

# Quarterly Economic & Market Update 3rd Quarter 2016

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Our sole mission is to provide wealth sustainability for individuals, families, endowments, foundations, and retirement plans through the implementation of our 3-D Endowment Investment Philosophy.

## Important Information

The views and opinions expressed are those of the speaker and are subject to change based on factors such as market and economic conditions. These views and opinions are not an offer to buy a particular security and should not be relied upon as investment advice. Past performance cannot guarantee comparable future results.



## Important Information

Performance quoted is past performance and cannot guarantee comparable future results; current performance may be higher or lower.

Results shown assume the reinvestment of dividends.

An investment cannot be made directly in an index.

Investments with higher return potential carry greater risk for loss.

Investing in small companies involves greater risks not associated with investing in more established companies, such as business risk, significant stock price fluctuations and illiquidity.

Foreign securities have additional risks, including exchange rate changes, political and economic upheaval, the relative lack of information about these companies, relatively low market liquidity and the potential lack of strict financial and accounting controls and standards.

Investing in emerging markets involves greater risk than investing in more established markets such as risks relating to the relatively smaller size and lesser liquidity of these markets, high inflation rates, adverse political developments and lack of timely information.

Fluctuations in the price of gold and precious metals often dramatically affect the profitability of the companies in the gold and precious metals sector. Changes in political or economic climate for the two largest gold producers, South Africa and the former Soviet Union, may have a direct effect on the price of gold worldwide.



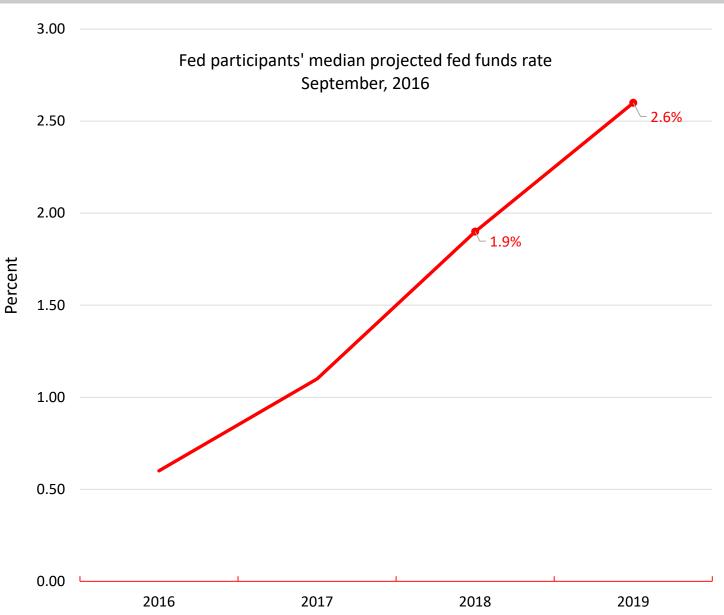


## Fed policy

- twin mandate points to continued dovish policy
- the Fed manages the yield curve
- > the Fed has created every recession since the 1950s
- the Fed is constrained by ECB policy
- first rate hikes have signaled stock market strength

## Fed funds rate – projected "normalization"



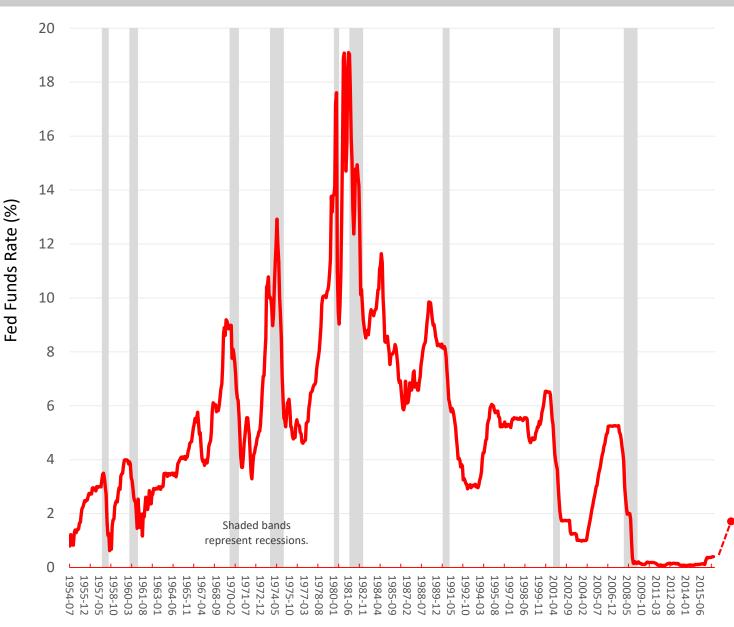


"Our ability to predict how the federal funds rate will evolve over time is quite limited because monetary policy will need to respond to whatever disturbances might buffet the economy."

Chair Janet Yellen Jackson Hole August 26, 2016

### Fed funds rate





The Fed's median fed funds rate forecast of 1.9% at year-end 2018 (previous chart) is very low by historic comparison.

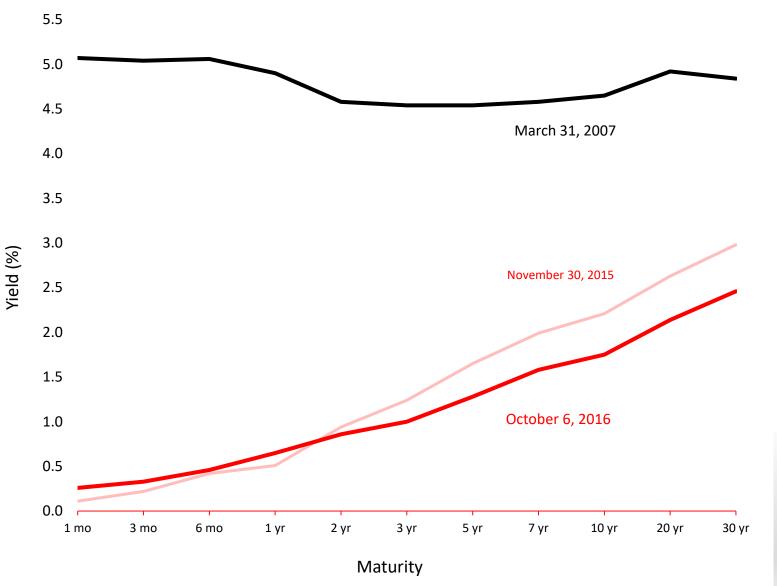
That's because the Fed believes the "natural rate of interest" is probably just 0.4%, down from 2.3% in 2007 and 3.5% in 1990.

The fed funds rate should equal the natural rate plus inflation, or 0.4% + 1.5% = 1.9%.

1.9% in 2018, median projection previous chart

## Fed's key policy lever is the yield curve





This is an inverted (negative) yield curve resulting from the Fed's raising the Fed Funds target rate (1 mo. maturity) to 5.23%.

Today's is a positive yield curve resulting from the Fed's pushing the Fed Funds target rate down to 0.4%.

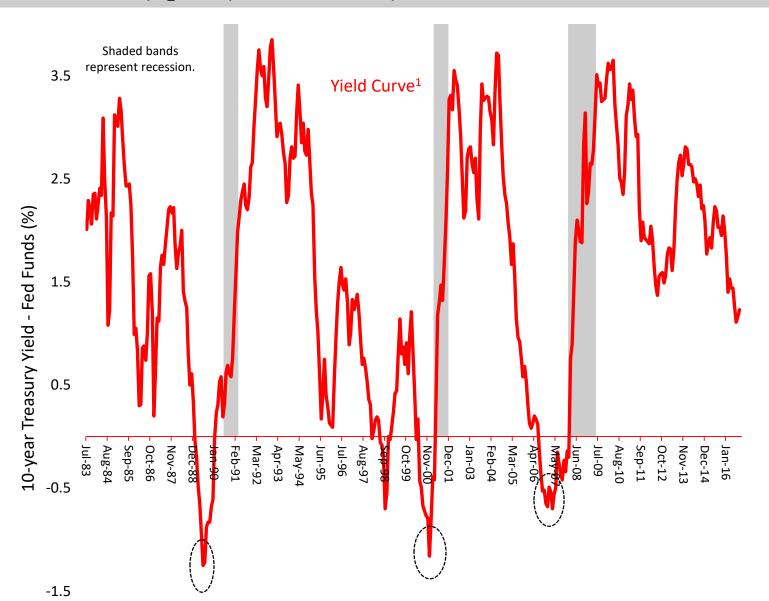
Yield Curve, n. A measure of interest rates on bonds at various maturities; predicting where the yield curve is headed is about as easy as forecasting exactly where a fistful of feathers will land in a hurricane.<sup>1</sup>

Source: U.S. Department of the Treasury.

<sup>&</sup>lt;sup>1</sup>Jason Zweig, *The Devil's Financial Dictionary* (New York, NY: PublicAffairs™, 2015), 229-230.

## Fed's key policy lever is the yield curve





Steep yield curves – high bond yields compared to Fed Funds rates – are consistent with strong GDP growth.

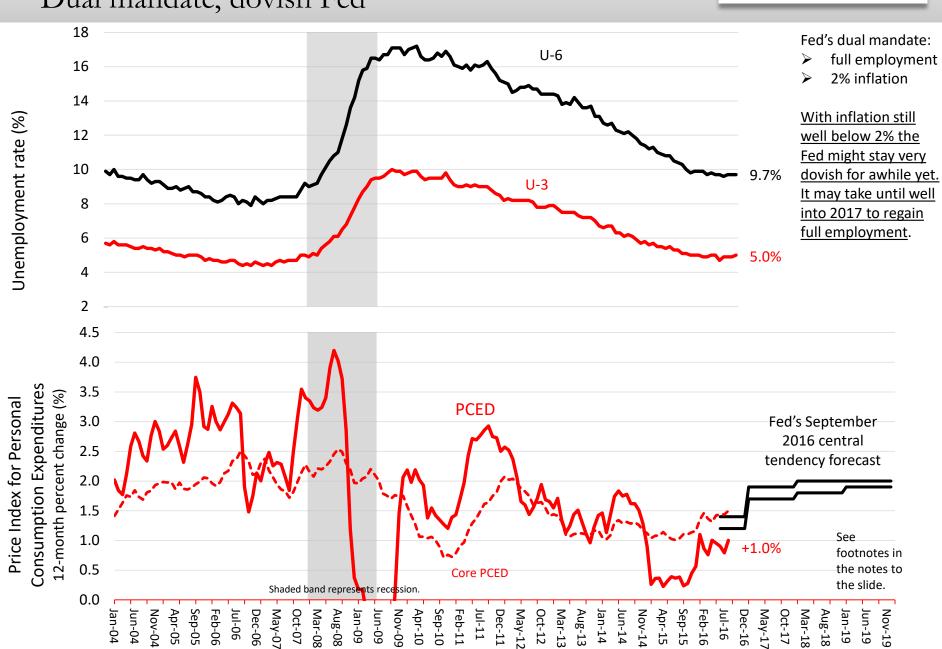
Flat or negative yield curves have preceded recessions.

Today the yield curve is positive but less than half as steep as immediately post-recession.

The Fed has been saying that rate hikes are likely to be very gradual from here.

## Dual mandate, dovish Fed

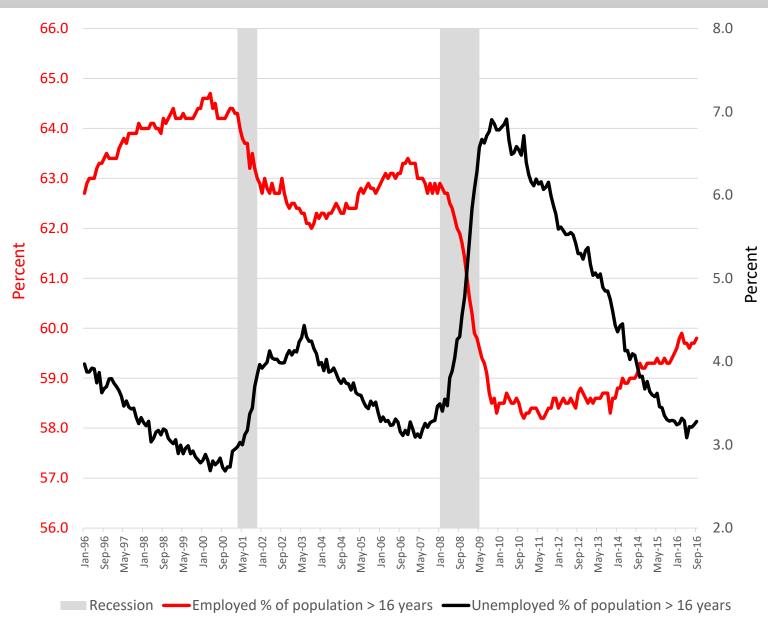




### Economic data - jobs

### Employed and unemployed as a % of population 16 and older





The red line,
number of
employed as a
percent of
employable age, is
the key to Fed
policy. Not the black
line, the percent of
unemployed.

There is a lot more room for cyclical recovery.



## **Bond Yields**

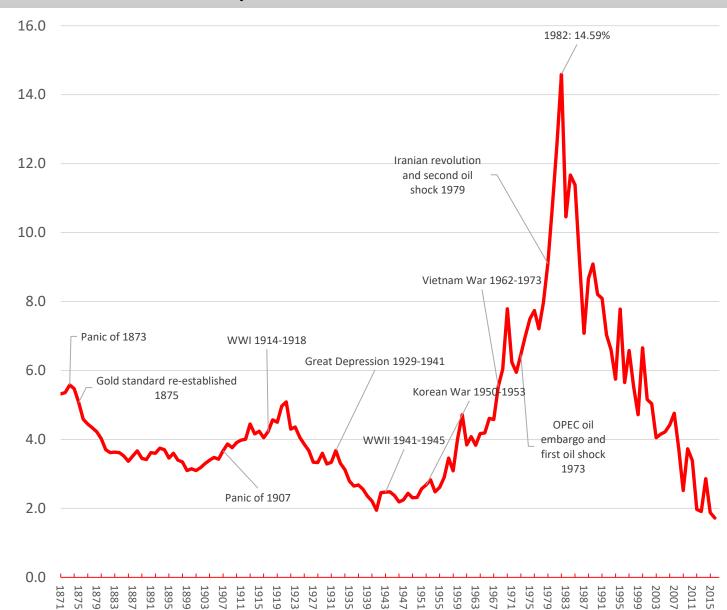
- lowest yields in history
- forecasts have grossly missed
- forecast for steady rise to 3.35%
- pressure on yields from declining federal deficit
- pressure on yields from ECB's QE capping euro bond yields
- value in munis

### Bond yields

Long-term interest rates (%)

## All-time low bond yields



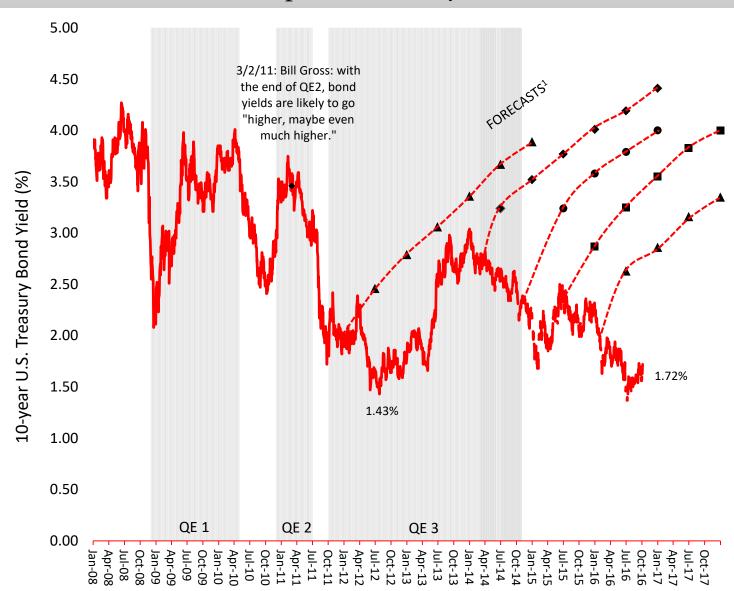


Lowest long-term interest rates in U.S. history.

### Bond yields

## Much lower than expected bond yields





Forecasts have been consistently and horribly wrong.

Where yields go from here depends on the inflation data and supply and demand for bonds.

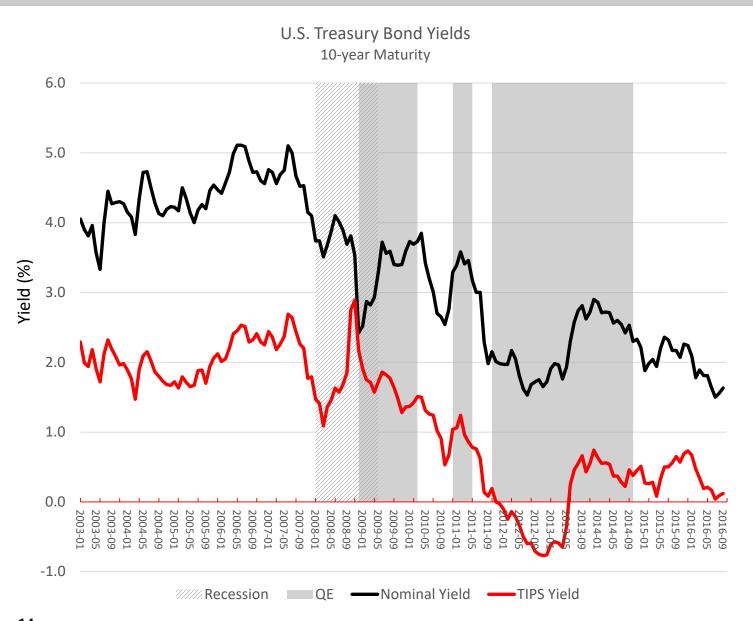
Inflation is low and apt to remain so. The rate of net new supply of U.S
Treasury bonds will be close to flat. The ECB is in the driver's seat with its QE.

Source: Federal Reserve. Data through October 5, 2016.

<sup>&</sup>lt;sup>1</sup> Average of economists' forecasts from *The Wall Street Journal* 's monthly surveys taken November 2011, January 2014, September 2014, January 2015 and December 2015.

## U.S. Treasury bond yields – nominal and TIPS





However, bond yields no longer make sense fundamentally. With the 10-year TIPS yield at almost 0% an investor is receiving zero term premium for making a 10-year loan to Uncle Sam.

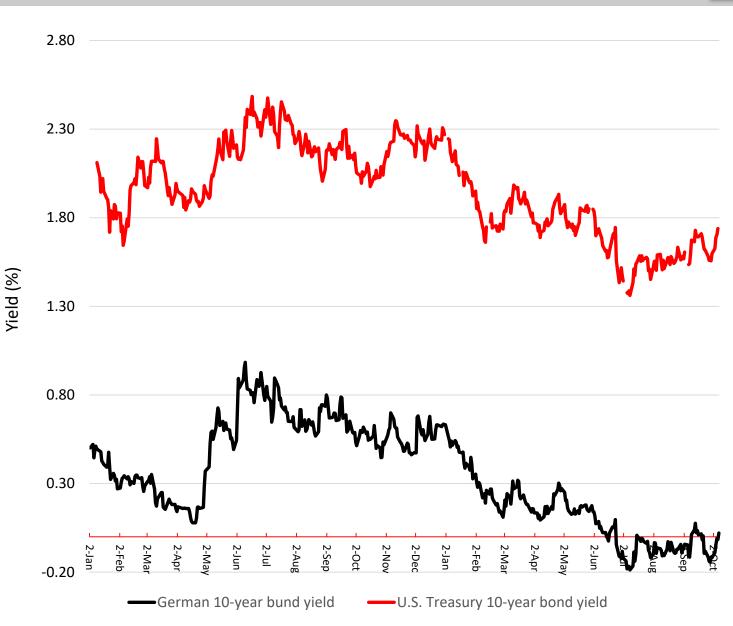
Quantitative easing (QE) has driven bond yields steadily lower.

Although the Federal Reserve is no longer purchasing bonds (QE), the ECB is, having a like effect on U.S. bond yields.

See next chart.

## U.S. Treasury bond yield vs. German bund yield





Yields moving in lockstep.

The ECB is in control of U.S. Treasury yields.

The ECB plans to continue their QE program until further notice.

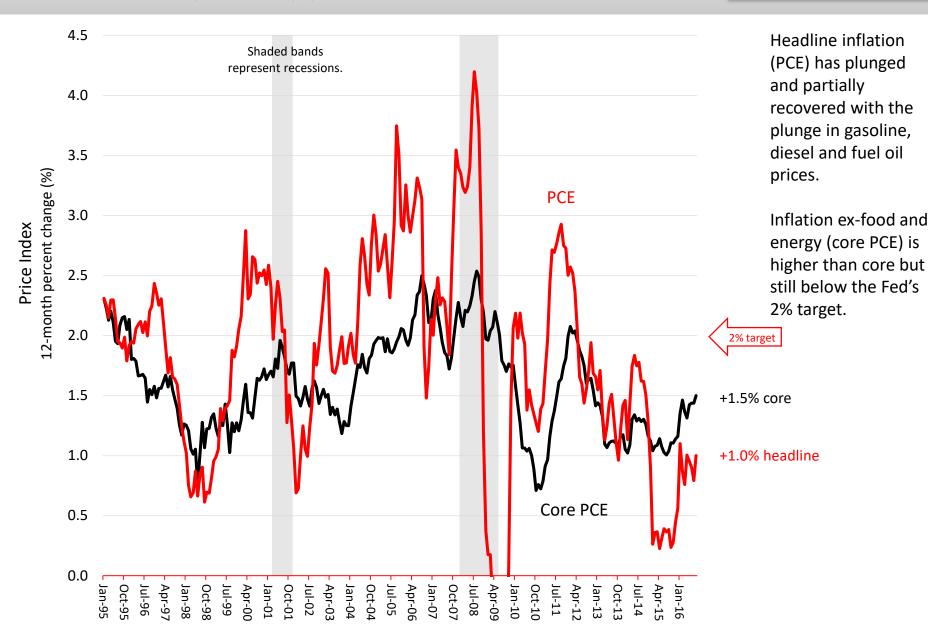


## Inflation

- ➤ PCED headline +1.0%, more in the core but still far from the Fed's +2% target
- employment costs steady and still tame
- productivity and declining unit labor costs
- how you experience inflation depends on what you consume

### PCE – headline and core





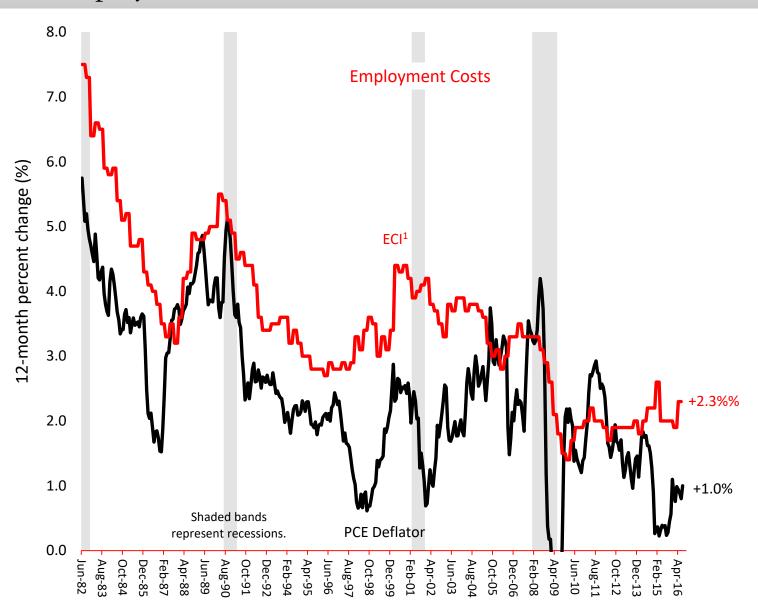
Source: NBER, Federal Reserve Bank of St. Louis. Data through August 2016.

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#### Inflation

## Employment cost index and inflation





Because wages, salaries and benefits are companies' biggest single cost, they are also the biggest single inflation factor for the economy as a whole.

Inflation (PCE deflator) generally runs lower than measured ECI inflation because higher employment costs can be offset by productivity gains.

See next two charts.

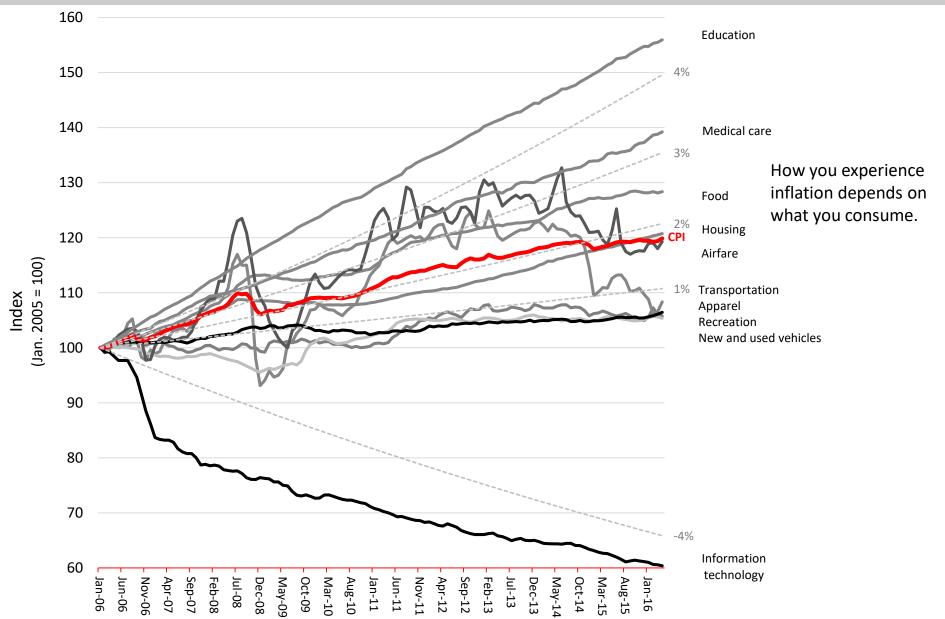
Source: Bureau of Labor Statistics. Quarterly ECI data through June 2016; monthly PCE data through August 2016. 

<sup>1</sup> Employment Cost Index. The BLS 's ECI is built with fixed weights for individual industries and occupations.

#### Inflation

## Inflation by expenditure category





Source: BLS. Data through April 2016. Dotted lines indicate compound annual growth rate trajectories at rates indicated.

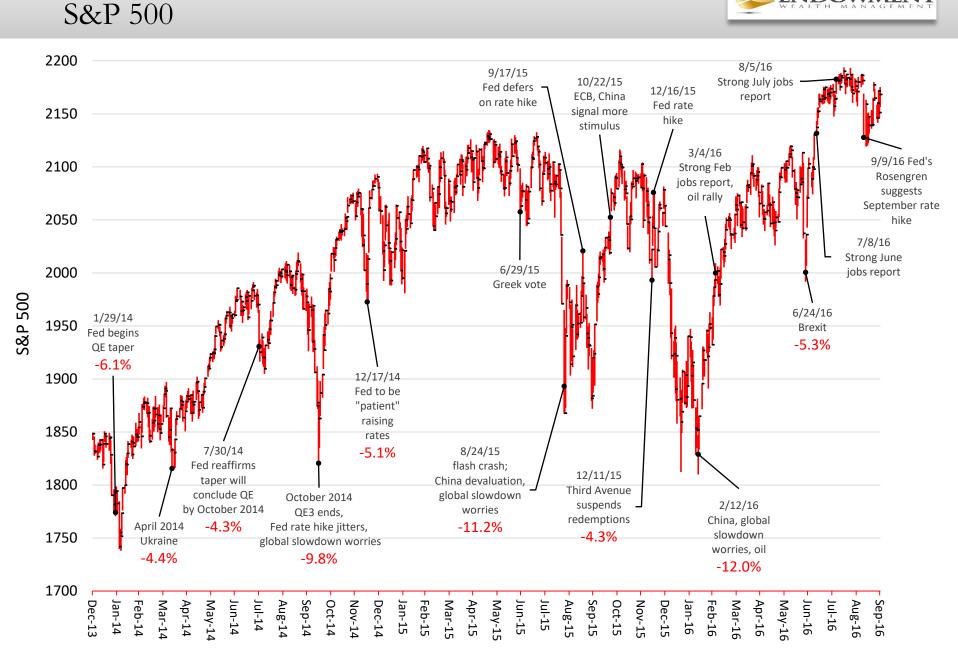


## **Stock Market**

- record highs
- driven by earnings turnaround
- following the anniversary of \$USD surge
- and energy prices bottoming
- stocks are fully-, but not over-valued
- margins are likely sustainable
- Fed is accommodative
- inflation is tame
- lack of irrational exuberance

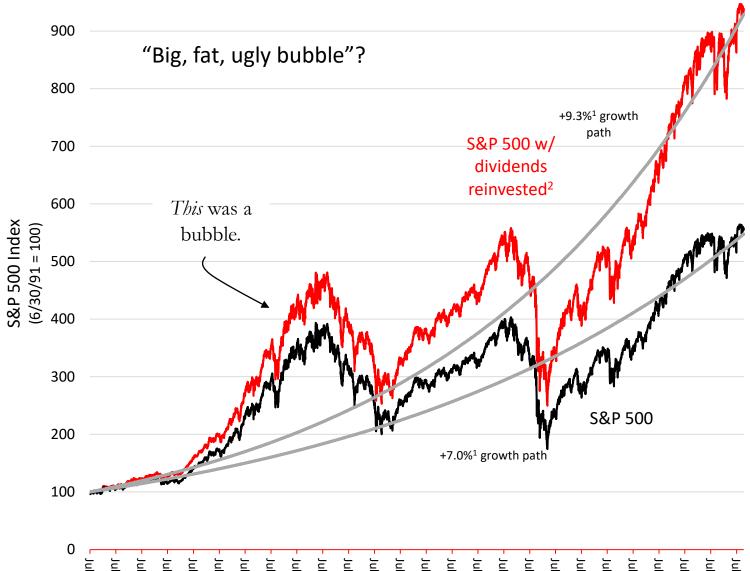
## Market data

#### ENDOWMENT WEALTH MANAGEMENT



### Total return = 7.0% earnings-driven price + 2.3% dividends reinvested





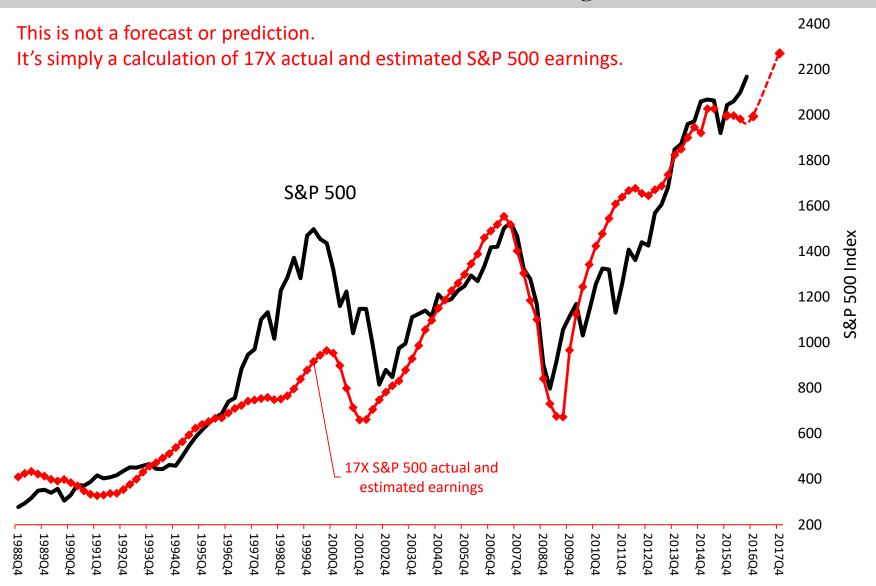
The 2011-2014 run higher put these two indices slightly above their long-term trajectories. Today they are in line.

+9.3% per year S&P 500 total return over the last 25 years is right in line with the stock market's long-term returns going back to 1926, or back even further to 1871.3

<sup>3</sup> per Professor Jeremy Siegel's seminal Stocks for the Long Run, first published in 1994.

## S&P 500 vs. 17X actual and estimated earnings



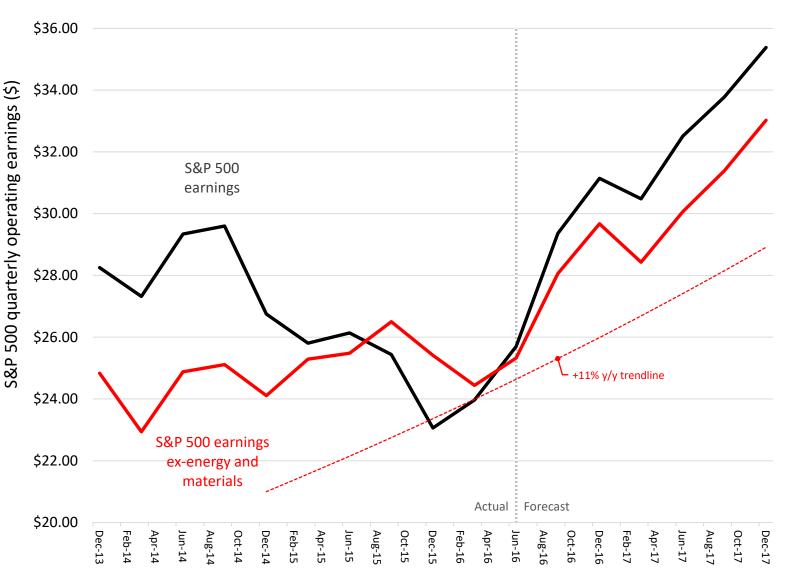


<sup>&</sup>lt;sup>1</sup> 2015 (actual), 2016 (estimated) and 2017 (estimated) bottom-up S&P 500 operating earnings per share as of October 6, 2016: for 2015, \$117.46; for 2016(e), \$117.23; for 2017(e), \$133.52. Sources: Yardeni Research, Inc. and Thomson Reuters I/B/E/S survey of consensus estimates. Standard and Poor's for index price data through September 30, 2016; and actual operating earnings data through 2014.

### Earnings

## S&P 500 earnings recession – and recovery





According to Standard & Poor's forecasts, earnings are on a +11% growth trajectory through the end of 2017.

+11% might be too optimistic but just half of that would be fine.



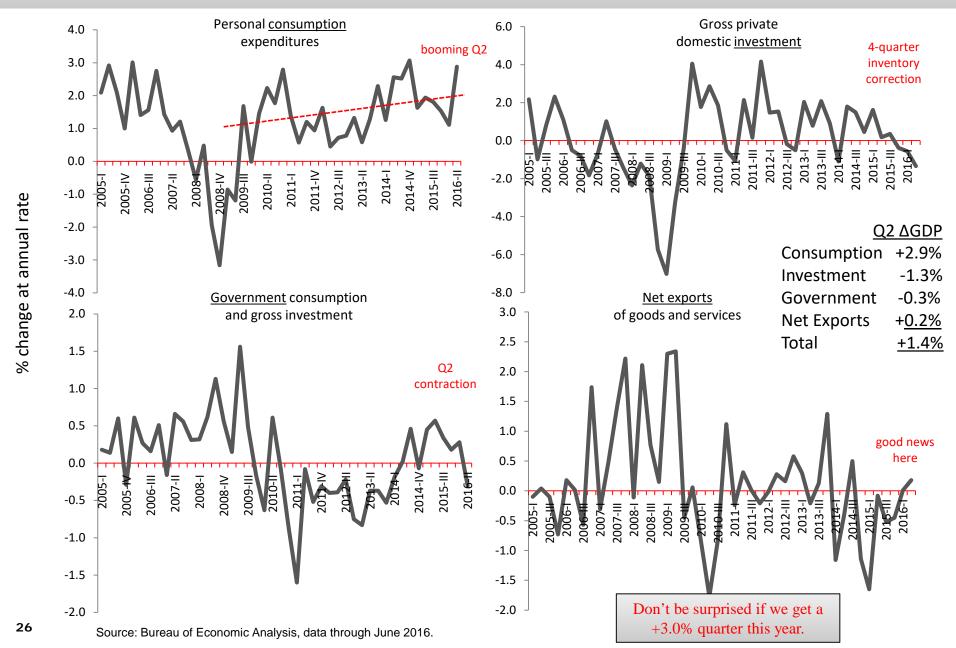
## Economy

- +1.4% Q2 GDP strength in "C", weakness in "I"
- strong growth in: personal income, DPI, real DPI, real DPI per capita, retail sales
- strong household balance sheets, savings rate and record low household financial obligations ratio
- rising LEI, strong PMIs, strong hiring, record high job openings, declining unemployment rate, record low weekly unemployment claims, strong car sales, rising housing starts
- no inflation threat
- Can you say "Goldilocks"?

#### Economic data

### Contributions to GDP growth: C + I + G + Net Exports

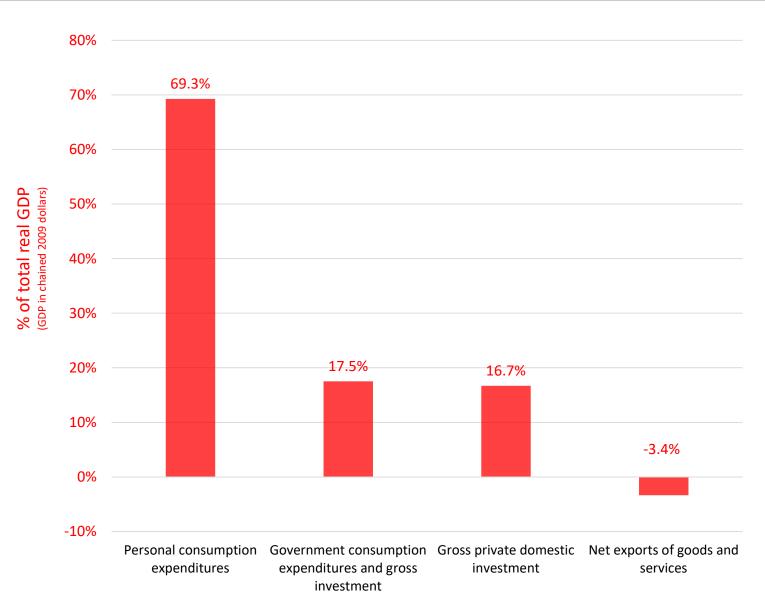




#### Economic data

### GDP breakdown



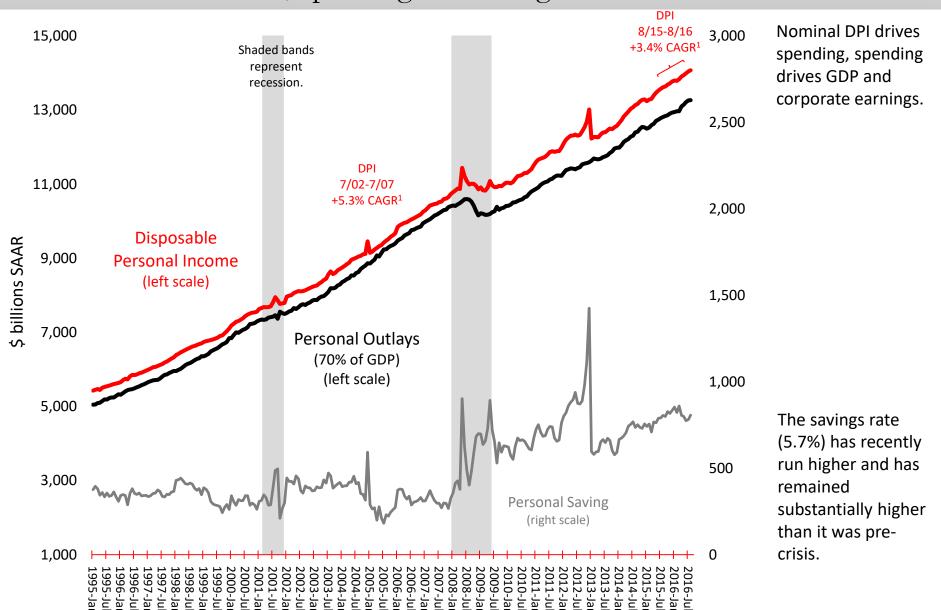


Consumer spending drives the U.S. economy.

### Economic data – consumer spending

## Consumer income, spending and saving



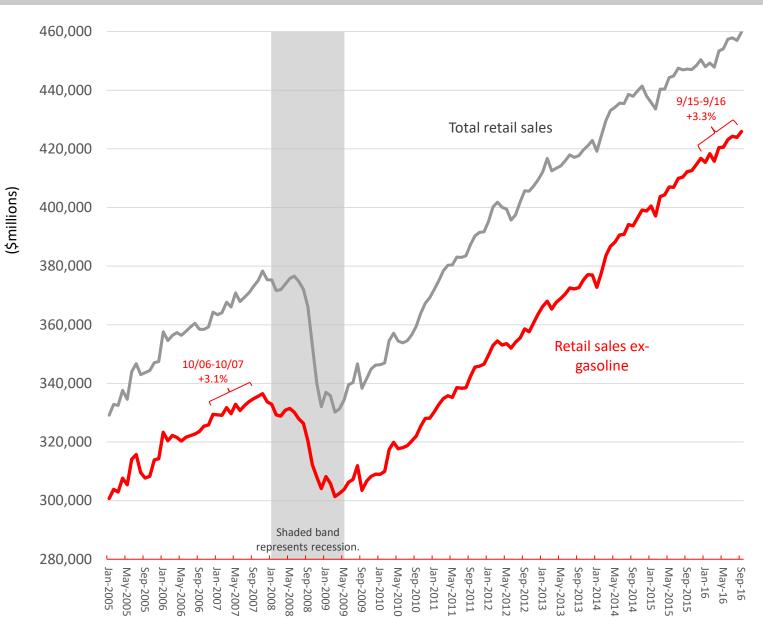


### Economic data

### Retail sales

Retail sales



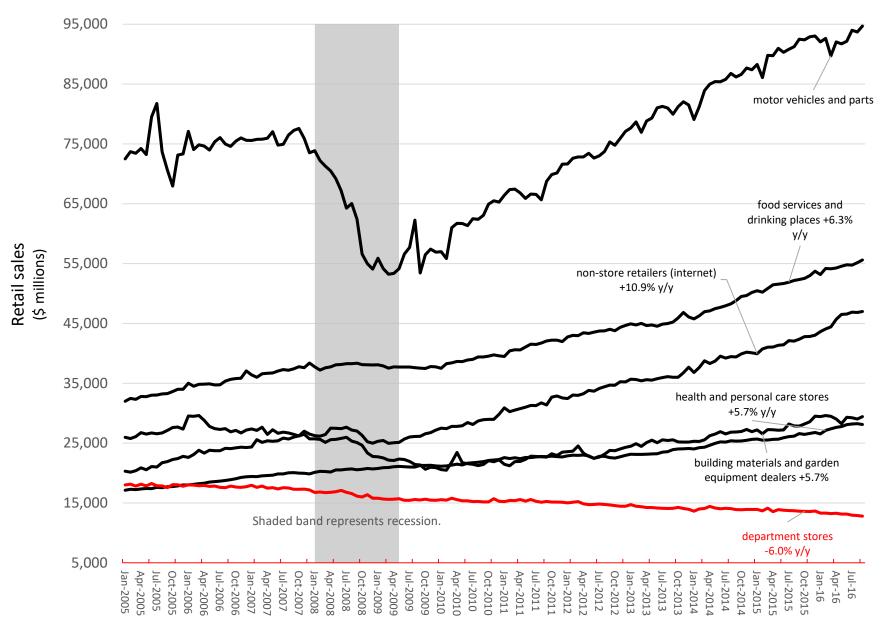


Strong retail sales growth.

Despite soft comp-store sales at Macy's, Nordstrom, Kohl's, Gap and more.

## Retail sales by category Department stores are a dying retail format.

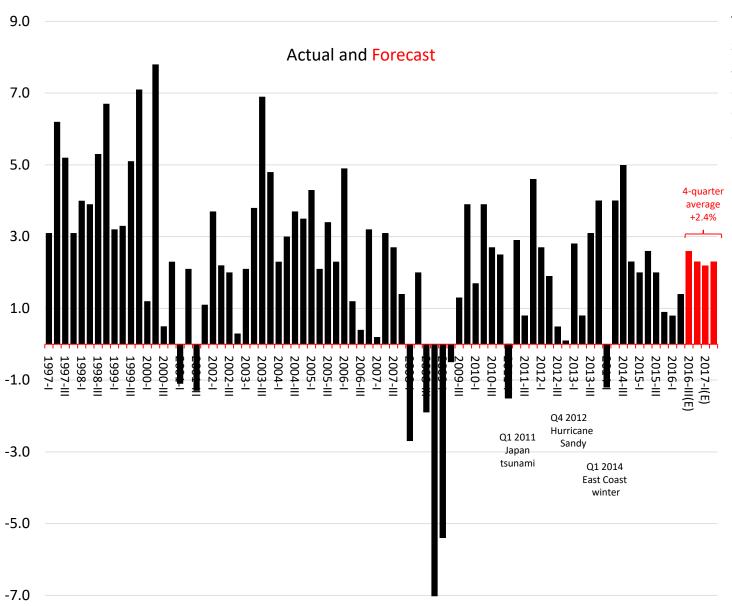




# Consensus GDP forecast Pick-up in growth expected

Real GDP Q/Q % change(annualized)

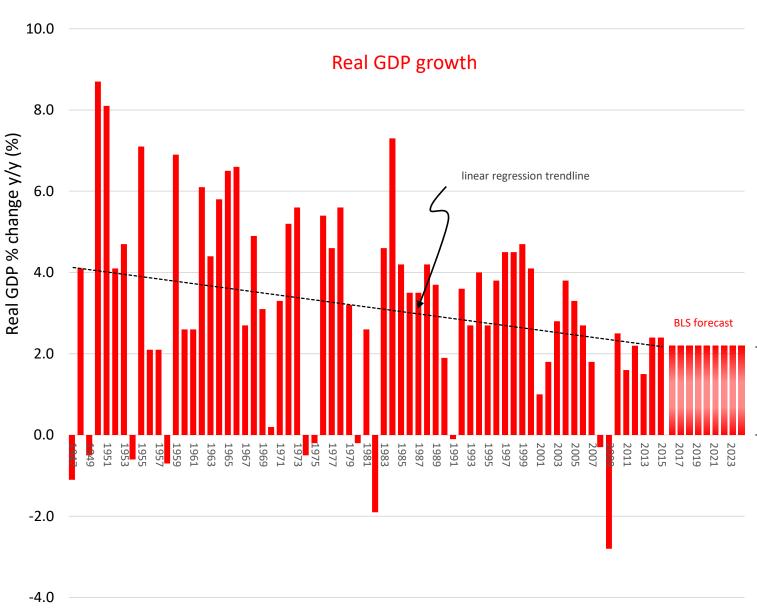




The 70 economists surveyed in early September see an average +2.5% rate of quarterly GDP growth ahead.

### GDP growth potential = $\Delta$ productivity + $\Delta$ labor force





The U.S. economy is already running at its full calculated potential.

Since the 1950s, U.S. GDP growth has been gradually slowing, principally due to slower population growth and declining labor force participation.

0.5%  $\Delta$  labor force + 1.8%  $\Delta$  productivity

The Bureau of Labor statistics forecasts an average of +2.2% annual GDP growth through 2024, compared to two-year actual GDP growth of +2.4%.

Sources: BEA, BLS. Annual data through 2015. BLS forecast through 2024 dated December 8, 2015.

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## GDP growth potential = $\Delta$ productivity + $\Delta$ labor force Labor force





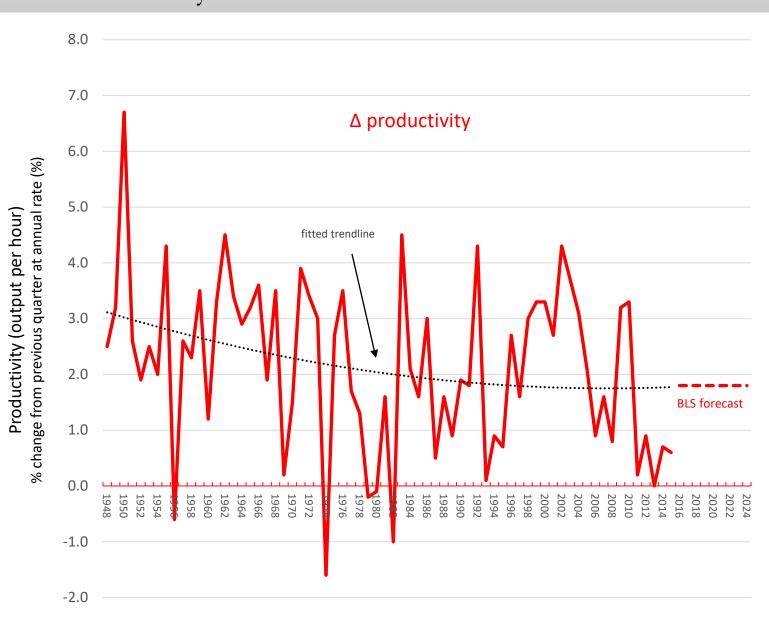


The labor force surged post-WWII, peaking in the late 1970s. Since then the U.S. has seen gradually slowing growth in the labor force partly due to the aging population and partly due to a declining participation rate. (See next slide.)

The Bureau of Labor Statistics forecasts annual labor force growth of +0.5% through 2024.

# GDP growth potential = $\Delta$ productivity + $\Delta$ labor force Productivity





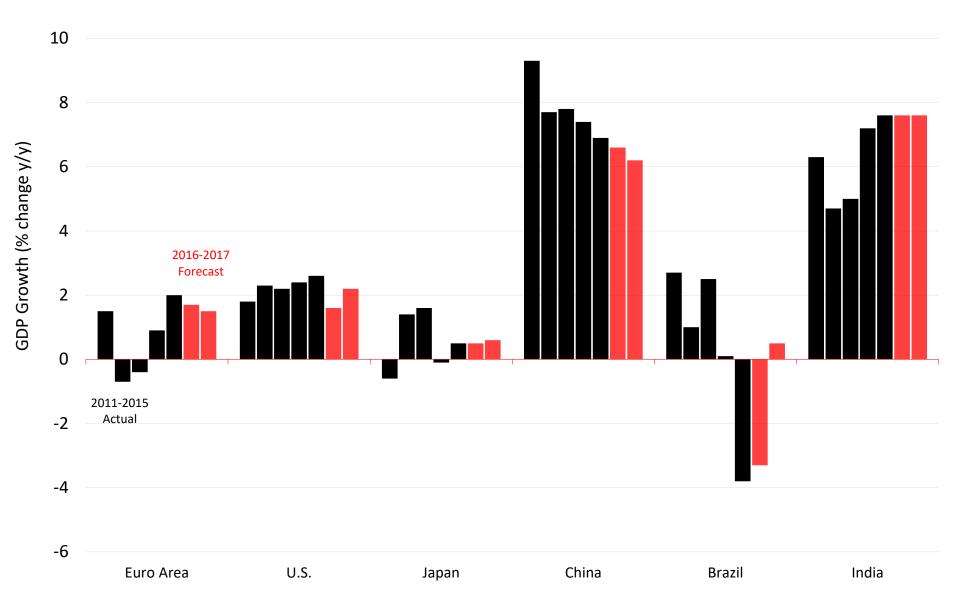
Labor force productivity gains are driven by the application of automation, technology and improved work methods.

The Bureau of Labor Statistics forecasts continued annual productivity gains of +1.8% through 2024.

### Economic data rest-of-world

## World GDP growth forecasts – improving growth expected







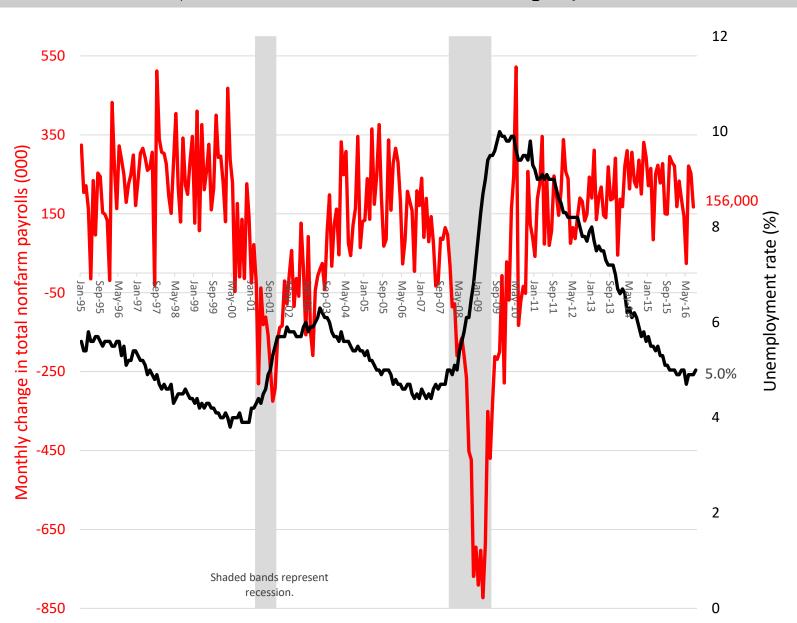
## Jobs

- job formation has not been "anemic"
- new jobs will be limited at full-employment
- good news in full-time employed
- record job openings
- strong relative U.S. job formation forecast long-term
- strong real wage and income growth
- mean and median incomes bottomed
- myth: "... but we're not creating good jobs"

#### Economic data - jobs

# Net new job formation and the unemployment rate





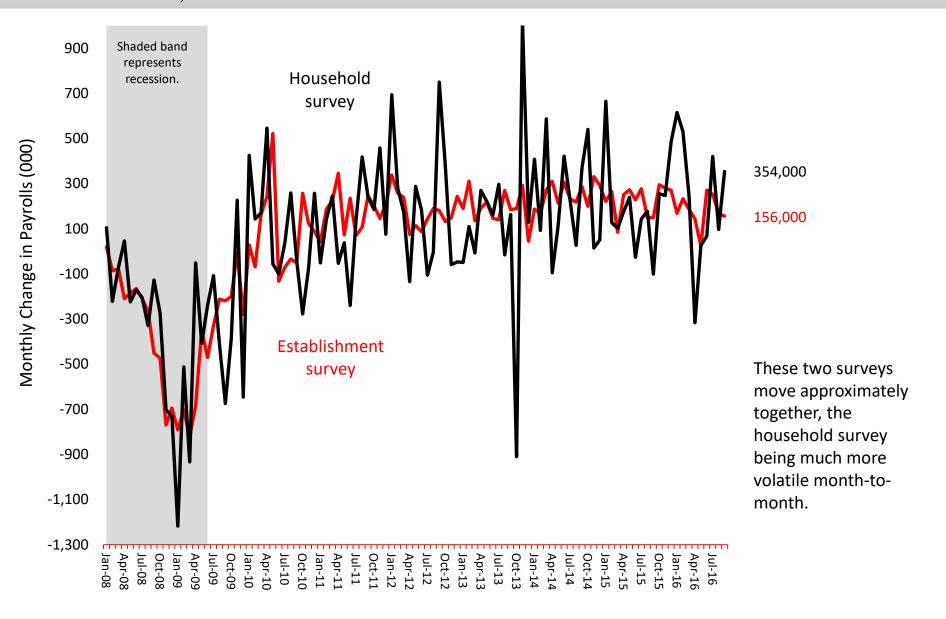
Job growth
stronger for
longer in this
recovery due to
the depth of the
last recession.

Job growth will decline as the unemployment rate sinks further.

#### Economic data - jobs

## Net new job formation

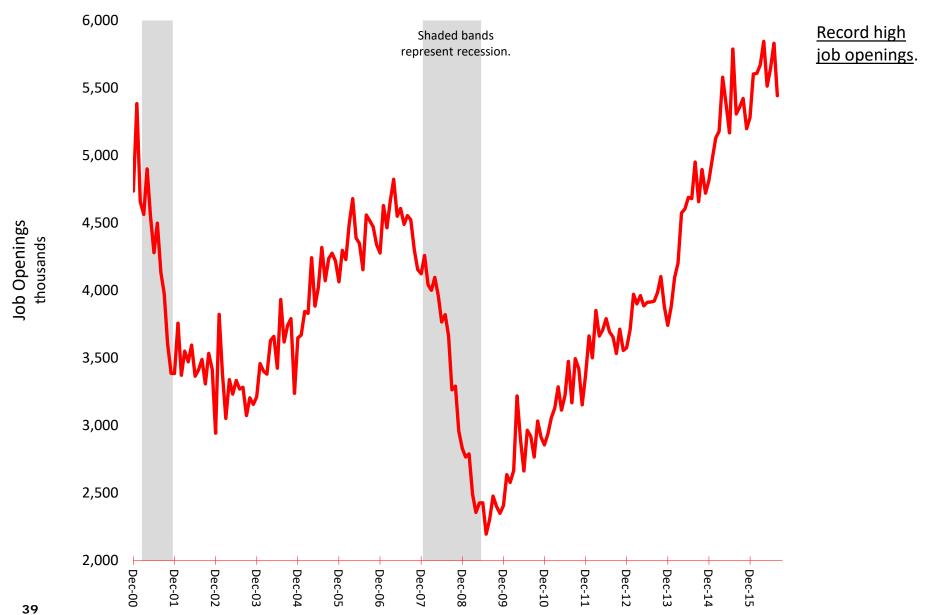




#### Economic data - jobs

# Job openings – record high





#### Demographics

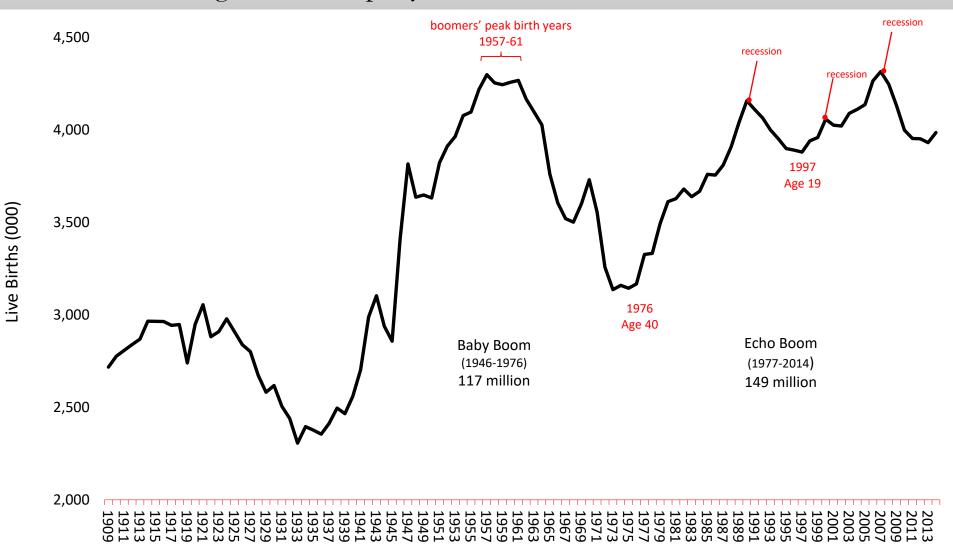
GDP growth potential =  $\Delta$  productivity +  $\Delta$  labor force

Labor force to grow +0.5% per year  $2012-2022^1$ 

decade 1992-2002; and by an annual rate of +0.7% in the decade 2002-2012.



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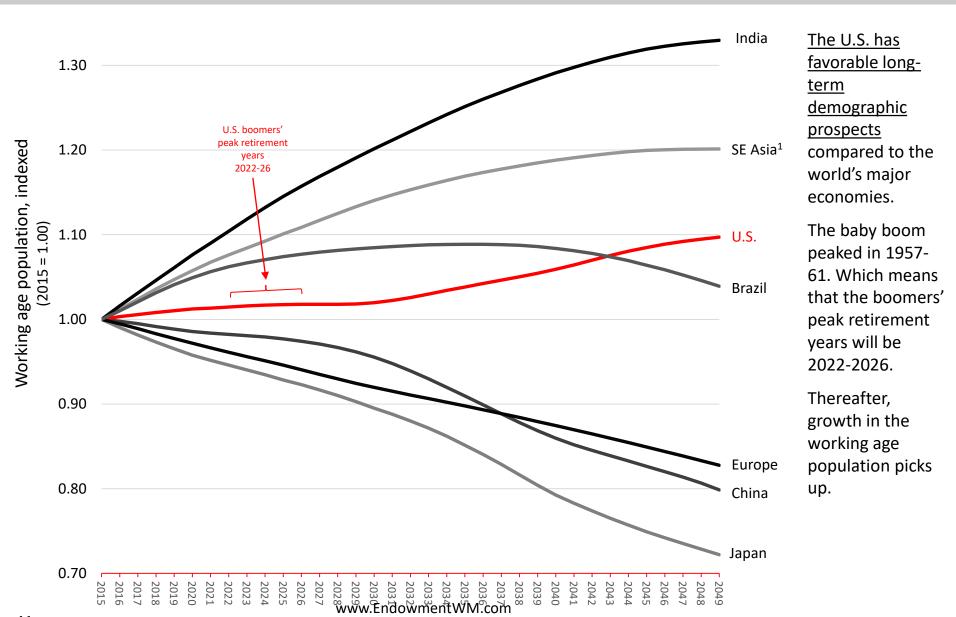
Sources: 1909 to 2008: U.S. Census Bureau, 2012 Statistical Abstract; 2009-2014: U.S. Department of Health and Human Services.

1 U.S. Bureau of Labor Statistics, Monthly Labor Review, December 2013, by Mitra Toossi. The U.S. labor force grew at an annual rate of +1.2% in the

#### Long-term growth prospects

# Working age population forecasts





#### Will our children be better or worse off the us?



# Future Shock

#### America's next generation will do better than ever

Matthew Arnold's "darkling plain," the economy endures, and the next generation has a bright future. Donald Trump calls for "making America great again," but Warren Buffett knows that "again" has nothing to do with it. Some edited observations from his annual letter to shareholders follow:

"Many Americans now believe that their children will not live as well as they themselves do. That view is dead wrong: The babies being born in America today are the luckiest crop in history.

"American gross domestic product per capita is now about \$56,000. America's 2% of overall growth produces about 1.2% of annual per capita growth. In 25 years, that rate of growth leads to a gain of 34.4% in real GDP per capita, a \$19,000 increase. Today's politicians need not shed tears for tomorrow's children.

"Though the pie to be shared by the next generation will be far larger, how it will be divided will remain fiercely contentious—in particular, between those with talents that are valued highly by the marketplace and the equally decent hard-working Americans who lack the skills the market prizes.

"The good news, however, is that even members of the 'losing' sides will almost certainly enjoy far more goods and services in the future than they have in the past. The quality of their increased bounty will also dramatically improve. Nothing rivals the market system in producing what people want.

"America's golden goose of commerce and innovation will continue to lay more and larger eggs. America's kids will live far better than their parents did."

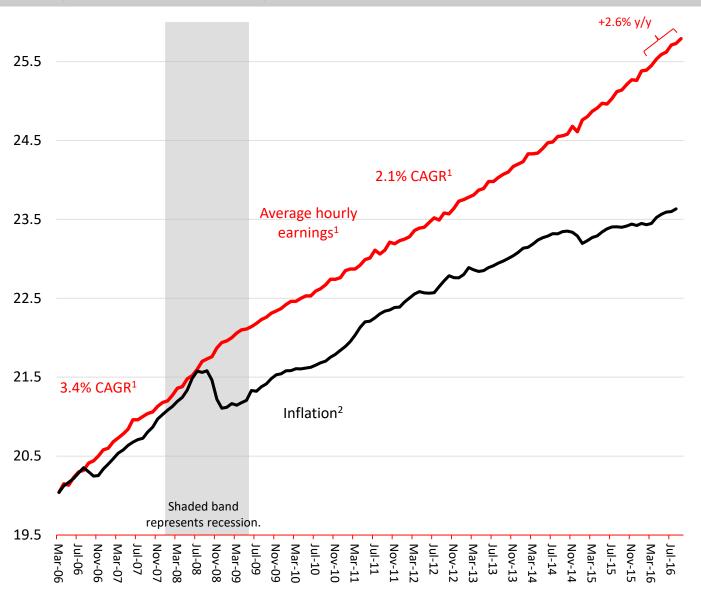
Editorial page editor Thomas G. Donlan receives e-mail at tg.donlan@barrons.com.

Warren Buffet:
"America's golden
goose ... will
continue to lay
more and larger
eggs."

#### Wages – middle class wage stagnation?

# Average hourly earnings vs. inflation





AHE growth has picked up.

AHE growth has outstripped inflation.

Real wages have grown ... at a better clip than prerecession because inflation has been declining.

Wage stagnation is a fiction.

Source: BLS, BEA. AHE data through September 2016. Inflation data through August 2016. AHE includes 100% of non-farm private employees, and excludes benefits and employers' share of payroll taxes. <sup>1</sup> Compound annual growth rate March 2006 through December 2008 = 3.4%; CAGR December 2008 through June 2016 = 2.1%. <sup>2</sup> March 2006 average hourly earnings of \$20.04 inflated by the personal consumption expenditures deflator (PCED).

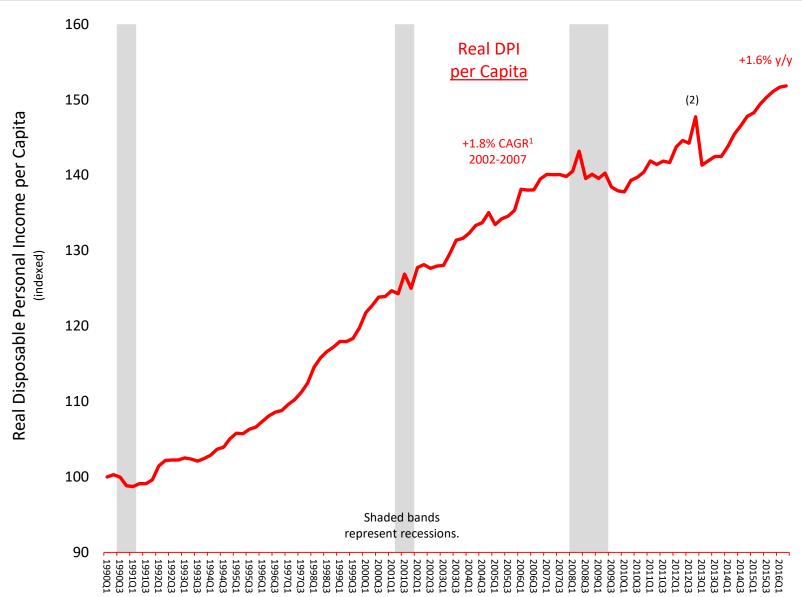
Average Hourly Earnings (\$/hour)

all private non-farm employees

#### Economic data – consumer spending

# Real per capita purchasing power





Real per capita after-tax income is growing slower than prerecession.

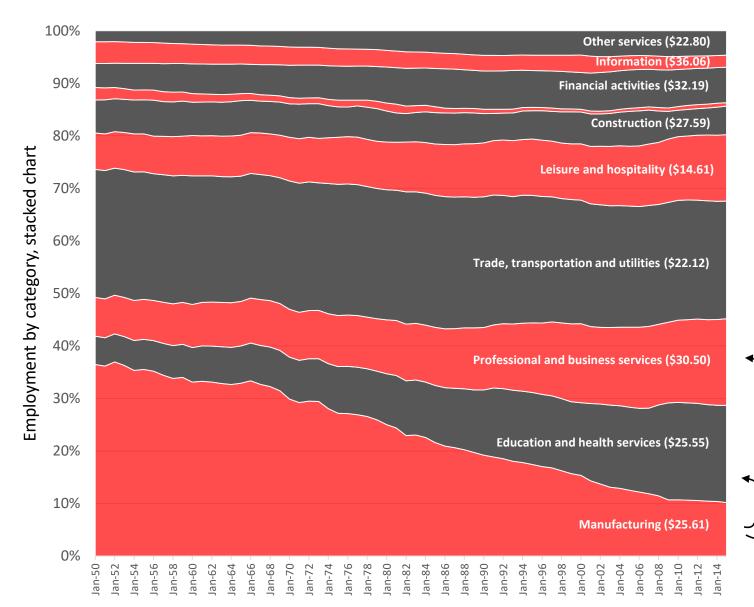
But, income stagnation is a fiction.

Source: Bureau of Economic Analysis, quarterly data through June 2016. <sup>1</sup>Compound annual growth rate. <sup>2</sup>Surge in compensation paid prior to 2013 tax hike.

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Jobs ... "but the jobs we're creating aren't 'good' jobs."
All jobs by category (average hourly earnings in parentheses)





In 1950, manufacturing jobs were 37% of total jobs. Today that figure is 10%.

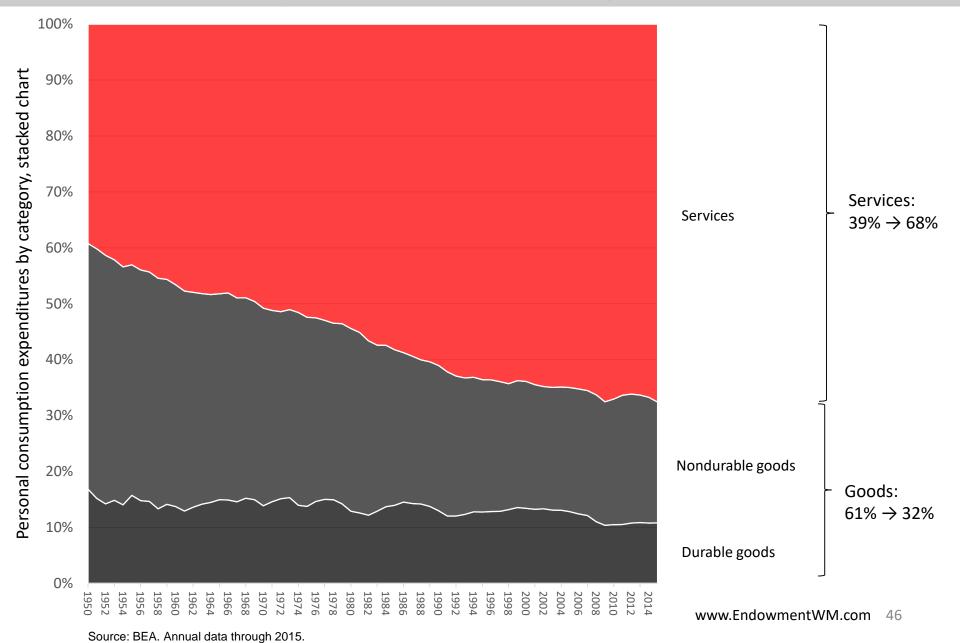
Some manufacturing jobs have been replaced by lower-paying jobs in leisure and hospitality; but many more have been replaced by equal- or higher-paying jobs in health services and professional and business services.

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#### Consumer spending

# Personal consumption expenditures by category

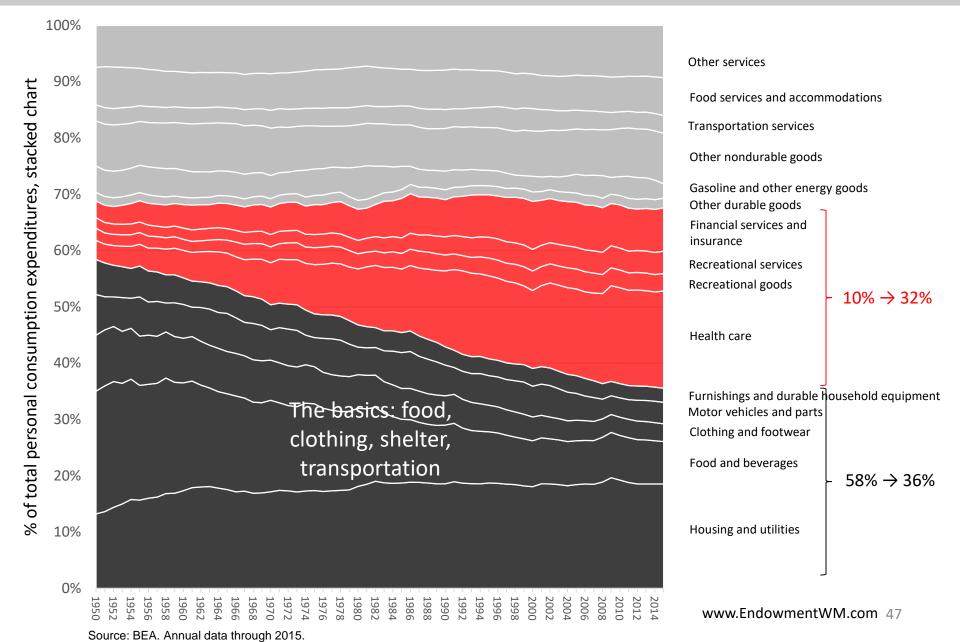




#### Consumer spending

# Personal consumption expenditures by category





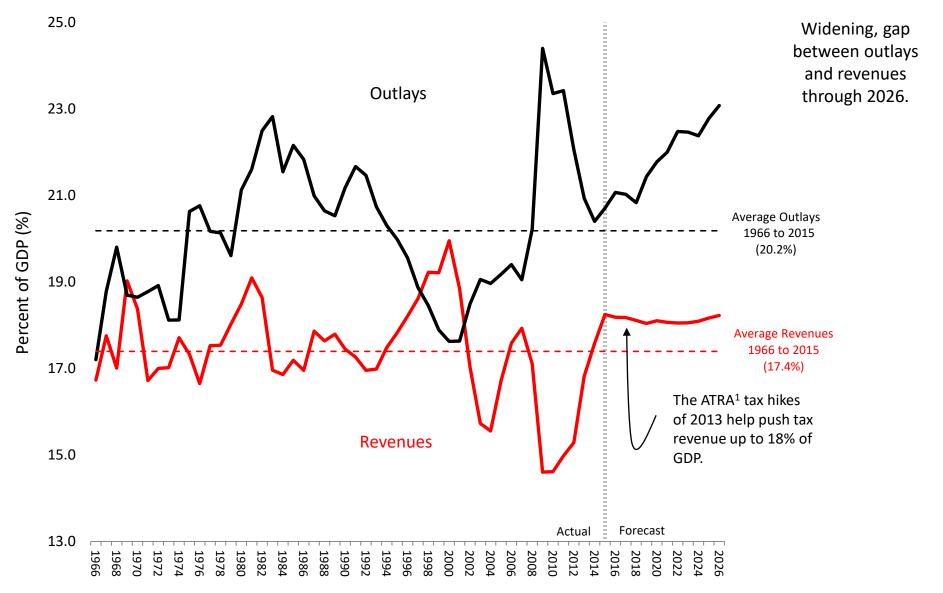


# Federal budget

- CBO's March 2016 forecast
- looks good for a few years ...
- ... but the entitlements problem hasn't gone away
- rising debt/GDP ratio
- low U.S. tax burden allows flexibility to solve long-term entitlements problem

#### Federal revenues and outlays – a rising spending problem



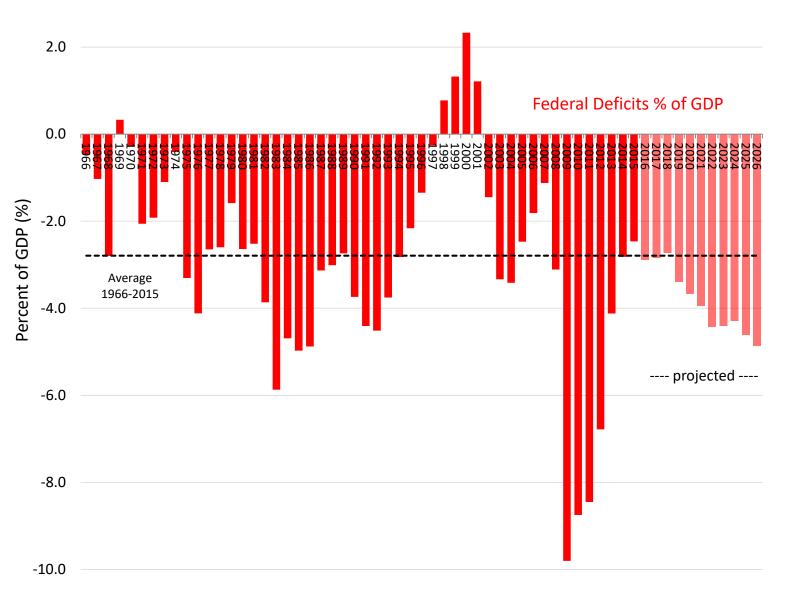


Source: Congressional Budget Office, *Updated Budget Projections: 2016 to 2026*, dated March 2016. 

<sup>1</sup> American Taxpayer Relief Act.

#### Federal deficits % of GDP

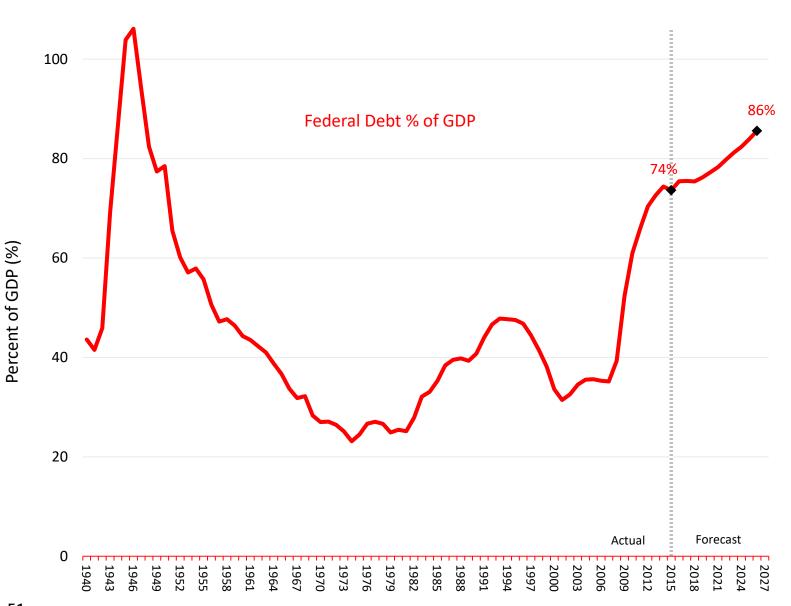




CBO is projecting low growth in federal borrowing requirements through 2018.

#### Federal debt % of GDP

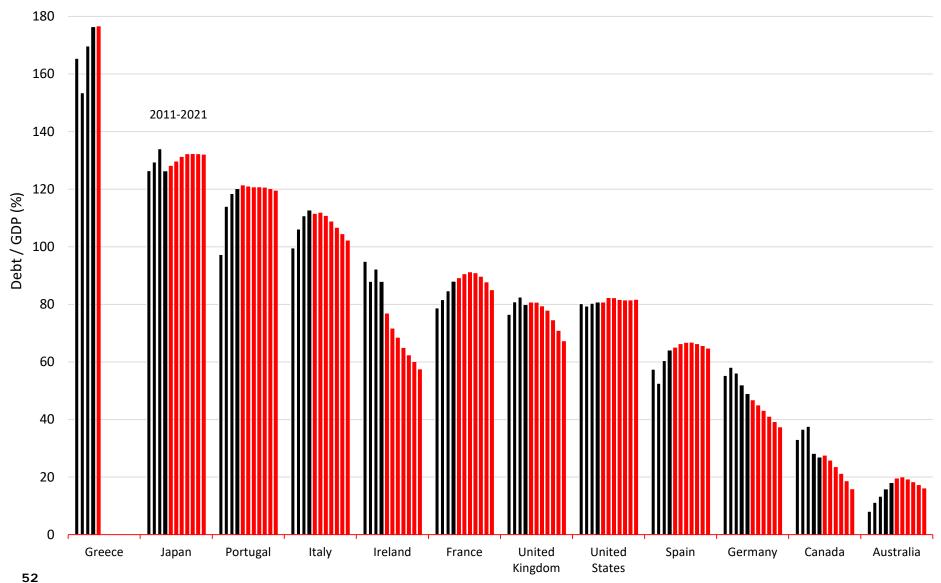




Debt % of GDP about flat through 2018, then rises.

# Government debt-to-GDP ratios (2011-2021)

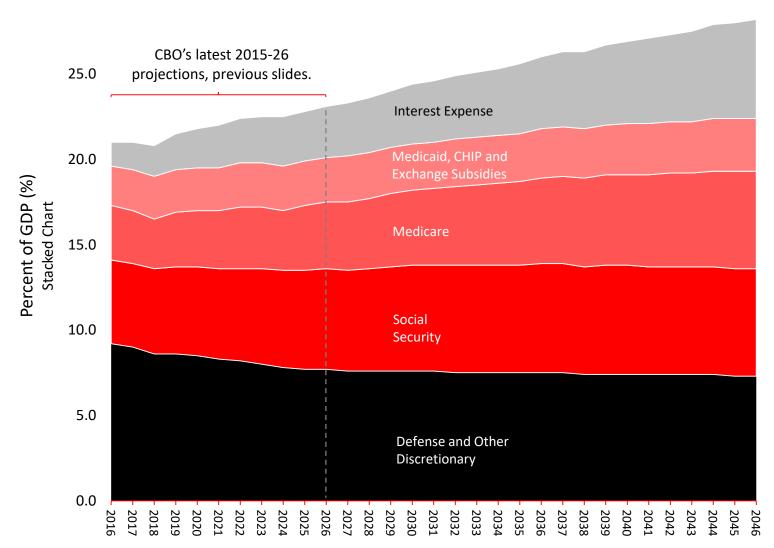




# Projected federal spending<sup>1</sup> through 2046



30.0

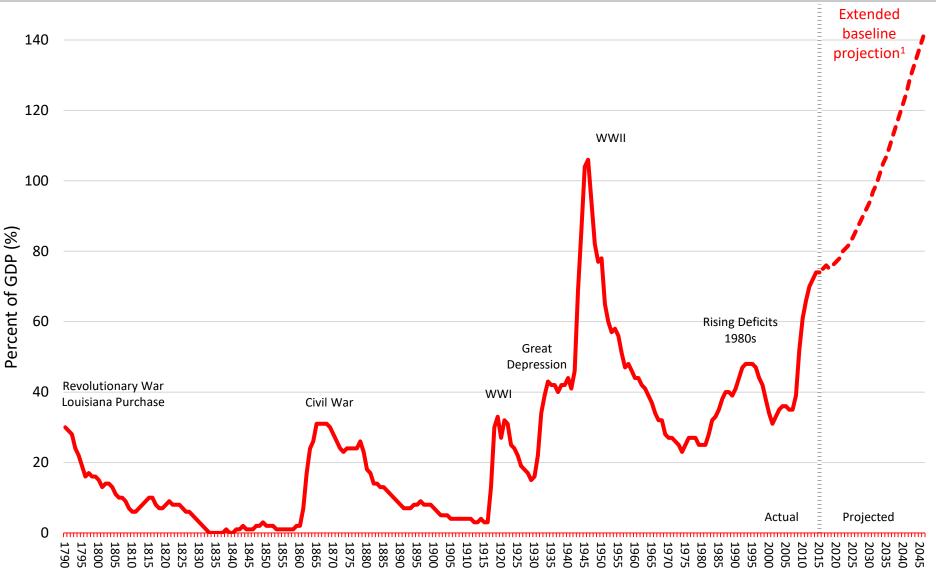


Entitlements are on autopilot and interest expense keeps growing as a share of total spending as the debt accumulates.

Source: Congressional Budget Office (CBO), *The 2016 Long-Term Budget Outlook*, July 2016. ¹CBO's 10-year and extended baselines generally reflect current law and are meant to serve as benchmarks for measuring the budgetary effects of proposed changes in federal revenues or spending. They are not meant to be predictions of future budgetary outcomes; rather, they represent CBO's best assessment of how the economy and other factors would affect revenues and spending if current law generally remained unchanged.

# Federal debt % of GDP through 2046



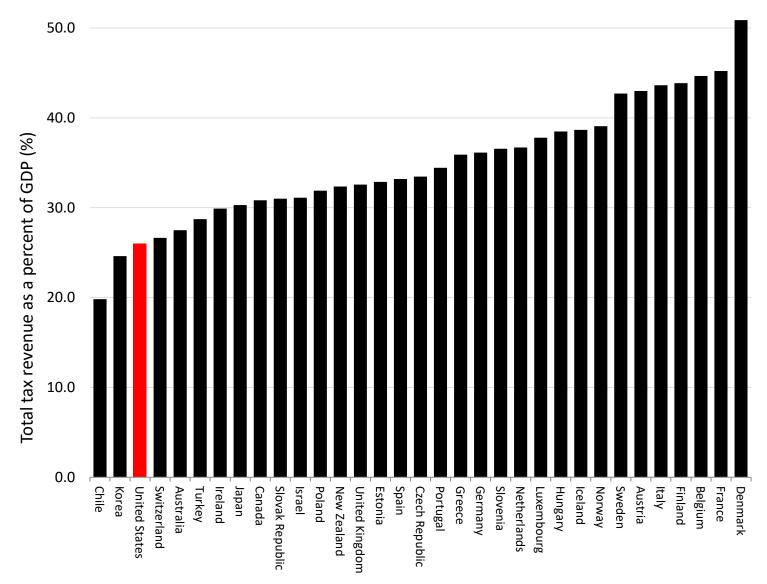


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# Taxes % of GDP – comparison





While the U.S. has the highest corporate tax rate, the U.S. has one of the lowest total tax burdens among developed economies.

The U.S.'s comparatively low tax burden allows flexibility in solving its long-term entitlement spending problem.



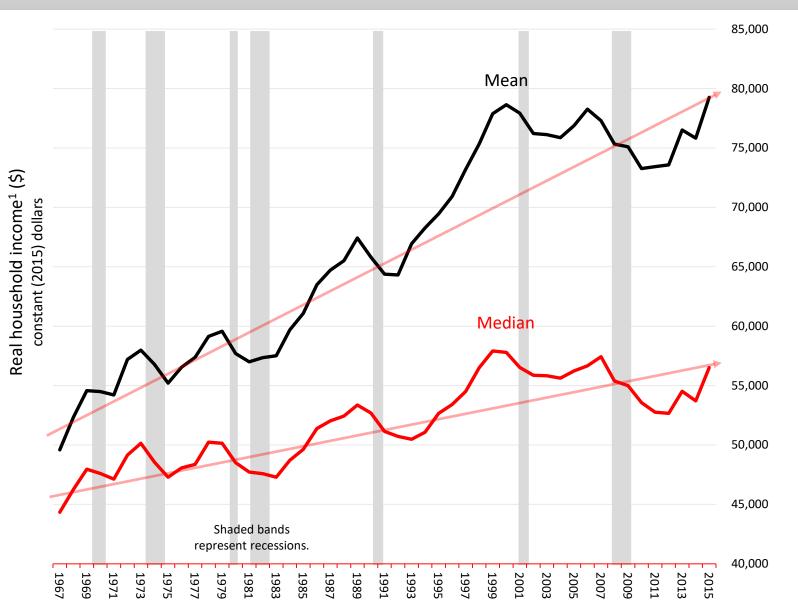
# Distribution of:

- income
- spending
- > taxes
- transfer payments (income redistribution)
- Gini index

**57** 

#### Median and mean household income





Recovery in household mean and median money income.

Were the two asset bubbles of the last two decades responsible for pushing income ahead at an unsustainable pace?

NOTE: These measures based on money income don't account for income redistribution inherent in the tax code, food stamps, Medicare, Medicaid, public housing, etc.

Source: U.S. Census Bureau. Income and Poverty in the United States: 2015, issued September 2016. Data through 2015.

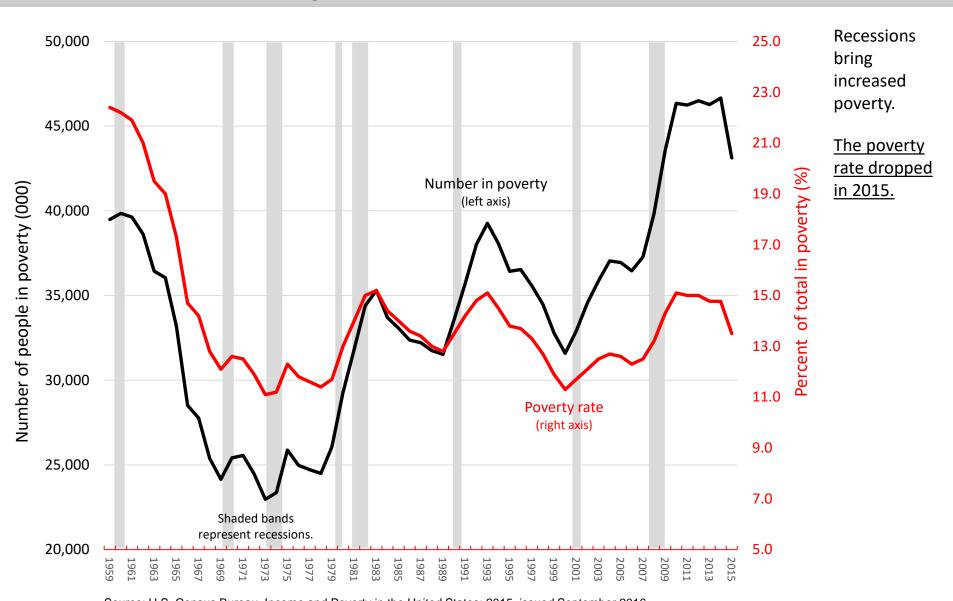
<sup>&</sup>lt;sup>1</sup> The Census Bureau's income estimates are based solely on money income before taxes and do not include the value of non-cash benefits such as food stamps, Medicare, Medicaid, public housing and employer-provided fringe benefits.

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#### Rising income inequality?

# Poverty rate – coming down



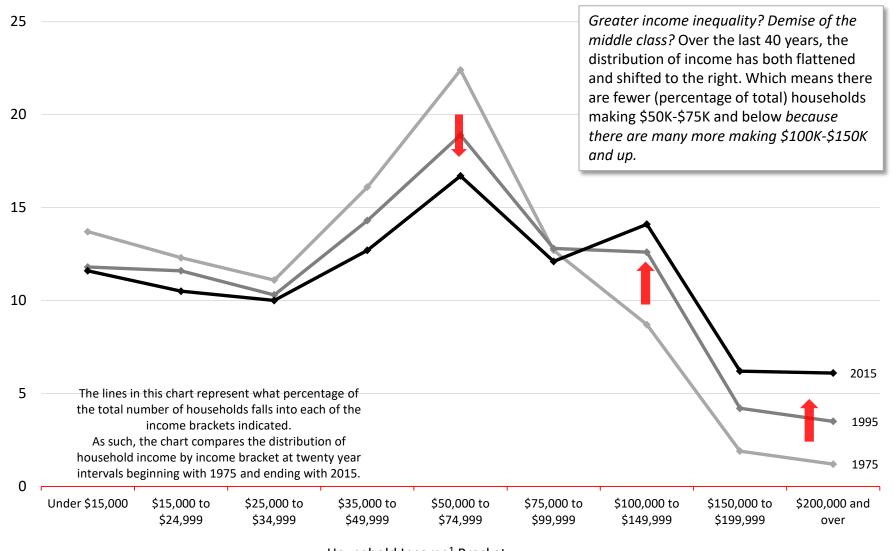


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<sup>1</sup> The Census Bureau's income estimates are based solely on money income before taxes and do not include the value of non-cash benefits such as food stamps, Medicare, Medicaid, public housing and employer-provided fringe benefits. www.EndowmentWM.com

#### Income distribution – behind the Gini index





Household Income<sup>1</sup> Bracket Constant (2015) Dollars

Source: U.S. Census Bureau. Income and Poverty in the United States: 2015, issued September 2016.

<sup>1</sup> The Census Bureau's income estimates are based solely on money income before taxes and do not include the value of non-cash benefits such as food stamps, Medicare, Medicaid, public housing and employer-provided fringe benefits.

www.EndowmentWM.com

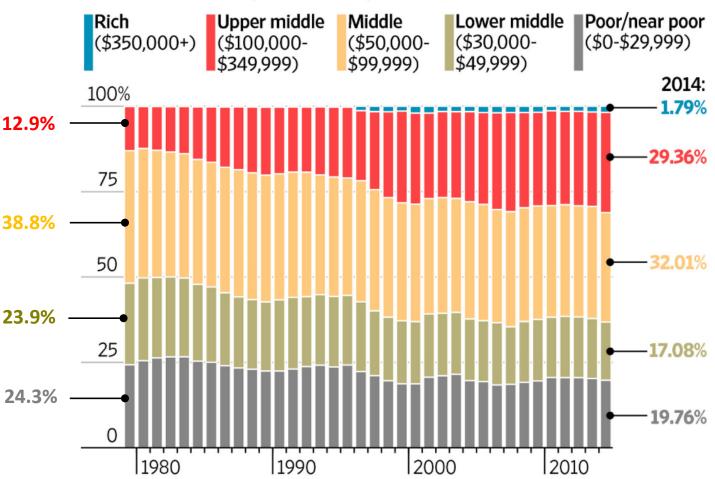
Percent Distribution (%)

#### Income distribution – behind the Gini index



#### Share of the U.S. population in each income class

(Income for a family-of-three equivalent)



Note: Income threshold levels are adjusted for inflation

Source: Urban Institute

THE WALL STREET JOURNAL.

## Modern Portfolio Theory = Asset Allocation



Modern portfolio theory was introduced by Harry Markowitz with his paper "Portfolio Selection," which appeared in the 1952 *Journal of Finance*.

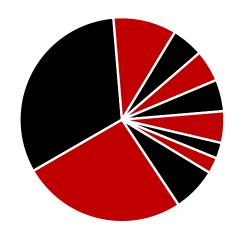
Thirty-eight years later, he shared a Nobel Prize with Merton Miller and William Sharpe for what has become a broad theory for portfolio selection.

## Modern Portfolio Theory

Diversify

Optimize

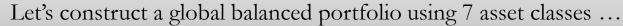
Rebalance



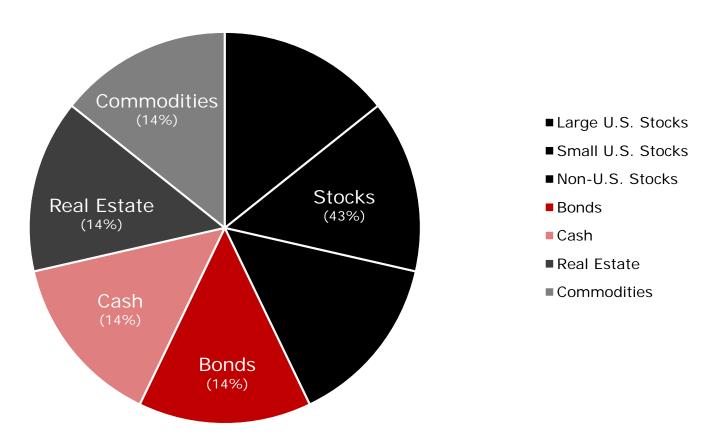
Asset allocation and diversification do not guarantee a profit or eliminate the risk of loss. Source: Riskglossary.com

#### Investment Strategy

#### Asset Allocation — An Example





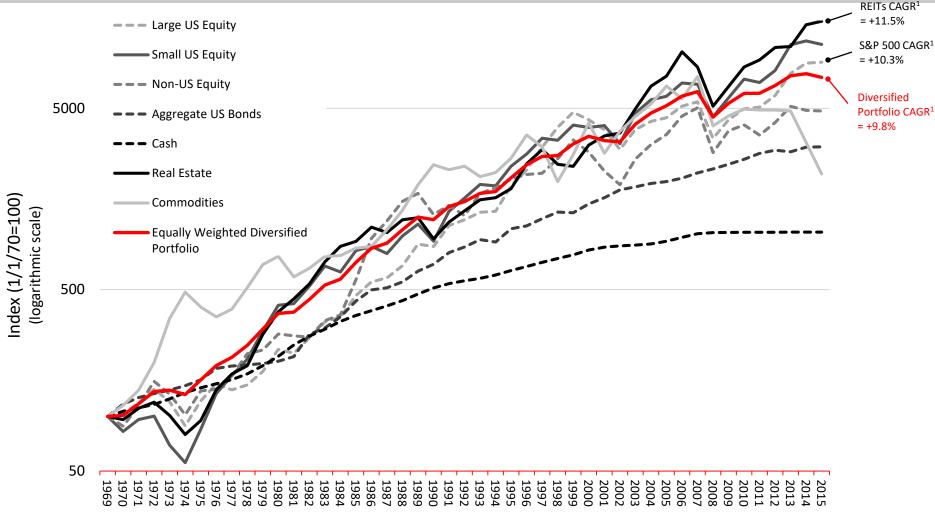


Source: ©2012 The 7Twelve ™ Portfolio powerpoint presentation, by Craig Israelsen. Used with permission. Indexes used in this illustration: Large-cap US equity represented by the S&P 500 Index. Small-cap US equity represented by the Ibbotson Small Companies Index from 1970-1978, and the Russell 2000 Index starting in 1979. Non-US equity represented by the MSCI EAFE Index. Real estate represented by the NAREIT Index from 1970-1977 and the Dow Jones US Select REIT Index starting in 1978. Commodities represented by the Goldman Sachs Commodities Index (GSCI). As of February 6, 2007, the GSCI became the S&P GSCI Commodity Index.U.S. Aggregate Bonds represented by the Ibbotson Intermediate Term Bond Index from 1970-75 and the Barclays Capital Aggregate Bond index starting in 1976. Cash represented by 3-month Treasury Bills.

#### Investment Strategy

## Asset Allocation — An Example





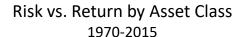
<sup>1</sup>Compound annual growth rate.

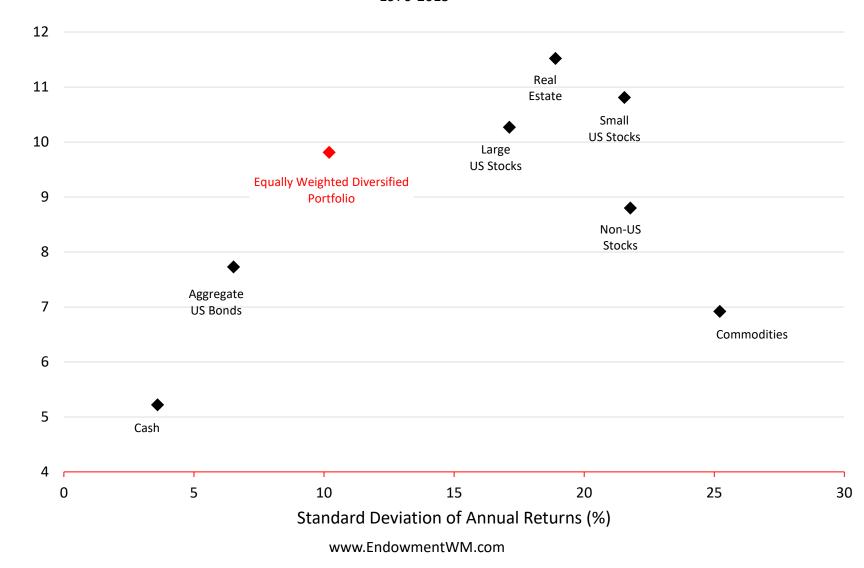
Past performance is not a guarantee of future results. An investment cannot be made directly in the indexes used in this illustration.

Source: ©2016 The 7Twelve ™ Portfolio powerpoint presentation, by Craig Israelsen. Used with permission. Indexes used in this illustration: Large-cap US equity represented by the S&P 500 Index. Small-cap US equity represented by the Ibbotson Small Companies Index from 1970-1978, and the Russell 2000 Index starting in 1979. Non-US equity represented by the MSCI EAFE Index. Real estate represented by the NAREIT Index from 1970-1977 and the Dow Jones US Select REIT Index starting in 1978. Commodities represented by the Goldman Sachs Commodities Index (GSCI). As of February 6, 2007, the GSCI became the S&P GSCI Commodity Index.U.S. Aggregate Bonds represented by the Ibbotson Intermediate Term Bond Index from 1970-75 and the Barclays Capital Aggregate Bond index starting in 1976. Cash represented by 3-month Treasury Bills.

## Asset Allocation — MPT has delivered





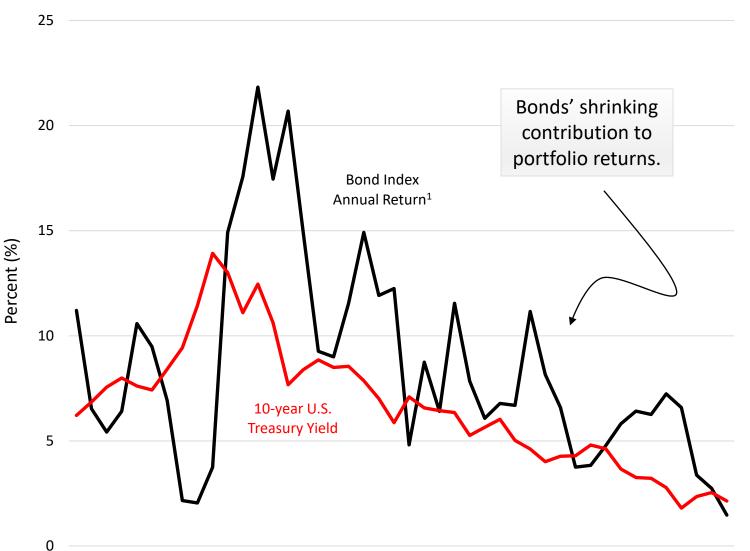


Compound Annual Return (%)

#### Investment Strategy

## Declining bond returns





Fixed income returns can no longer boost portfolio total returns as they have over the last 40 years.

Expect very modest fixed income returns going forward.

3-year average annual return of just +1.5%

2015
2014
2013
2012
2011
2010
2009
2008
2008
2007
2006
2007
2006
2007
2007
2006
2007
2008
2007
2008
2009
1999
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1999
1998
1997
1996
1997
1997
1977

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¹ 3-year average annual return of the U.S. Aggregate Bond index represented by the Ibbotson Intermediate Term Bond Index from 1970-75 and the Barclays Capital Aggregate Bond index starting in 1976. Annual data through 2015.

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# Managing client expectations

# Pensions Brace for Lower Returns

BY TIMOTHY W. MARTIN

Public pension funds from California to New York are cutting investment-return predictions to their lowest levels since the 1980s, a shift that portends greater hardships for employees and cash-strapped governments as Americans age.

New upheavals in global markets and a sustained period of low interest rates are forcing officials who manage retirements for nearly 20 million U.S. beneficiaries to abandon a long-held belief that stocks, bonds and other holdings would earn 8% each year, as well as expectations that those gains would fund hundreds of billions of dollars in liabilities.

More than two-thirds of state retirement systems trimmed assumptions since 2008 as the financial crisis and an uneven U.S. recovery knocked many below their long-term goals, according to an analysis of 126 plans provided by the National Association of State Retirement Administrators. The average target of 7.68% is the lowest since at least 1989. The peak was 8.1% in 2001.

Pension funds are trimming their total return assumptions.



my back of the envelope figures:

New portfolio arithmetic?

60/40 stocks/bonds

stocks: .6 X 8% = 4.8%

bonds: .4 X 1.5% = <u>0.6%</u>

5.4%

average target of 7.68%



# Important Information

All material presented is compiled from sources believed to be reliable and current, but accuracy cannot be guaranteed. This is not to be construed as an offer to buy or sell any financial instruments and should not be relied upon as the sole factor in an investment making decision. As with all investments there are associated inherent risks. Please obtain and review all financial material carefully before investing.

The opinions expressed are those of the author, are based on current market conditions and are subject to change without notice.

These materials may contain statements that are not purely historical in nature but are "forward-looking statements." These include, among other things, projections, forecasts, estimates of income, yield or return or future performance targets. These forward-looking statements are based upon certain assumptions, some of which are described herein. Actual events are difficult to predict and may substantially differ from those assumed. All forward-looking statements included herein are based on information available on the date hereof and Fritz Meyer assumes no duty to update any forward-looking statement. Accordingly, there can be no assurance that estimated returns or projections can be realized, that forward-looking statements will materialize or that actual returns or results will not be materially lower than those presented.

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