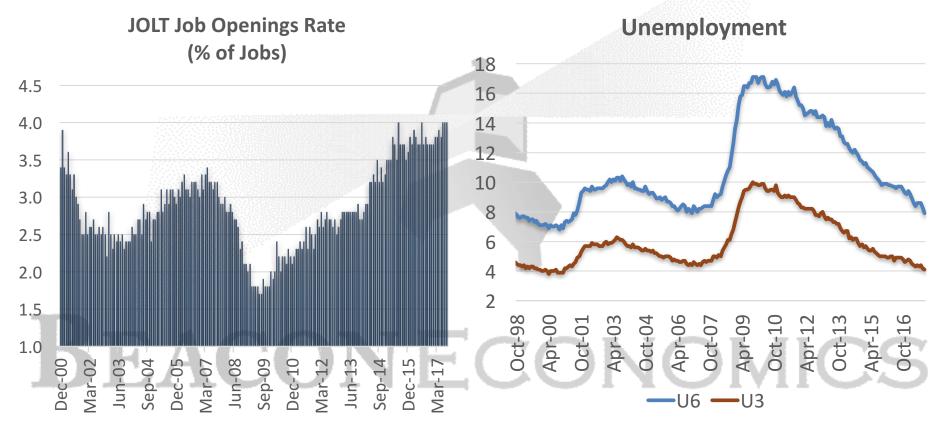
Wealth and Debt



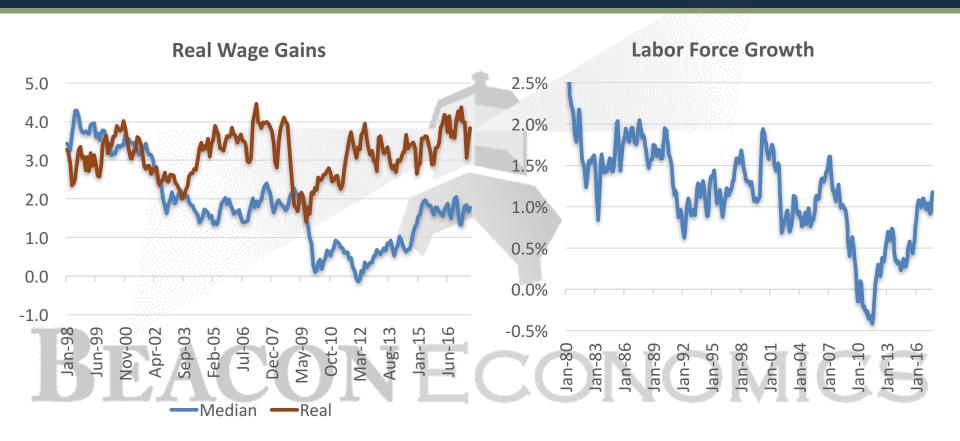
Labor Markets



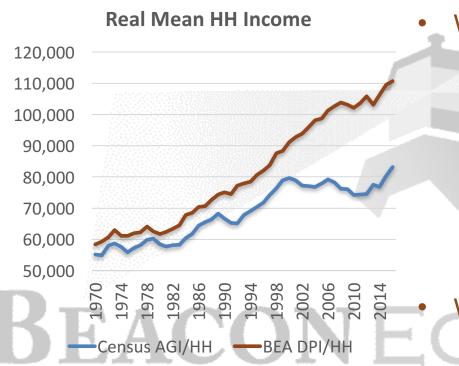
Why Slowing Job Growth?



Consequences



Income Stagnation?

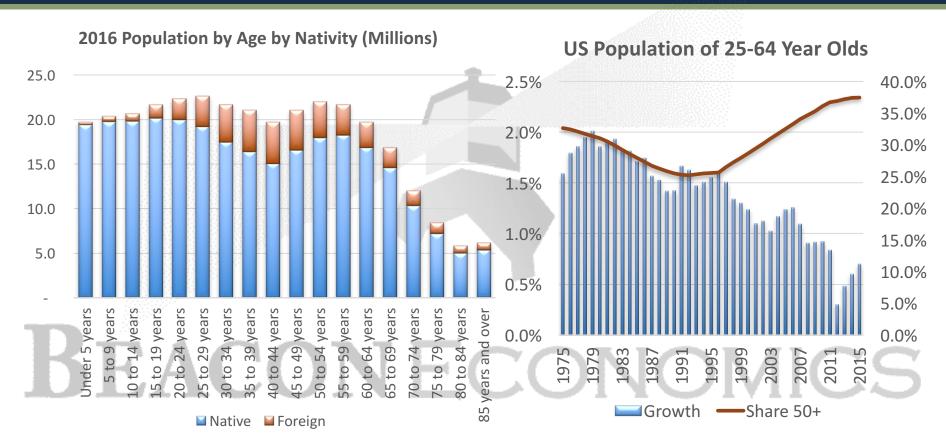


What is better today?

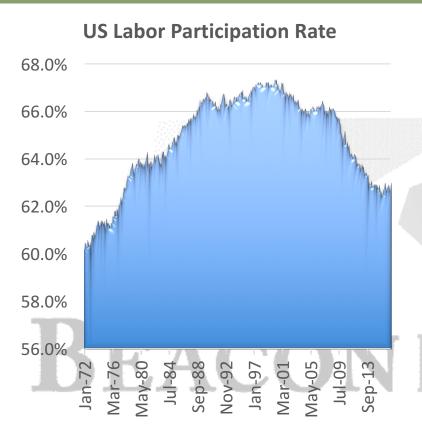
- Communications
- Medical care,Pharmaceuticals
- Entertainment options
- Transportation
- Shopping, Product quality
- Food quality / variety
- Access to information
- Environmental conditions
- Legal Marijuana

What isn't?

Demographic Limits



Blue Collar Blues?



	Female	Age 25-44			Age 45-64		
		2000	2016	Dif	2000	2016	Dif
	Bachelors Degree +	80.5%	85.6%	5.1%	77.8%	78.5%	0.7%
	Some College	78.2%	78.8%	0.6%	71.2%	71.1%	0.0%
	High School Graduate	73.4%	69.4%	-4.1%	63.5%	63.4%	-0.1%
	Less Than High School	57.7%	53.5%	-4.1%	44.7%	46.1%	1.4%
	Male	2000	2016	Dif	2000	2016	Dif
	Bachelors Degree +	94.1%	94.9%	0.8%	87.9%	88.9%	1.0%
	Some College	92.0%	89.1%	-2.9%	82.8%	79.6%	-3.2%
1	High School Graduate	89.2%	83.1%	-6.1%	76.7%	74.2%	-2.5%
	Less Than High School	84.0%	75.5%	-8.5%	66.3%	64.3%	-2.0%

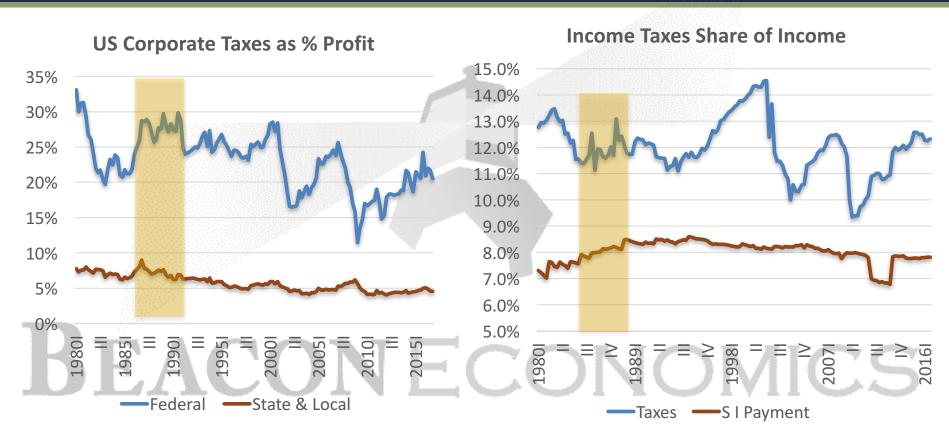
2.7 million 'missing' or 2% of LF

The Cure for Secular Stagnation

Figure 8: Increase in Average Annual Growth Rate With Estimated Policy Shifts

Policy Change	Boost in Annual Growth	Estimated
	Rate	Ву
Enact immigration reform to increase number of workers	0.3%	<u>CBO</u>
Reform the income tax code	0.05% - 0.3%	JCT, Treasury
Increase the Social Security retirement ages by two years	0.15%	<u>CBO</u>
Reduce deficits by \$4 trillion over ten years	0.1%	<u>CBO</u>
Expand energy production at level of shale boom*	0.09%	<u>CBO</u>
Repeal the Affordable Care Act ("Obamacare")	0.08%	<u>CBO</u>
Ratify the Trans-Pacific Partnership	0.01%	U.S. ITC
Increase public investment in infrastructure, education, and research by \$400 billion	0 - 0.01%	CBO

Tax Reform vs Tax Cuts



Overview of Plan

Overall Taxes Go Down (even in CA 85% of households will see a tax cut)

- A. The plan will give a short term boost to the economy (albeit at full employment)
- B. The plan is regressive
- C. The deficit will increase by \$1.5 trillion to \$3.5 trillion in 10 Years

Implications

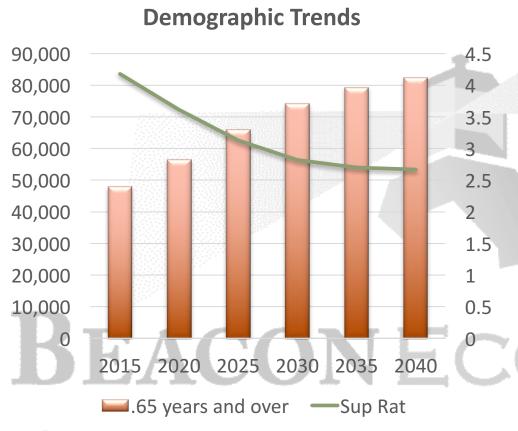
Real Income Growth by Bracket 13-16

	Mean	
Less than 20	\$14.4	4.6%
20–39.9	\$31.8	8.0%
40–59.9	\$53.4	9.6%
60–79.9	\$87.4	7.9%
80–89.9	\$138.7	8.3%
90–100 BEACON ECONOMICS	\$509.8 Analysis. Answers.	21.7%

Real Average Net Worth by Bracket

	1989	2001	2016
< 25	\$(1)	\$0	\$(12)
	0%	0%	0%
25-49.9	\$43	\$60	\$45
	3%	3%	2%
50-74.9	\$166	\$227	\$204
	12%	11%	7%
75–89.9	\$422	\$612	\$659
	18%	17%	14%
90–100	\$2,317	\$3,748	\$5,336
	67%	70%	77%
Top 1%	\$10,407	\$17,772	\$26,645
	30%	33%	39%
			21

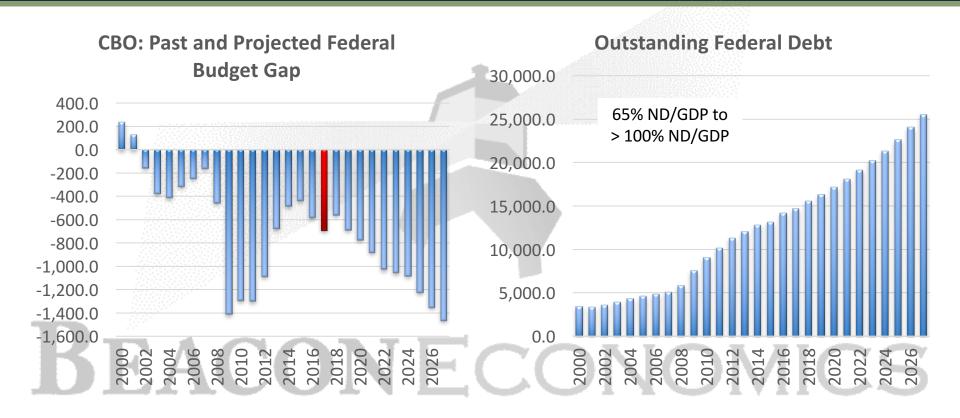
The Looming Social Insurance Crisis



Medicare Spending Projections

Fed M. Spending / Senior
\$5,461
\$13,531
\$43,395
Spending Share Federal
Rev
13.0%
18.7%
41.0%

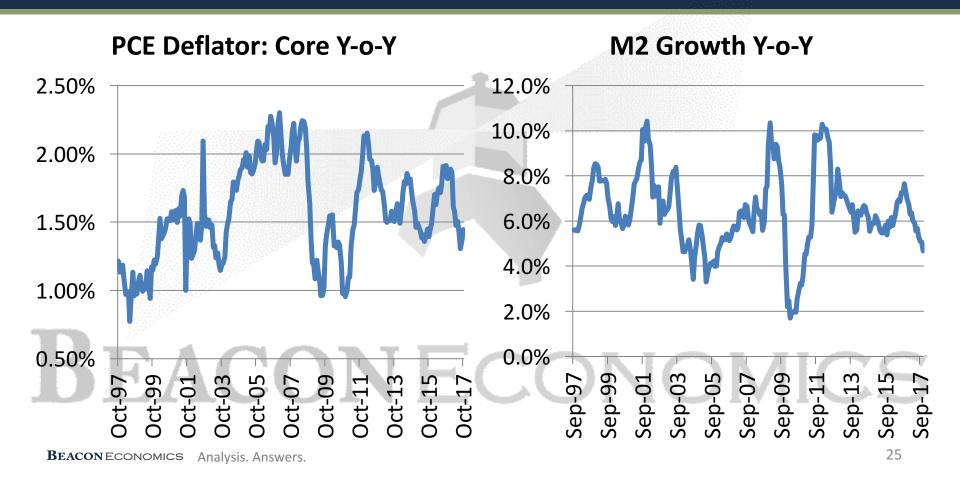
The Federal Budget Outlook



Fed Tightening



Inflation: Slowing



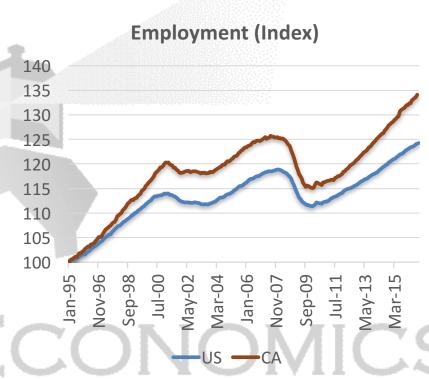
Frothy Equities



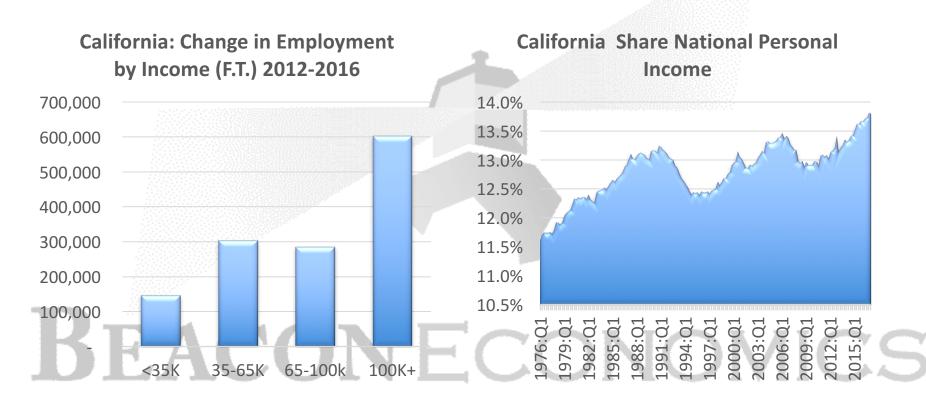
State Economic Performance

5 Year Change in Payroll Jobs by State

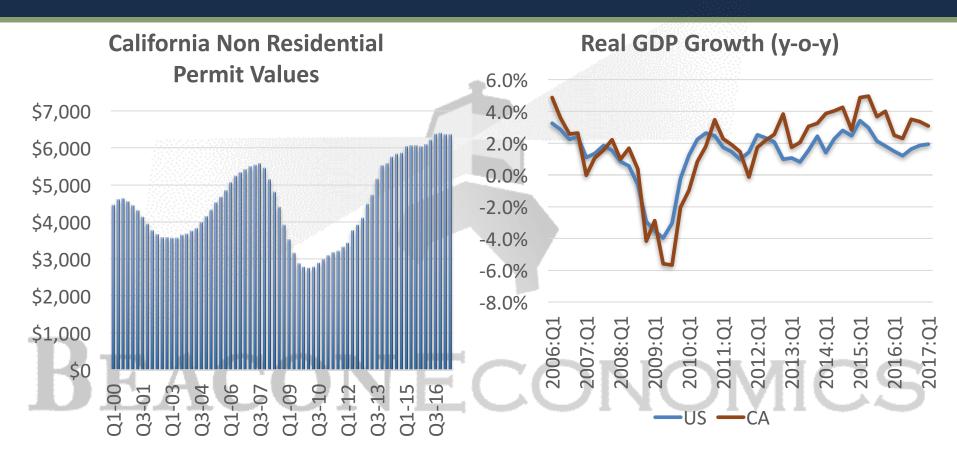
	New Jobs	Ann Gr	US Share
Utah	226	3.5%	1.8%
Nevada	188	3.1%	1.5%
Florida	1,207	3.1%	9.5%
Idaho	96	3.0%	0.8%
Colorado	344	2.9%	2.7%
Oregon	228	2.7%	1.8%
Washington	401	2.7%	3.2%
California	2,038	2.7%	16.1%
Georgia	521	2.5%	4.1%
Texas	1,425	2.5%	11.2%
Arizona	298	2.3%	2.3%
South Carolina	220	2.3%	1.7%
Tennessee	314	2.3%	2.5%
North Carolina	421	2.1%	3.3%
Montana	40	1.8%	0.3%



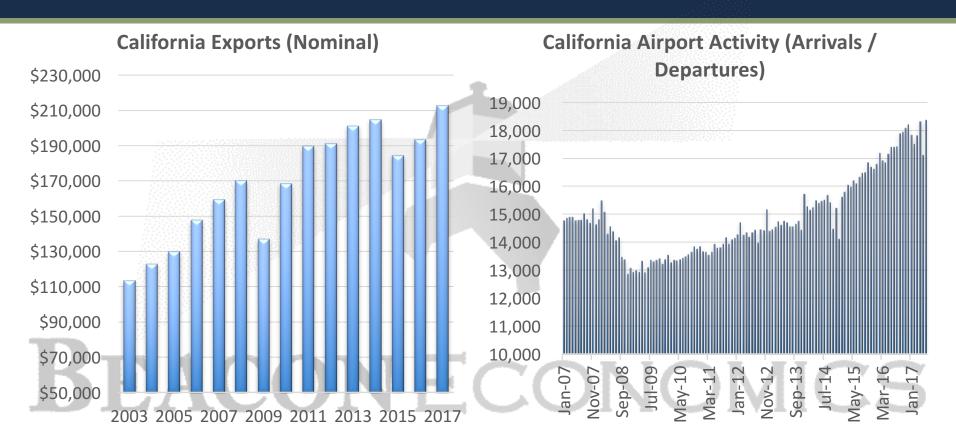
State Employment / Income



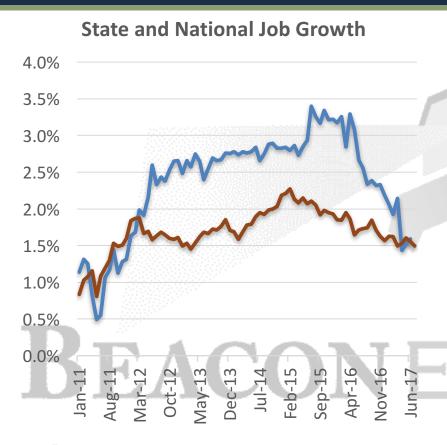
Still Strong Indicators



Exports / Travel

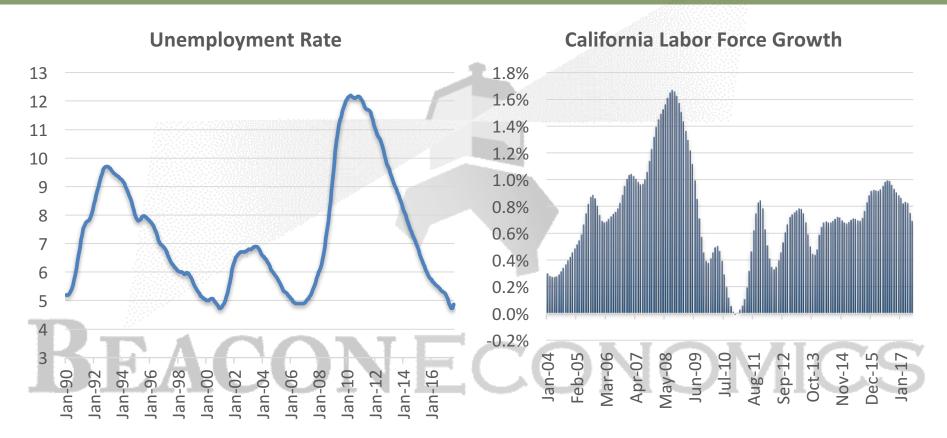


The Big Slowdown



Nov-17	14-15	15-16	16-17
1,470,000	4.8%	3.4%	3.2%
177,900	3.3%	3.0%	2.3%
186,300	1.2%	1.7%	2.3%
309,700	1.5%	1.5%	2.2%
978,700	3.5%	3.1%	2.1%
1,125,700	4.9%	3.3%	2.0%
346,000	3.9%	3.2%	1.7%
1,102,100	3.9%	2.8%	1.7%
260,400	-0.5%	-0.5%	1.6%
1,457,400	3.2%	2.3%	1.5%
1,162,400	3.5%	2.9%	1.4%
231,300	4.3%	2.8%	1.4%
203,900	2.8%	1.6%	1.1%
1,600,700	3.2%	1.6%	0.8%
4,465,200	2.8%	2.3%	0.8%
	1,470,000 177,900 186,300 309,700 978,700 1,125,700 346,000 1,102,100 260,400 1,457,400 1,162,400 231,300 203,900 1,600,700	1,470,000 4.8% 177,900 3.3% 186,300 1.2% 309,700 1.5% 978,700 3.5% 1,125,700 4.9% 346,000 3.9% 1,102,100 3.9% 260,400 -0.5% 1,457,400 3.2% 1,162,400 3.5% 231,300 4.3% 203,900 2.8% 1,600,700 3.2%	1,470,000 4.8% 3.4% 177,900 3.3% 3.0% 186,300 1.2% 1.7% 309,700 1.5% 1.5% 978,700 3.5% 3.1% 1,125,700 4.9% 3.3% 346,000 3.9% 3.2% 1,102,100 3.9% 2.8% 260,400 -0.5% -0.5% 1,457,400 3.2% 2.3% 1,162,400 3.5% 2.9% 231,300 4.3% 2.8% 203,900 2.8% 1.6% 1,600,700 3.2% 1.6%

Labor Supply Constraints



The Upside of Labor Shortages

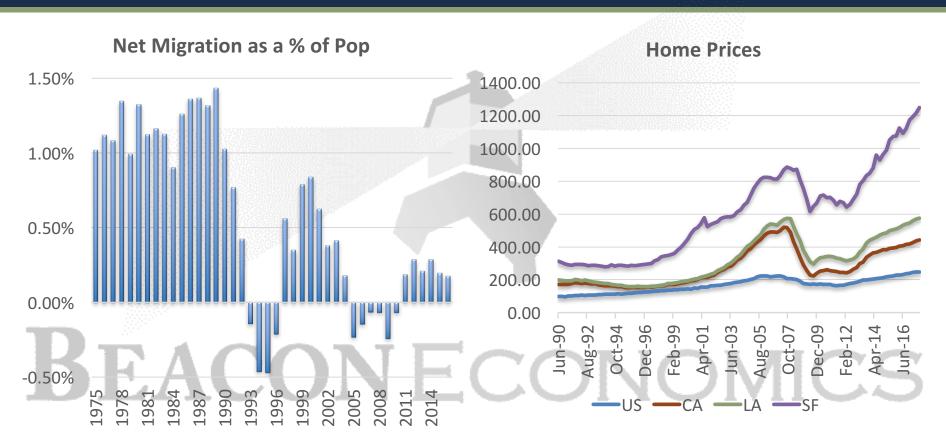
		Median					
	Number	Income	Change	Part Rate	Change	Unemp	Change
	(Mil)	2016	13-16	2016	13-16	2016	13-16
Total	20.96	40,005	10.2%	77.1%	0.2%	5.5%	-3.0%
No High							
School	3.52	21,558	13.1%	65.4%	-0.5%	8.2%	-3.7%
High School	4.26	30,231	10.9%	72.6%	-0.4%	7.0%	-4.0%
Some							
College	6.14	36,985	3.1%	77.4%	0.1%	5.5%	-3.4%
Bachelor	7.03	60,121	9.4%	85.4%	0.4%	3.6%	-1.6%
Graduate		82,271					

Quiz Time

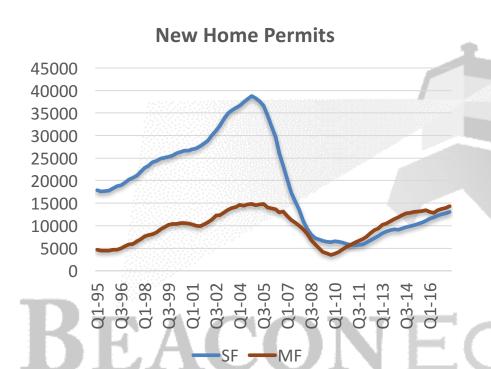
Match the payroll employment growth rate (letters) (1995-2015) to the California region (numbers)

	Α	23.6%	1	Bay Area
	В	25.8%	2	Central Coast
	С	27.0%	3	Greater Los Angeles
	D	33.8%	4	Greater Sacramento
REA	E	39.8%	5	So Central Valley

Don't Go West, Young Man?



New Housing Supply



How Much Housing Needed?

Housing Needed to maintain 2% State Job Growth

Method 1	
Total	722,022
Per Year	206,674
Current	106,185
Shortfall	100,489
Method 2	
Total	911,001
Per Year	263,667
Current	106,185
Shortfall	157,482

Don't Just Focus on Affordable Rentals



Filtering Blockage

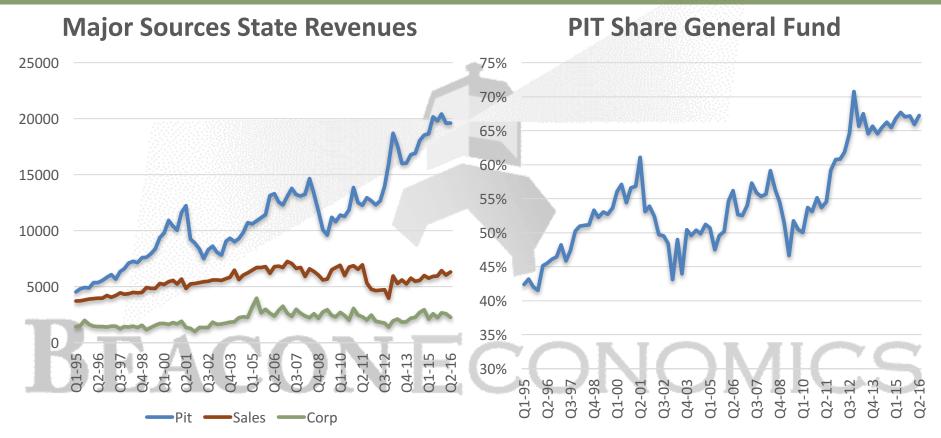
Renters by Income: Struture Built Before 1970						
Metro		Household Income \$35,000 to \$74,999				
San Francisco	26.5%	22.2%	51.2%			
East Bay	31.4%	32.6%	36.0%			
San Diego	35.0%	33.5%	31.5%			
Orange	32.4%	36.3%	31.3%			
Los Angeles	40.2%	31.7%	28.0%			
Houston	45.4%	31.4%	23.2%			
Inland Empire	47.5%	30.7%	21.8%			
Phoenix	50.3%	28.2%	21.5%			
Dallas	46.6%	33.0%	20.4%			

And it isn't just renters...

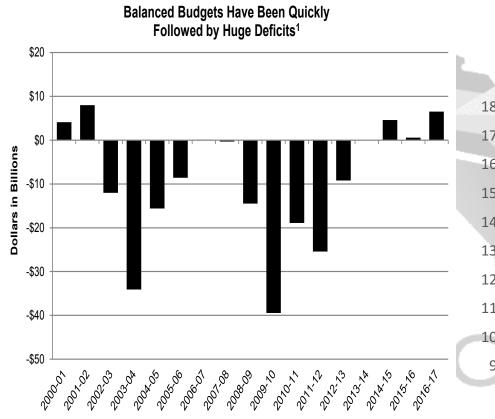
Share with Mortgage Burden >= 30%			
Metro	2005	2010	2015
Los Angeles	50.1	55.3	44.4
San Diego	49.4	51.5	41.3
Inland Empire	46.6	52.2	40.8
San Francisco MD	51.2	51.2	39.8
Orange County	46.5	51.3	39.5
East Bay	49.4	49.7	36.5
Phoenix	33.5	41.0	28.9
Dallas	34.0	32.8	26.8
Houston	33.8	34.7	25.5

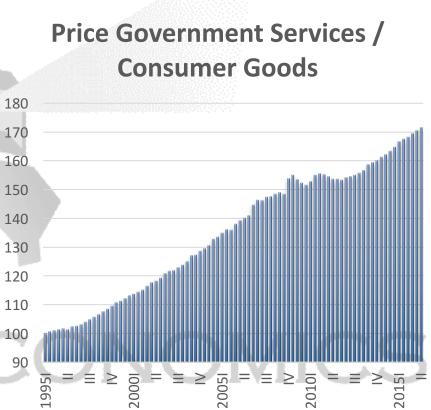
39

Income tax driving the show



Setting up for a problem





The Big Picture

- Positives: It will be a good year
 - GDP Growth Outlook for 2018: 3%
 - State revenues will look positive
 - Labor markets to remain tight, constraining growth
 - Rising wages to put pressure on profits
 - Exports, business investment continue to pick up
 - California housing shortages will constrain growth locally
- Negatives
 - Fed will continue to tighten, yield curve flattening
 - Markets looking frothy—watch debt levels
 - Consumer savings: entering dangerous waters
 - Federal deficit will widen sharply
 - Political uncertainty to dominate headlines

The Great Disconnect

What we are worried about

The Number of Jobs
Who pays for Healthcare
Tax Levels
Income Inequality
Funded Govt. Liabilities
Business Investment
Inflation
The Cost of CA Housing

What we should be worried about

The Number of Workers
What are we paying for?
Tax Structure
Wealth Inequality
Unfunded Govt. Liabilities
A Lack of Public Investment
Slowing Lending
The Supply of CA Housing



- To view or download this presentation or for further information, visit: www.BeaconEcon.com
- Contact Christopher Thornberg Chris@BeaconEcon.com 310-571-3399

BEACON

Our Services



Economic & Revenue Forecasting



Regional Intelligence Reports



Business & Market Analysis



Real Estate Market Analysis



Ports & Infrastructure Analysis



Economic Impact Analysis

Public Policy Analysis

Economic Impact Analyses

- Beacon Economics Background
 - Based in California
 - Beacon Team: 15 on staff, 50+ years of experience
 - Regional Economics: economic impact, forecasting, industry studies, public policy analysis, revenue forecasting
- Universities and Public Agencies
 - California State University, Northridge
 - University of Southern California
 - Loyola Marymount University
 - LA 2024 Olympic Bid Committee
 - Riverside County Transportation Commission
 - Orange County Transportation Authority
 - Metropolitan Water District

NOMICS

Our Approach to Impact Analyses

Economic Impact: Jobs, Spending

- Based on expenditures of all university direct operations along with associated spending (i.e. student expenditures or sporting events)
- Includes primary and multiplier effects
- Impacts can be regionalized and scaled for context
- Fiscal Impact: Public Revenues
 - Tax and fee revenues generated by the economic impact, scaled for context
- Social Impact: Telling the Story
 - All impacts not measured directly by university or associated spending
 - Involves intangibles or holistic impacts
 - Charity efforts of university and students, research spinoffs, student success and contributions to economy, faculty accolades, athletic success, community outreach and development, etc.

