

Spring 2019

## **Capital Markets: Observations and Insights** Birthday Wishes

# Birthday Wishes

“You can’t help getting older, but you don’t have to get old.” – George Burns

If the U.S. economic expansion continues past its birthday at the end of this quarter, it will be the longest ever at over 10 years old. This is a tremendous achievement, one that most did not foresee in 2009 coming out of the financial crisis. However, investors are asking more frequently: will there be other birthdays to celebrate in this cycle?

Many seem confident that the end is near—a sentiment that could perhaps be the wall of worry the market can climb to higher levels. While this cycle is clearly old in chronological terms, it appears more youthful by several other measures. For example, cyclical components of GDP, the proportion of the population employed, cumulative growth in GDP, the real Federal Funds rate, and debt service ratios are all at levels that are not indicative of a peak in economic activity.

While we hope that this expansion has more birthday celebrations ahead of it, our focus at Alger has always been to understand the companies we invest in with an eye towards finding innovation and change rather than to try and forecast overall economic activity. In the long run, we believe what matters most is that innovation triumphs over economic volatility and is the primary contributor to long-term wealth creation.



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# Key Observations

- While investors are preparing for the end of the economic expansion, **various data points signal continued growth**
- **Sentiment has significantly improved** after reaching levels that we had flagged as overly depressed
- Regardless of economic activity, we believe **innovation will drive equity returns and wealth creation** as it has historically done

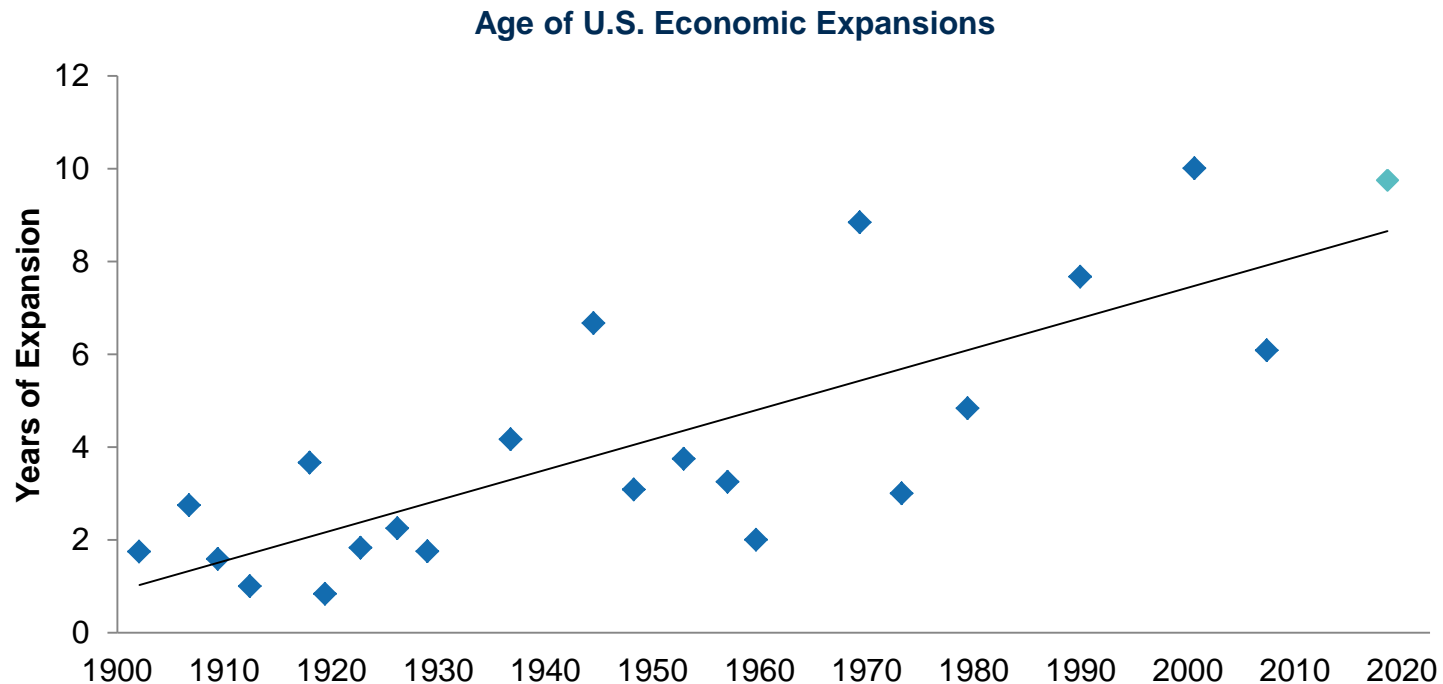
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# Birthday Wishes

## Cycles Have Been Lasting Longer

- U.S. economic expansions have been increasing in duration. Driving factors include:
  - Increased fiscal and monetary intervention (e.g., tax cuts/spending and assertive Fed)
  - Structural changes in the economy (e.g., larger proportion of services)
  - Technological advances (e.g., improved inventory management)

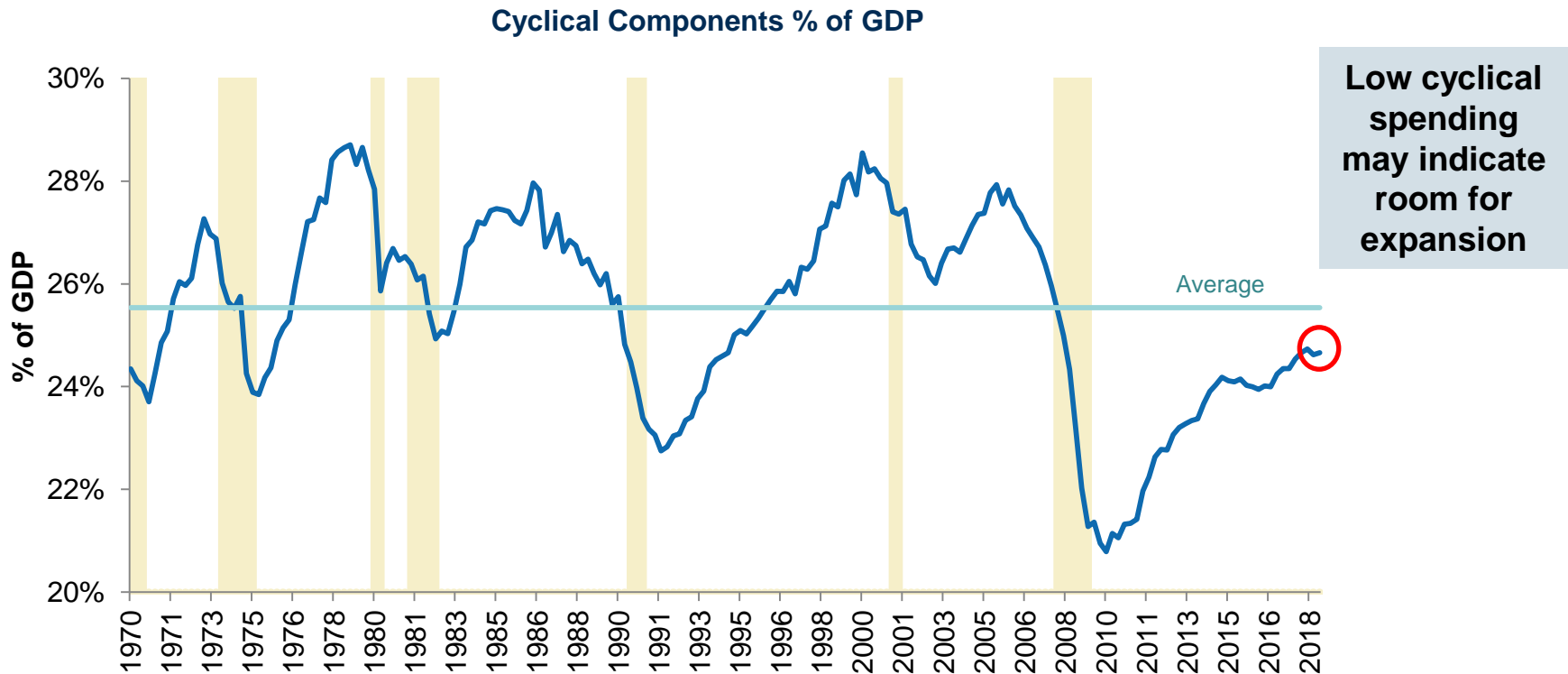


Source: FactSet and Alger. Note: double-dip recession in early 1980s accounted for as one recession.

# Birthday Wishes

## Cyclical Spending Signals More Expansion

- The cyclical components of GDP – business investment, residential investment, and consumer durables – have historically risen much higher prior to economic peaks
- The implication is that the economic expansion has room to expand

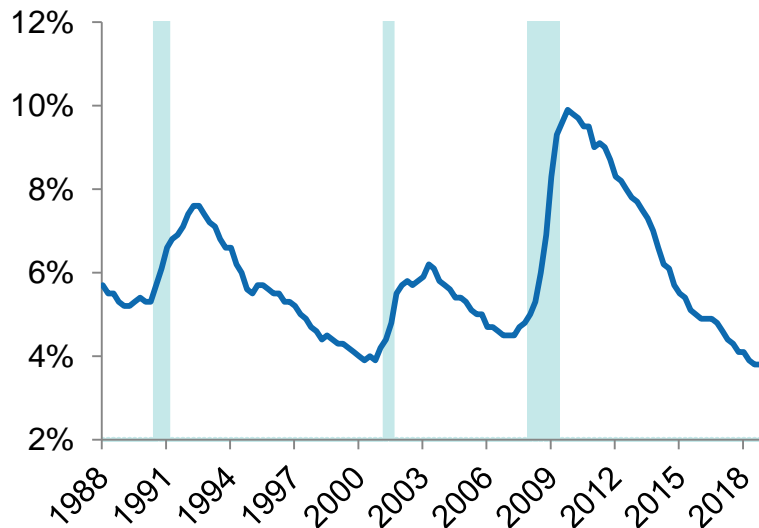


# Birthday Wishes

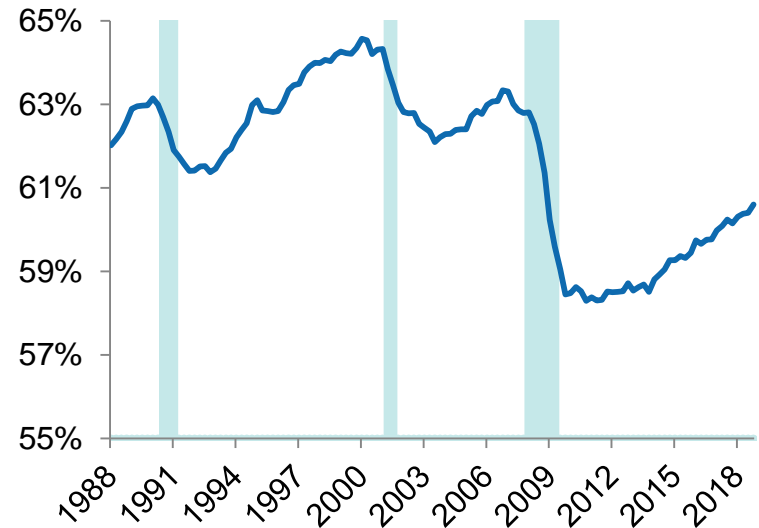
## More Workers Available?

- The traditional unemployment rate indicates an economy operating at full capacity
  - Implies higher inflation and higher interest rates on the way
- However, the ratio of employed to total eligible population is low relative to historical economic peaks
  - Suggests worker availability may dampen inflation and keep the Fed at bay

**The Official Unemployment Rate Is Low...**



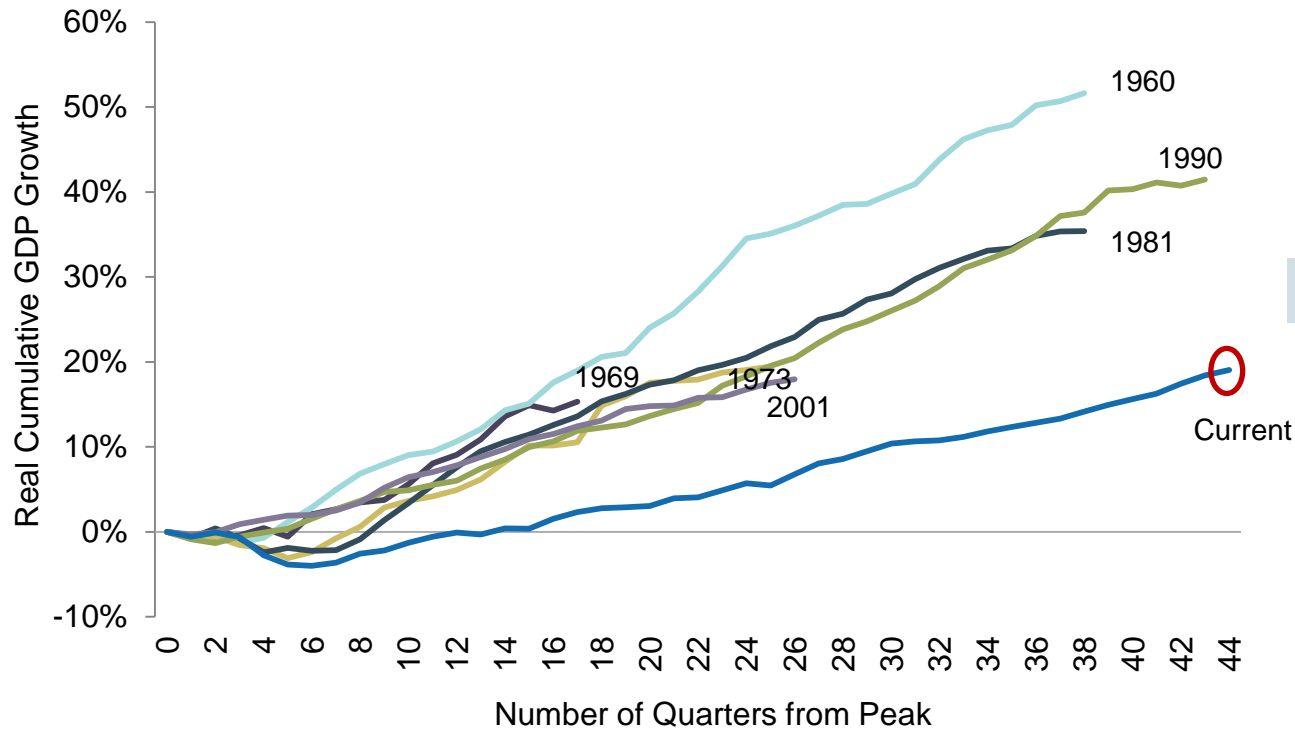
**...But Employed / Population Indicates Slack**



# Birthday Wishes

## The Upside of Being Slow

- While this expansion is chronologically old, it has not grown GDP as much as economic recoveries of comparable length
- This suggests a possibly longer runway of economic expansion now

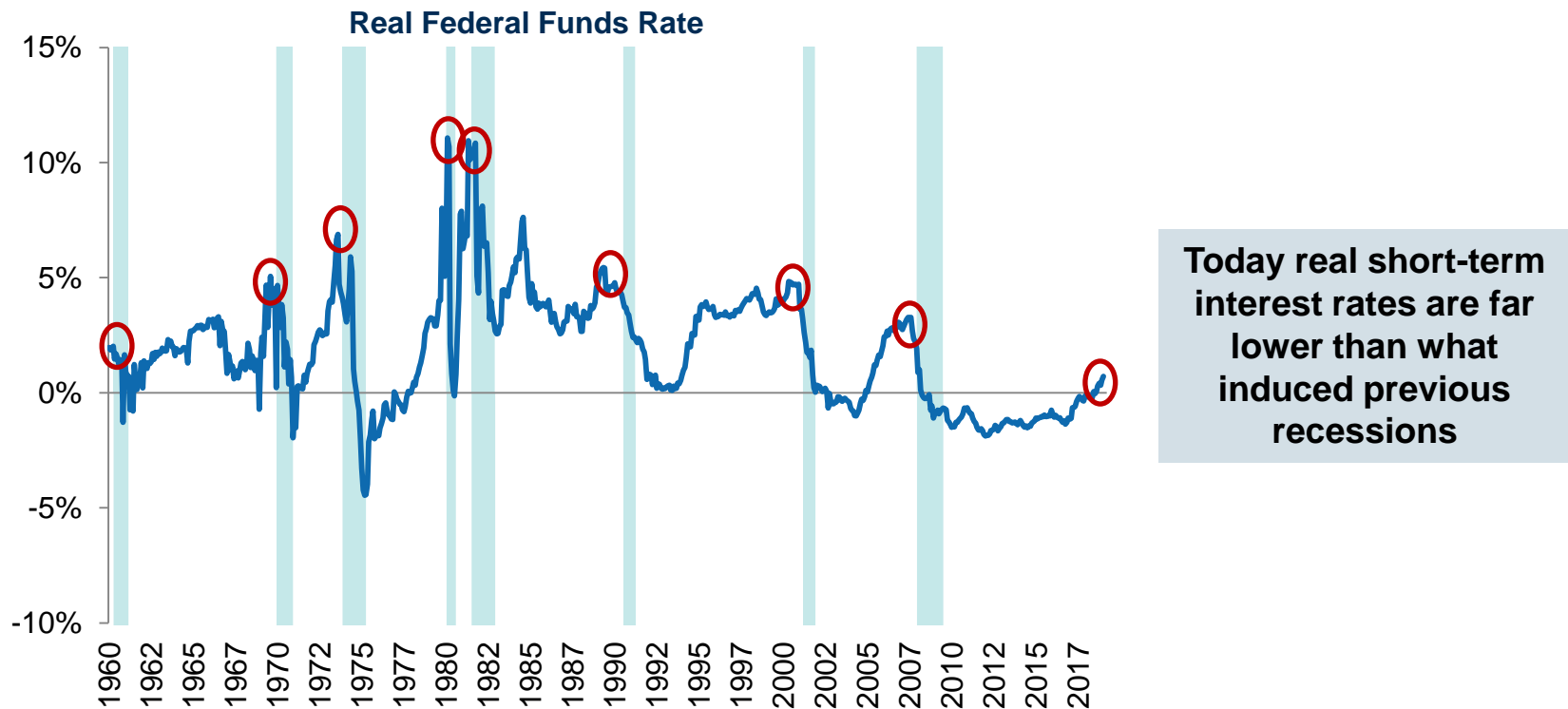


Room to catch up?

# Birthday Wishes

## Monetary Policy Is Not Restrictive

- Over the past half century, every U.S. recession has been preceded by a materially positive real Fed Funds rate — 2% or higher
- In contrast, today we have a relatively low real Fed Funds rate of under 1%



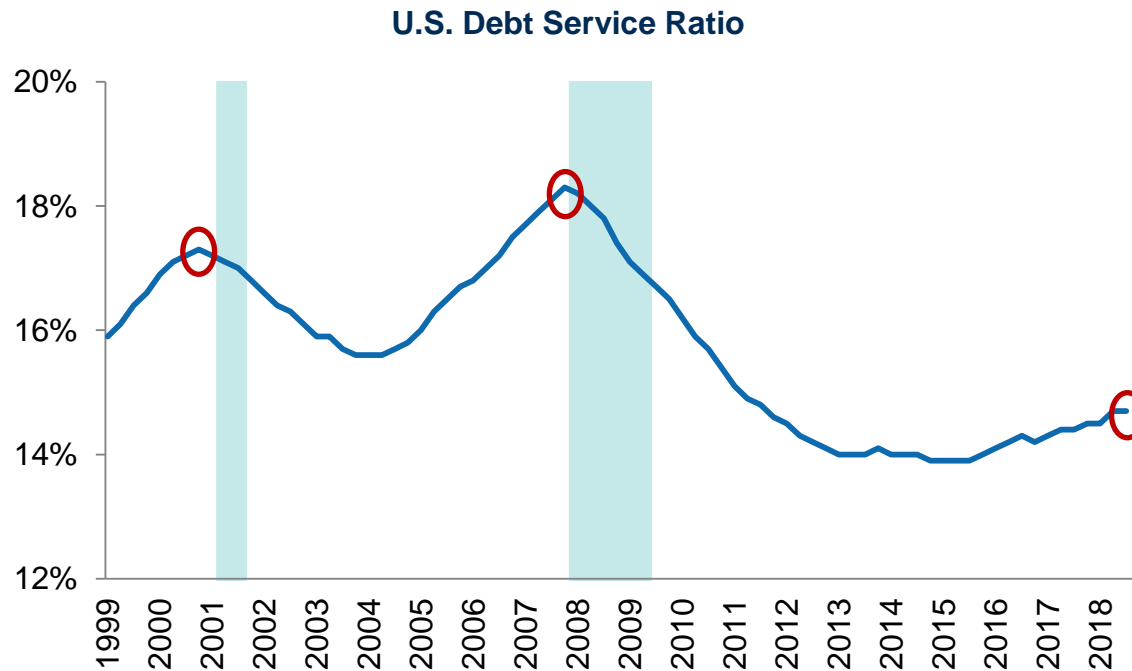
Source: FactSet, as of March 2019. Real Federal Funds rate is equal to the Federal Funds rate less the year-over-year change in the PCE Price Index ex-food and energy. Shaded regions denote U.S. recessions.



# Birthday Wishes

## Low Debt Burden

- Despite higher levels of debt as a % of GDP, the U.S. non-financial private sector debt service ratio is much lower than in the past two recessions
  - Because more than 80% of U.S. consumer and business debt is fixed, higher interest rates should not have a dramatic impact on service costs



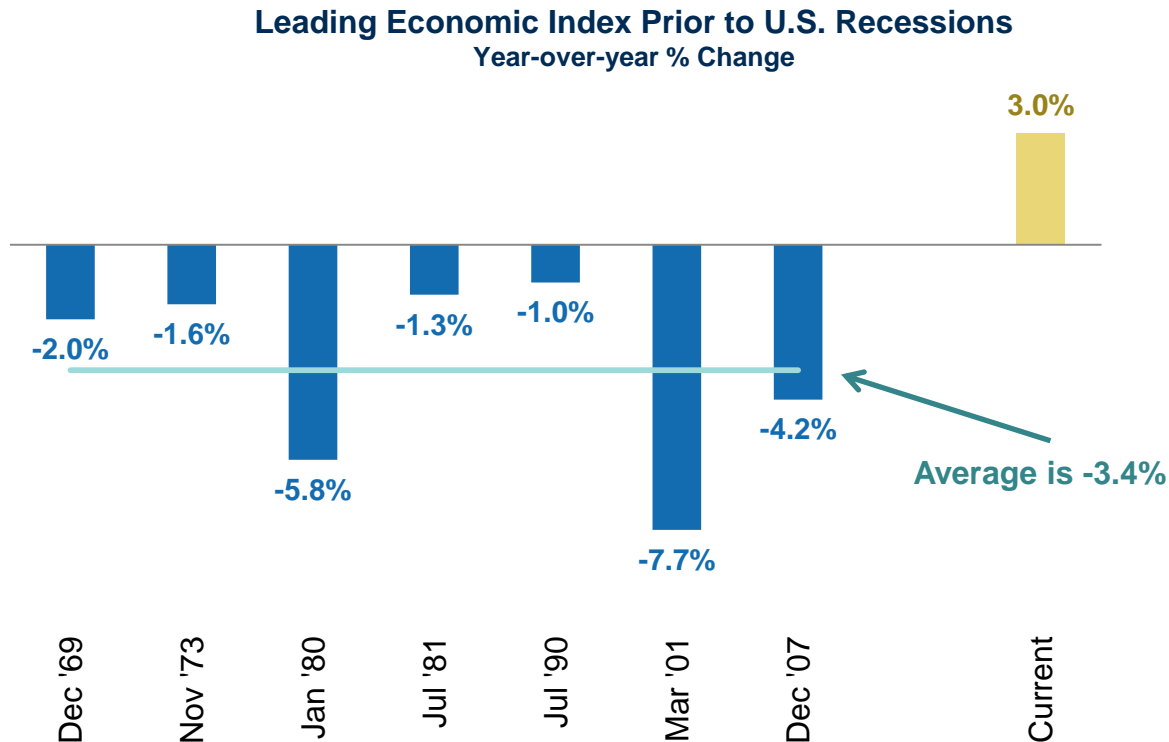
**Debt service ratio indicates households and corporations are not burdened by debt payments**

Source: Bank for International Settlements, March 2019. Debt Service Ratio is the share of income used for interest payments and amortizations in the non-financial private sector. Shaded regions indicate recessions.

# Birthday Wishes

## Follow the Leader

- The Leading Economic Index is a good indicator of future economic growth or lack thereof
- Historically, it has declined on a year-over-year basis leading up to a recession
- Currently, it is rising, indicating continued economic growth, albeit at a slower pace

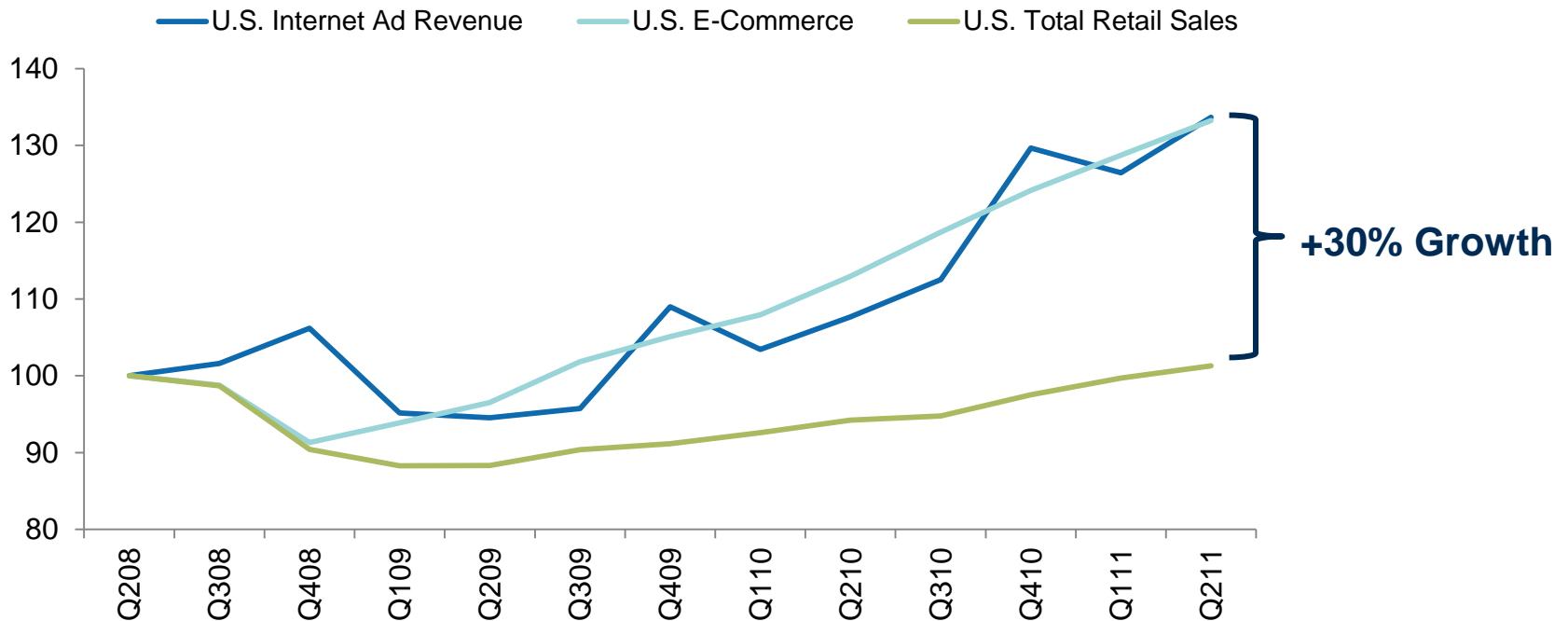


**Leading economic index does not indicate recession**

# Birthday Wishes

## Innovation Through Economic Cycles

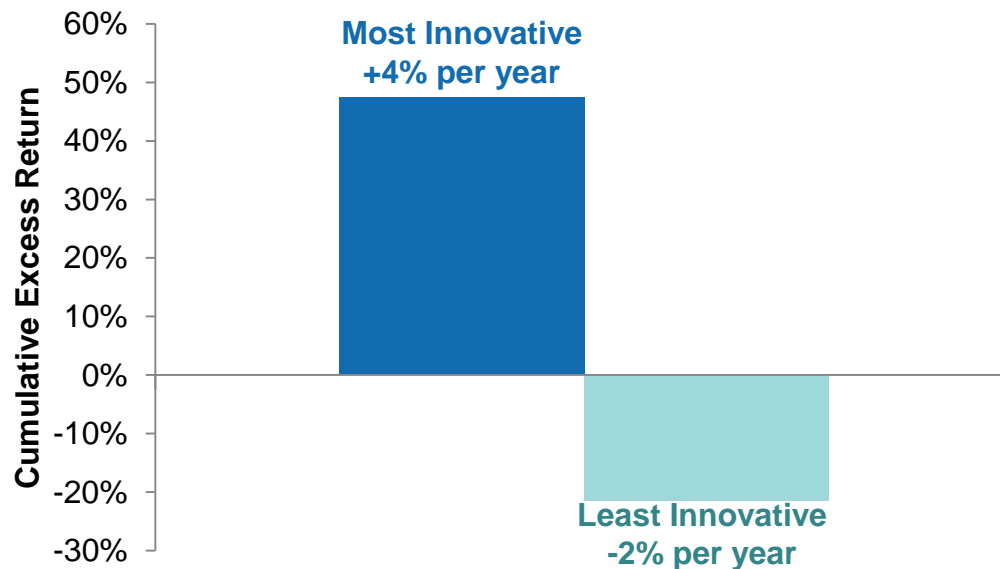
- Innovation can flourish even if the economy languishes
  - History shows that there are areas of innovation and growth throughout recessions, depressions and panics over the past 150 years\*



Source: Bureau of Economic Analysis, PwC, Census Bureau. \*See Alger's white paper "The Enduring Force of Innovation."

- Studies have shown, and our research demonstrates, that the most innovative companies grow their sales, earnings, and stock prices faster\*

### Innovation Drives Excess Performance 10 Years



Source: FactSet. Most/least innovative stock excess performance is derived from highest and lowest S&P 1500 quintiles based on R&D as % of sales, normalized for market value, using one month returns for 10 years ending 12/31/18. \*Baruch Lev and Suresh Radhakrishnan, "The Stock Market Valuation of R&D Leaders."

# Performance

## Sentiment Swing

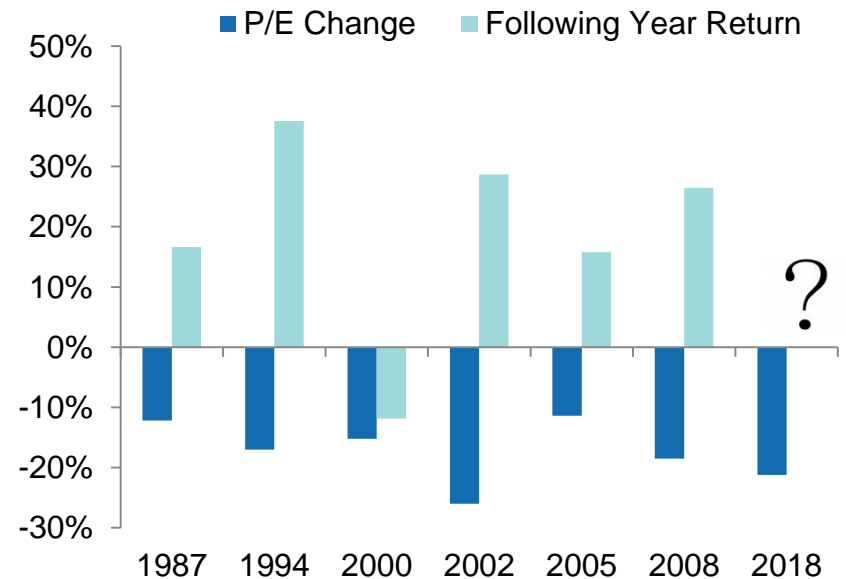
- Last year, equity valuations had their second largest decline in three decades (-21%)
- This year sentiment has rebounded (+14%)

- Year-to-date returns have been broadly consistent with historical precedent
- Annual returns averaged 19% after double-digit declines in P/E

Change in S&P 500 P/E



Double-Digit S&P 500 P/E Declines

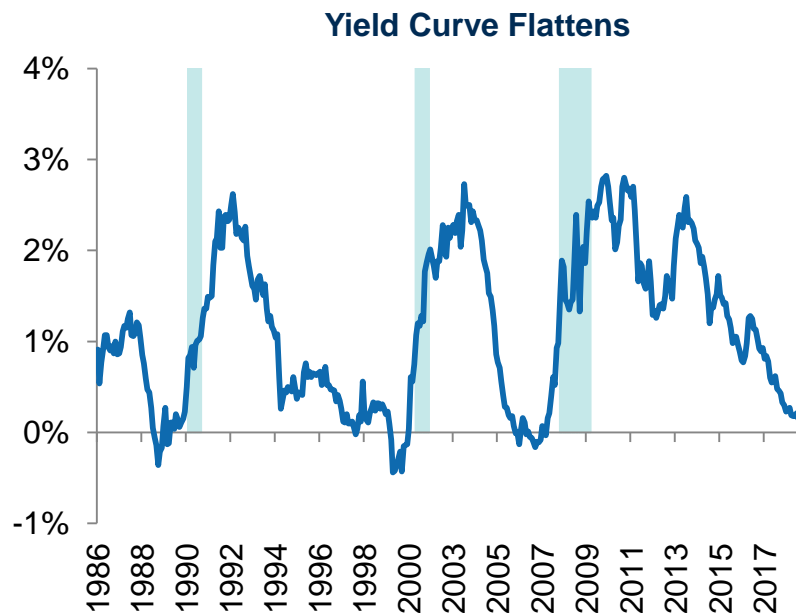


Source: FactSet and Alger. Data is 1987-2019.

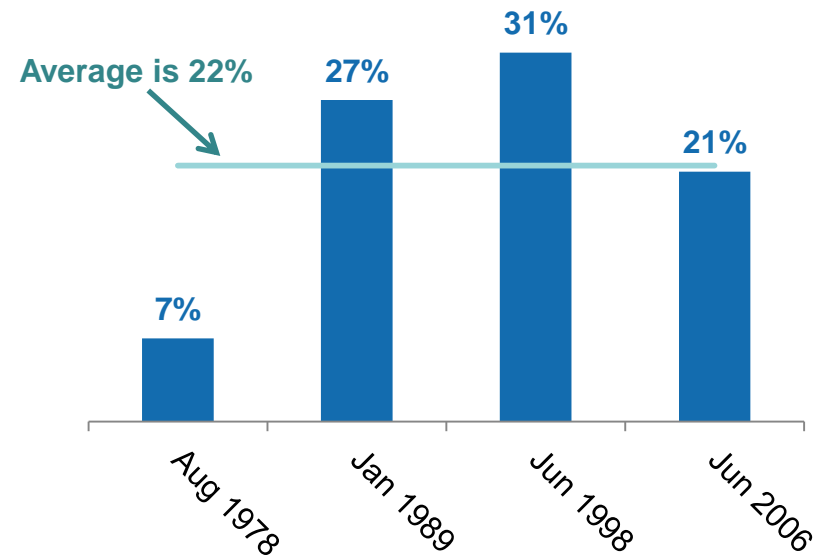
# Performance

## Yield Curve Flattens

- During the first quarter, the Treasury yield curve, or spread between the 10-year and 2-year Treasury yields, flattened
- While an inversion in the curve often signals a recession ahead, we believe 1) the very low level of interest rates is distorting its signal and 2) equity returns are often strong after inversion



### Equity Performance After Initial Yield Curve Inversion

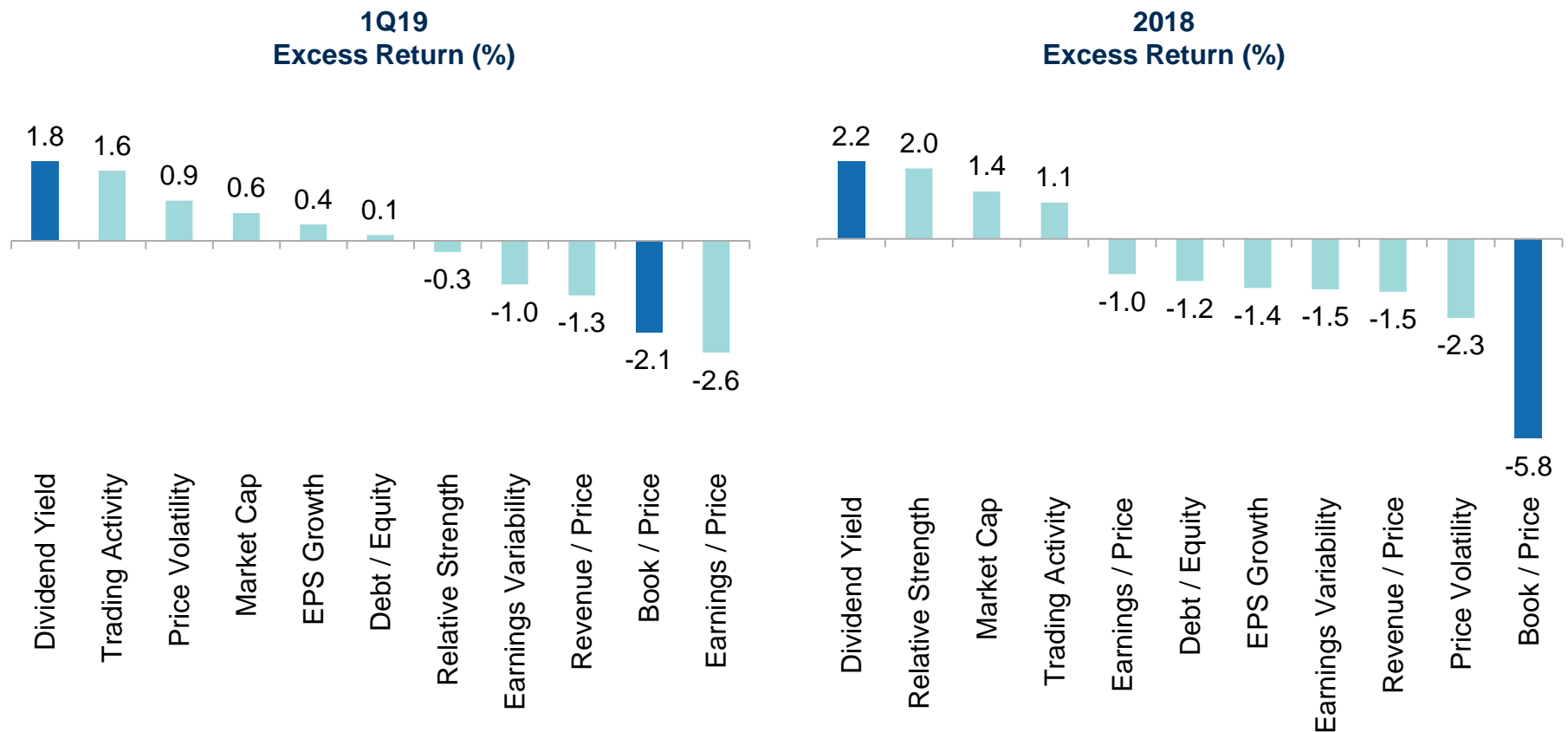


Source: FactSet as of 3/31/19. Yield curve represented by 10-year less 2-year Treasury yield (monthly data).

# Performance

## The Search for Yield

- In 1Q19, dividend yield outperformed as interest rates declined while the secularly challenged low price-to-book stocks continued to lag

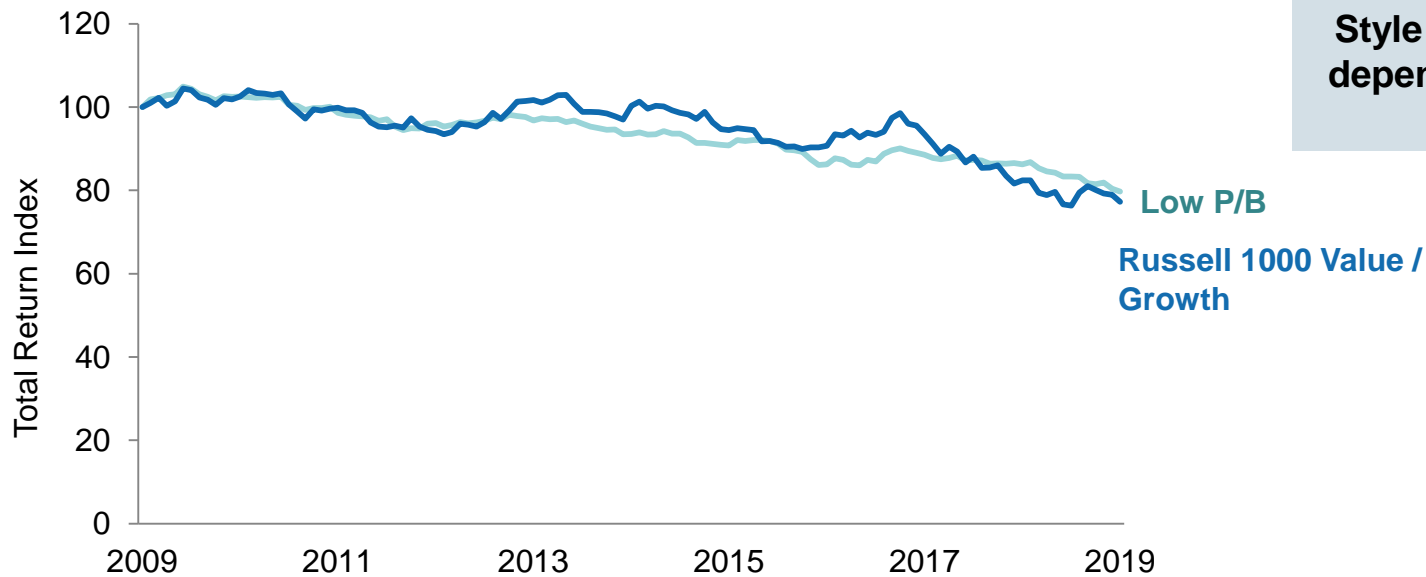


Source: FactSet as of 3/31/19 using Northfield defined quantitative factors for the Northfield broad U.S. market database.

# Performance

## Structural Issues Driving Growth vs. Value

- Growth stocks have dramatically outperformed (~30%) Value stocks over the past decade
- The driver has been the very weak performance of the valuation metric Price-to-Book, which is used heavily in index classifications of Growth vs. Value stocks
- As accounting fails to keep up with the changing economy, book value may no longer be as relevant (e.g., R&D is not capitalized in book value)



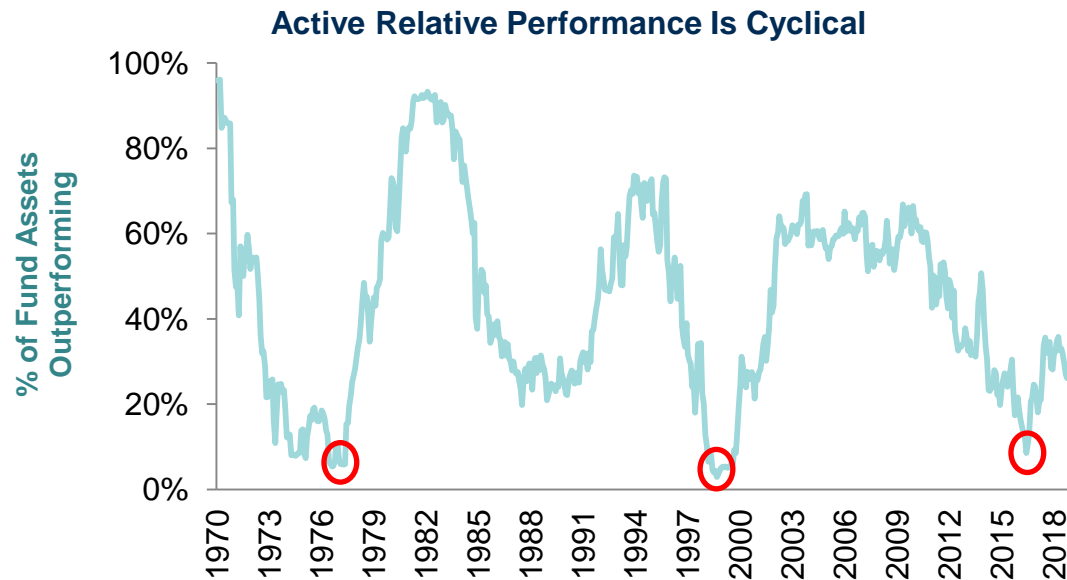
Source: FactSet as of 3/31/19. Low price-to-book returns are based on the B/P Northfield factor for the Northfield broad U.S. market database.



# Performance

## Has Active Relative Performance Troughed?

- Factors that impact U.S. active relative performance often prove to be cyclical
  - Interest rates/bond-like equities
  - Small cap performance
  - Overall market performance
  - Non-U.S. stock performance

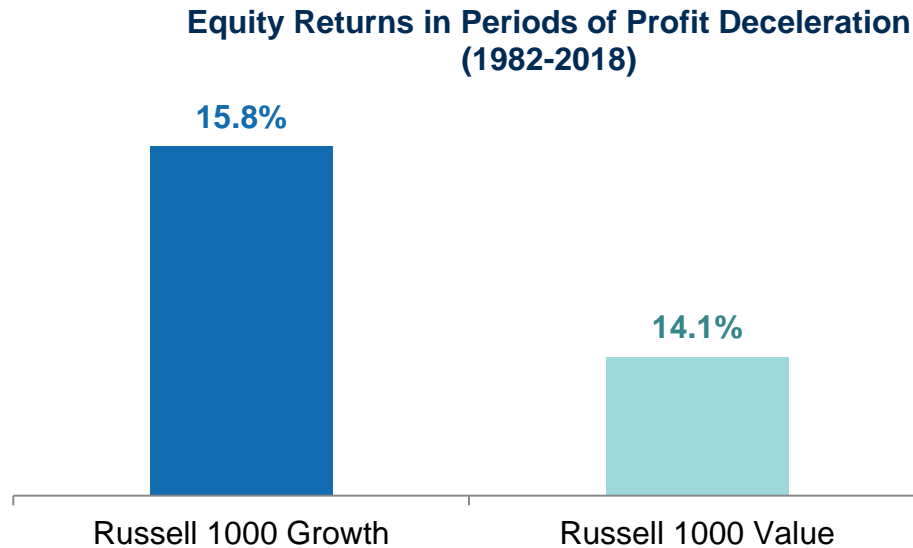


Source: Nomura/Instinet, Joseph Mezrich and FactSet through 3/31/19. Fund performance is trailing five-year data of U.S. active equity mutual funds in existence for five years or more and part of the growth, growth & income, and income categories based on CRSP codes.

# Performance

## What Outperforms in a Slowdown?

- Growth equities typically outperform when overall EPS growth decelerates, likely because:
  - Growth equities are less cyclical
  - Value stocks have more operational and financial leverage
  - Higher growth is more scarce



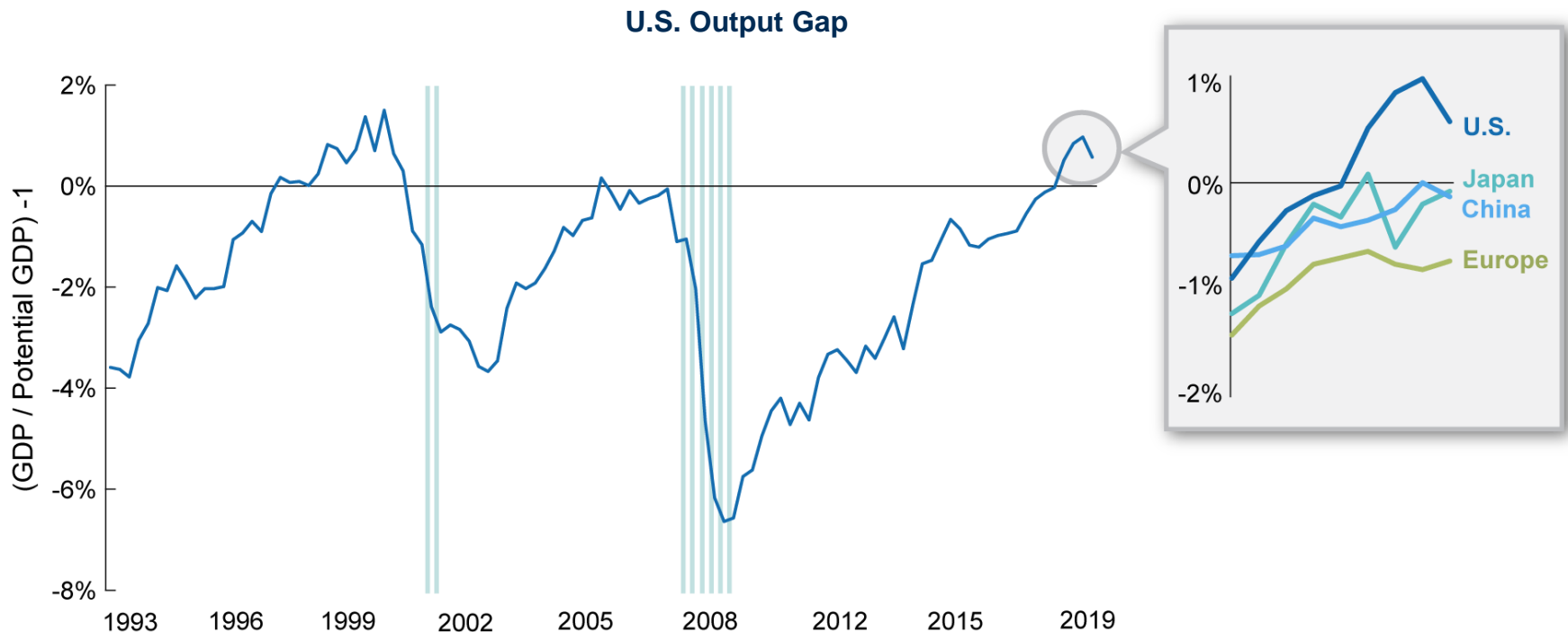
**Growth has historically outperformed Value when fundamentals decelerate**

Source: Bank of America Merrill Lynch Quantitative Strategy. Median data for periods: Jun 1984-Dec 1985, Jun 1988-Dec 1991, Mar 1995-Sep 1998, Mar 2000-Dec 2001, Dec 2003-Jun 2005, Mar 2006-Mar 2009, Jun 2010-Sep 2012, and Dec 2013-Dec 2015.

# Fundamentals

## Better to Be Behind?

- The output gap measures economic output relative to potential, with a lower output gap indicating more growth left in the cycle
- While most major regions are at or near potential output, some, such as Europe, are further behind the U.S.

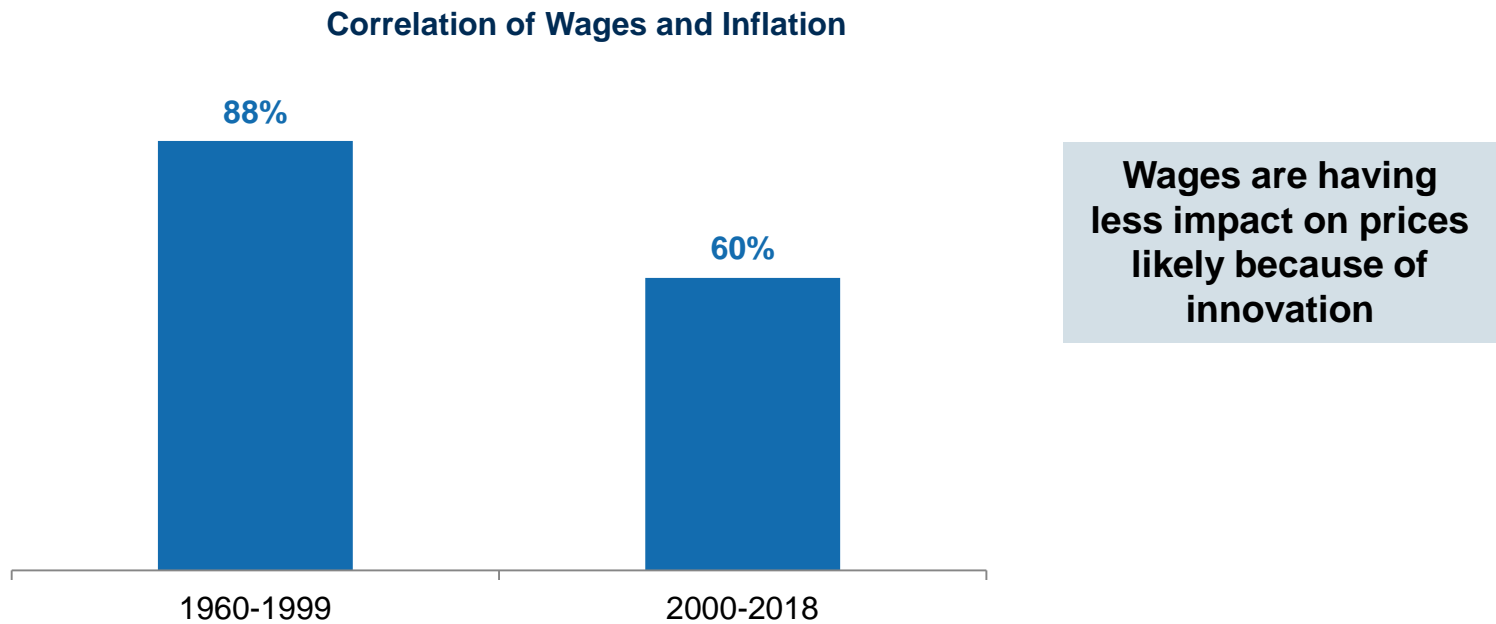


Source: FactSet and Oxford Economics as of 3/31/19. Shaded regions indicate U.S. recessions.

# Fundamentals

## Innovation Deflation

- While the positive output gap in the U.S. indicates inflation pressures, we believe innovation in the form of pricing transparency, new business models, and automation is driving down inflation
  - An indication of this dynamic is the declining correlation of wages and inflation



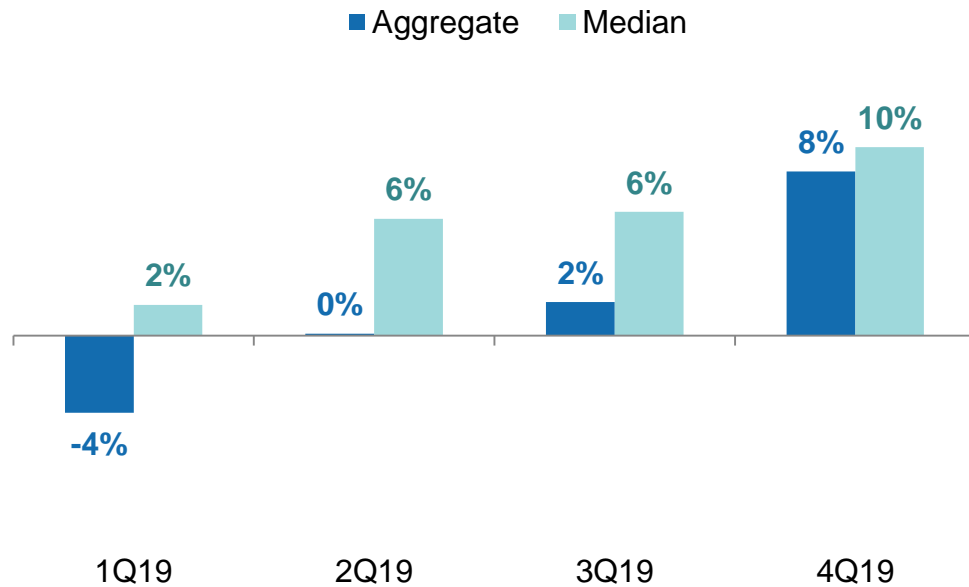
Source: Alger analysis, U.S. Bureau of Economic Statistics, and U.S. Bureau of Labor Statistics. Wages are year-over-year change in unit labor costs and inflation is year-over-year change in PCE price deflator ex-food & energy.

# Fundamentals

## Growth Acceleration

- After an impressive 2018, EPS growth has been under pressure in early 2019
- While the economy has slowed, idiosyncratic issues are also at work, as illustrated by the stronger S&P 500 *median* EPS growth rate
- Importantly, the economy and EPS growth are forecasted to accelerate through 2019

**S&P 500 EPS Growth Is Forecasted to Improve**

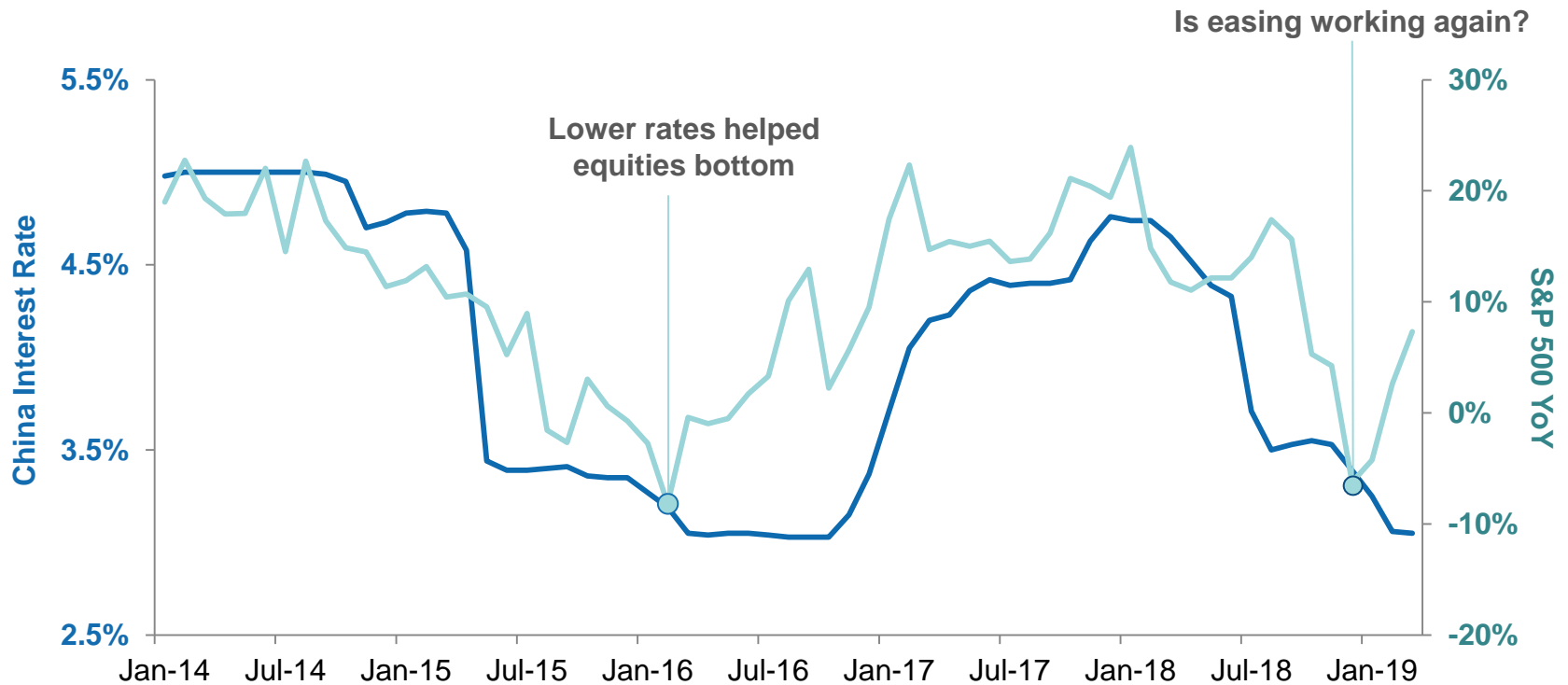


**EPS growth  
forecasted to  
quickly return to  
solid levels**

# Fundamentals

## China Is Stimulating

- Chinese growth has been a key driver in the volatility of global equities
- Through various means, China is working to stimulate its economy
- A trade deal would go a long way to help the decelerating Chinese economy but stimulus may pick up some of the burden

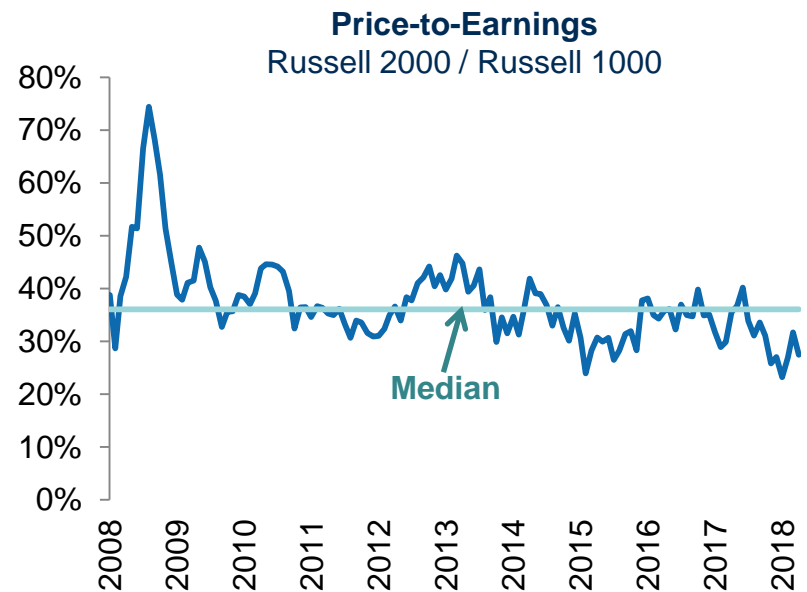
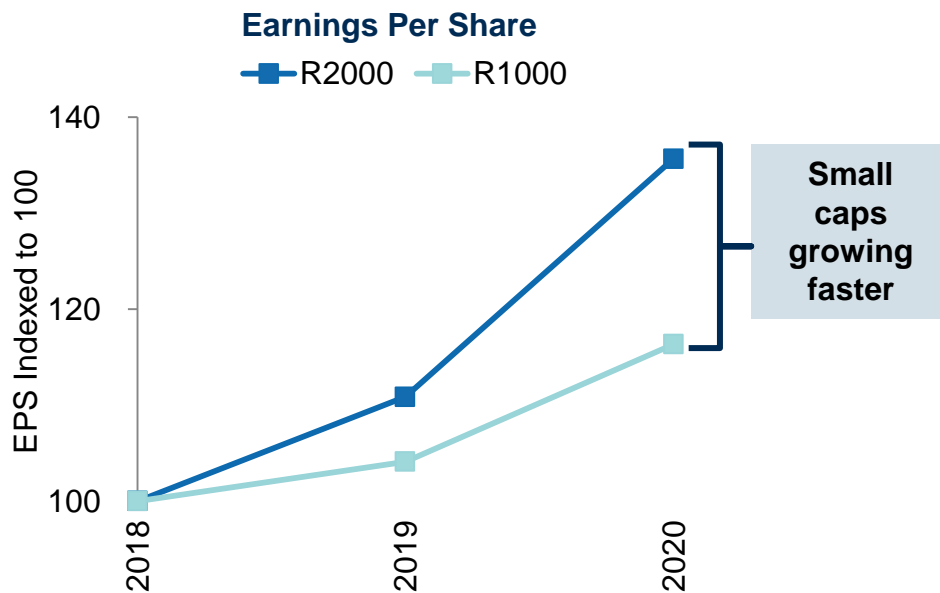


Source: FactSet as of March 2019. China interest rate is SHIBOR one year rate.

# Fundamentals

## Smaller Capitalization Stocks Poised to Outperform

- **Compelling valuation:** Small cap P/E multiple premium is low relative to history
- **Stronger fundamentals:** Estimated small cap EPS growth for '19 & '20 is double that of large cap
- **More levered to domestic economy:** U.S. small caps have less exposure to international economies

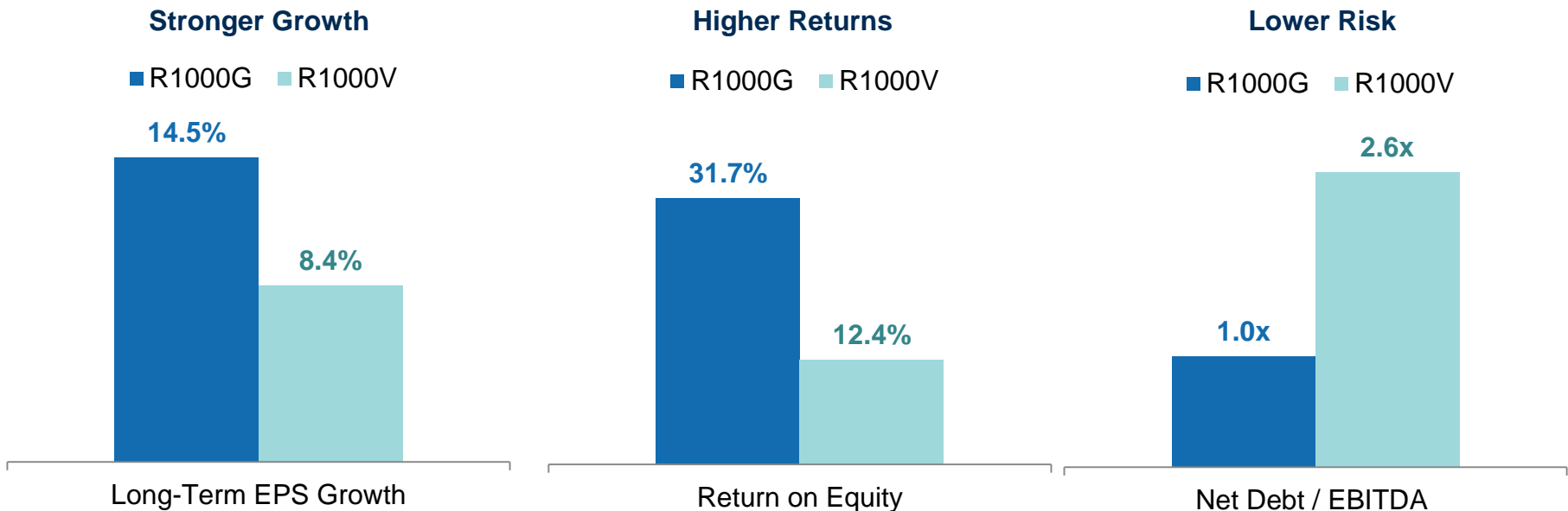


Source: FactSet as of March 2019 . EPS for 2019-2020 are consensus estimates and actual earnings per share might be materially different than shown.

# Fundamentals

## The Growth Advantage

- Three variables drive P/E multiples: growth, return on capital, and risk
- As compared to the Russell 1000 Value Index, the Russell 1000 Growth Index has higher expected EPS growth, higher return on equity, and lower risk in the form of better balance sheets



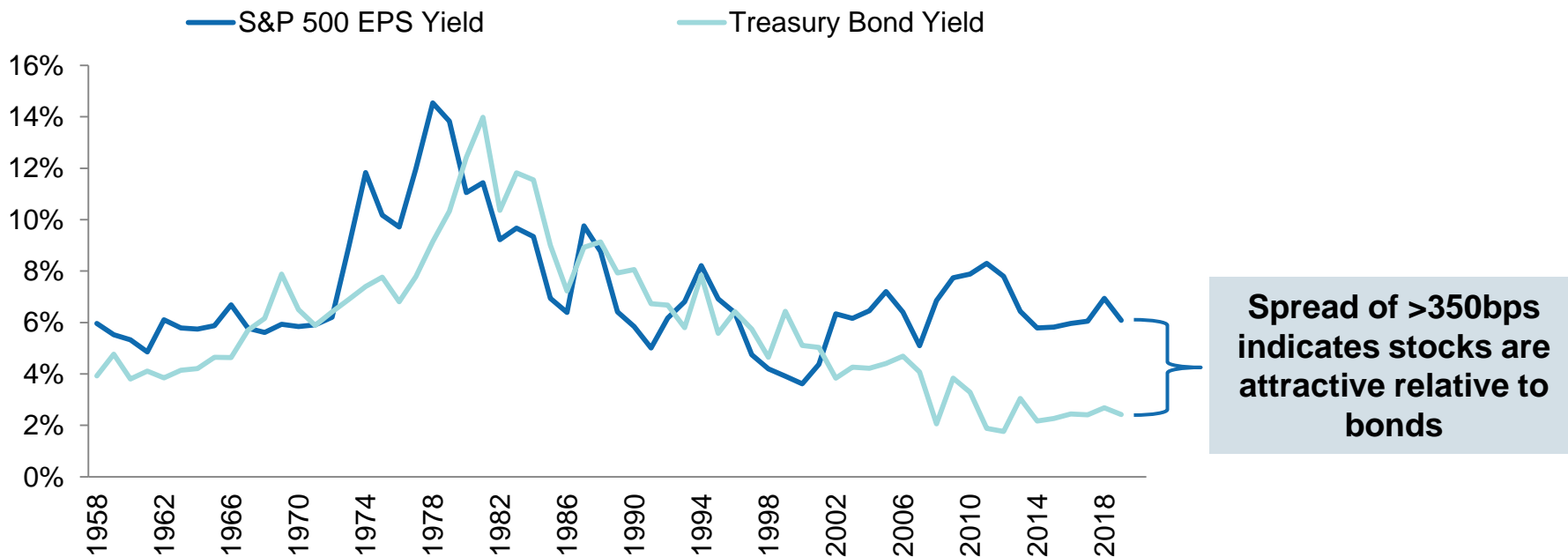
Source: FactSet as of 3/31/19. Growth represents consensus long-term analyst estimates and actual future EPS growth rates might be materially different than the forecasts shown.



# Valuation

## Stocks Are Cheap Relative to Bonds

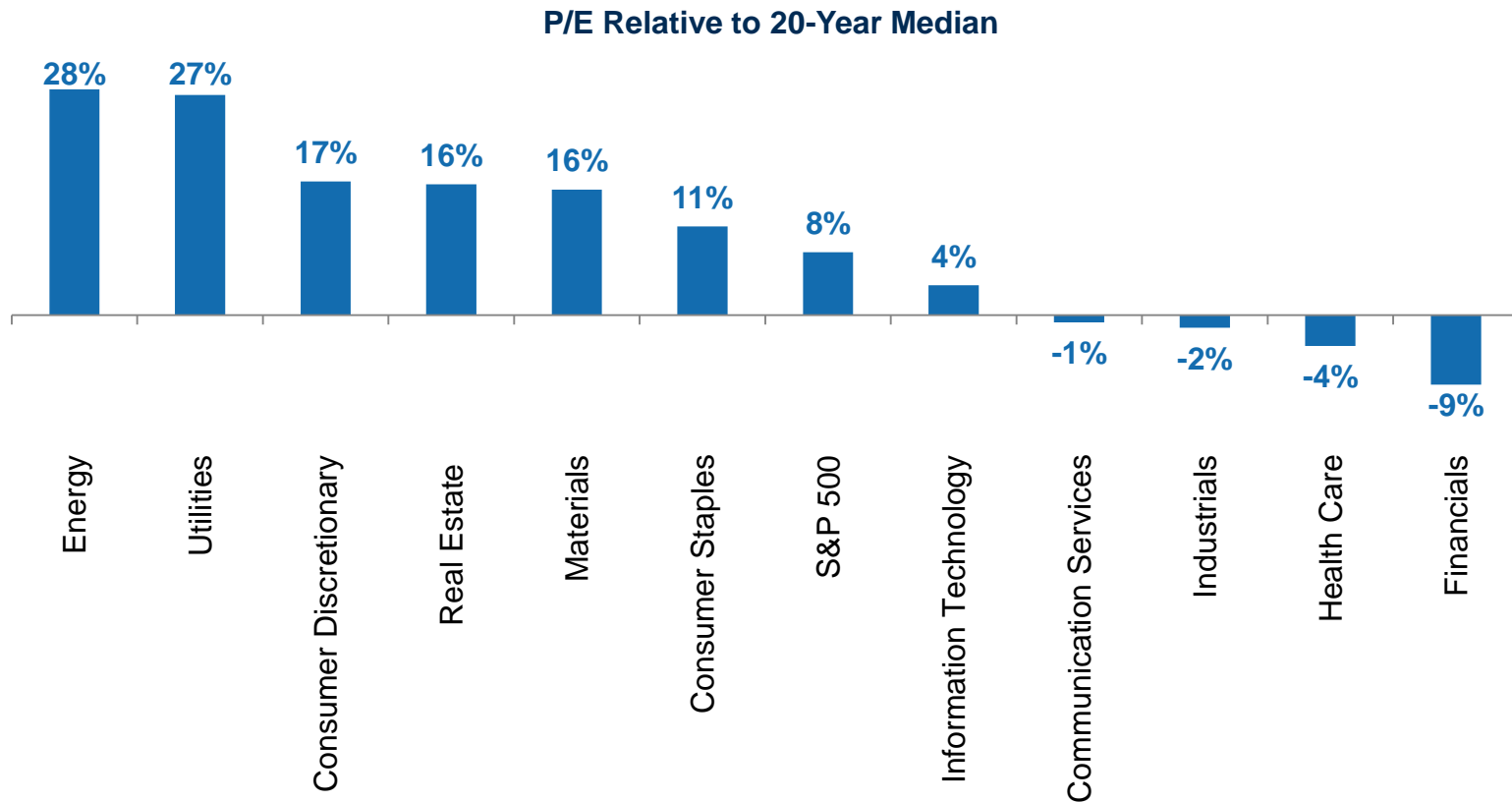
- Historically, the “earnings yield” of equities (inverse of the P/E) has been just modestly above 10-year Treasury yields
- Since the Global Financial Crisis, however, that spread has widened out and has yet to normalize, making equities attractive relative to bonds



# Valuation

## What Is In and Out of Favor?

- Sector valuation varies with the more bond-like equity sectors trading at premiums to the market



Source: FactSet and UBS, based on S&P 500 Index as of 3/31/19. The Communication Services, Consumer Discretionary, and Technology sectors' historical data have been restated to reflect September 2018 changes to the GICS sector classifications. Note that Consumer Discretionary ex-Internet Retail is a 1% premium to its 20-year median.

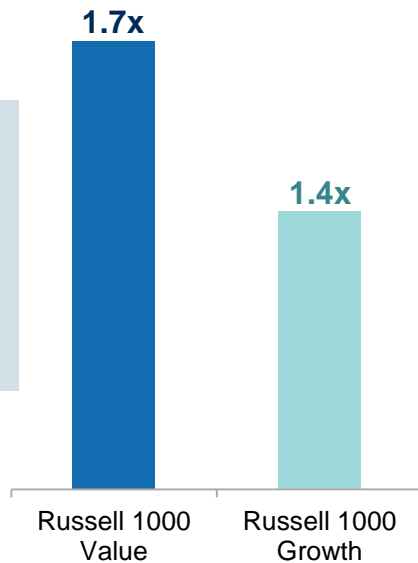
# Valuation

## Growth and Value Near Equilibrium

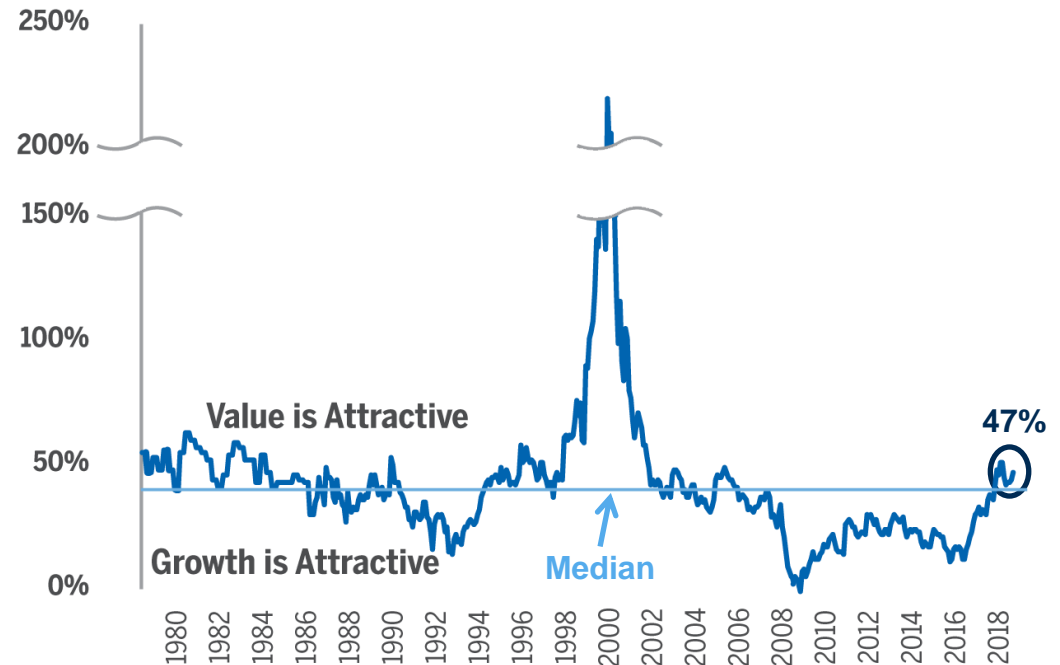
- Despite their outperformance over the past several years, Growth stocks are not very expensive compared to their Value equity counterparts relative to expected growth rates or history

**Russell 1000 Growth vs. Russell 1000 Value  
PEG Ratio**  
(P/E Divided by Long-Term Growth Rate)

**Growth  
stocks are  
cheaper  
relative to  
long-term  
growth**



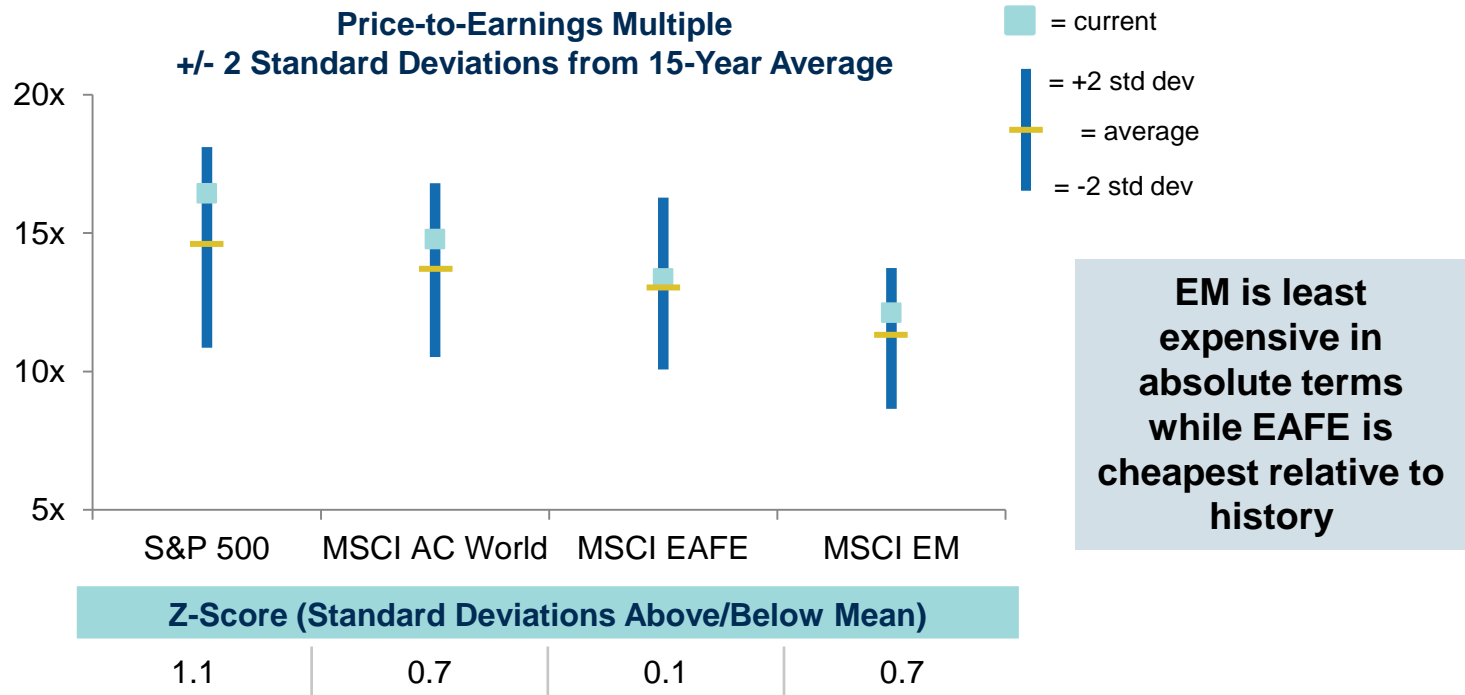
**Russell 1000 Growth Relative to  
Russell 1000 Value P/E**



# Valuation

## Global Equity Valuations Are Reasonable

- Price-to-earnings multiples around the world are modestly above their historical average, which is reasonable relative to very low global interest rates

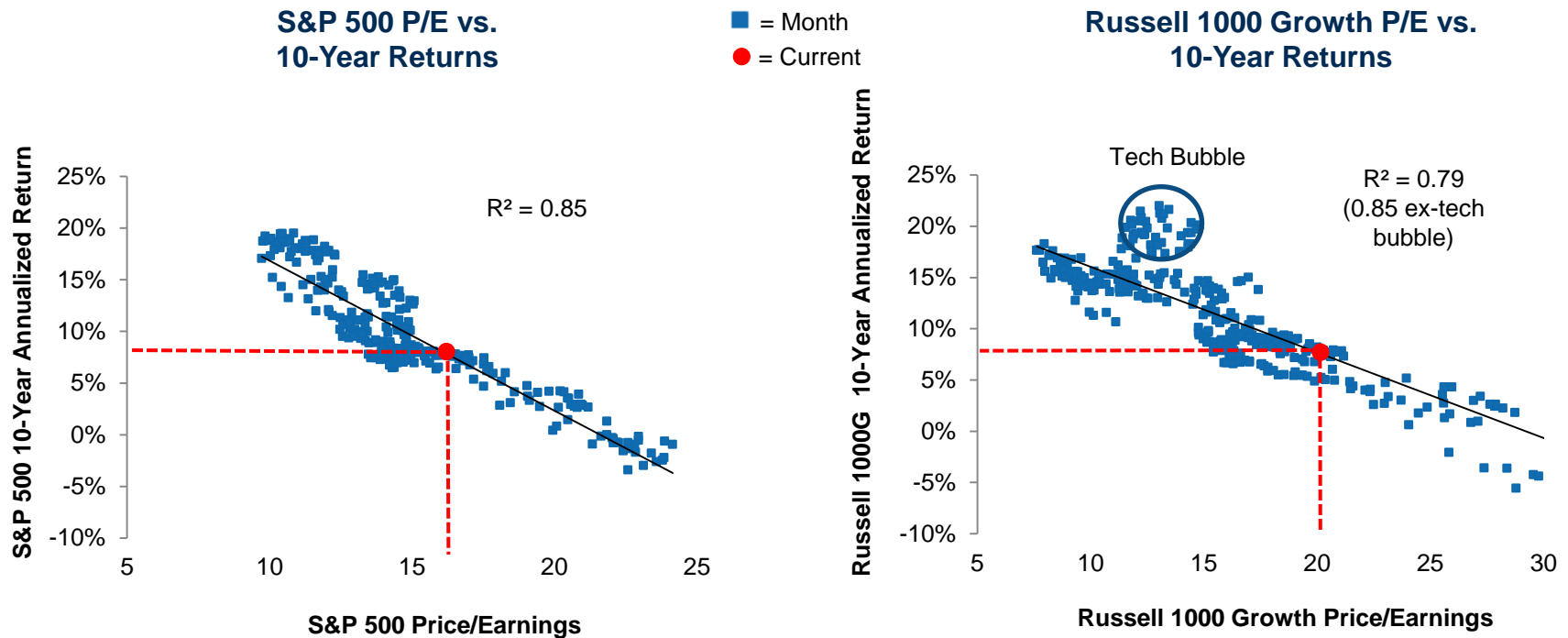


Source: FactSet. Monthly estimates over past 15 years ending 3/31/19. MSCI AC World represents developed and emerging markets globally. MSCI EAFE represents developed countries in Europe, Australasia and the Far East. MSCI EM represents emerging markets globally. A Z-Score is the number of standard deviations a data point is from the mean. A z-score equal to zero, it is on the mean. If a z-score is equal to +1, it is 1 standard deviation above the mean. Standard deviation measures how much the data has deviated from its average. If data has a high standard deviation, there is large deviation from its mean, and vice versa. Standard deviation is generally used to compare the relative volatility of data sets.

# Valuation

## Framework for Forecasting Returns

- There is a strong relationship between starting valuations and ensuing 10-year returns
- Current valuations suggest equities should materially outperform bonds over the coming decade



Source: FactSet. Each dot represents the P/E during that month and the returns generated over the subsequent 10 years. The starting P/E ratio is the price divided by the next 12-month earnings per share estimate at the start of each 10-year period measured. Monthly data through March 2019 and beginning in January 1986 (S&P 500) and December 1978 (Russell 1000 Growth). The tech bubble, represented by the 10-year returns beginning in April 1987-March 1990 and ending in April 1997-March 2000, skewed the regression by resulting in higher returns for given valuations than the historical relationship would imply.

# Disclosure

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