Markets, He Wrote Northeastern Economy and Multifamily Real Estate

On Behalf of

Eastern Lenders Association 2017 Annual Conference

By: Anirban Basu Sage Policy Group, Inc.

February 7th, 2017



Macro P.I.

(Just How Hairy is the Global Situation?)

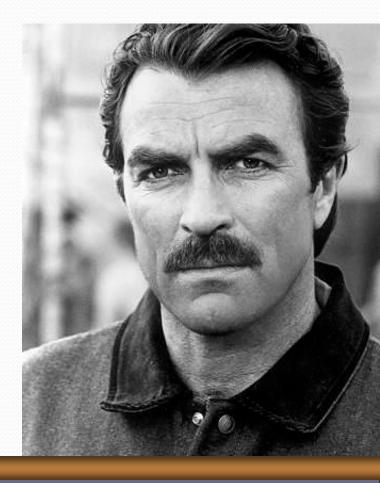
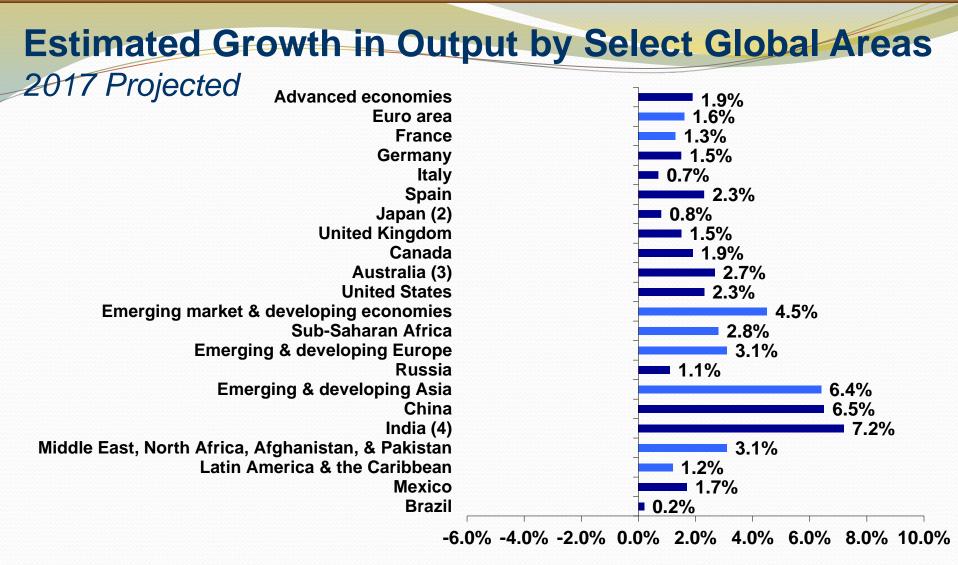




Photo: Flixter.com



2017 Proj. Global Output Growth: 3.4%

Annual % Change

Source: International Monetary Fund: World Economic Outlook Update, January 2017;' World Economic Outlook Database, October 2016.

Notes: 1. Real effective exchange rates are assumed to remain constant at the levels prevailing during November 4-December 2, 2016. Economies are listed on the basis of economic size. The aggregated quarterly data are seasonally adjusted. 2. Japan's historical national accounts figures reflect a comprehensive revision by the national authorities, released in December 2016. The main revisions are the switch from the System of National Accounts 1993 to the System of National Accounts 2008 and the updating of the benchmark year from 2005 to 2011. 3. Australia's projected output growth is from the IMF's October 2016 WEO Database. 4. For India, data and forecasts are presented on a fiscal year basis and GDP from 2011 onward is based on GDP at market prices with FY2011/12 as a base year.



International Population Dynamics, 16 Largest

Nation	Рор	% Change		
	2015	2050	Net Change	70 Change
Nigeria	182.2	398.5	216.3	118.7%
Ethiopia	99.4	188.5	89.1	89.6%
Egypt	91.5	151.1	59.6	65.1%
Pakistan	188.9	309.6	120.7	63.9%
Philippines	100.7	148.3	47.6	47.2%
India	1,311.1	1,705.3	394.3	30.1%
Mexico	127.0	163.8	36.7	28.9%
Bangladesh	161.0	202.2	41.2	25.6%
Indonesia	257.6	322.2	64.7	25.1%
United States	321.8	388.9	67.1	20.9%
Vietnam	93.4	112.8	19.3	20.7%
Brazil	207.8	238.3	30.4	14.6%
China	1,376.0	1,348.1	-28.0	-2.0%
Germany	80.7	74.5	-6.2	-7.7%
Russian Federation	143.5	128.6	-14.9	-10.4%
Japan	126.6	107.4	-19.2	-15.1%
World	7.3 billion	9.7 billion	2.4 billion	32.3%

Source: United Nations, Department of Economic and Social Affairs, Population Division (2015). World Population Prospects: The 2015 Revision.

*For statistical purposes, the data for China do not include Hong Kong and Macao, Special Administrative Regions (SAR) of China, and Taiwan Province of China.



Niamey Vice

(Fertility Rates by Country, 2014)

Top 15				Bottom 15				
Rank*	Country	Fertility Rate	Ra	nk*	Country	Fertility Rate		
1	Niger	7.60	18	86	Germany	1.39		
2	Somalia	6.46	18	86	Italy	1.39		
3	Mali	6.23	18	88	Malta	1.38		
4	Chad	6.16	18	89	Hungary	1.35		
5	Angola	6.08	19)0	Slovak Republic	1.34		
6	Congo, Dem. Rep.	6.01	10)1	Greece	1.30		
7	Burundi	5.95	19)2	Poland	1.29		
8	Uganda	5.78	19)3	Spain	1.27		
9	Gambia, The	5.72	19	94	Bosnia and Herzegovina	1.26		
10	Nigeria	5.65	19	94	Moldova	1.26		
11	Burkina Faso	5.52	19	6	Singapore	1.25		
12	Mozambique	5.36	19	97	Macao SAR, China	1.24		
13	Zambia	5.35	19)8	Hong Kong SAR, China	1.23		
14	Tanzania	5.15	20	00	Portugal	1.21		
15	Malawi	5.13	20	00	Korea, Rep.	1.21		

Source: World Bank, World Development Indicators

*Rank among 200 countries for which data are available for the most recent year (2014) **Total fertility rate represents the number of children that would be born to a woman if she were to live to the end of her childbearing years and bear children in accordance with age-specific fertility rates of the specified year.



Niamey, Niger



Photo: Supporters of incumbent President Mahamadou Issoufou cheer at a campaign rally in Niamey on February 18, 2016. Joe Penney/REUTERS.



Global Debt to Exacerbate Slow Growth?

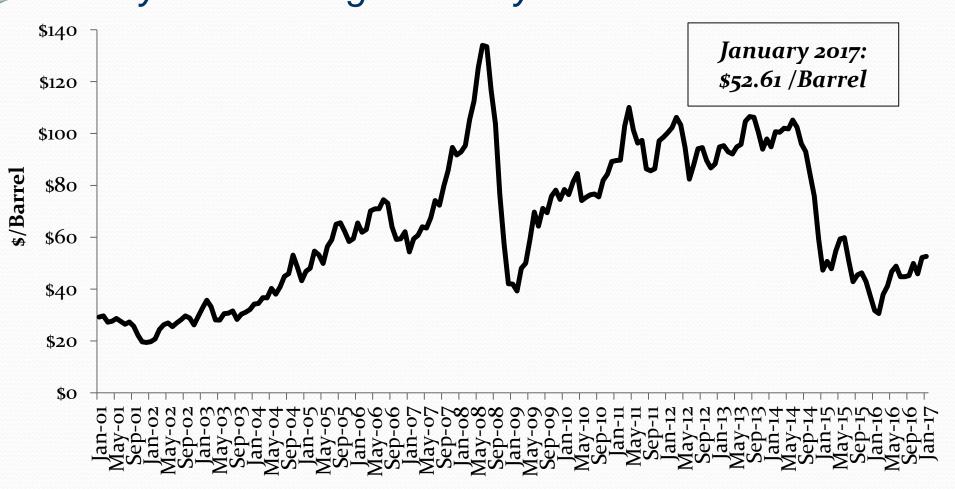
- According to the IMF, global debt reached an **all-time high** in 2015;
- At **\$152 trillion**, global gross debt of the nonfinancial sector now represents **225% of global GDP**;
- About 2/3 of this debt is in the **private sector**;
- Current low nominal-growth environment is making adjustment difficult, setting the stage for a "vicious feedback loop" in which lower growth hampers deleveraging and the debt overhang exacerbates the slowdown.²

Sources: 1. International Monetary Fund. October 2016. "World Economic Outlook: Subdued Demand: Symptoms and Remedies." 2. International Monetary Fund (IMF). October 2016. "Fiscal Monitor: Debt—Use It Wisely."

Note: The nonfinancial sector comprises the general government, nonfinancial firms, and households. Gross debt represents the unconsolidated liabilities of the three.



NYMEX Crude Oil Future Prices in U.S. Dollars January 2001 through January 2017

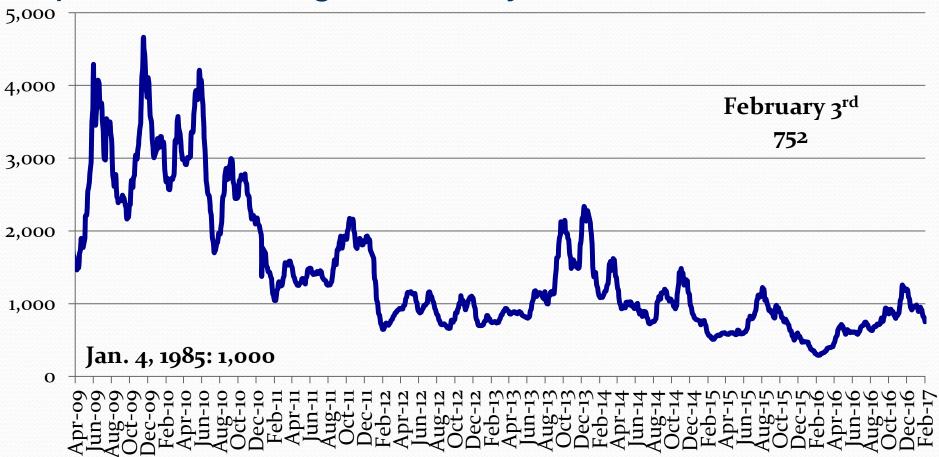


Source: U.S. Energy Information Administration



*Month of January = average of daily prices from 1/3-1/31

Baltic Dry Index April 2009 through February 2017



Source: Quandl.com

The Baltic Dry Index (BDI) is a measure of the price of shipping major raw materials such as metals, grains, and fossil fuels by sea. The BDI is a composite of 3 sub-indices, each covering a different carrier size: Capesize, Panamax, and Supramax.



USA CSI

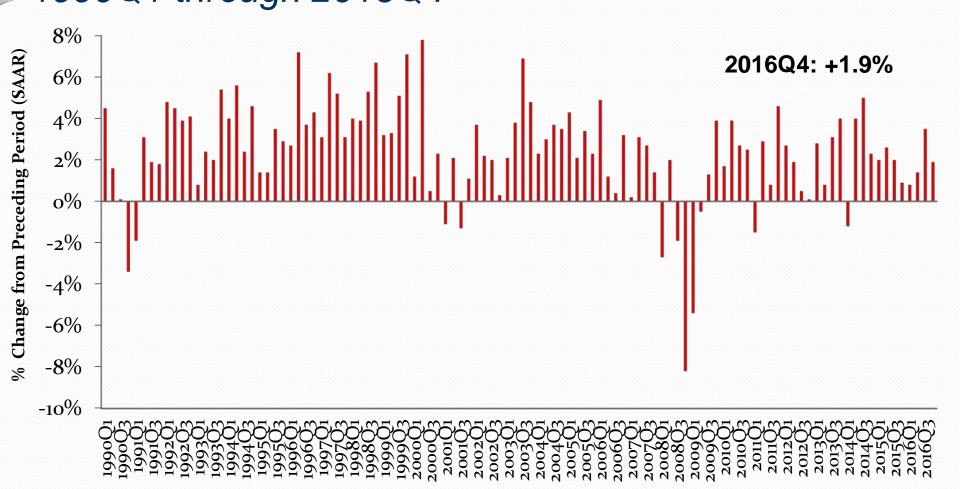


(Commercial Situation Investigation)

Photo: AMCNetworks.com



Gross Domestic Product 1990Q1 through 2016Q4*

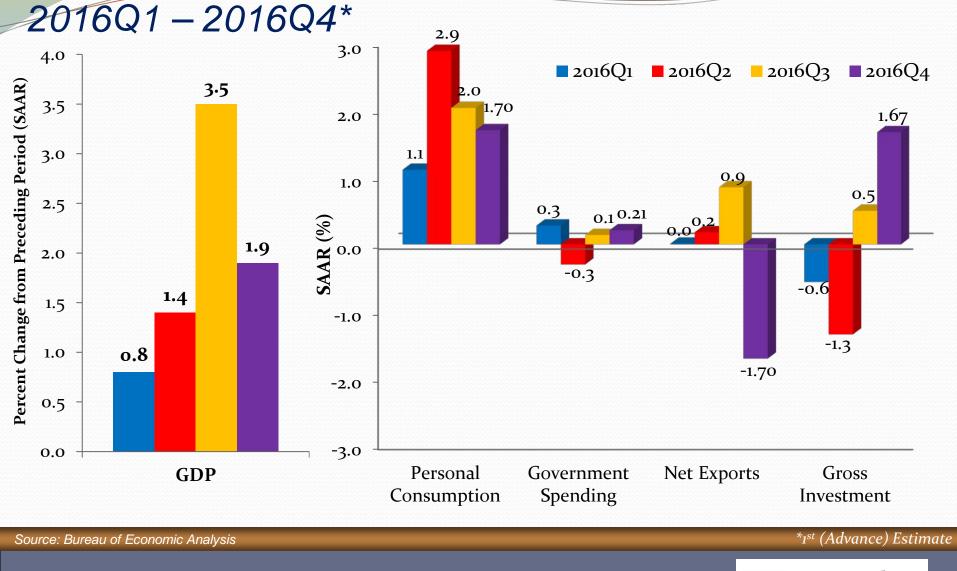


Source: Bureau of Economic Analysis

*1st (Advance) Estimate



Contributions to GDP Growth by Component



2016Q4: +1.9%

Sage Policy Group, Inc.



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Source: U.S. Bureau of Labor Statistics

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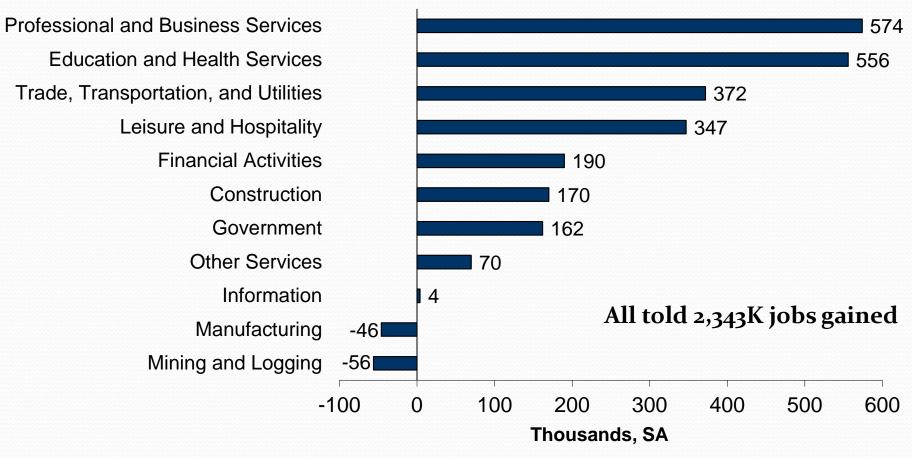
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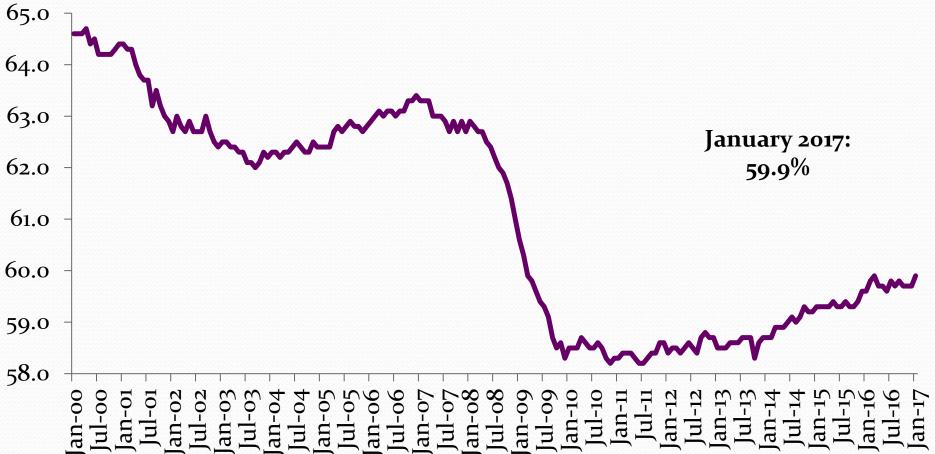
National Nonfarm Employment

by Industry Sector January 2016 v. January 2017





U.S. Employment to Population Ratio January 2000 – January 2017



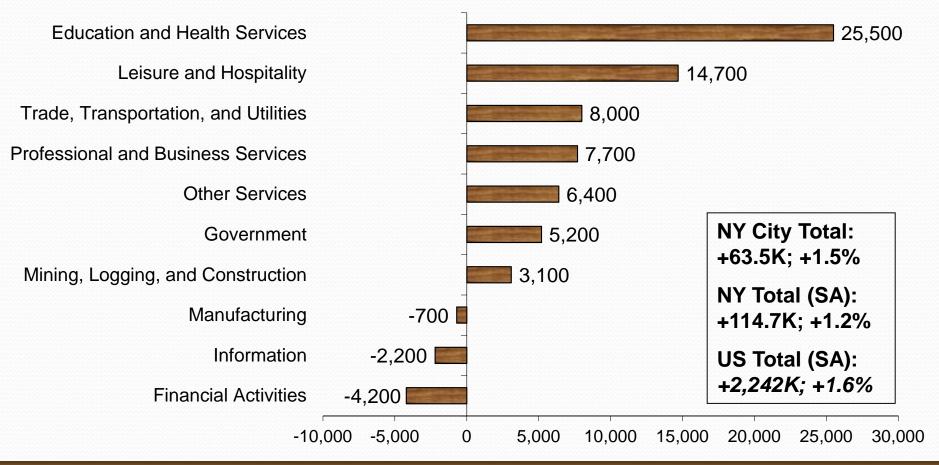
Source: U.S. Bureau of Labor Statistics

Note: Civilian employment-population ratio, population 16 years and over, seasonally adjusted (SA).



New York City Nonfarm Employment

by Industry Sector Groups (NSA) December 2015 v. December 2016 Absolute Change

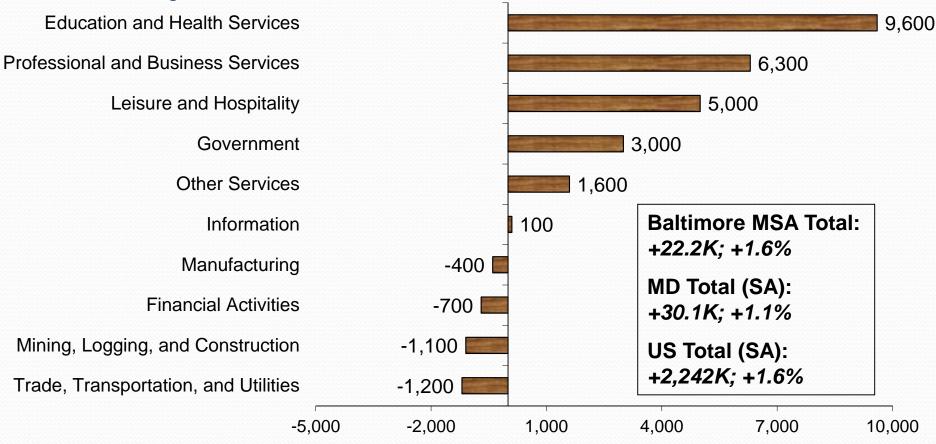




Source: U.S. Bureau of Labor Statistics

Baltimore-Columbia-Towson MSA Nonfarm Employment

by Industry Sector Groups (NSA) December 2015 v. December 2016 Absolute Change

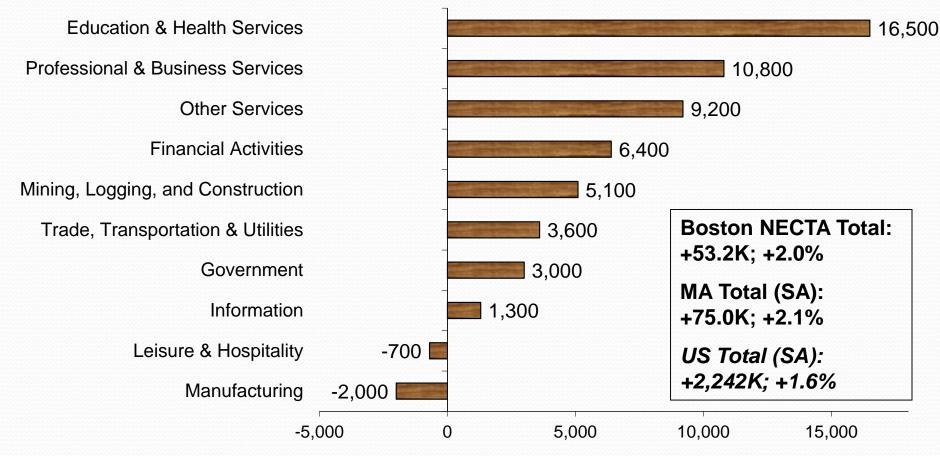


Source: U.S. Bureau of Labor Statistics



Boston-Cambridge-Quincy MA-NH NECTA Nonfarm Employment

by Industry Sector Groups (NSA) December 2015 v. December 2016 Absolute Change



Source: U.S. Bureau of Labor Statistics

*NECTA: New England City and Town Area



Employment Growth, U.S. States (SA)

December 2015 v. December 2016 Percent Change

Rank	State	%	RANK	State	%	Rank	State	%
1	OREGON	3.3	16	SOUTH CAROLINA	1.7	35	DELAWARE	0.5
2	FLORIDA	3.1	19	TENNESSEE	1.6	35	ILLINOIS	0.5
3	NEVADA	3.0	20	MINNESOTA	1.5	35	IOWA	0.5
3	WASHINGTON	3.0	21	SOUTH DAKOTA	1.4	35	PENNSYLVANIA	0.5
5	UTAH	2.8	22	ARIZONA	1.3	39	ARKANSAS	0.4
6	GEORGIA	2.4	22	VIRGINIA	1.3	40	NEW JERSEY	0.3
7	DISTRICT OF COLUMBIA	2.3	24	NEW YORK	1.2	40	NEW MEXICO	0.3
7	MISSOURI	2.3	25	MARYLAND	1.1	40	WEST VIRGINIA	0.3
9	HAWAII	2.1	26	ALABAMA	1.0	43	MAINE	0.0
9	MASSACHUSETTS	2.1	26	WISCONSIN	1.0	44	CONNECTICUT	-0.1
11	CALIFORNIA	2.0	28	MONTANA	0.9	45	LOUISIANA	-0.2
11	NORTH CAROLINA	2.0	29	INDIANA	0.8	46	OKLAHOMA	-0.3
13	COLORADO	1.9	29	ОНЮ	0.8	47	KANSAS	-0.7
13	IDAHO	1.9	31	NEBRASKA	0.7	48	MISSISSIPPI	-1.0
15	TEXAS	1.8	31	RHODE ISLAND	0.7	49	ALASKA	-1.4
16	MICHIGAN	1.7	31	VERMONT	0.7	50	NORTH DAKOTA	-1.8
16	NEW HAMPSHIRE	1.7	34	KENTUCKY	0.6	51	WYOMING	-2.8

Source: U.S. Bureau of Labor Statistics

U.S. Year-over-year Percent Change: +1.6%



Employment Growth, 24 Largest Metros (NSA)

December 2015 v. December 2016 Percent Change

Rank	MSA	%	Rank	MSA	%		
1	Orlando-Kissimmee-Sanford, FL MSA	4.2	12	San Diego-Carlsbad, CA MSA	2.0		
2	Seattle-Tacoma-Bellevue, WA MSA	3.4	12	San Francisco-Oakland-Hayward, CA MSA	2.0		
3	Dallas-Fort Worth-Arlington, TX MSA	3.3	15	Charlotte-Concord-Gastonia, NC-SC MSA	1.7		
4	Denver-Aurora-Lakewood, CO MSA	3.2	15	Detroit-Warren-Dearborn, MI MSA	1.7		
1 h	Riverside-San Bernardino-Ontario, CA MSA	2.9	17	Baltimore-Columbia-Towson, MD MSA	1.6		
6	Atlanta-Sandy Springs-Roswell, GA MSA	2.7	18	Los Angeles-Long Beach-Anaheim, CA MSA	1.5		
7	St. Louis, MO-IL MSA (1)	2.5	1 19	Minneapolis-St. Paul-Bloomington, MN-WI MSA	1.4		
	Miami-Fort Lauderdale-West Palm Beach, FL MSA	2.4		Philadelphia-Camden-Wilmington, PA-NJ-DE-MD MSA	1.4		
9	Portland-Vancouver-Hillsboro, OR-WA MSA	2.2	19	Phoenix-Mesa-Scottsdale, AZ MSA	1.4		
9	Tampa-St. Petersburg-Clearwater, FL MSA	2.2	111	New York-Newark-Jersey City, NY- NJ-PA MSA	1.3		
	Washington-Arlington-Alexandria, DC-VA-MD-WV MSA	2.1	23	Chicago-Naperville-Elgin, IL-IN-WI MSA	0.7		
	Boston-Cambridge-Nashua, MA-NH Metro NECTA	2.0	1 /4	Houston-The Woodlands-Sugar Land, TX MSA	0.5		
Source: U.S. Bureau of Labor Statistics							





Unemployment Rates, 24 Largest Metros (NSA)

December 2016

	20020020000			
< MSA		Rank	MSA	UR
Boston-Cambridge-Nashua, MA-NH Metro NECTA	2.5	13	Orlando-Kissimmee-Sanford, FL MSA	4.2
Denver-Aurora-Lakewood, CO MSA	2.6	13	San Diego-Carlsbad, CA MSA	4.2
Washington-Arlington-Alexandria, DC-VA-MD-WV MSA		1 15	Los Angeles-Long Beach-Anaheim, CA MSA	4.4
San Francisco-Oakland-Hayward, CA MSA	3.4		•	4.4
Minneapolis-St. Paul-Bloomington, MN-WI MSA	3.6	17	Tampa-St. Petersburg-Clearwater, FL MSA	4.5
Dallas-Fort Worth-Arlington, TX MSA	3.7	18	Charlotte-Concord-Gastonia, NC-SC MSA	4.6
Baltimore-Columbia-Towson, MD MSA	4.0	19	Detroit-Warren-Dearborn, MI MSA	4.8
Portland-Vancouver-Hillsboro, OR-WA MSA	4.0	1 20		4.9
Seattle-Tacoma-Bellevue, WA MSA	4.0	21	Atlanta-Sandy Springs-Roswell, GA MSA	5.0
St. Louis, MO-IL MSA (1)	4.0	1 //	Riverside-San Bernardino-Ontario, CA MSA	5.2
New York-Newark-Jersey City, NY- NJ-PA MSA	4.1	1 13	O	5.3
Phoenix-Mesa-Scottsdale, AZ MSA	4.1	24	Chicago-Naperville-Elgin, IL-IN-WI MSA	5.4
	Boston-Cambridge-Nashua, MA-NH Metro NECTA Denver-Aurora-Lakewood, CO MSA Washington-Arlington-Alexandria, DC-VA-MD-WV MSA San Francisco-Oakland-Hayward, CA MSA Minneapolis-St. Paul-Bloomington, MN-WI MSA Dallas-Fort Worth-Arlington, TX MSA Baltimore-Columbia-Towson, MD MSA Portland-Vancouver-Hillsboro, OR-WA MSA Seattle-Tacoma-Bellevue, WA MSA St. Louis, MO-IL MSA (1) New York-Newark-Jersey City, NY-	Boston-Cambridge-Nashua, MA-NH Metro NECTA2.5Denver-Aurora-Lakewood, CO MSA2.6Washington-Arlington-Alexandria, DC-VA-MD-WV MSA3.4San Francisco-Oakland-Hayward, CA MSA3.4San Francisco-Oakland-Hayward, CA MSA3.4Minneapolis-St. Paul-Bloomington, MN-WI MSA3.6Dallas-Fort Worth-Arlington, TX MSA3.7Baltimore-Columbia-Towson, MD MSA4.0Portland-Vancouver-Hillsboro, OR-WA MSA4.0St. Louis, MO-IL MSA (1)4.0New York-Newark-Jersey City, NY- NJ-PA MSA4.1	Boston-Cambridge-Nashua, MA-NH Metro NECTA2.513Denver-Aurora-Lakewood, CO MSA2.613Washington-Arlington-Alexandria, DC-VA-MD-WV MSA3.415San Francisco-Oakland-Hayward, CA MSA3.415Minneapolis-St. Paul-Bloomington, MN-WI MSA3.617Dallas-Fort Worth-Arlington, TX MSA3.718Baltimore-Columbia-Towson, MD MSA4.019Portland-Vancouver-Hillsboro, OR-WA MSA4.020Seattle-Tacoma-Bellevue, WA MSA4.021St. Louis, MO-IL MSA (1)4.022New York-Newark-Jersey City, NY- NJ-PA MSA4.123	Boston-Cambridge-Nashua, MA-NH Metro NECTA2.513Orlando-Kissimmee-Sanford, FL MSADenver-Aurora-Lakewood, CO MSA2.613San Diego-Carlsbad, CA MSAWashington-Arlington-Alexandria, DC-VA-MD-WV MSA3.415Los Angeles-Long Beach-Anaheim, CA MSASan Francisco-Oakland-Hayward, CA MSA3.415Philadelphia-Camden-Wilmington, MSAMinneapolis-St. Paul-Bloomington, MN-WI MSA3.617Tampa-St. Petersburg-Clearwater, FL MSADallas-Fort Worth-Arlington, TX MSA3.718Charlotte-Concord-Gastonia, NC-SC MSABaltimore-Columbia-Towson, MD MSA4.019Detroit-Warren-Dearborn, MI MSAPortland-Vancouver-Hillsboro, OR-WA MSA4.020Miami-Fort Lauderdale-West Palm Beach, FL MSASt. Louis, MO-IL MSA (1)4.022Riverside-San Bernardino-Ontario, CA MSANew York-Newark-Jersey City, NY- NJ-PA MSA4.123Houston-The Woodlands-Sugar Land, TX MSA

Source: U.S. Bureau of Labor Statistics

1. Area boundaries do not reflect official OMB definitions.

U.S. Unemployment Rate December 2016: 4.7% January 2017: 4.8%



21 Jump Street

(And Other Addresses of Interest)

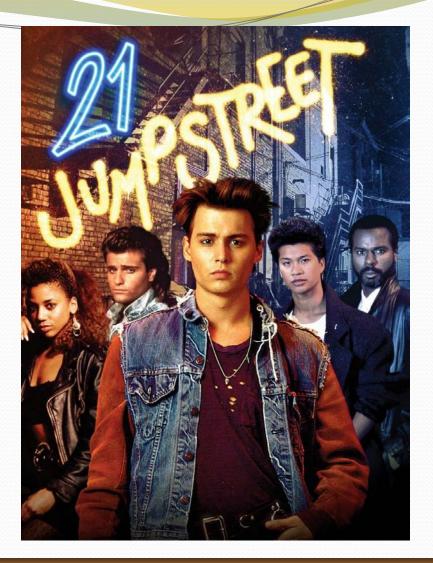
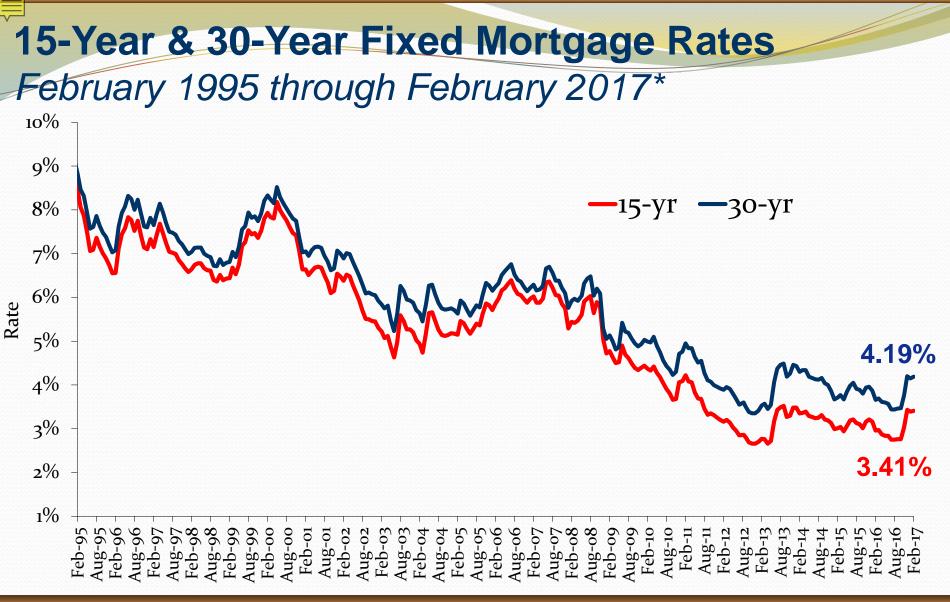




Photo: TheMoveDatabase.org

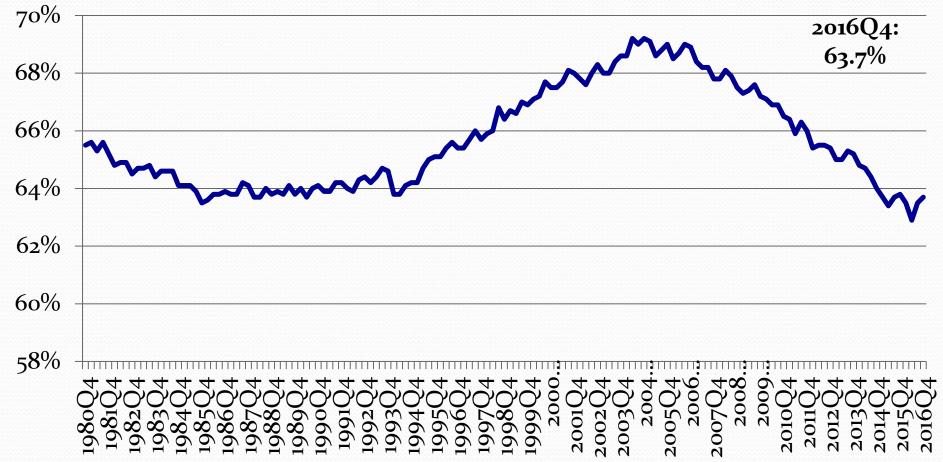


Source: Freddie Mac

*Week ending 2/2/2017



U.S. Homeownership (NSA) 1980Q4-2016Q4

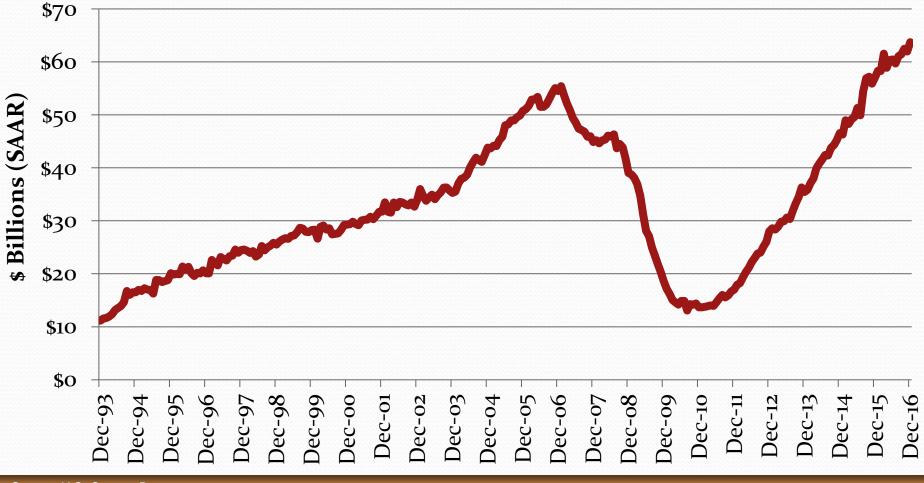


Source: U.S. Census Bureau

*NSA: not seasonally adjusted



U.S. Private New Multifamily Construction December 1993 through December 2016

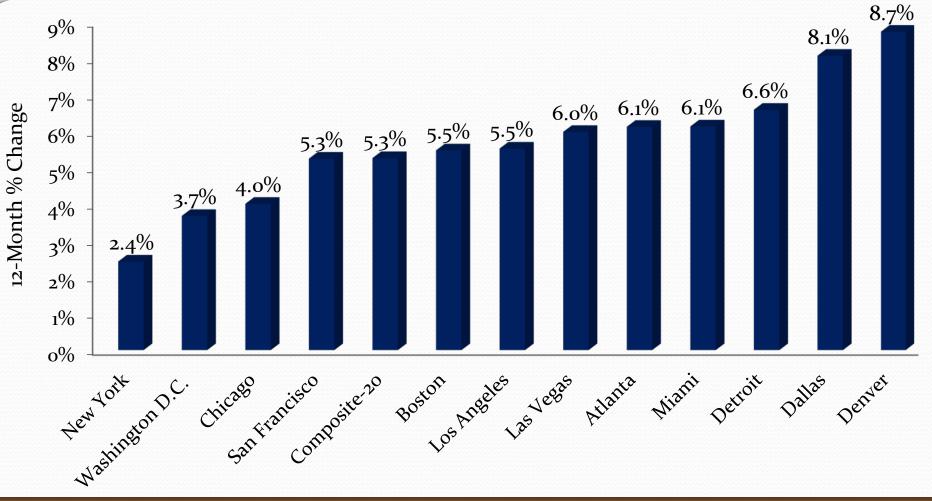




Source: U.S. Census Bureau

S&P/Case-Shiller Home Price Indices for Select Metros

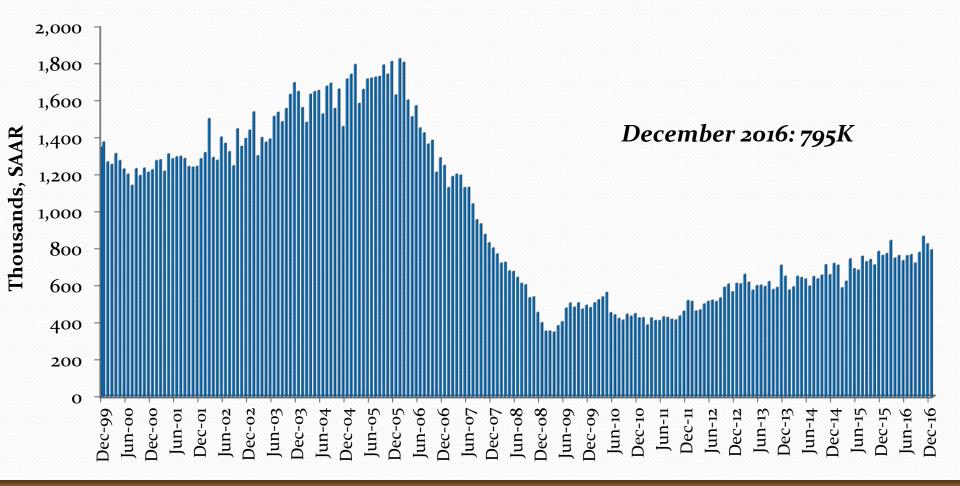
November 2016, 12-Month Percentage Change



Source: Standard & Poor's



U.S. Single-Family Housing Starts December 1999 through December 2016



Source: U.S. Census Bureau



Down to "The Wire"

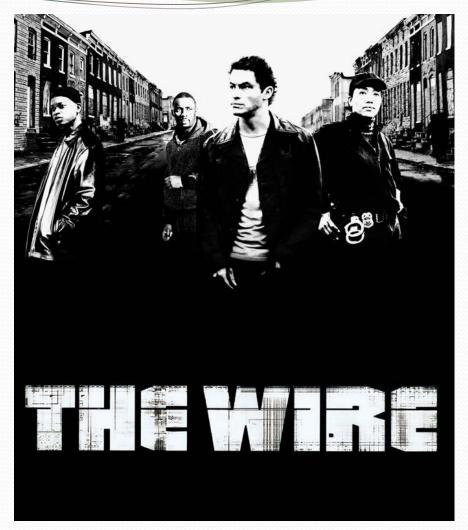


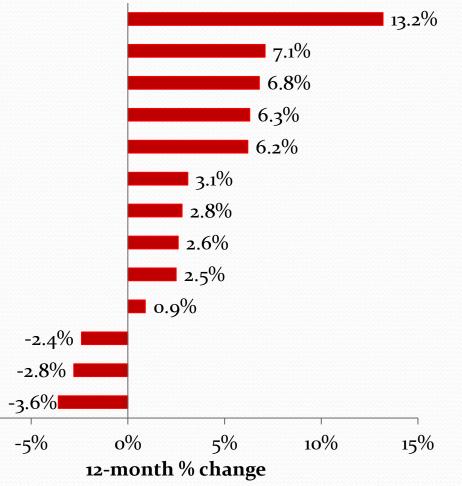


Photo: RecapGuide.com

Sales Growth by Type of Business December 2015 v. December 2016*

Internet, etc. Retailers **Miscellaneous Store Retailers** Motor Vehicle & Parts Dealers **Gasoline Stations** Health & Personal Care Stores Furniture & Home Furn, Stores Food Services & Drinking Places **Building Material & Garden Supplies Dealers** Food & Beverage Stores Clothing & Clothing Accessories Stores **Electronics & Appliance Stores General Merchandise Stores** Sporting Goods, Hobby, Book & Music Stores

Source: U.S. Census Bureau



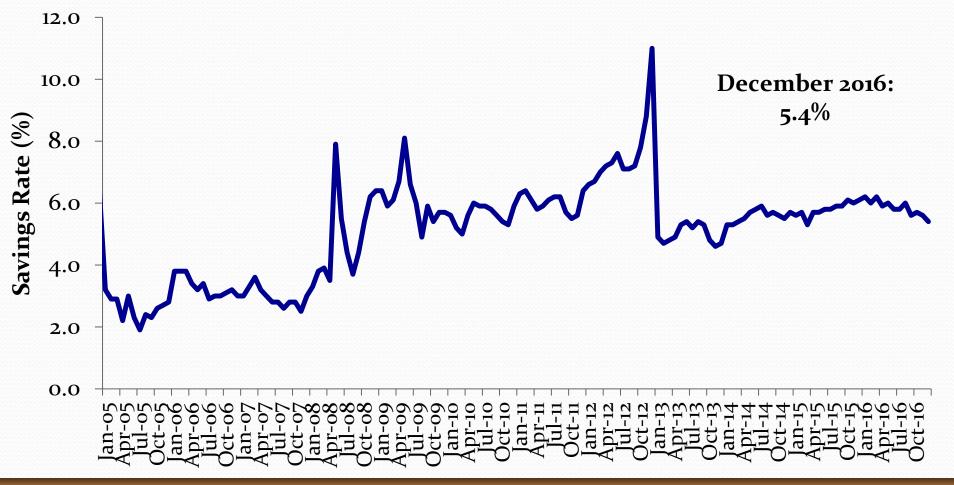
*December 2016 advanced estimate



Total Retail Sales: +4.1% YOY

-10%

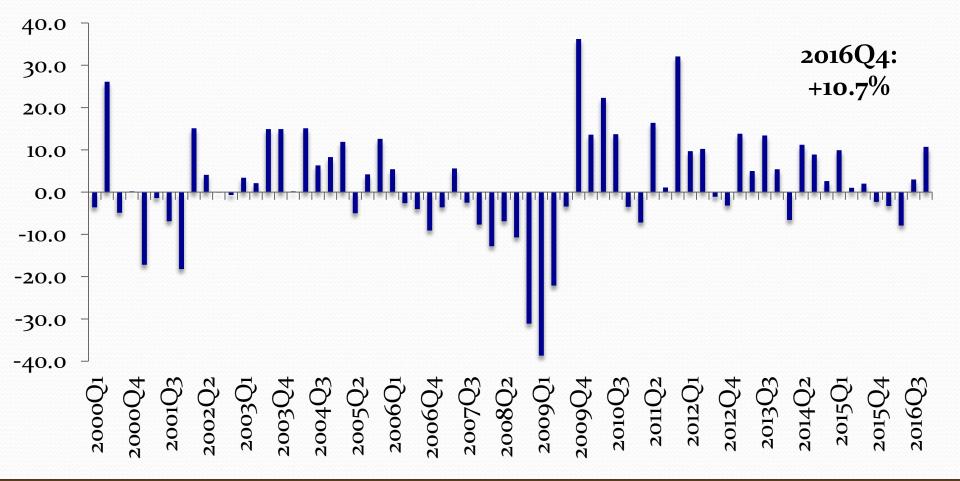
U.S. Saving Rate, January 2005 – December 2016 (Savings as Percentage of Personal Disposable Income)



Source: Bureau of Economic Analysis



U.S. Gross Private Domestic Investment (SAAR) % Change from Previous Quarter, 2000Q1 – 2016Q4*



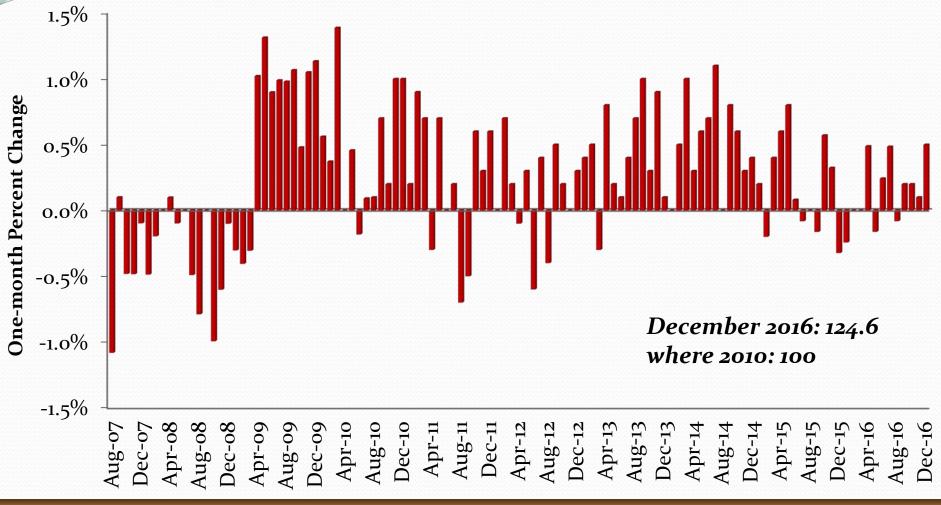
Source: Bureau of Economic Analysis

*1st (Advance) Estimate



Conference Board Leading Economic Indicators Index





Source: Conference Board



The Closer

- Global economy remains weak, and correspondingly . . . ;
- Global money has continued to pour into America in search of yield and safety, including into commercial real estate – that was particularly true in 2015, a bit less true in 2016;
- Inflationary pressures are on the rise – so, too, are interest rates – that could begin to squeeze asset prices in 2017, particularly if expected tax cuts are not passed into law;

- There are indications of minibubbles forming in commercial real estate, particularly in office, lodging and multifamily segments;
- But tax cuts, stimulus, and more defense spending should see us through 2017-18;
- There are also longer-term structural considerations, including the national debt and pending insolvencies of Medicare and Social Security – the longerterm outlook may be deteriorating even as the short-run improves;
- 2017 shaping up to be solid, but beyond 2018, we may have some issues . . .





Thank You

- Follow us on Twitter @SagePolicyGroup
- You can always reach me at <u>abasu@sagepolicy.com</u>
- Please look for updates of information at <u>www.sagepolicy.com</u>.
- Also, if you need us in a hurry, we are at 410.522.7243 (410.522.SAGE)
- Please contact us when you require economic research & policy analysis.

