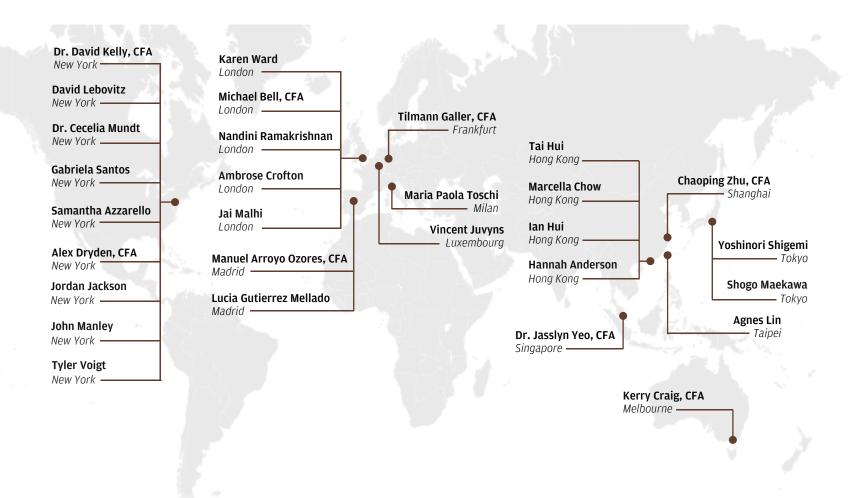
MARKET INSIGHTS

Guide to the Markets®

U.S. | 3Q 2018 | As of June 30, 2018



Global Market Insights Strategy Team





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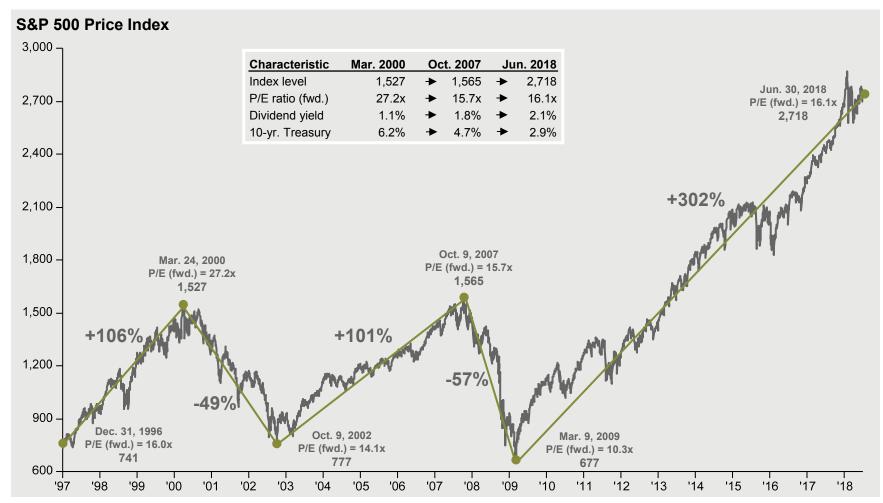
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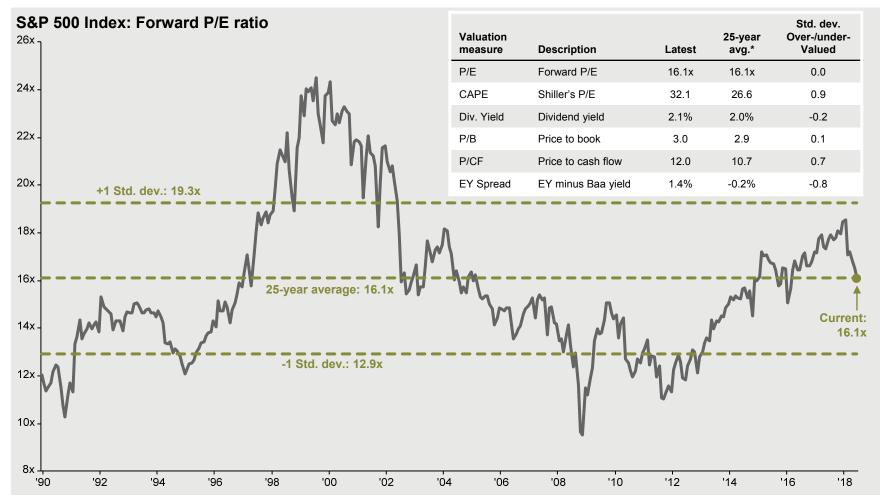
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Source: Compustat, FactSet, Federal Reserve, Standard & Poor's, Thomson Reuters, J.P. Morgan Asset Management. Dividend yield is calculated as consensus estimates of dividends for the next 12 months, divided by most recent price, as provided by Compustat. Forward price to earnings ratio is a bottom-up calculation based on the most recent S&P 500 Index price, divided by consensus estimates for earnings in the next 12 months (NTM), and is provided by FactSet Market Aggregates. Returns are cumulative and based on S&P 500 Index price movement only, and do not include the reinvestment of dividends. Past performance is not indicative of future returns. *Guide to the Markets – U.S.* Data are as of June 30. 2018.





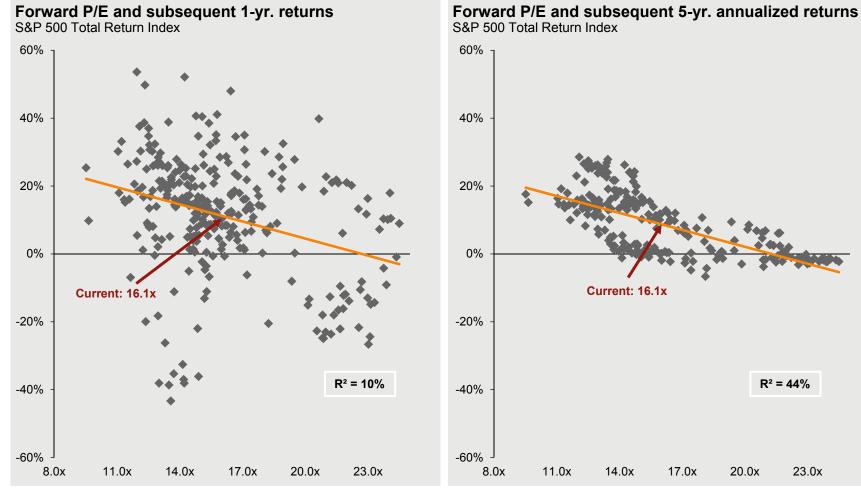
Source: FactSet, FRB, Robert Shiller, Standard & Poor's, Thomson Reuters, J.P. Morgan Asset Management.

Price to earnings is price divided by consensus analyst estimates of earnings per share for the next 12 months as provided by IBES since December 1989, and FactSet for June 30, 2018. Average P/E and standard deviations are calculated using 25 years of FactSet history. Shiller's P/E uses trailing 10-years of inflation-adjusted earnings as reported by companies. Dividend yield is calculated as the next 12-month consensus dividend divided by most recent price. Price to book ratio is the price divided by book value per share. Price to cash flow is price divided by NTM cash flow. EY minus Baa yield is the forward earnings yield (consensus analyst estimates of EPS over the next 12 months divided by price) minus the Moody's Baa seasoned corporate bond yield. Std. dev. over-/under-valued is calculated using the average and standard deviation over 25 years for each measure.

*P/CF is a 20-year average due to cash flow data availability.

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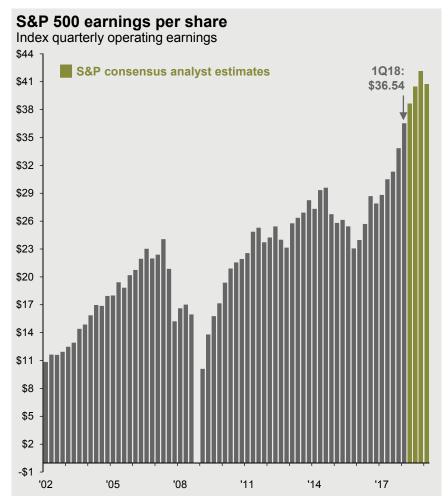


Source: FactSet, Standard & Poor's, Thomson Reuters, J.P. Morgan Asset Management. Returns are 12-month and 60-month annualized total returns, measured monthly, beginning June 30, 1993. R2 represents the percent of total variation in total returns that can be explained by forward P/E ratios. Guide to the Markets – U.S. Data are as of June 30, 2018.



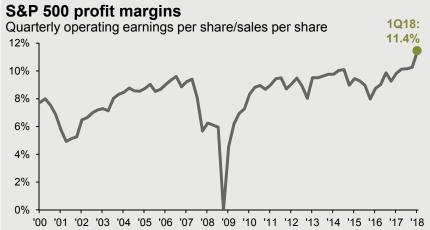
23.0x

 $R^2 = 44\%$



Year-over-year % change*, quarterly, USD major currencies index 20% S&P 500 revenues Forecast assumes 16% U.S. no change 12% International 43% in USD 2Q18: -5.0% 8% 4% 0% -4% -8% -12% '12 '13 '15 '16 '17 '18 '19

U.S. dollar



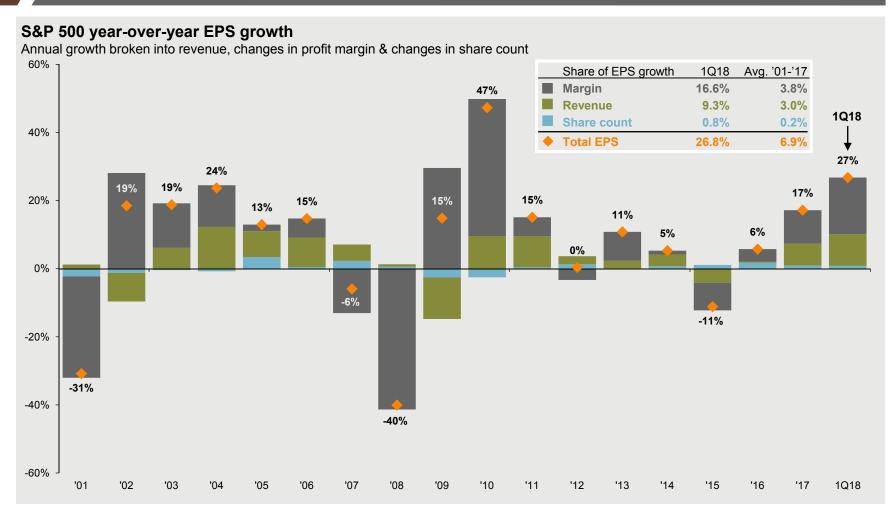
Source: Compustat, FactSet, Standard & Poor's, J.P. Morgan Asset Management; (Top right) Federal Reserve, S&P 500 individual company 10k filings, S&P Index Alert.

EPS levels are based on operating earnings per share. Earnings estimates are Standard & Poor's consensus analyst expectations. Past performance is not indicative of future returns. Currencies in the Trade Weighted U.S. Dollar Major Currencies Index are: Australian dollar, British pound, Canadian dollar, euro, Japanese yen, Swedish krona and Swiss franc. *Year-over-year change is calculated using the quarterly average for each period. USD forecast assumes no change in the U.S. dollar from its June 30, 2018 level. S&P 500 revenue breakdown comes from Standard & Poor's S&P 500 2016: Global Sales report as of June 2017.

Guide to the Markets – U.S. Data are as of June 30, 2018.



Sources of earnings per share growth



Source: Compustat, FactSet, Standard & Poor's, J.P. Morgan Asset Management.

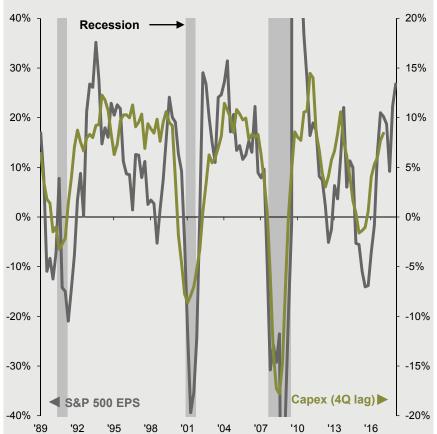
EPS levels are based on annual operating earnings per share except for the most recent quarter. Percentages may not sum due to rounding. Past performance is not indicative of future returns.

Data are as of June 30, 2018.

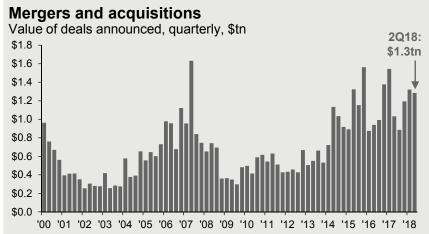


Earnings growth and capex

S&P 500 operating earnings, private non-res. fixed investment, y/y



Cash returned to shareholders S&P 500 companies, rolling 4-quarter averages, \$bn \$51 \$160 ■ Dividends per share \$47 \$140 \$43 \$120 \$39 \$100 \$35 \$31 \$80 \$27 \$60 \$23 \$40 \$19 Share buybacks ▶ \$15 \$20 '00 '01 '02 '03 '04 '05 '06 '07 '08 '09 '10 '11 '12 '13 '14 '15 '16 '17 '18



Source: BEA, Bloomberg, Compustat, FactSet, Standard & Poor's, J.P. Morgan Asset Management.

M&A activity is the quarterly value of officially announced transactions, and capital expenditures are private non-residential fixed domestic investment. 1Q18 earnings are calculated using actual earnings for 98.3% of S&P 500 market cap and earnings estimates for the remaining companies.

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2	Q 2018			Y	TD		
	Value	Blend	Growth		Value	Blend	Growth
Large	1.2%	3.4%	5.8%	Large	-1.7%	2.6%	7.3%
Mid	2.4%	2.8%	3.2%	Mid	-0.2%	2.3%	5.4%
Small	8.3%	7.8%	7.2%	Small	5.4%	7.7%	9.7%
S		-	tober 2007)	Si		t low (Marc	-
	Value	Blend	Growth		Value	Blend	Growth
Large	79.2%	118.7%	168.7%	Large	346.9%	388.6%	448.1%
Mid	117.8%	129.0%	139.8%	Mid	456.2%	452.6%	454.4%
Small	105.3%	125.5%	145.2%	Small	407.6%	443.8%	478.6%

Current P/E vs. 20-year avg. P/E

	Va	lue	Ble	end	Gro	wth
ge	13.8		16.1	/	20.3	/
Large		13.8		16.0		19.8
<u>0</u>	14.3	/	16.5	/	21.4	
Mid		14.2		16.2		21.1
Small	15.6	/	21.9	/	36.7	/
Sm		16.0		20.1		29.0

Current P/E as % of 20-year avg. P/E

	Value	Blend	Growth
Large	99.8%	101.1%	102.8%
Mid	101.2%	102.1%	101.6%
Small	97.3%	109.3%	126.4%

Source: FactSet, Russell Investment Group, Standard & Poor's, J.P. Morgan Asset Management.

All calculations are cumulative total return, including dividends reinvested for the stated period. Since Market Peak represents period 10/9/07 – 6/30/18, illustrating market returns since the S&P 500 Index high on 10/9/07. Since Market Low represents period 3/9/09 – 6/30/18, illustrating market returns since the S&P 500 Index low on 3/9/09. Returns are cumulative returns, not annualized. For all time periods, total return is based on Russell style indices with the exception of the large blend category, which is based on the S&P 500 Index. Past performance is not indicative of future returns. The price to earnings is a bottom-up calculation based on the most recent index price, divided by consensus estimates for earnings in the next 12 months (NTM), and is provided by FactSet Market Aggregates. *Guide to the Markets – U.S.* Data are as of June 30, 2018.



	cials	: 215	estate	rials	discr	· glogy	, ,	Care	Stap	es es	S	obide	•
	Financials	Materials	RealEstate	Industrials	cons. Discr	Technology	Energy	Health Care	Cons. Stapl	Telecom	Utilities	58P 500 Inde	
S&P weight Russell Growth weight Russell Value weight	4.4%	2.6% 1.8% 4.1%	2.9% 2.2% 4.9%	9.5% 11.9% 7.9%	12.9% 17.9% 8.3%	26.0% 41.5% 9.9%	6.3% 1.0% 11.1%	14.1% 13.4% 13.9%	7.0% 5.7% 7.3%	2.0% 0.2% 3.6%	2.9% 0.0% 5.7%	100.0% 100.0% 100.0%	Weight
QTD	-3.2	2.6	6.1	-3.2	8.2	7.1	13.5	3.1	-1.5	-0.9	3.7	3.4	
YTD	-4.1	-3.1	8.0	-4.7	11.5	10.9	6.8	1.8	-8.5	-8.4	0.3	2.6	(%)
Since market peak (October 2007)	13.9	71.3	68.8	103.7	245.5	231.5	24.2	182.8	147.5	41.5	91.6	118.7	Return (%)
Since market low (March 2009)	521.7	307.9	525.7	459.8	699.7	594.6	127.4	355.9	247.0	170.3	235.3	388.6	
Beta to S&P 500	1.44	1.30	1.29	1.23	1.13	1.07	0.98	0.74	0.59	0.56	0.42	1.00	ದ
Correl. to Treas. yields	0.71	0.32	-0.58	0.37	0.26	-0.20	0.44	-0.02	-0.37	0.06	-0.53	0.19	q
Foreign % of sales	30.8	53.0	-	44.9	35.1	57.2	58.9	37.4	33.7	17.4	46.3	43.2	%
NTM Earnings Growth	23.9%	25.3%	4.4%	16.4%	13.8%	27.2%	68.4%	14.7%	9.4%	19.3%	7.8%	21.1%	EPS
20-yr avg.	5.5%	8.9%	2.8%*	6.5%	9.5%	9.8%	11.5%	9.1%	5.7%	3.0%	2.6%	6.2%	Ш
Forward P/E ratio	12.1x	15.4x	17.5x	15.7x	20.7x	18.2x	17.9x	15.1x	17.1x	10.2x	16.4x	16.1x	
20-yr avg.	12.8x	14.0x	15.2x	16.2x	18.0x	20.8x	17.6x	17.2x	17.0x	16.2x	14.2x	16.0x	PÆ
Trailing P/E ratio	14.2x	21.6x	37.4x	18.8x	21.8x	27.6x	19.4x	28.6x	20.0x	6.7x	17.3x	20.6x	-
20-yr avg.	15.5x	18.6x	35.9x	19.8x	18.9x	25.6x	17.4x	24.1x	20.7x	19.5x	15.8x	19.5x	
Dividend yield	2.1%	2.1%	3.6%	2.1%	1.4%	1.3%	2.9%	1.8%	3.2%	5.8%	3.7%	2.1%	Div
20-yr avg.	2.3%	2.6%	4.4%	2.1%	1.4%	0.9%	2.3%	1.8%	2.7%	4.1%	4.0%	2.0%	٥

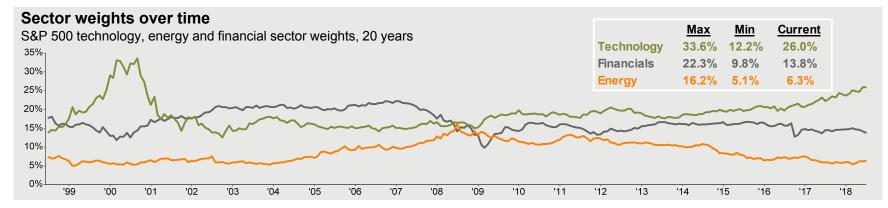
Source: FactSet, Russell Investment Group, Standard & Poor's, J.P. Morgan Asset Management. All calculations are cumulative total return, not annualized, including dividends for the stated period. Since market peak represents period 10/9/07 – 6/30/18. Since market low represents period 3/9/09 – 6/30/18. Correlation to Treasury yields are trailing 2-year monthly correlations between S&P 500 sector price returns and 10-year Treasury yield movements. Foreign percent of sales is from Standard & Poor's, S&P 500 2016: Global Sales report as of June 2017. Real Estate foreign sales not included due to lack of availability. NTM Earnings Growth is consensus estimates for earnings in the next 12 months compared to the consensus estimate 1 year ago. Forward P/E ratio is a bottom-up calculation based on the most recent S&P 500 Index price, divided by consensus estimates for earnings in the next 12 months (NTM), and is provided by FactSet Market Aggregates. Trailing P/E ratios are bottom-up values defined as month-end price divided by the last 12 months of available reported earnings. Historical data can change as new information becomes available. Note that P/E ratios for the S&P 500 may differ from estimates elsewhere in this book due to the use of a bottom-up calculation of constituent earnings (as described) rather than a top-down calculation. This methodology is used to allow proper comparison of sector level data to broad index level data. Dividend yield is calculated as the next 12-month consensus dividend divided by most recent price. Beta calculations are based on 10-years of monthly price returns for the S&P 500 and its sub-indices. *Real estate NTM earnings growth is a 15-year average due to data availability. Past performance is not indicative of future returns.



Factor performance and sector weights

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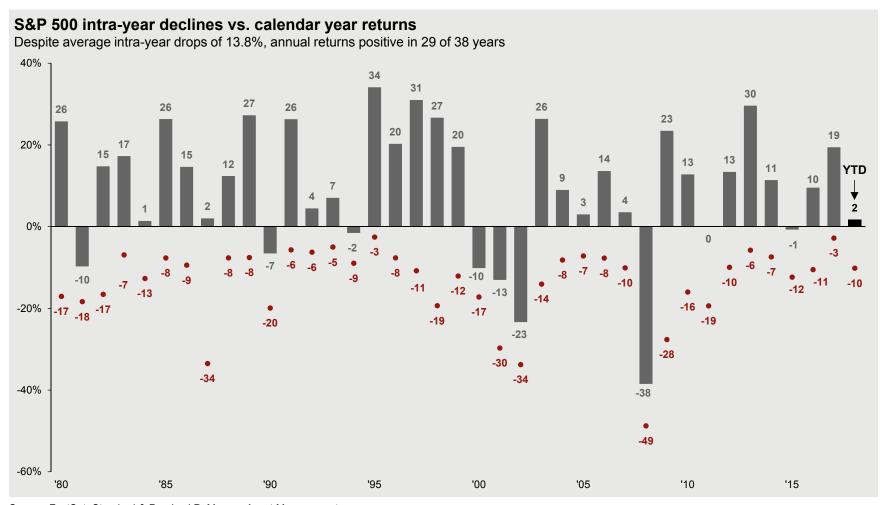
																2003	- 2017
2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	YTD	Ann.	Vol.
Small Cap	Multi- Factor	Momen.	High Div.	Momen.	Min. Vol.	Cyclical	Small Cap	High Div.	Cyclical	Small Cap	Min. Vol.	Momen.	Small Cap	Momen.	Small Cap	Multi- Factor	Small Cap
47.3%	21.1%	19.3%	21.1%	17.8%	-25.7%	36.9%	26.9%	14.3%	20.1%	38.8%	16.5%	9.3%	21.3%	37.8%	7.7%	12.3%	18.8%
Cyclical	Small Cap	Multi- Factor	Small Cap	Defens.	Defens.		Multi- Factor	Min. Vol.	Small Cap	Multi- Factor	High Div.		High Div.	Cyclical	Momen.	Momen.	Cyclical
37.2%	18.3%	15.7%	18.4%	17.7%	-26.7%	32.0%	18.3%	12.9%	16.3%	37.4%	14.9%	7.0%	16.3%	27.3%	7.1%	12.2%	17.5%
Multi- Factor	Momen.	Defens.	Multi- Factor		High Div.	Multi- Factor	Momen.	Defens.	Multi- Factor	Cyclical	Multi- Factor	Min. Vol.	Cyclical	Quality	Cyclical	Small Cap	Momen.
31.6%	16.9%	11.1%	16.6%	10.6%	-27.6%	29.8%	18.2%	10.1%	15.7%	35.0%	14.8%	5.6%	14.0%	26.0%	4.5%	11.2%	15.7%
Momen.	Min. Vol.	Min. Vol.	Defens.	Multi- Factor	Quality	Small Cap	Cyclical		Momen.	Momen.	Momen.	Cyclical	Multi- Factor	Multi- Factor	Quality	Quality	Multi- Factor
26.2%	14.5%	6.6%	15.9%	5.5%	-30.2%	27.2%	17.9%	8.4%	15.1%	34.8%	14.7%	2.6%	13.7%	21.5%	3.9%	10.8%	15.3%
High Div.	Defens.	Small Cap	Cyclical	Min. Vol.	Small Cap	High Div.	High Div.	Multi- Factor		Quality	Cyclical	High Div.	Min. Vol.	High Div.	Min. Vol.	High Div.	High Div.
24.3%	11.9%	4.6%	15.0%	4.3%	-33.8%	18.4%	15.9%	7.3%	14.0%	33.5%	13.6%	0.7%	10.7%	19.5%	1.8%	10.6%	13.6%
Quality	High Div.	High Div.	Min. Vol.	High Div.	Multi- Factor	Min. Vol.	Min. Vol.	Momen.	Min. Vol.	High Div.	Defens.	Multi- Factor	Quality	Min. Vol.	Multi- Factor	Min. Vol.	Quality
20.2%	11.8%	3.7%	15.0%	0.0%	-39.3%	18.4%	14.7%	6.1%	11.2%	28.9%	13.0%	0.4%	8.0%	19.2%	1.4%	10.6%	12.6%
Min. Vol.	Quality	Cyclical	Quality	Cyclical	Momen.	Momen.		Cyclical	Defens.	Defens.	Quality	Defens.	Defens.	Small Cap	Defens.	Cyclical	Defens.
20.0%	10.2%	2.5%	12 . 0 %	-0.8%	-40.9%	17.6%	12.6%	-3.4%	10.7%	28.9%	11.8%	-0.9%	7.7%	14.6%	-0.4%	10.0%	12.0%
Defens.	Cyclical	Quality	Momen.	Small Cap	Cyclical	Defens.	Defens.	Small Cap	High Div.	Min. Vol.	Small Cap	Small Cap	Momen.	Defens.	High Div.	Defens.	Min. Vol.
17.3%	10.0%	2.5%	10.7%	- 1.6%	-44.8%	16.5%	12.0%	-4.2%	10.6%	25.3%	4.9%	-4.4%	5.1%	12.3%	- 1.1%	9.8%	11.7%



Source: FactSet, MSCI, Standard & Poor's, J.P. Morgan Asset Management; (Top) Russell. The MSCI High Dividend Yield Index aims to offer a higher than average dividend yield relative to the parent index that passes dividend sustainability and persistence screens. The MSCI Minimum Volatility Index optimizes the MSCI USA Index using an estimated security co-variance matrix to produce low absolute volatility for a given set of constraints. The MSCI Defensive Sectors Index includes: Consumer Staples, Energy, Health Care, Telecommunication Services and Utilities. The MSCI Cyclical Sectors Index contains: Consumer Discretionary, Financials, Information Technology and Materials. Securities in the MSCI Momentum Index are selected based on a momentum value of 12-month and 6-month price performance. Constituents of the MSCI Quality Index are selected based on three main variables: high return on equity, stable year-over-year earnings growth and low financial leverage. The Russell 2000 is used for small cap. The MSCI USA Diversified Multiple Factor Index aims to maximize exposure to four factors – Value, Momentum, Quality and Size.

Guide to the Markets – U.S. Data are as of June 30, 2018.



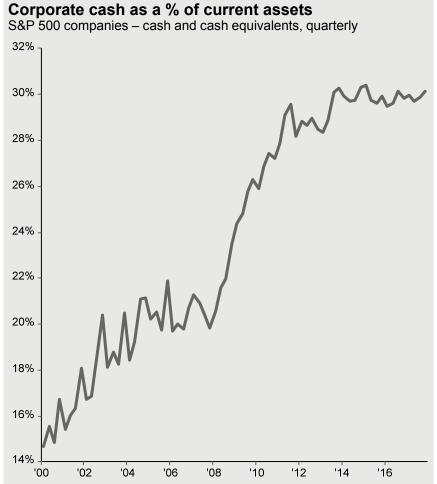


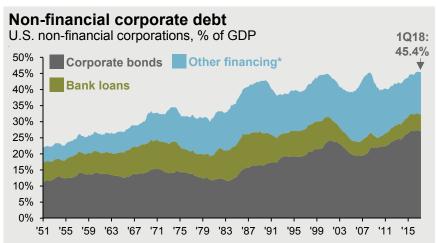
Source: FactSet, Standard & Poor's, J.P. Morgan Asset Management.

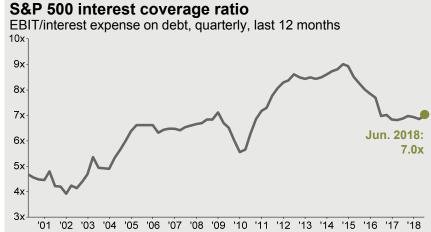
Returns are based on price index only and do not include dividends. Intra-year drops refers to the largest market drops from a peak to a trough during the year. For illustrative purposes only. Returns shown are calendar year returns from 1980 to 2017, over which time period the average annual return was 8.8%.

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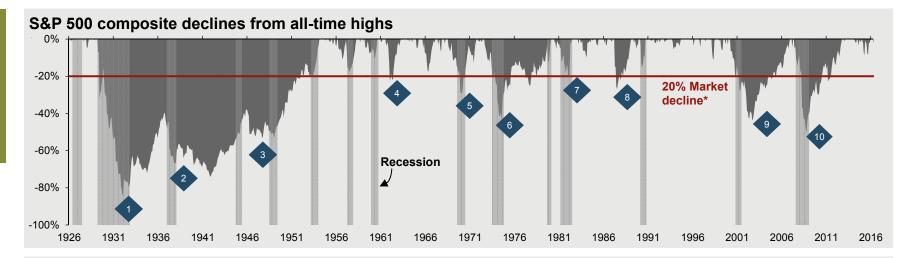






Source: BEA, FactSet, Federal Reserve, Standard & Poor's, J.P. Morgan Asset Management. *Other financing includes commercial paper, municipal securities, mortgages and other loans and advances. *Guide to the Markets – U.S.* Data are as of June 30, 2018.





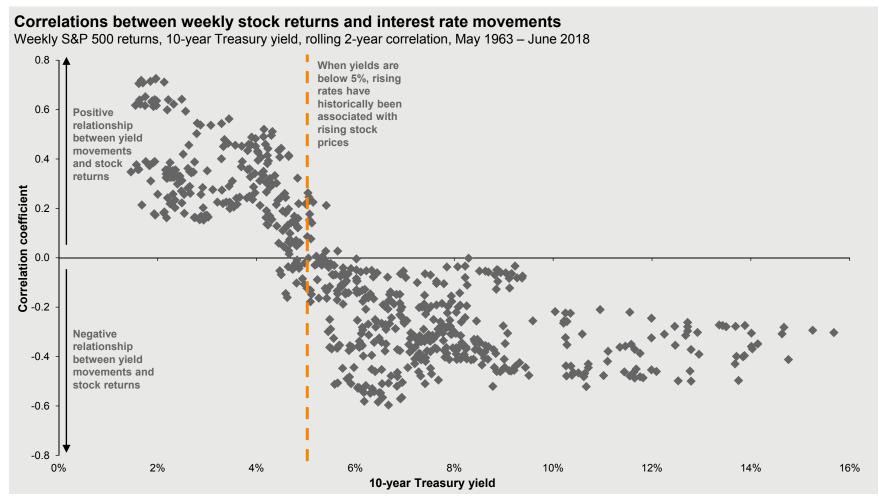
Characteristics of bull and bear markets

	Bear markets				Macro env	ironment	Bull markets			
Market Corrections	Market peak	Bear return*	Duration (months)*	Recession	Commodity spike			Bull begin date	Bull return	Duration (months)
1 Crash of 1929 - Excessive leverage, irrational exuberance	Sep 1929	-86%	32	•			•	Jul 1926	152%	37
2 1937 Fed Tightening - Premature policy tightening	Mar 1937	-60%	61	•		•		Mar 1935	129%	23
3 Post WWII Crash - Post-war demobilization, recession fears	May 1946	-30%	36	♦			•	Apr 1942	158%	49
4 Flash Crash of 1962 - Flash crash, Cuban Missile Crisis	Dec 1961	-28%	6				•	Oct 1960	39%	13
5 Tech Crash of 1970 - Economic overheating, civil unrest	Nov 1968	-36%	17	•	•	•		Oct 1962	103%	73
6 Stagflation - OPEC oil embargo	Jan 1973	-48%	20	•	•			May 1970	74%	31
7 Volcker Tightening - Whip Inflation Now	Nov 1980	-27%	20	•	•	•		Mar 1978	62%	32
8 1987 Crash - Program trading, overheating markets	Aug 1987	-34%	3				•	Aug 1982	229%	60
9 Tech Bubble - Extreme valuations, .com boom/bust	Mar 2000	-49%	30	•			•	Oct 1990	417%	113
10 Global Financial Crisis - Leverage/housing, Lehman collapse	Oct 2007	-57%	17	•	•	•		Oct 2002	101%	60
Current Cycle								Mar 2009	302%	111
Averages	-	-45%	24					-	160%	55

Source: FactSet, NBER, Robert Shiller, Standard & Poor's, J.P. Morgan Asset Management.

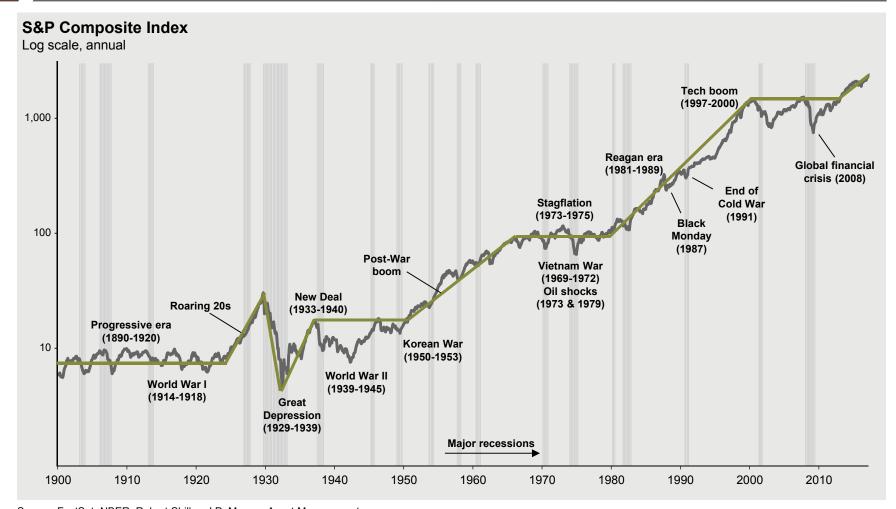
*A bear market is defined as a 20% or more decline from the previous market high. The bear return is the peak to trough return over the cycle. Periods of "Recession" are defined using NBER business cycle dates. "Commodity spikes" are defined as significant rapid upward moves in oil prices. Periods of "Extreme valuations" are those where S&P 500 last 12 months' P/E levels were approximately two standard deviations above long-run averages, or time periods where equity market valuations appeared expensive given the broader macroeconomic environment. "Aggressive Fed Tightening" is defined as Federal Reserve monetary tightening that was unexpected and/or significant in magnitude. Bear and Bull returns are price returns.





Source: FactSet, FRB, Standard & Poor's, J.P. Morgan Asset Management. Returns are based on price index only and do not include dividends. Markers represent monthly 2-year correlations only. *Guide to the Markets – U.S.* Data are as of June 30, 2018.





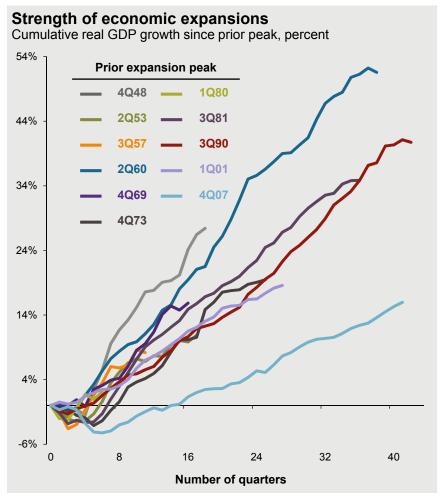
Source: FactSet, NBER, Robert Shiller, J.P. Morgan Asset Management.

Data shown in log scale to best illustrate long-term index patterns. Past performance is not indicative of future returns. Chart is for illustrative purposes only.

Guide to the Markets – U.S. Data are as of June 30, 2018.



Length of economic expansions and recessions Average length (months): months* Expansions: 47 months Recessions: 15 months

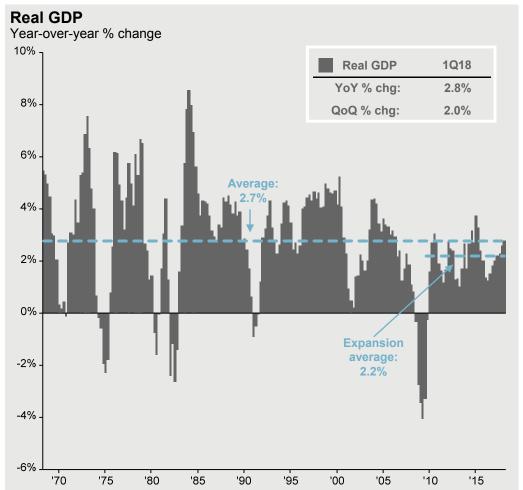


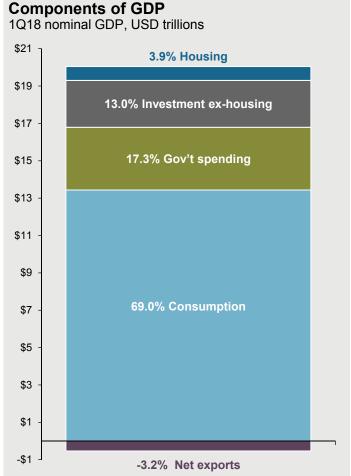
Source: BEA, NBER, J.P. Morgan Asset Management. *Chart assumes current expansion started in July 2009 and continued through June 2018, lasting 108 months so far. Data for length of economic expansions and recessions obtained from the National Bureau of Economic Research (NBER). These data can be found at www.nber.org/cycles/ and reflect information through June 2018.

Guide to the Markets – U.S. Data are as of June 30, 2018.



Economic growth and the composition of GDP



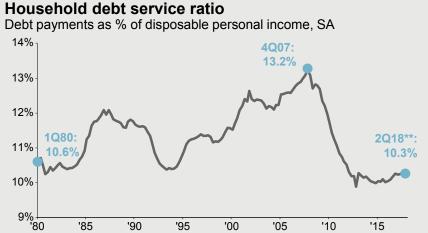


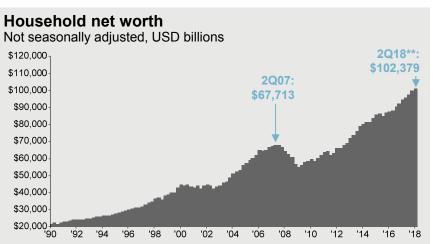
Source: BEA, FactSet, J.P. Morgan Asset Management. Values may not sum to 100% due to rounding. Quarter-over-quarter percent changes are at an annualized rate. Average represents the annualized growth rate for the full period. Expansion average refers to the period starting in the third quarter of 2009. *Guide to the Markets – U.S.* Data are as of June 30, 2018.



Consumer balance sheet

1Q18, trillions of dollars outstanding, not seasonally adjusted \$120 Total assets: \$116.3tn -3Q07 Peak: \$81.9tn 1Q09 Low: \$69.3tn \$110 **Homes: 24%** \$100 \$90 Other tangible: 5% \$80 Deposits: 9% \$70 \$60 Pension funds: 20% \$50 Other non-revolving: 1% Revolving*: 6% \$40 Auto loans: 7% Other liabilities: 9% Student debt: 10% \$30 Other financial assets: 41% \$20 Total liabilities: \$15.6tn \$10





Source: FactSet, FRB, J.P. Morgan Asset Management; (Top and bottom right) BEA. Data include households and nonprofit organizations. SA – seasonally adjusted. *Revolving includes credit cards. Values may not sum to 100% due

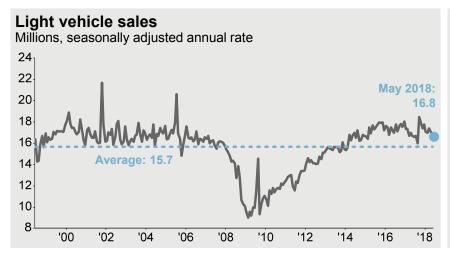
Mortgages: 67%

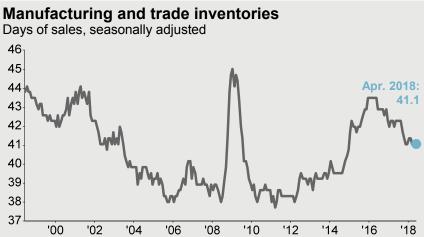
to rounding. **1Q18 figure for debt service ratio and 2Q18 figures for debt service ratio and household net worth are J.P. Morgan Asset Management estimates.

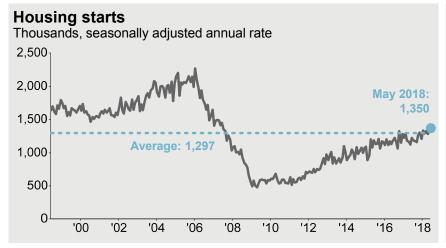
Guide to the Markets – U.S. Data are as of June 30, 2018.

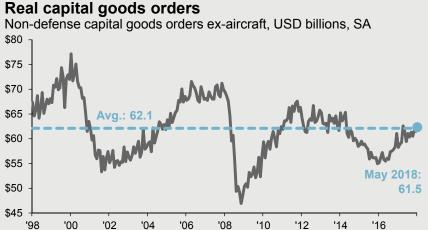


\$0



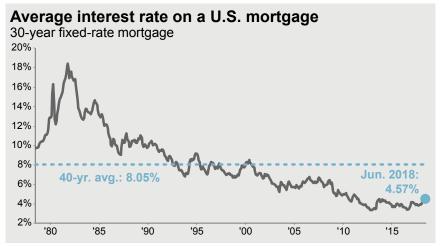


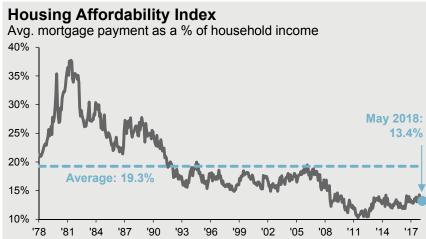




Source: J.P. Morgan Asset Management; (Top left) BEA; (Top and bottom right, bottom left) Census Bureau, FactSet. Capital goods orders deflated using the producer price index for capital goods with a base year of 2009. SA – seasonally adjusted. *Guide to the Markets – U.S.* Data are as of June 30, 2018.







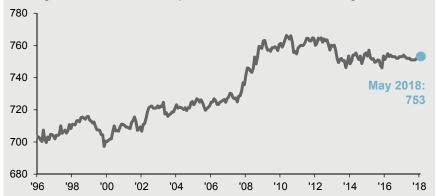
Home prices relative to income

6-mo. rolling, avg., new home price as multiple of disposable family inc.



Lending standards for approved mortgage loans

Average FICO, conventional purchase, score based on origination date

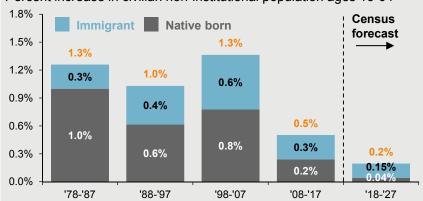


Source: J.P. Morgan Asset Management; (Top and bottom left, top right) FactSet; (Top left) Freddie Mac; (Top right, bottom left) BEA, Census Bureau, National Association of Realtors; (Bottom right) Ellie Mae, J.P. Morgan Securitized Product Research. Monthly mortgage payment assumes the prevailing 30-year fixed-rate mortgage rates and average new home prices excluding a 20% down payment. Guide to the Markets – U.S. Data are as of June 30, 2018.



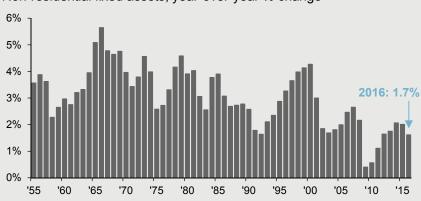
Growth in working-age population

Percent increase in civilian non-institutional population ages 16-64



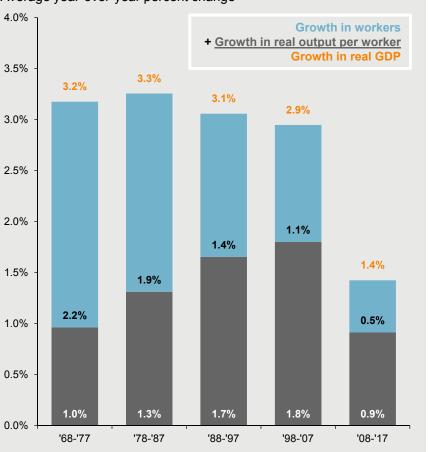
Growth in private non-residential capital stock

Non-residential fixed assets, year-over-year % change



Drivers of GDP growth

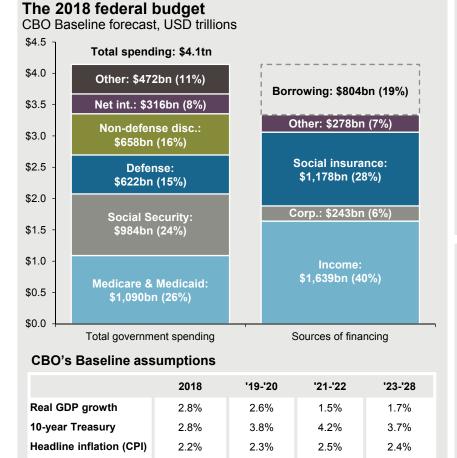
Average year-over-year percent change

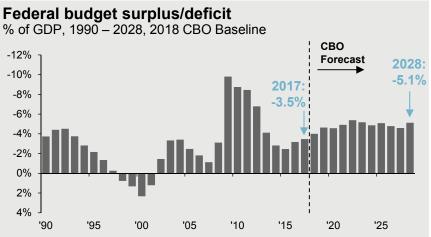


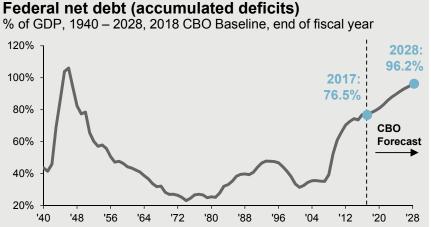
Source: J.P. Morgan Asset Management; (Top left) Census Bureau, DOD, DOJ; (Top left and right) BLS; (Right and bottom left) BEA. GDP drivers are calculated as the average annualized growth in the 10 years ending in 4Q of the last year. Future working age population is calculated as the total estimated number of Americans from the Census Bureau, per the March 2018 report, controlled for military enrollment, growth in institutionalized population and demographic trends. Growth in working age population does not include illegal immigration; DOD Troop Readiness reports used to estimate percent of population enlisted.

Guide to the Markets - U.S. Data are as of June 30. 2018.









Source: CBO, J.P. Morgan Asset Management; (Top and bottom right) BEA, Treasury Department. 2018 Federal Budget is based on the Congressional Budget Office (CBO) April 2018 Baseline Budget Forecast. Other spending includes, but is not limited to, health insurance subsidies, income security and federal civilian and military retirement. Note: Years shown are fiscal years (Oct. 1 through Sep. 30).

4 8%

4.3%

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3.9%

3 4%

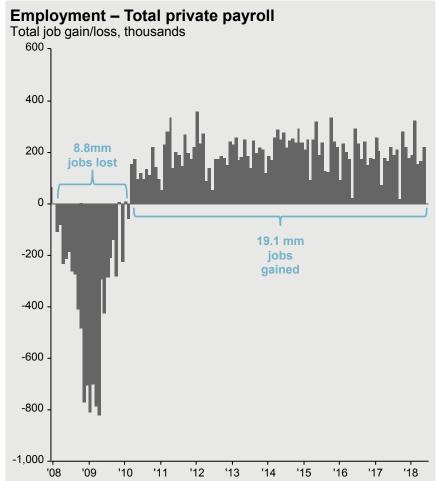
Unemployment

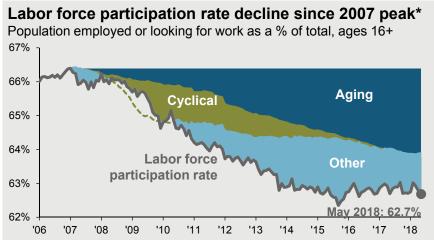


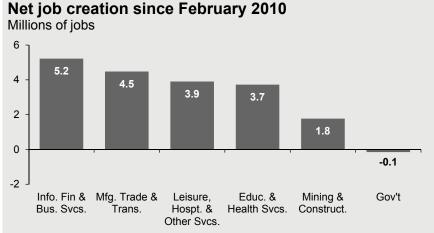
Civilian unemployment rate and year-over-year wage growth for private production and non-supervisory workers Seasonally adjusted, percent 12% Nov. 1982: 50-year avg. 10.8% **Unemployment rate** 6.2% Oct. 2009: 10.0% Wage growth 4.1% 10% May 1975: 9.0% Jun. 1992: 7.8% 8% Jun. 2003: 6.3% May 2018: 3.8 4% 2% 0% '70 '72 '74 '76 **'78** '80 '82 '86 '98 '00 '02 '04 '06 '08 '10 '12 '14 '16 '84 '88 '90 '92 '94 '96

Source: BLS, FactSet, J.P. Morgan Asset Management. *Guide to the Markets – U.S.* Data are as of June 30, 2018.





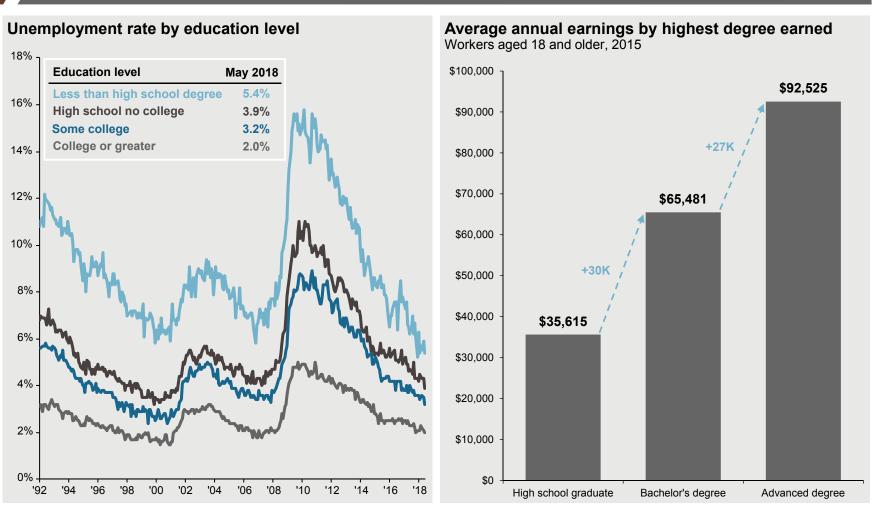




Source: BLS, FactSet, J.P. Morgan Asset Management. (Bottom right) Info. fin. & bus. svcs. = Information, financial activities and professional and business services; Mfg. trade & trans. = Manufacturing, trade, transportation and utilities; Leisure, hospt. & other svcs. = Leisure, hospitality and other services; Educ. & health svcs. = Education & health services; Mining & construct = Natural resources mining and construction; Gov't = Government. *Aging effect on the labor force participation rate is the estimated number of people who are no longer employed or looking for work because they are retired. Cyclical effect is the estimated number of people who lose their jobs and stop looking for work or do not look for work because of the economic conditions. Other represents the drop in labor force participation from the prior expansion peak that cannot be explained by age or cyclical effects. Estimates for reason of decline in labor force participation rate are made by J.P. Morgan Asset Management.

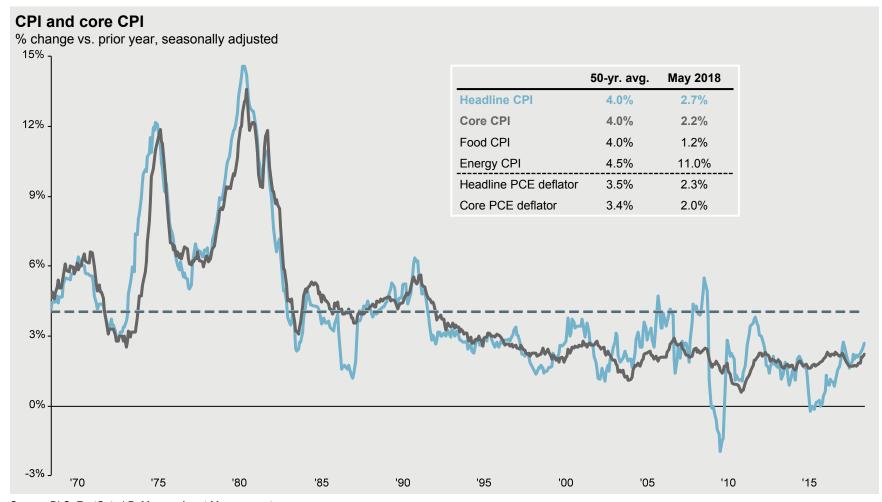
*Guide to the Markets – U.S. Data are as of June 30. 2018.





Source: J.P. Morgan Asset Management; (Left) BLS, FactSet; (Right) Census Bureau. Unemployment rates shown are for civilians aged 25 and older. Earnings by educational attainment comes from the Current Population Survey and is published under historical income tables by person by the Census Bureau. Guide to the Markets – U.S. Data are as of June 30, 2018.





Source: BLS, FactSet, J.P. Morgan Asset Management.

CPI used is CPI-U and values shown are % change vs. one year ago. Core CPI is defined as CPI excluding food and energy prices. The Personal Consumption Expenditure (PCE) deflator employs an evolving chain-weighted basket of consumer expenditures instead of the fixed-weight basket used in CPI calculations.

Guide to the Markets – U.S. Data are as of June 30, 2018.



The U.S. dollar Monthly average of major currencies nominal trade-weighted index 115 110 105 100 Jun. 2018: 89.6 95 90 85 80 75 70

The U.S. trade balance Current account balance, % of GDP -7% -6% -5% -4% -3% -2% -1% 0% '94 '96 '98 '00 '02 '04 '06 '08 '10 '12 '14 '16 '18



Source: J.P. Morgan Asset Management; (Left) FactSet, Federal Reserve; (Top right) Bureau of Economic Analysis, FactSet; (Bottom right) Tullett Prebon.

'16

Currencies in the Trade Weighted U.S. Dollar Major Currencies Index are: Australian dollar, British pound, Canadian dollar, euro, Japanese yen, Swedish krona and Swiss franc. *Interest rate differential is the difference between the 10-year U.S. Treasury yield and a basket of the 10-year yields of each major trading partner (Australia, Canada, Europe, Japan, Sweden, Switzerland and UK). Weights on the basket are calculated using the 10-year average of total government bonds outstanding in each region. Europe is defined as the 19 countries in the euro area.

Guide to the Markets – U.S. Data are as of June 30, 2018.



65

'98

'00

'02

'04

'06

'08

'10

'12

Change in production and consumption of liquid fuels Production, consumption and inventories, millions of barrels per day

Production	2015	2016	2017	2018*	2019*	Growth since '15
U.S.	15.1	14.9	15.6	17.7	19.1	26.3%
OPEC	38.2	39.2	39.3	39.0	39.2	2.5%
Russia	11.0	11.2	11.2	11.2	11.2	1.6%
Global	96.7	97.2	98.0	100.2	102.2	5.7%
Consumption						
U.S.	19.5	19.7	19.9	20.4	20.7	5.8%
China	12.4	12.8	13.3	13.7	14.1	13.9%
Global	95.4	96.9	98.5	100.3	102.0	7.0%
Inventory Change	1.3	0.3	-0.5	-0.1	0.2	

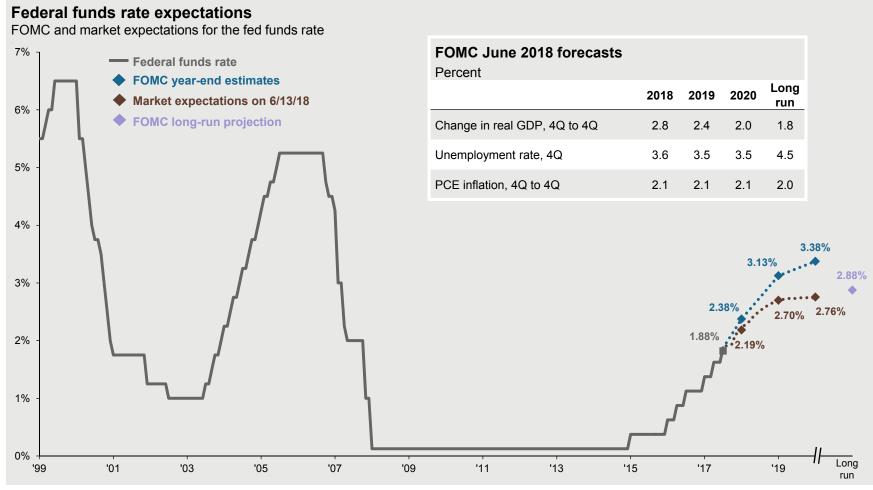
U.S. crude oil inventories and rig count** Million barrels, number of active rigs 1,250 2,500 1,200 2,000 1,150 1.500 1.100 1,050 1,000 1,000 500 950 ■ Inventories (incl. SPR) **Active rigs** ▶ 900 0 '14 '15 '16 '17 '18



Source: J.P. Morgan Asset Management; (Top and bottom left) EIA; (Right) FactSet; (Bottom left) Baker Hughes.
*Forecasts are from the June 2018 EIA Short-Term Energy Outlook and start in 2018. **U.S. crude oil inventories include the Strategic Petroleum Reserve (SPR). Active rig count includes both natural gas and oil rigs. WTI crude prices are monthly averages in USD using continuous contract NYM prices.

Guide to the Markets – U.S. Data are as of June 30, 2018.



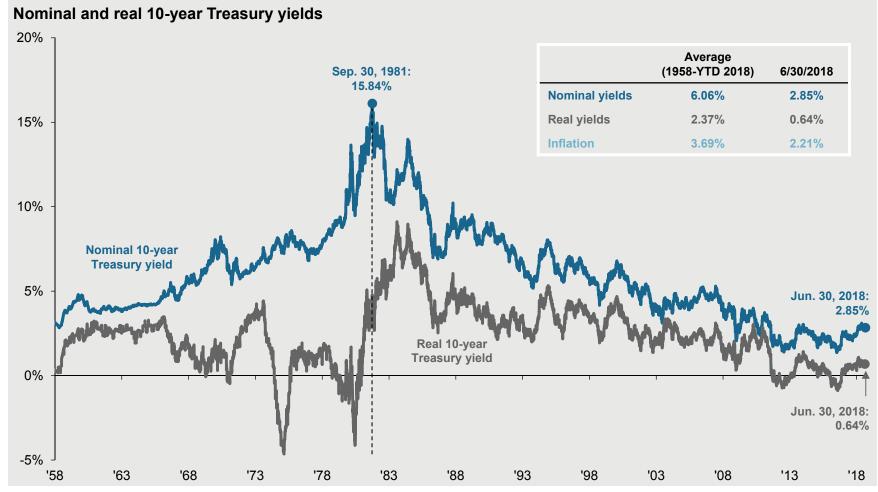


Source: Bloomberg, FactSet, Federal Reserve, J.P. Morgan Asset Management.

Market expectations are the federal funds rates priced into the fed futures market as of the date of the June 2018 FOMC meeting.

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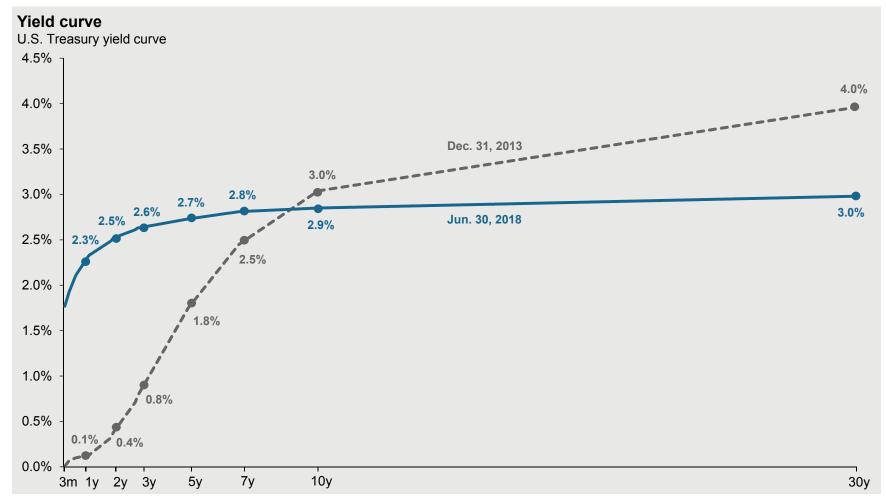


Source: BLS, FactSet, Federal Reserve, J.P. Morgan Asset Management.
Real 10-year Treasury yields are calculated as the daily Treasury yield less year-over-year core CPI inflation for that month except for June 2018, where real yields are calculated by subtracting out May 2018 year-over-year core inflation.

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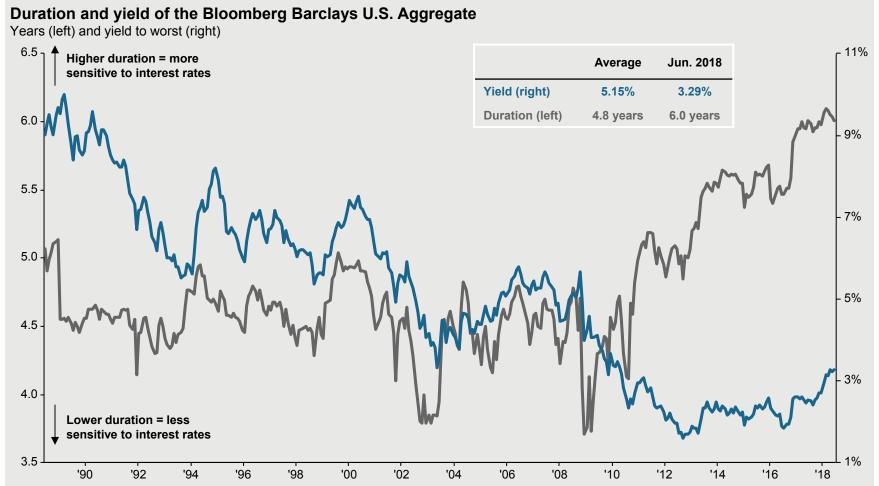


Yield curve GTM - u.s. | 33



Source: FactSet, Federal Reserve, J.P. Morgan Asset Management. *Guide to the Markets – U.S.* Data are as of June 30, 2018.

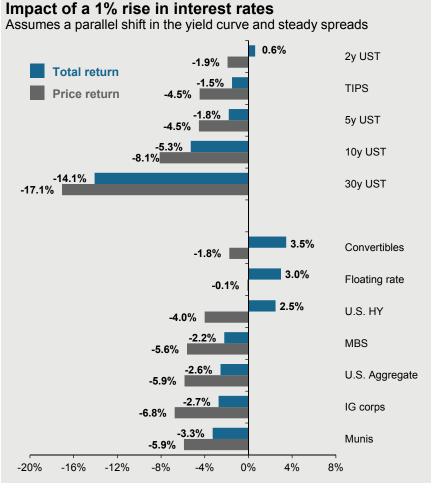




Source: Barclays, Bloomberg, FactSet, J.P. Morgan Asset Management. Duration measures the sensitivity of the price of a bond to a change in interest rates. The higher the duration the greater the sensitivity of the bond is to movements in the interest rate. Yield is yield to worst. *Guide to the Markets – U.S.* Data are as of June 30, 2018.

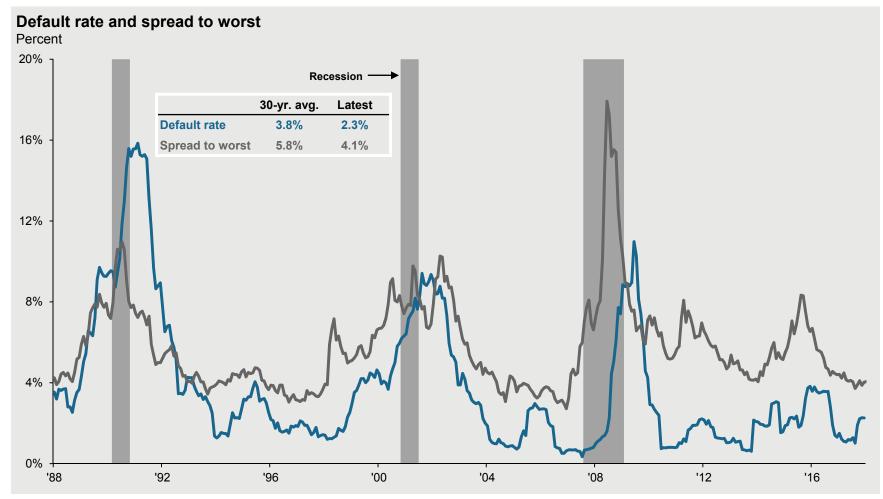


C.S. Treasuries 6/30/2018 12/31/2017 YTD Maturity to 10-year to S&P 2-Year 2.52% 1.89% -0.02% 2 years 0.68 -0.3 5-Year 2.73% 2.20% -1.07% 5 0.92 -0.2 TIPS 0.74% 0.44% -0.02% 10 0.54 0.2 10-Year 2.85% 2.40% -2.67% 10 1.00 -0.2 30-Year 2.98% 2.74% -3.40% 30 0.93 -0.3 Sector Convertibles 5.21% 6.35% 5.88% - -0.27 0.8 Floating Rate 3.08% 2.05% 1.15% 3.3 -0.18 0.3 High Yield 6.49% 5.72% 0.16% 6.1 -0.21 0.7 MBS 3.41% 2.91% -0.95% 7.5 0.81 -0.1		Yield 6/30/2018 12/31/2017		Return			
5-Year 2.73% 2.20% -1.07% 5 0.92 -0.2 TIPS 0.74% 0.44% -0.02% 10 0.54 0.2 10-Year 2.85% 2.40% -2.67% 10 1.00 -0.2 30-Year 2.98% 2.74% -3.40% 30 0.93 -0.3 Sector Convertibles 5.21% 6.35% 5.88% - -0.27 0.8 Floating Rate 3.08% 2.05% 1.15% 3.3 -0.18 0.3 High Yield 6.49% 5.72% 0.16% 6.1 -0.21 0.7 MBS 3.41% 2.91% -0.95% 7.5 0.81 -0.1	U.S. Treasuries				•		Correlation to S&P 500
TIPS 0.74% 0.44% -0.02% 10 0.54 0.2 10-Year 2.85% 2.40% -2.67% 10 1.00 -0.2 30-Year 2.98% 2.74% -3.40% 30 0.93 -0.3 Sector Convertibles 5.21% 6.35% 5.88% - -0.27 0.8 Floating Rate 3.08% 2.05% 1.15% 3.3 -0.18 0.3 High Yield 6.49% 5.72% 0.16% 6.1 -0.21 0.7 MBS 3.41% 2.91% -0.95% 7.5 0.81 -0.1	2-Year	2.52%	1.89%	-0.02%	2 years	0.68	-0.34
10-Year 2.85% 2.40% -2.67% 10 1.00 -0.2 30-Year 2.98% 2.74% -3.40% 30 0.93 -0.3 Sector Convertibles 5.21% 6.35% 5.88% - -0.27 0.8 Floating Rate 3.08% 2.05% 1.15% 3.3 -0.18 0.3 High Yield 6.49% 5.72% 0.16% 6.1 -0.21 0.7 MBS 3.41% 2.91% -0.95% 7.5 0.81 -0.1	5-Year	2.73%	2.20%	-1.07%	5	0.92	-0.28
30-Year 2.98% 2.74% -3.40% 30 0.93 -0.3 Sector Convertibles 5.21% 6.35% 5.88%0.27 0.8 Floating Rate 3.08% 2.05% 1.15% 3.3 -0.18 0.3 High Yield 6.49% 5.72% 0.16% 6.1 -0.21 0.7 MBS 3.41% 2.91% -0.95% 7.5 0.81 -0.1	TIPS	0.74%	0.44%	-0.02%	10	0.54	0.27
Sector Convertibles 5.21% 6.35% 5.88% - -0.27 0.8 Floating Rate 3.08% 2.05% 1.15% 3.3 -0.18 0.3 High Yield 6.49% 5.72% 0.16% 6.1 -0.21 0.7 MBS 3.41% 2.91% -0.95% 7.5 0.81 -0.1	10-Year	2.85%	2.40%	-2.67%	10	1.00	-0.29
Convertibles 5.21% 6.35% 5.88% - -0.27 0.8 Floating Rate 3.08% 2.05% 1.15% 3.3 -0.18 0.3 High Yield 6.49% 5.72% 0.16% 6.1 -0.21 0.7 MBS 3.41% 2.91% -0.95% 7.5 0.81 -0.1	30-Year	2.98%	2.74%	-3.40%	30	0.93	-0.31
Floating Rate 3.08% 2.05% 1.15% 3.3 -0.18 0.3 High Yield 6.49% 5.72% 0.16% 6.1 -0.21 0.7 MBS 3.41% 2.91% -0.95% 7.5 0.81 -0.1	Sector						
High Yield 6.49% 5.72% 0.16% 6.1 -0.21 0.7 MBS 3.41% 2.91% -0.95% 7.5 0.81 -0.1	Convertibles	5.21%	6.35%	5.88%	-	-0.27	0.88
MBS 3.41% 2.91% -0.95% 7.5 0.81 -0.1	Floating Rate	3.08%	2.05%	1.15%	3.3	-0.18	0.39
	High Yield	6.49%	5.72%	0.16%	6.1	-0.21	0.71
Broad Market 3.29% 2.71% -1.62% 8.4 0.86 0.0	MBS	3.41%	2.91%	-0.95%	7.5	0.81	-0.11
	Broad Market	3.29%	2.71%	-1.62%	8.4	0.86	0.05
Municipals 2.63% 2.26% -0.72% 9.9 0.53 -0.0	Municipals	2.63%	2.26%	-0.72%	9.9	0.53	-0.03
Corporates 4.02% 3.25% -3.27% 10.9 0.47 0.3	Corporates	4.02%	3.25%	-3.27%	10.9	0.47	0.35



Source: Barclays, Bloomberg, FactSet, Standard & Poor's, U.S. Treasury, J.P. Morgan Asset Management. Sectors shown above are provided by Bloomberg and are represented by - Broad Market: U.S. Aggregate; MBS: U.S. Aggregate Securitized - MBS; Corporate: U.S. Corporates; Municipals: Muni Bond 10-year; High Yield: Corporate High Yield; TIPS: Treasury Inflation Protection Securities (TIPS); Floating Rate: FRN (BBB); Convertibles: U.S. Convertibles Composite. Yield and return information based on bellwethers for Treasury securities. Sector yields reflect yield to worst. Convertibles yield is based on US portion of Bloomberg Barclays Global Convertibles. Correlations are based on 10-years of monthly returns for all sectors. Change in bond price is calculated using both duration and convexity according to the following formula: New Price = (Price + (Price * -Duration * Change in Interest Rates))+(0.5 * Price * Convexity * (Change in Interest Rates)^2). Chart is for illustrative purposes only. Past performance is not indicative of future results. Guide to the Markets - U.S. Data are as of June 30, 2018.



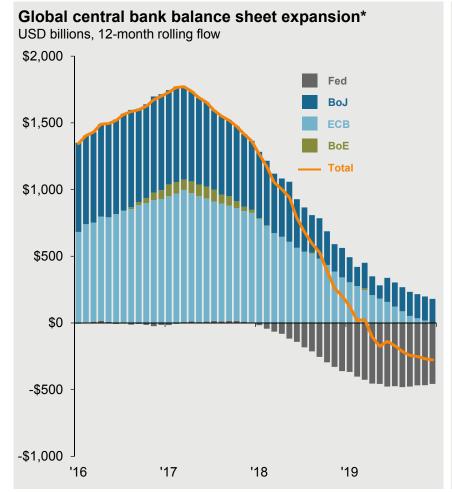


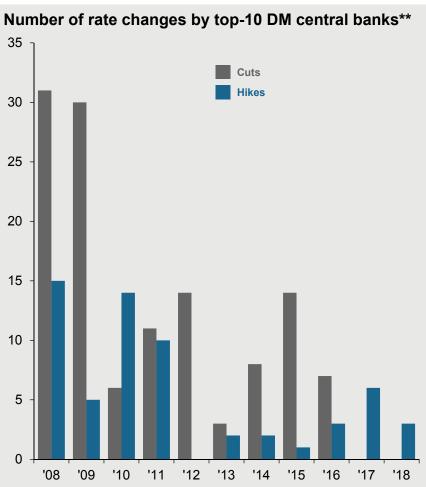
Source: J.P. Morgan Global Economic Research, J.P. Morgan Asset Management.

Default rates are defined as the par value percentage of the total market trading at or below 50% of par value and include any Chapter 11 filing, prepackaged filing or missed interest payments. Spreads indicated are benchmark yield to worst less comparable maturity Treasury yields. Yield to worst is defined as the lowest potential yield that can be received on a bond without the issuer actually defaulting and reflects the possibility of the bond being called at an unfavorable time for the holder. High yield is represented by the J.P. Morgan Domestic High Yield Index.

Guide to the Markets – U.S. Data are as of June 30, 2018.



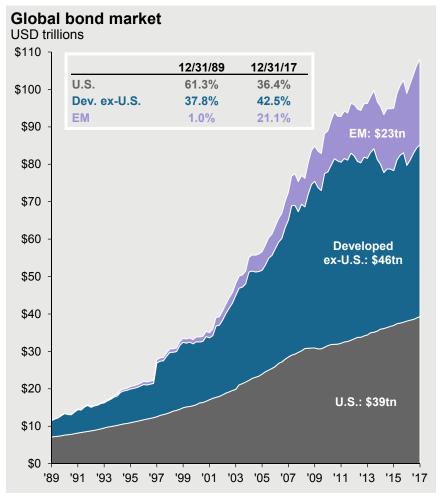




Source: J.P. Morgan Asset Management; (Left) Bank of England, Bank of Japan, European Central Bank, FactSet, Federal Reserve System, J.P. Morgan Global Economic Research; (Right) Bloomberg. *Includes the Bank of Japan (BoJ), Bank of England (BoE), European Central Bank (ECB) and Federal Reserve. Balance sheet expansion assumes no more quantitative easing (QE) from BoE; tapering of ECB from 30bn to 15bn EUR in October 2018 and 0 in January 2019; tapering of BoJ QE to 20trn JPY ann. for the remainder of 2018 and 2019; and tapering of Fed QE per the September FOMC statement, incorporating a maturity schedule. **Including: Australia, Canada, Denmark, Eurozone, Japan, Norway, Sweden, Switzerland, UK and U.S.



	Yi	eld	2018 YTI) Return			
Aggregates	6/30/2018	12/31/2017	Local	USD	Duration	Correl to 10-year	
U.S.	3.29%	2.71%	-1.62%	-1.62%	6.0 years	0.86	
Gbl. ex-U.S.	1.23%	1.03%	-	-1.36%	7.7	0.35	
Japan	0.19%	0.20%	0.50%	2.21%	9.3	0.47	
Germany	0.58%	0.46%	0.88%	-1.92%	6.3	0.21	
UK	1.75%	1.49%	-0.21%	-2.61%	10.1	0.16	
Italy	1.98%	1.25%	-2.70%	-5.39%	6.5	0.05	
Spain	0.92%	0.90%	1.73%	-1.09%	6.9	0.08	
Sector							
Euro Corp.	1.01%	0.75%	-0.64%	-3.39%	5.2 years	0.18	
Euro HY	4.22%	3.32%	-1.42%	-4.15%	4.3	-0.33	
EMD (\$)	6.52%	5.76%	-	-5.23%	6.5	0.24	
EMD (LCL)	6.59%	6.01%	0.00%	-6.44%	5.1	0.11	
EM Corp.	5.79%	5.05%	-	-2.87%	5.5	-0.21	



Source: J.P. Morgan Asset Management; (Left) Barclays, Bloomberg, FactSet; (Right) BIS.

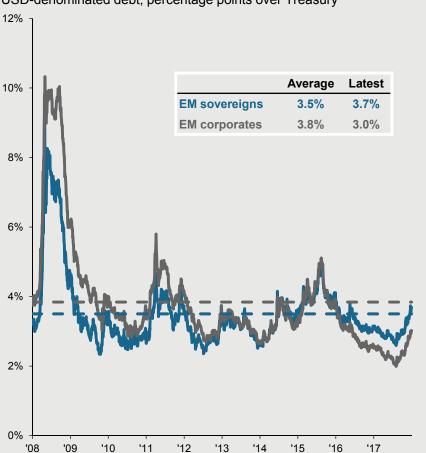
Fixed income sectors shown above are provided by Bloomberg and are represented by the global aggregate for each country except where noted.

EMD sectors are represented by the J.P. Morgan EMBIG Diversified Index (USD), the J.P. Morgan GBI EM Global Diversified Index (LCL) and the J.P. Morgan CEMBI Broad Diversified Index (Corp). European Corporates are represented by the Bloomberg Barclays Euro Aggregate Corporate Index and the Bloomberg Barclays Pan-European High Yield index. Sector yields reflect yield to worst. Correlations are based on 10 years of monthly returns for all sectors. Past performance is not indicative of future results. Global bond market regional breakdown may not sum to 100% due to

J.P.Morgan
Asset Management

Corporate and sovereign EMD spreads

USD-denominated debt, percentage points over Treasury



Regional weights in EMD indices USD-denominated corporate and sovereign regional weightings 50% Sovereigns 37.2% 40% 35.5% Corporates 29.8% 30% 24.4% 23.1% 19.8% 18.7% 20% 11.6% 10% 0% Middle East & Asia Europe Latin America Africa



Source: J.P. Morgan Global Economic Research, J.P. Morgan Asset Management. EM sovereigns: J.P. Morgan EMBIG Diversified Index; EM corporates: J.P. Morgan CEMBI Broad Diversified Index. *Lat Am index excludes Argentina, Ecuador and Venezuela. Guide to the Markets – U.S. Data are as of June 30, 2018.



Fixed income sector returns

GTM - u.s. | 40

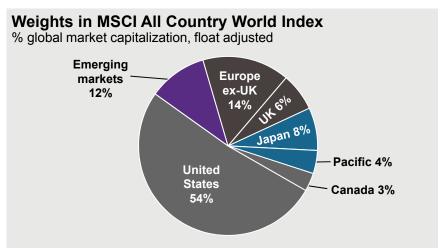
13.7% 58.2% 15.7% 13.6% 17.4% 7.4% 8.7% 3.8% 17.1% 15.2% 0.2% 8.0% 21.2%												2008	- 2017
13.7% 58.2% 15.7% 13.6% 17.4% 7.4% 8.7% 3.8% 17.1% 15.2% 0.2% 8.0% 21.2%	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	YTD	Ann.	Vol.
MBS	Treas.	High Yield	EMD LCL.	TIPS	EMD USD	High Yield	Muni	Muni	High Yield	EMD LCL.	High Yield	High Yield	High Yield
Barclays Agg EMD LCL EMD USD Treas. High Yield Corp. EMD USD EMD USD EMD LCL High Yield Muni Corp. EMD USD EMD USD EMD LCL High Yield Muni Corp. EMD USD EMD USD EMD LCL High Yield Muni Corp. EMD USD EMD U	13.7%	58.2%	15.7%	13.6%	17.4%	7.4%	8.7%	3.8%	17.1%	15.2%	0.2%	8.0%	21.2%
Barclays Agg Sample Samp	MBS	EMD USD	High Yield	Muni	EMD LCL.	MBS	Corp.	MBS	EMD USD	EMD USD	TIPS	EMD USD	EMD LCL.
Agg 5.2% 22.0% 12.2% 9.8% 15.8% -1.5% 7.4% 1.2% 9.9% 7.5% -0.7% 5.6% 11.6%	8.3%	29.8%	15.1%	12.3%	16.8%	-1.4%	7.5%	1.5%	10.2%	10.3%	0.0%	7.3%	13.0%
Muni Corp. Corp. Corp. Corp. Corp. Corp. Corp. Asset Asset		EMD LCL.	EMD USD	Treas.	High Yield	Corp.	EMD USD	EMD USD	EMD LCL.	High Yield	Muni	Corp.	EMD USD
Muni	5.2%	22.0%	12.2%	9.8%	15.8%	-1.5%	7.4%	1.2%	9.9%	7.5%	-0.7%	5.6%	11.6%
1.5%	Muni	Corp.	Corp.	Corp.	Corp.		MBS	Treas.	Corp.	Corp.	MBS		Corp.
Albc.	1.5%	18.7%	9.0%	8.1%	9.8%		6.1%	0.8%	6.1%	6.4%	-1.0%		6.8%
0.1% 14.7% 7.9% 8.1% 7.4% -2.0% 6.0% 0.5% 4.7% 5.8% -1.1% 4.9% 6.6% TIPS TIPS Barclays Agg -2.4% Barclays -7.8% TIPS Muni -2.2% Albc. -5.5% TIPS Asset -0.3% Asset -1.6% Agg -4.0% Agg -1.6% Agg -1.6% Agg -1.6% Agg -1.6% Treas. Treas. Corp. Barclays -1.7% Asset -1.7% Asset -1.7% Asset -1.6% Alloc. -1.6% Agg -1.6% Agg -1.6% Agg -1.6% Asset -1.6% Alloc. -1.6% Asset -1.7% Alloc. -1.6% Asset -1.7% Alloc. -1.7% Asset -1.7% Alloc. -1.7% Asset -1.7% Alloc. -1.7% Asset -1.7% Alloc. -1.7% Asset -1.7% Alloc. -1.7%						- \		_		Muni	Treas.	Muni	TIPS
Tips										5.8%	-1.1%	4.9%	6.6%
-2.4% 11.4% 6.5% 7.8% 7.0% -2.2% 5.5% -0.3% 4.7% 5.3% -1.6% 4.0% 5.4% Corp. Muni TIPS EMD USD Muni Treas. Corp. Barclays Agg Agg Agg Agg Alloc1.7% Asset Alloc1.7% 3.8% Asset Alloc1.7% 3.8% 4.9% EMD LCL. Agg 5.9% 5.9% 6.2% 4.2% -5.3% 3.6% -1.4% 1.7% 3.0% -3.3% 3.6% 4.5% EMD USD MBS MBS High Yield -12.0% MBS MBS High Yield MBS TIPS High Yield High Yield High Yield High Yield Treas. MBS EMD USD MBS MBS EMD USD TIPS High Yield Treas. Barclays Agg Agg Agg Alloc1.4% -3.3% 3.6% 4.5% Barclays Agg Agg Agg Alloc1.4% -3.3% 3.6% 4.5% Barclays Agg Agg Alloc1.4% -3.3% 3.6% 4.5% 4.5% 5.2% -3.3% </td <td>TIPS</td> <td>TIPS</td> <td>_</td> <td></td> <td>TIPS</td> <td>Muni</td> <td>\</td> <td></td> <td>TIPS</td> <td></td> <td>-</td> <td></td> <td>Treas.</td>	TIPS	TIPS	_		TIPS	Muni	\		TIPS		-		Treas.
Corp. Muni TiPS EMD USD Muni Treas. Treas. Corp. Agg Agg Agg Alloc. 4.9% 3.5% 4.17% 3.8% 4.9%	-2.4%	11.4%			7.0%	-2.2%	5.5%	-0.3%	4.7%	5.3%			5.4%
-4.9% 9.9% 6.3% 7.3% 5.7% -2.7% 5.1% -0.7% 2.6% 3.5% -1.7% 3.8% 4.9% EMD LCL. Agg -5.2% Treas. Agg -5.3% EMD USD -5.3% TIPS TIPS TIPS TIPS TIPS TIPS TIPS TIPS	Corp.	Muni	TIPS	EMD USD	Muni	Treas.	Treas.	Corp.	-			MBS	
EMD LCL. Agg 5.9% 5.9% 6.2% 4.2% -5.3% 3.6% -1.4% 1.7% 3.0% -3.3% 3.6% 4.5% EMD USD MBS MBS MBS High Yield MBS TIPS MBS TIPS Corp. EMD LCL. Muni Treas. MBS EMD USD TIPS Agg 3.6% -1.4% 1.7% 3.0% -3.3% 3.6% EMD LCL. High Yield Treas. MBS EMD USD TIPS Agg 3.0% High Yield Treas. Muni EMD LCL. Treas. EMD LCL. EMD LCL. EMD LCL. Muni Treas. EMD LCL. Treas. MBS	-4.9%	9.9%	6.3%	7.3%	5.7%	-2.7%	5.1%	-0.7%			-1.7%	3.8%	4.9%
-5.2% 5.9% 5.9% 6.2% 4.2% -5.3% 3.6% -1.4% 1.7% 3.0% -3.3% 3.6% 4.5% EMD USD MBS High Yield MBS TIPS High Yield High Yield Treas. MBS EMD USD TIPS Agg Agg 3.0% -4.5% 1.0% 2.5% -5.2% 3.5% 3.0% 3.0% Agg Agg 3.0% Agg 3.0% Agg Agg <td< td=""><td>EMD LCL.</td><td>_</td><td>Treas.</td><td>MBS</td><td></td><td>EMD USD</td><td>TIPS</td><td>TIPS</td><td>MBS</td><td>TIPS</td><td>Corp.</td><td>EMD LCL.</td><td>Muni</td></td<>	EMD LCL.	_	Treas.	MBS		EMD USD	TIPS	TIPS	MBS	TIPS	Corp.	EMD LCL.	Muni
-12.0% 5.9% 5.4% 5.0% 2.6% -8.6% 2.5% -4.5% 1.0% 2.5% -5.2% 3.5% Agg 3.0% High Yield Treas. Muni EMD LCL. Treas. EMD LCL. EMD LCL. EMD LCL. Muni Treas. EMD LCL. Treas. MBS	-5.2%		5.9%	6.2%		-5.3%	3.6%	-1.4%	1.7%	3.0%	-3.3%	3.6%	4.5%
-12.0% 5.9% 5.4% 5.0% 2.6% -8.6% 2.5% -4.5% 1.0% 2.5% -5.2% 3.5% 3.0% High Yield Treas. Muni EMD LCL. EMD LCL. EMD LCL. Muni Treas. EMD LCL. Treas. MBS	EMD USD	MBS	MBS	High Yield	MBS	TIPS	High Yield	High Yield	Treas.	MBS	EMD USD	TIPS	Barclays Agg
	-12.0%	5.9%	5.4%	5.0%	2.6%	-8.6%	2.5%	-4.5%	1.0%	2.5%	-5.2%	3.5%	
-26.2% -3.6% 4.0% -1.8% 2.0% -9.0% -5.7% -14.9% -0.1% 2.3% -6.4% 3.3% 3.0%	High Yield	Treas.	Muni	EMD LCL.	Treas.	EMD LCL.	EMD LCL.	EMD LCL.	Muni	Treas.	EMD LCL.	Treas.	MBS
انتناكا كنتناك كنيوي ويوي وينهي وينهي وينهي والمراج والمراج والمراج والمراج والمراج	-26.2%	-3.6%	4.0%	-1.8%	2.0%	-9.0%	-5.7%	-14.9%	-0.1%	2.3%	-6.4%	3.3%	3.0%

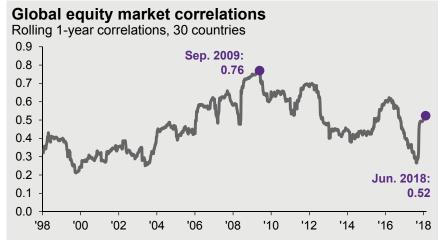
Source: Barclays, Bloomberg, FactSet, J.P. Morgan Global Economic Research, J.P. Morgan Asset Management.

Past performance is not indicative of future returns. Fixed income sectors shown above are provided by Bloomberg unless otherwise noted and are represented by Broad Market: Bloomberg Barclays U.S. Aggregate Index; MBS: Bloomberg Barclays US Aggregate Securitized - MBS Index; Corporate: Bloomberg Barclays U.S. Aggregate Credit - Corporates - Investment Grade; Municipals: Bloomberg Barclays Munipal Bond 10-Year Index; High Yield: Bloomberg Barclays U.S. Aggregate Credit - Corporate - High Yield Index; Treasuries: Bloomberg Barclays Global U.S. Treasury; TIPS: Bloomberg Barclays Global Inflation-Linked - U.S. TIPs; Emerging Debt USD: J.P. Morgan EMBIG Diversified Index; Emerging Debt LCL: J.P. Morgan EM Global Index. The "Asset Allocation" portfolio assumes the following weights: 20% in MBS, 20% in Corporate, 15% in Municipals, 5% in Emerging Debt USD, 5% in Emerging Debt LCL, 10% in High Yield, 20% in Treasuries, 5% in TIPS. Asset allocation portfolio assumes annual rebalancing. *Guide to the Markets – U.S.* Data are as of June 30, 2018.



Returns	2018	YTD	20	17	15-years		
	Local	USD	Local	USD	Ann.	Beta	
Regions							
U.S. (S&P 500)	=	2.6	-	21.8	9.9	0.85	
AC World ex-U.S.	-0.9	-3.4	18.8	27.8	9.2	1.12	
EAFE	-0.6	-2.4	15.8	25.6	8.6	1.08	
Europe ex-UK	-0.5	-3.4	14.5	27.8	9.4	1.24	
Emerging markets	-2.7	-6.5	31.0	37.8	12.7	1.29	
Selected Countries							
United Kingdom	1.4	-1.0	11.8	22.4	7.1	1.03	
France	3.6	0.7	14.1	29.9	8.8	1.26	
Germany	-4.1	-6.8	12.9	28.5	11.5	1.39	
Japan	-3.5	-1.8	20.1	24.4	7.2	0.74	
China	-1.4	-1.7	55.3	54.3	16.2	1.25	
India	-0.7	-7.5	30.5	38.8	14.9	1.38	
Brazil	-3.9	-17.2	26.9	24.5	15.8	1.61	
Russia	11.0	3.0	1.2	6.1	8.8	1.57	

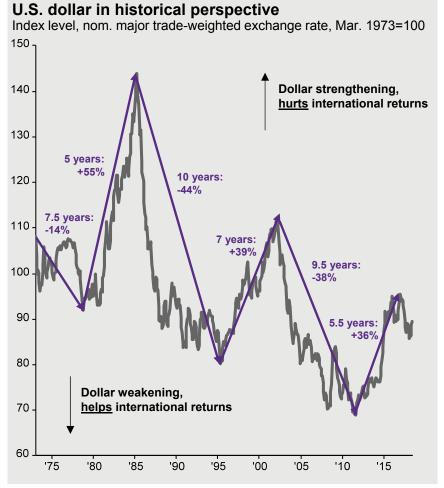


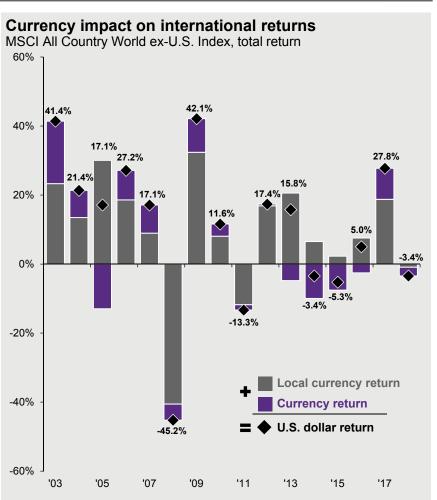


Source: FactSet, MSCI, Standard & Poor's, J.P. Morgan Asset Management.

All return values are MSCI Gross Index (official) data. 15-year history based on U.S. dollar returns. 15-year return and beta figures are calculated for the time period 12/31/02-12/31/17. Beta is for monthly returns relative to the MSCI AC World Index. Chart is for illustrative purposes only. Please see disclosure page for index definitions. Countries included in global correlations include Argentina, Australia, Austria, Brazil, Canada, China, Colombia, Denmark, Finland, France, Germany, Hong Kong, India, Italy, Japan, Korea, Malaysia, Mexico, Netherlands, New Zealand, Peru, Philippines, Portugal, Spain, South Africa, Taiwan, Thailand, Turkey, UK and the U.S. Past performance is not a reliable indicator of current and future results. *Guide to the Markets – U.S.* Data are as of June 30, 2018.







Source: FactSet, J.P. Morgan Asset Management; (Left) Federal Reserve; (Right) MSCI.
Currencies in the nominal major trade-weighted U.S. dollar index are: Australian dollar, British pound, Canadian dollar, euro, Japanese yen, Swedish krona and Swiss franc. Past performance is not a reliable indicator of current and future results.

Guide to the Markets – U.S. Data are as of June 30, 2018.



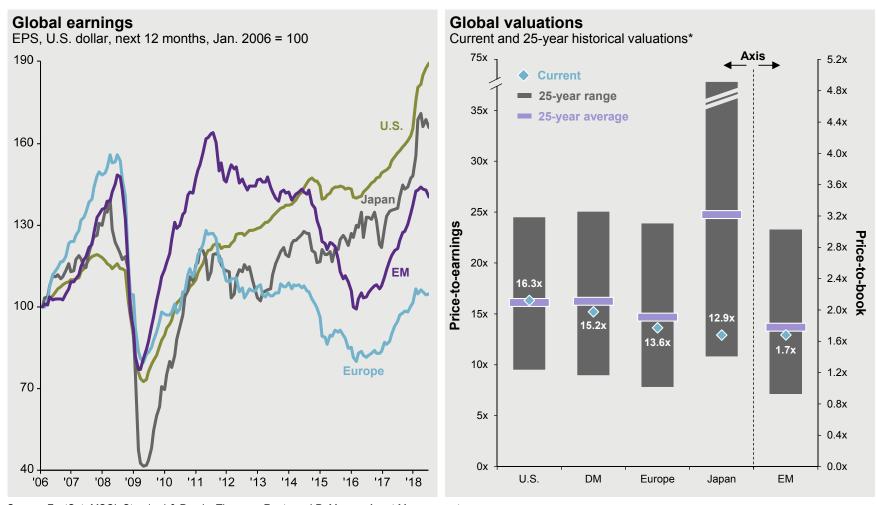
MSCI All Country World ex-U.S. and S&P 500 Indices Dec. 1996 = 100, U.S. dollar, price return 400 -Jun. 30, 2018 P/E Div. Yield 20-yr. avg. 20-yr. avg. P/E (fwd.) = 16.1x350 -S&P 500 16.1x 15.9x 2.1% 2.0% ACWI ex-U.S. 13.0x 14.4x 3.3% 3.0% 300 +302% 250 -Jun. 30, 2018 200 P/E (fwd.) = 13.0+106% 150 -62% +115% +48% 50 '98 '99 '01 02 '05 '06 '07 '08 '09 '10 '11 '12 '13 '15 '97 '00 '03 '04 '14 '16 '17 '18

Source: FactSet, MSCI, Standard & Poor's, J.P. Morgan Asset Management.

Forward price to earnings ratio is a bottom-up calculation based on the most recent index price, divided by consensus estimates for earnings in the next 12 months (NTM), and is provided by FactSet Market Aggregates. Returns are cumulative and based on price movement only, and do not include the reinvestment of dividends. Dividend yield is calculated as consensus estimates of dividends for the next 12 months, divided by most recent price, as provided by FactSet Market Aggregates. Past performance is not a reliable indicator of current and future results.

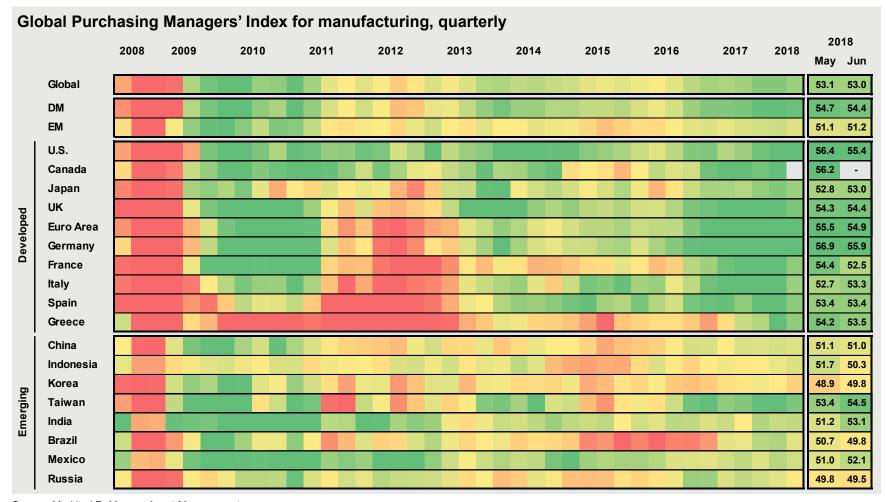
Guide to the Markets - U.S. Data are as of June 30. 2018.





Source: FactSet, MSCI, Standard & Poor's, Thomson Reuters, J.P. Morgan Asset Management.
*Valuations refer to NTMA P/E for Europe, U.S., Japan and developed markets and P/B for emerging markets. Valuation and earnings charts use MSCI indices for all regions/countries, except for the U.S., which is the S&P 500. All indices use IBES aggregate earnings estimates, which may differ from earnings estimates used elsewhere in the book. MSCI Europe includes the eurozone as well as countries not in the currency bloc, such as Norway, Sweden, Switzerland and the UK (which collectively make up 46% of the overall index). Past performance is not a reliable indicator of current and future results.



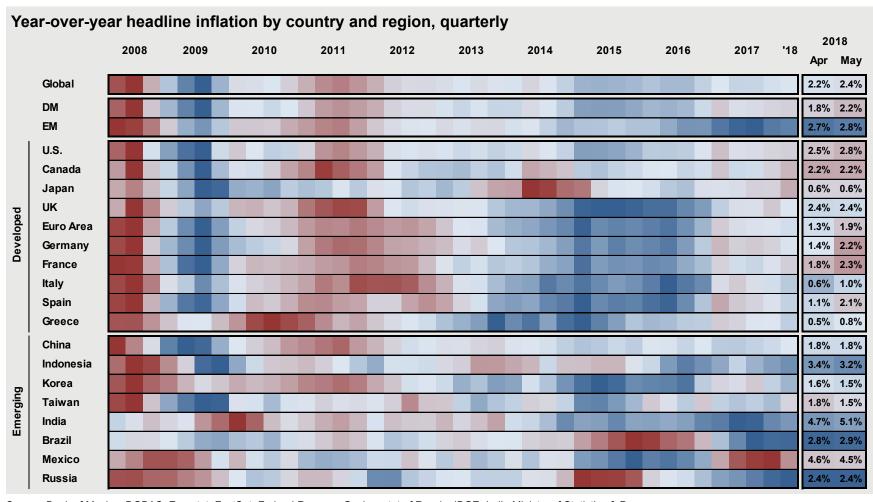


Source: Markit, J.P. Morgan Asset Management.

Heatmap colors are based on PMI relative to the 50 level, which indicates acceleration or deceleration of the sector, for the time period shown. Heat map is based on quarterly averages, with the exception of the two most recent figures, which are single month readings. Data for Canada, Indonesia and Mexico are back-tested and filled in from December 2007 to November 2010 for Canada and May 2011 for Indonesia and Mexico due to lack of existing PMI figures for these countries. DM and EM represent developed markets and emerging markets, respectively.

Guide to the Markets - U.S. Data are as of June 30, 2018.

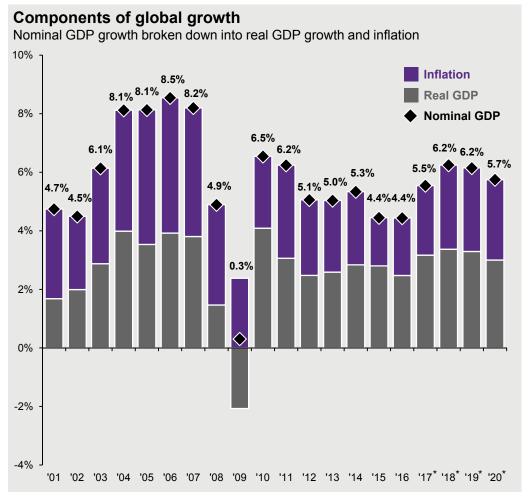




Source: Bank of Mexico, DGBAS, Eurostat, FactSet, Federal Reserve, Goskomstat of Russia, IBGE, India Ministry of Statistics & Programme Implementation, Japan Ministry of Internal Affairs & Communications, Korean National Statistical Office, Melbourne Institute, National Bureau of Statistics China, Statistics Canada, Statistics Indonesia, UK Office for National Statistics (ONS), J.P. Morgan Asset Management. Heatmap is based on quarterly averages, with the exception of the two most recent figures, which are single month readings. Colors are based on z-score of year-over-year inflation rate relative to 10-year history. DM and EM represent developed markets and emerging markets, respectively. *Guide to the Markets – U.S.* Data are as of June 30, 2018.



Global economic and earnings growth



Global GDP growth and corporate profits Nominal GDP, MSCI AC World LTM EPS, y/y % change **■** EPS** 30% 8% 6% 15% 0% -15% 2% Nominal GDP -30%

'07

Source: IMF, J.P. Morgan Asset Management; (Right) FactSet, MSCI.

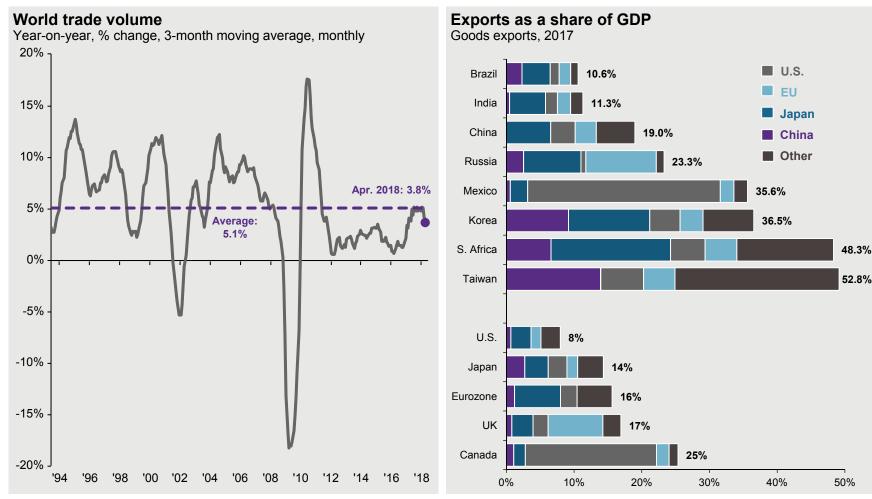
Nominal GDP used is based on purchasing power parity (PPP) valuation of country GDP. *2017 through 2020 nominal GDP figures are IMF estimates. **Earnings used are U.S. dollar trailing 12-month sum earnings per share figures except for 2018 which is a YTD sum. Past performance is not a reliable indicator of current and future results.

Guide to the Markets – U.S. Data are as of June 30, 2018.



'15

Global trade

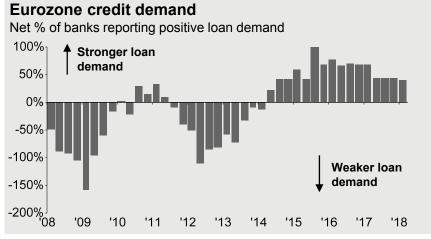


Source: FactSet, J.P. Morgan Asset Management; (Left) Netherlands Policy Analysis; (Right) IMF. *Guide to the Markets – U.S.* Data are as of June 30, 2018.



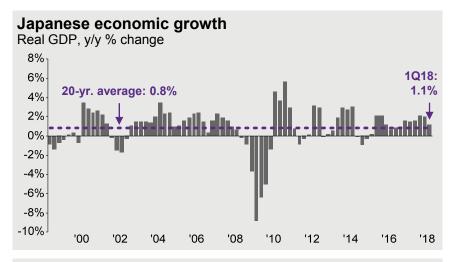
Eurozone GDP growth Contribution to eurozone real GDP growth, % change year-over-year 4% 2% 0% -2% Real GDP -4% Domestic demand Net exports -6% '07 '09 '11 '13 '15 '17



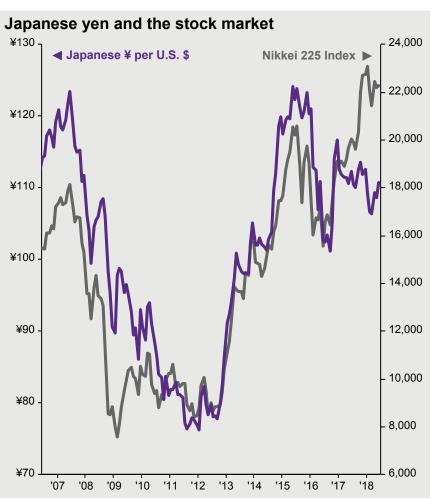


Source: FactSet, J.P. Morgan Asset Management; (Left, Top right) Eurostat; (Bottom right) ECB. Eurozone shown is the aggregate of the 19 countries that currently use the euro. *Guide to the Markets – U.S.* Data are as of June 30, 2018.



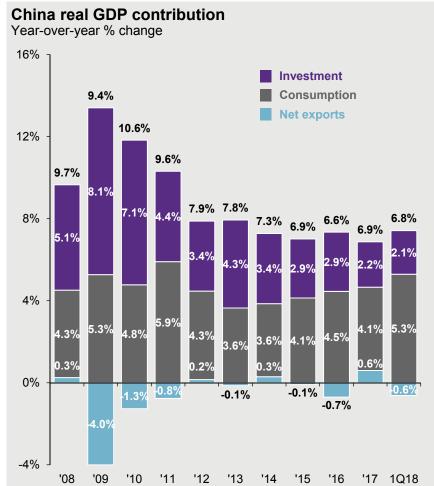


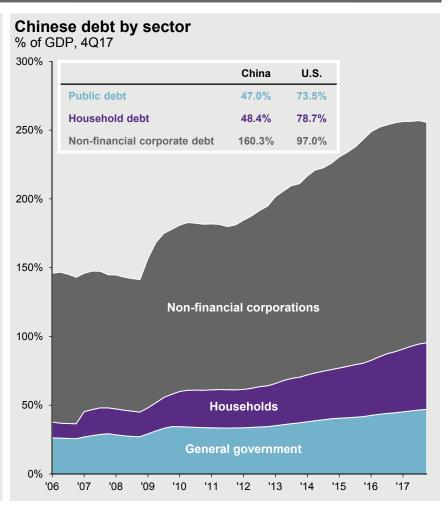




Source: FactSet, J.P. Morgan Asset Management; (Top and bottom left) Japanese Cabinet Office; (Right) Nikkei. Past performance is not a reliable indicator of current and future results.





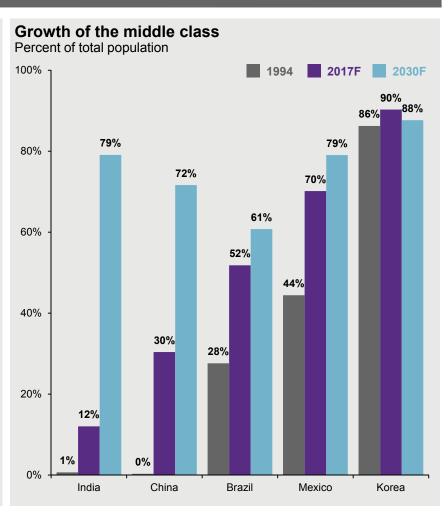


Source: FactSet, J.P. Morgan Asset Management; (Left) CEIC; (Right) BIS.

Household and non-financial corporate debt is based on market value and government debt is based on nominal value. Public debt refers to general government debt.



EM vs. DM growth Monthly, consensus expectations for GDP growth in 12 months* 7% 6% 5% 4% 3% 2% 1% 0% DM growth -1% EM growth **Growth differential** -2% -3% '97 '15 '17



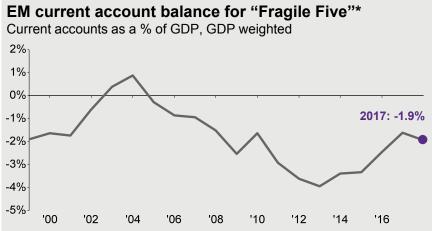
Source: J.P. Morgan Asset Management; (Left) Consensus Economics; (Right) Brookings Institute.

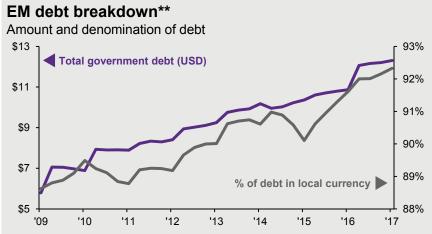
"Growth differential" is consensus estimates for EM growth in the next 12 months minus consensus estimates for DM growth in the next 12 months, provided by Consensus Economics. Middle class is defined as \$3,600-\$36,000 annual per capita income in purchasing power parity terms. Historical and forecast figures come from the Brookings Development, Aid and Governance Indicators. *Growth differential is as of May 31, 2018.

Guide to the Markets – U.S. Data are as of June 30, 2018.



Emerging market equities and the dollar Relative EM/DM equity performance, local currency, U.S. dollar REER 320 ■ MSCI EM / MSCI DM U.S. dollar Weaker dollar, 95 **EM** outperforming 270 100 105 220 170 115 Correlation Pre-Jan. 2010 -0.90 Post-Jan. 2010 -0.77120 120 125 Stronger dollar, EM underperforming 70 130 '00 '02 '04 '06 '08 '10 '18 '12 '14 '16





Source: J.P. Morgan Asset Management; (Left, top right) FactSet; (Left) MSCI, J.P. Morgan Global Economic Research; (Top, bottom right) IMF; (Bottom right) IIF. *Fragile Five includes Brazil, India, Indonesia, South Africa and Turkey. 2017 is an IMF forecast. **EM countries used include: Argentina, Brazil, Chile, China, Colombia, Czech Republic, Hungary, India, Indonesia, Korea, Mexico, Poland, South Africa, Thailand and Turkey. Guide to the Markets – U.S. Data are as of June 30, 2018.



Ann.
Volatility

20%

24%

3%

12%

4%

8%

8%

19%

25%

7%

10%

Correlations and volatility

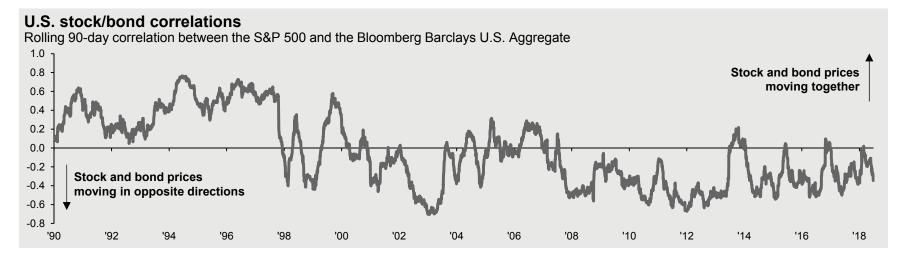
	U.S. Large				Corp.						Hedge	Private
-	Сар	EAFE	EME	Bonds	HY	Munis	Currcy.	EMD	Cmdty.	REITs	funds	equity
U.S. Large Cap	1.00	0.89	0.80	-0.26	0.74	-0.12	-0.54	0.61	0.68	0.80	0.85	0.86
EAFE		1.00	0.91	-0.11	0.79	0.01	-0.71	0.72	0.69	0.68	0.87	0.83
ЕМЕ			1.00	-0.03	0.89	0.09	-0.73	0.86	0.75	0.60	0.87	0.79
Bonds				1.00	0.00	0.83	-0.16	0.29	-0.14	0.04	-0.18	-0.30
Corp. HY					1.00	0.13	-0.57	0.88	0.74	0.68	0.83	0.72
Munis						1.00	-0.20	0.46	-0.08	0.09	0.00	-0.15
Currencies							1.00	-0.65	-0.61	-0.41	-0.51	-0.61
EMD								1.00	0.63	0.59	0.71	0.61
Commodities									1.00	0.49	0.78	0.80
REITs										1.00	0.59	0.67
Hedge funds											1.00	0.87
Private equity												1.00

Source: Barclays Inc., Bloomberg, Cambridge Associates, Credit Suisse/Tremont, FactSet, Federal Reserve, MSCI, NCREIF, Standard & Poor's, J.P. Morgan Asset Management.

Indices used – Large Cap: S&P 500 Index; Currencies: Federal Reserve Trade Weighted Dollar; EAFE: MSCI EAFE; EME: MSCI Emerging Markets; Bonds: Bloomberg Barclays Aggregate; Corp HY: Bloomberg Barclays Corporate High Yield; EMD: Bloomberg Barclays Emerging Market; Cmdty.: Bloomberg Commodify Index; Real Estate: NAREIT ODCE Index; Hedge Funds: CS/Tremont Hedge Fund Index; Private equity: Cambridge Associates Global Buyout & Growth Index. Private equity data are reported on a two-quarter lag. All correlation coefficients and annualized volatility are calculated based on quarterly total return data for period 6/30/08 to 6/30/18, except for Private equity, which is based on the period from 12/31/07 to 12/31/17. This chart is for illustrative purposes only.

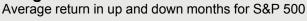


Hedge funds GTM - u.s. | 55



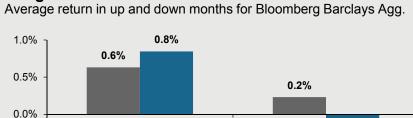
-0.5%

Hedge fund returns in different market environments





Hedge fund returns in different market environments



Bloomberg Barclays U.S. Agg.
-0.7%

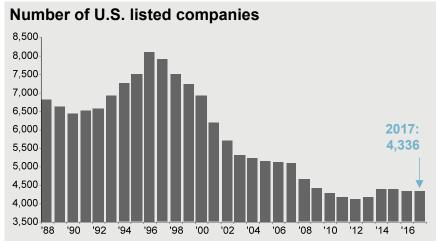
Bloomberg Barclays Agg up Bloomberg Barclays Agg down

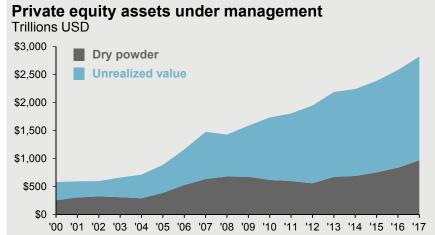
HFRI FW Comp.

Source: Barclays, Bloomberg, FactSet, HFRI, Standard & Poor's, J.P. Morgan Asset Management. Returns in different market environments are based on monthly returns over the past 15 years through May 31, 2018, due to data availability. *Guide to the Markets – U.S.* Data are as of June 30, 2018.



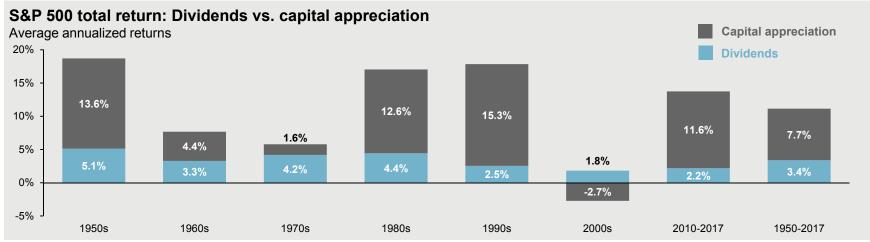
Public vs. private equity returns MSCI AC World total return and Global Buyout & Growth Equity Index* 16% **MSCI ACWI Buyout & Growth Equity Index** 14% 14.4% 14.3% 12.6% 12% 10% 10.0% 9.0% 8.8% 8% 6% 6.4% 5.8% 4% 2% 0% 5 years 10 years 15 years 20 years

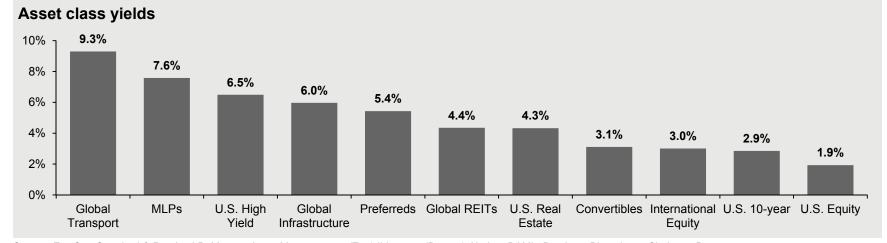




Sources: Cambridge Associates, Prequin, Standard & Poor's, University of Florida, J.P. Morgan Asset Management. *Global Buyout & Growth Equity data are as of December 31, 2017. *Guide to the Markets – U.S.* Data are as of June 30, 2018

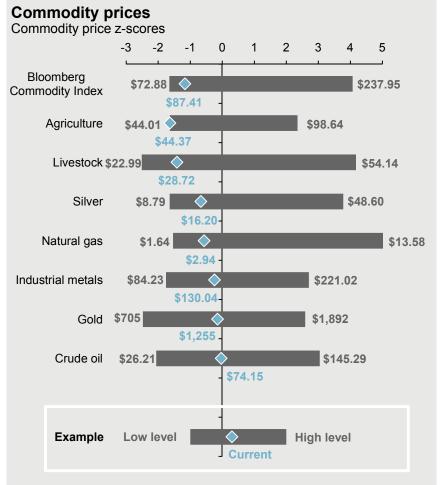


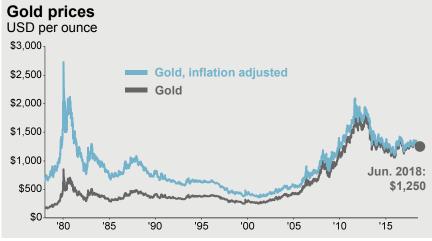


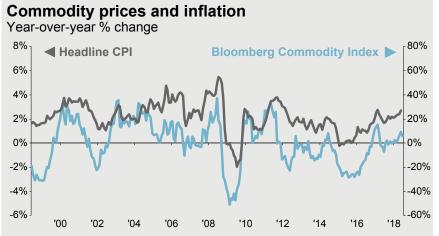


Source: FactSet, Standard & Poor's, J.P. Morgan Asset Management; (Top) Ibbotson; (Bottom) Alerian, BAML, Barclays, Bloomberg, Clarkson, Drewry Maritime Consultants, Federal Reserve, FTSE, MSCI, NCREIF. Dividend vs. capital appreciation returns are through 12/31/17. Yields are as of 6/30/18, except Global Infrastructure (12/31/17) and U.S. Real Estate and Global Transport (3/31/18). Global Transport: Levered yields for transport assets are calculated as the difference between charter rates (rental income), operating expenses, debt amortization and interest expenses, as a percentage of equity value. Yields for each of the sub-vessel types above are calculated and respective weightings are applied to each of the sub-sectors to arrive at the current levered yields for Global Transportation; MLPs: Alerian MLP; Preferreds: BAML Hybrid Preferred Securities; U.S. High Yield: Bloomberg US Aggregate Corporate High Yield; Global Infrastructure: MSCI Global Infrastructure Asset Index-Low risk; U.S. Real Estate: NCREIF-ODCE Index; Global REITs; FTSE NAREIT Global REITs; Convertibles: Bloomberg Barclays U.S. Convertibles Composite; International Equity: MSCI AC World ex-U.S.; U.S. 10-year: Tullett Prebon; U.S. Equity: MSCI USA. *Guide to the Markets – U.S.* Data are as of June 30, 2018.









Source: FactSet, J.P. Morgan Asset Management; (Left) Bloomberg, CME; (Top right) BLS, CME; (Bottom right) Bloomberg, BLS. Commodity prices are represented by the appropriate Bloomberg Commodity sub-index. Crude oil shown is Brent crude. Other commodity prices are represented by futures contracts. Z-scores are calculated using daily prices over the past 10 years.

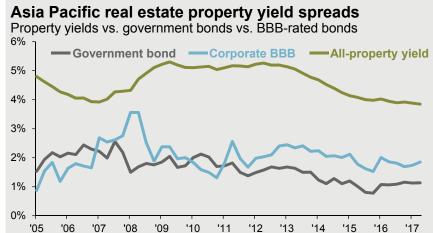
Guide to the Markets – U.S. Data are as of June 30, 2018.



U.S. real estate net operating income growth Year-over-year NPI-ODCE Index NOI growth



Property yields vs. government bonds vs. BBB-rated bonds Office of the content o



Source: J.P. Morgan Asset Management; (Left) U.S. real estate: NPI-ODCE NOI Growth; (Top right) Europe real estate: CBRE EU-15 prime index; (Bottom right) Asia Pacific real estate: Barclays, Bloomberg. All property yields (market value weighted blend of Sydney CBD and Melbourne CBD average equivalent prime yield (NLA) and Tokyo CBD 5-Kus market yield (GFA), in JPY), government bonds and BBB-rated bonds for Asia Pacific are yield to worst.



Asset class returns

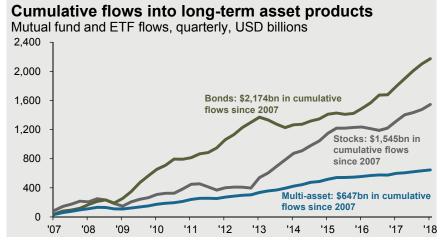
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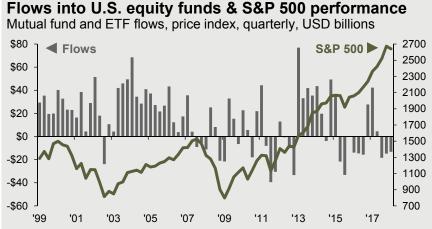
																2003	- 2017
2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	YTD	Ann.	Vol.
EM Equity	REITs	EM Equity	REITs	EM Equity	Fixed Income	EM Equity	REITs	REITs	REITs	Small Cap	REITs	REITs	Small Cap	EM Equity	Small Cap	EM Equity	EM Equity
56.3%	31.6%	34.5%	35.1%	39.8%	5.2%	79.0%	27.9%	8.3%	19.7%	38.8%	28.0%	2.8%	21.3%	37.8%	7.7%	12.7%	23.0%
Small	EM	Comdty.	EM	Comdty.	Cash	High	Small	Fixed	High	Large	Large	Large	High	DM	Large	Small	REITs
Сар	Equity		Equity			Yield	Сар	Income	Yield	Сар	Cap	Сар	Yield	Equity	Сар	Сар	
47.3%	26.0%	21.4%	32.6%	16.2%	1.8%	59.4%	26.9%	7.8%	19.6%	32.4%	13.7%	1.4%	14.3%	25.6%	2.6%	11.2%	22.3%
DM Equity	DM Equity	DM Equity	DM Equity	DM Equity	Asset Almc.	DM Equity	EM Equity	High Yield	EM Equity	DM Equity	Fixed Income	Fixed Income	Large Cap	Large Cap	REITs	REITs	Small Cap
39.2%	20.7%	14.0%	26.9%	11.6%	25.4%	32.5%	19.2%	3.1%	18.6%	23.3%	6.0%	0.5%	12.0%	21.8%	1.3%	11.1%	18.8%
REITs	Small Cap	REITs	Small Cap	Asset Alloc.	High Yiela	REITs	Comdty.	Large Cap	DM Equity	Asset Al <u>l</u> oc.	Asset Alloc.	Cash	Comdty.	Small Cap	Cash	Large Cap	Comdty.
37.1%	18.3%	12.2%	18.4%	7.1%	-26.9%	28.0%	16.8%	2.1%	17.9%	14/.9%	5.2%	0.0%	11.8%	14.6%	0.8%	9.9%	18.8%
High	High	Asset	Large	Fixed	Small	Small	Large	Cash	Small	High	Small	DM	EM	Asset	Asset	High	DM
Yield	Yield	Allec.	Cap	Income	Сар	Сар	Сар		Сар	Yield	Cap	Equity	Equity	Allec.	Alloc.	Yield	Equity
32.4%	13.2%	8.1%	15.8%	7.0%	-33.8%	27.2%	15.1%	0.1%	16.3%	7.3%	4.9%	-0.4%	11.6%	14.6%	0.3%	9.6%	18.4%
Large Cap	Asset Alloc.	Large Cap	Asset Alloc.	Large Cap	Comdty.	Large Cap	High Yield	Asset Alloc.	Large /	REITs	Cash	Asset Alloc.	REITs	High Yield	Comdty.	DM Equity	Large Cap
28.7%	12.8%	4.9%	15.3%	5.5%	-35.6%	26.5%	14.8%	0.7%	16.0%	2.9%	0.0%	-2.0%	8.6%	10.4%	0.0%	8.6%	14.5%
Asset	Large	Small	High	Cash	Large	Asset	Asset/	Small	Asset	Cash	High	High	Asset	REITs	Fixed	Asset	High
Alloc.	Сар	Сар	Yield		Сар	Alloc.	Alloc.	Сар	Alloc.		Yield	Yield	Aurc.		Income	Alloc.	Yield
26.3%	10.9%	4.6%	13.7%	4.8%	-37.0%	25.0%	13.3%	-4.2%	12.2%	0.0%	0.0%	-2.7%	8.3%	8.7%	- 1.6%	8.3%	11.3%
Comdty.	Comdty.	High Yield	Cash	High Yield	REITs	Comdty.	DM Equity	DM Equity	Fixed Income	Fixed Income	EM Equity	Small Cap	Fixed Income	Fixed Income	DM Equity	Fixe d In come	Asset Alloc.
23.9%	9.1%	3.6%	4.8%	3.2%	-37.7%	18.9%	8.2%	- 11.7%	4.2%	- 2.0%	- 1.8%	-4.4%	2.6%	3.5%	- 2.4%	4.1%	11.0%
Fixed	Fixed	Cook	Fixed	Small	DM	Fixed	Fixed	Comdtu	Cook	EM	DM	EM	DM	Comdtu	High	Cook	Fixed
Income	Income	Cash	Income	Сар	Equity	Income	Income	Comdty.	Cash	Equity	Equity	Equity	Equity	Comdty.	Yield	Cash	Income
4.1%	4.3%	3.0%	4.3%	- 1.6%	- 43.1%	5.9%	6.5%	- 13.3%	0.1%	-2.3%	-4.5%	- 14.6%	1.5%	1.7%	-2.5%	1.2%	3.3%
Cash	Cash	Fixed Income	Comdty.	REITs	EM Equity	Cash	Cash	EM Equity	Comdty.	Comdty.	Comdty.	Comdty.	Cash	Cash	EM Equity	Comdty.	Cash
1.0%	1.2%	2.4%	2.1%	- 15.7%	-53.2%	0.1%	0.1%	- 18.2%	- 1.1%	-9.5%	- 17.0%	-24.7%	0.3%	0.8%	-6.5%	-0.3%	0.8%

Source: Barclays, Bloomberg, FactSet, MSCI, NAREIT, Russell, Standard & Poor's, J.P. Morgan Asset Management. Large cap: S&P 500, Small cap: Russell 2000, EM Equity: MSCI EME, DM Equity: MSCI EAFE, Comdty: Bloomberg Commodity Index, High Yield: Bloomberg Barclays Global HY Index, Fixed Income: Bloomberg Barclays US Aggregate, REITs: NAREIT Equity REIT Index. The "Asset Allocation" portfolio assumes the following weights: 25% in the S&P 500, 10% in the Russell 2000, 15% in the MSCI EAFE, 5% in the MSCI EME, 25% in the Bloomberg Barclays US Aggregate, 5% in the Bloomberg Barclays 1-3m Treasury, 5% in the Bloomberg Barclays Global High Yield Index, 5% in the Bloomberg Commodity Index and 5% in the NAREIT Equity REIT Index. Balanced portfolio assumes annual rebalancing. Annualized (Ann.) return and volatility (Vol.) represents period of 12/31/02 – 12/31/17. Please see disclosure page at end for index definitions. All data represents total return for stated period. Past performance is not indicative of future returns. *Guide to the Markets – U.S.* Data are as of June 30, 2018.



		Registered product flows																	
USD billions	AUM	YTD	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001
U.S. equity	8,251	(1)	14	(16)	(18)	111	187	(34)	(34)	32	21	1	28	79	114	173	142	56	88
World equity	3,529	97	243	10	205	150	201	61	19	86	60	(33)	190	170	134	89	39	11	(9)
Taxable bond	3,604	106	391	227	57	89	(10)	298	165	212	303	60	106	50	45	27	44	106	59
Tax-free bond	703	8	33	31	21	33	(55)	52	(8)	14	71	11	13	17	7	(7)	(3)	13	9
Multi-asset	2,494	15	60	29	59	92	90	52	39	62	40	14	98	79	80	82	51	22	19
Liquidity	2,699	(13)	89	196	39	30	31	0	(52)	(347)	(260)	679	543	184	51	(53)	(91)	2	257

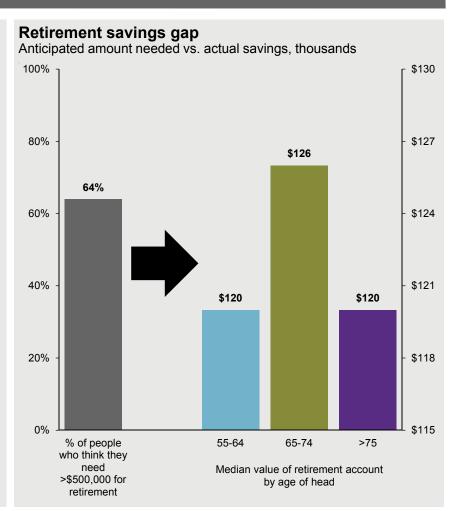




Source: Strategic Insight Simfund, J.P. Morgan Asset Management. All data include flows through May 2018 and capture all registered product flows (open-end mutual funds and ETFs). Simfund data are subject to periodic revisions. World equity flows are inclusive of emerging market, global equity and regional equity flows. Multi-asset flows include asset allocation, balanced fund, flexible portfolio and mixed income flows. Guide to the Markets – U.S. Data are as of June 30, 2018.



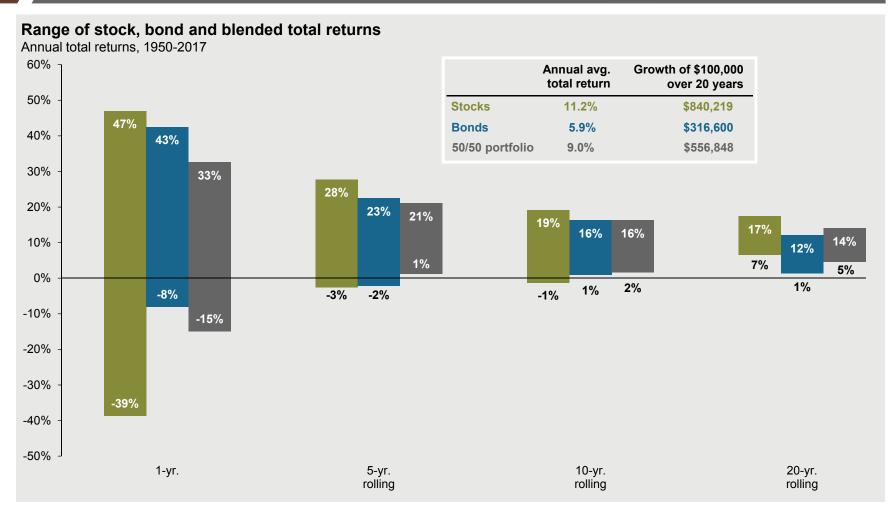
Probability of reaching ages 80 and 90 Persons aged 65, by gender, and combined couple 100% Men 90% Women Couple - at least one lives to specified age 80% 73% 63% 60% 49% 40% 34% 22% 20% 0% 80 years 90 years



Source: J.P. Morgan Asset Management; (Left) SSA 2014 Life Tables; (Right) 2017 Retirement Confidence Survey, Employee Benefit Research Institute and Greenwald & Associates; 2016 Survey of Consumer Finances, Federal Reserve.

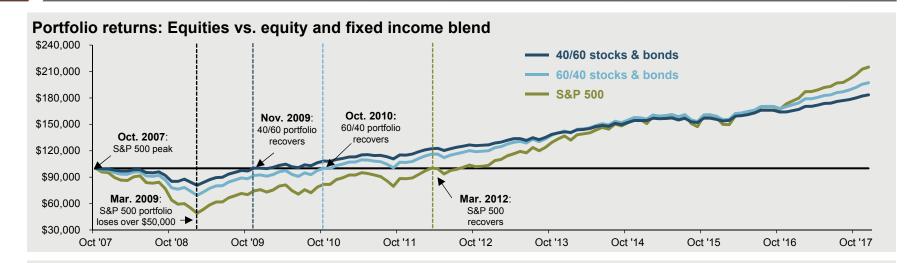
EBRI survey was conducted from January 6, 2017 to January 13, 2017 through online interviews with 1,671 individuals (1,082 workers and 589 retirees) ages 25 and older in the United States.

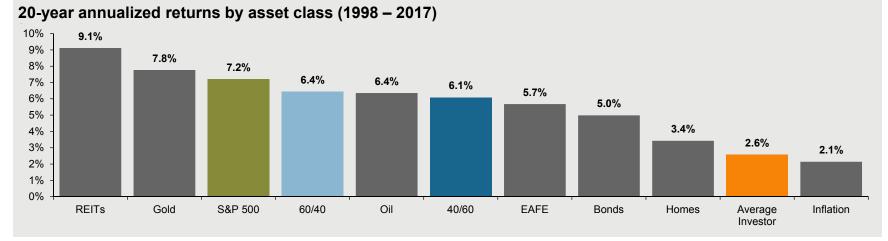




Source: Barclays, Bloomberg, FactSet, Federal Reserve, Robert Shiller, Strategas/Ibbotson, J.P. Morgan Asset Management. Returns shown are based on calendar year returns from 1950 to 2017. Stocks represent the S&P 500 Shiller Composite and Bonds represent Strategas/Ibbotson for periods from 1950 to 2010 and Bloomberg Barclays Aggregate thereafter. Growth of \$100,000 is based on annual average total returns from 1950 to 2017.

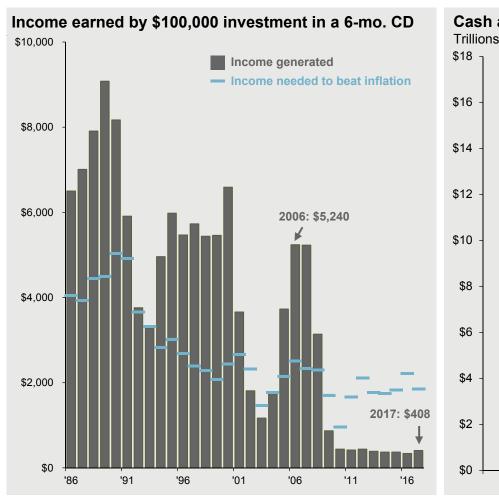


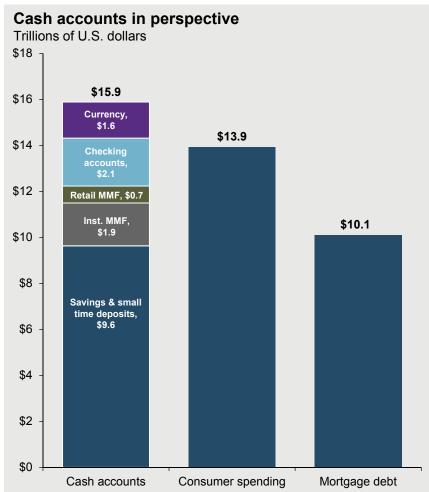




Source: J.P. Morgan Asset Management; (Top) Barclays, Bloomberg, FactSet, Standard & Poor's; (Bottom) Dalbar Inc. Indices used are as follows: REITS: NAREIT Equity REIT Index, EAFE: MSCI EAFE, Oil: WTI Index, Bonds: Bloomberg Barclays U.S. Aggregate Index, Homes: median sale price of existing single-family homes, Gold: USD/troy oz., Inflation: CPI. 60/40: A balanced portfolio with 60% invested in S&P 500 Index and 40% invested in high-quality U.S. fixed income, represented by the Bloomberg Barclays U.S. Aggregate Index. The portfolio is rebalanced annually. Average asset allocation investor return is based on an analysis by Dalbar Inc., which utilizes the net of aggregate mutual fund sales, redemptions and exchanges each month as a measure of investor behavior. Returns are annualized (and total return where applicable) and represent the 20-year period ending 12/31/17 to match Dalbar's most recent analysis. Guide to the Markets – U.S. Data are as of June 30, 2018.







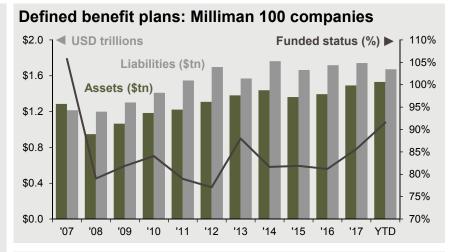
Source: FactSet, J.P. Morgan Asset Management; (Left) Bankrate.com; (Right) BEA, Federal Reserve System.

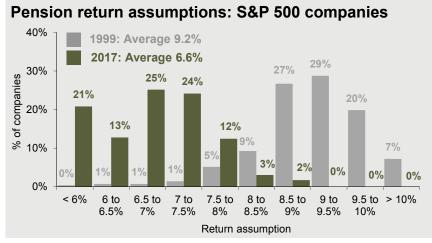
Cash accounts and consumer spending are as of 5/31/18 and mortgage debt is as of 3/31/18. M2 includes M1 (currency in circulation and checking accounts) plus savings deposits, small-denomination time deposits and retail money market mutual funds. Institutional money market funds are considered a memorandum item, not included in M2. Annual income is for illustrative purposes and is calculated based on the 6-month CD yield on average during each year and \$100,000 invested. Past performance is not indicative of comparable future results.

Guide to the Markets – U.S. Data are as of June 30, 2018.



Asset allocation: Corporate DB plans vs. endowments 36.0% Equities 37.4% 8.0% Fixed Income 44.4% 19.0% Hedge Funds 3.9% 11.0% Private Equity 3.8% **Endowments** 6.0% Real Estate Corporate DB plans 3.3% 16.0% Other Alternatives 4.0% 4.0% Cash 3.2% 0% 10% 20% 30% 40% 50%

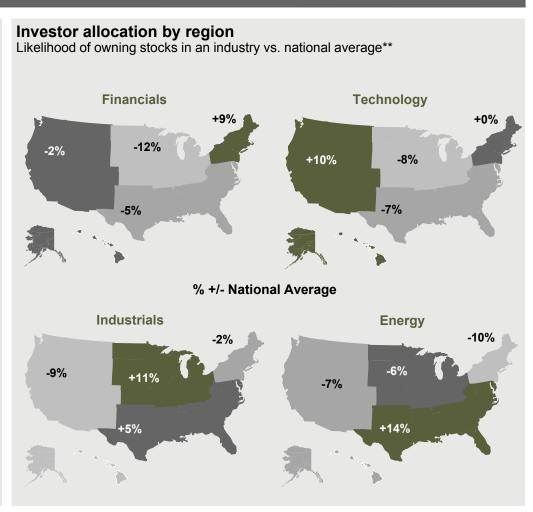




Source: J.P. Morgan Asset Management; (Left) NACUBO (National Association of College and University Business Officers), Towers Watson; (Top right) Milliman Pension Funding Index; (Bottom right) Compustat/FactSet, S&P 500 corporate 10-Ks. Endowment asset allocation as of 2017. Corporate DB plans asset allocation as of 2016. Endowments represents dollar-weighted average data of 805 colleges and universities. Corporate DB plans represents aggregate asset allocation of Fortune 1000 pension plans. Pension return assumptions based on all available and reported data from S&P 500 Index companies. Pension assets, liabilities and funded status based on Milliman 100 companies reporting pension data as of May 31, 2018. Return assumption bands are inclusive of upper range. All information is shown for illustrative purposes only. *Guide to the Markets – U.S.* Data are as of June 30, 2018.



Investment universe & U.S. investors Percentage of total net assets, 2017 U.S. Global 100% 90% 30% 80% 70% 64% 76% 60% 50% 40% 70% 30% 20% 36% 24% 10% 0% Global GDP Global stock & bond U.S. investor markets* allocation

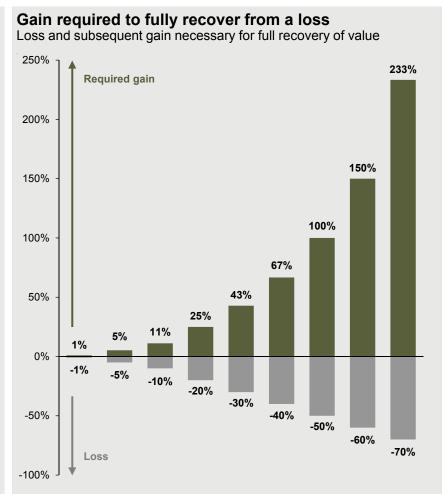


Source: IMF, Openfolio, Strategic Insight Simfund, J.P. Morgan Asset Management.

*Global stock and bond markets data are as of 2013. U.S. investor allocation is the total value of investments in global or domestic equity mutual funds and ETFs as of 2017. **Investor allocation by region is based on data collected by Openfolio. Average sector allocations at the national level are determined by looking at the sector allocations of over 20,000 brokerage accounts, and taking a simple average. Portfolio allocations are then evaluated on a regional basis, and the regional averages are compared to the national average to highlight any investor biases. Further details can be found on openfolio.com.



The power of compounding Cumulative return by holding period 350% Cash **Bonds** 301% 300% Stocks 250% 200% 165% 150% 100% 51% 42% 50% 28% 11% 7% 0% 1 year 5 years 20 years



Source: BLS, FactSet, Standard & Poor's, J.P. Morgan Asset Management.

Cumulative returns are calculated using historical data. Stock returns are based on the S&P 500, bond returns are based on the Bloomberg Barclays U.S. Aggregate Index and cash returns are based on 3-month U.S. Treasury bills. 1-year returns are 20-year average annualized return from 12/31/97-12/31/17 for each asset class. 5- and 20-year returns are cumulative over that time period based on the annualized return. Past performance is not indicative of future returns.



J.P. Morgan Asset Management - Index definitions

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All indexes are unmanaged and an individual cannot invest directly in an index. Index returns do not include fees or expenses.

Equities:

The Dow Jones Industrial Average is a price-weighted average of 30 actively traded blue-chip U.S. stocks.

The MSCI ACWI (All Country World Index) is a free float-adjusted market capitalization weighted index that is designed to measure the equity market performance of developed and emerging markets.

The MSCI EAFE Index (Europe, Australasia, Far East) is a free float-adjusted market capitalization index that is designed to measure the equity market performance of developed markets, excluding the US & Canada.

The MSCI Emerging Markets Index is a free float-adjusted market capitalization index that is designed to measure equity market performance in the global emerging markets.

The **MSCI Europe Index** is a free float-adjusted market capitalization index that is designed to measure developed market equity performance in Europe.

The MSCI Pacific Index is a free float-adjusted market capitalization index that is designed to measure equity market performance in the Pacific region.

The Russell 1000 Index® measures the performance of the 1,000 largest companies in the Russell 3000.

The Russell 1000 Growth Index® measures the performance of those Russell 1000 companies with higher price-to-book ratios and higher forecasted growth values.

The **Russell 1000 Value Index**® measures the performance of those Russell 1000 companies with lower price-to-book ratios and lower forecasted growth values.

The Russell 2000 Index® measures the performance of the 2,000 smallest companies in the Russell 3000 Index.

The Russell 2000 Growth Index® measures the performance of those Russell 2000 companies with higher price-to-book ratios and higher forecasted growth values.

The Russell 2000 Value Index® measures the performance of those Russell 2000 companies with lower price-to-book ratios and lower forecasted growth values.

The **Russell 3000 Index**® measures the performance of the 3,000 largest U.S. companies based on total market capitalization.

The Russell Midcap Index® measures the performance of the 800 smallest companies in the Russell 1000 Index

The **Russell Midcap Growth Index** ® measures the performance of those Russell Midcap companies with higher price-to-book ratios and higher forecasted growth values. The stocks are also members of the Russell 1000 Growth index.

The **Russell Midcap Value Index** ® measures the performance of those Russell Midcap companies with lower price-to-book ratios and lower forecasted growth values. The stocks are also members of the Russell 1000 Value index.

The **S&P 500 Index** is widely regarded as the best single gauge of the U.S. equities market. The index includes a representative sample of 500 leading companies in leading industries of the U.S. economy. The **S&P 500 Index** focuses on the large-cap segment of the market; however, since it includes a significant portion of the total value of the market, it also represents the market.

Fixed income:

The **Bloomberg Barclays 1-3 Month U.S. Treasury Bill Index** includes all publicly issued zero-coupon US Treasury Bills that have a remaining maturity of less than 3 months and more than 1 month, are rated investment grade, and have \$250 million or more of outstanding face value. In addition, the securities must be denominated in U.S. dollars and must be fixed rate and non convertible.

The **Bloomberg Barclays Global High Yield Index** is a multi-currency flagship measure of the global high yield debt market. The index represents the union of the US High Yield, the Pan-European High Yield, and Emerging Markets (EM) Hard Currency High Yield Indices. The high yield and emerging markets subcomponents are mutually exclusive. Until January 1, 2011, the index also included CMBS high yield securities.

The **Bloomberg Barclays Municipal Index**: consists of a broad selection of investment- grade general obligation and revenue bonds of maturities ranging from one year to 30 years. It is an unmanaged index representative of the tax-exempt bond market.

The **Bloomberg Barclays US Dollar Floating Rate Note (FRN) Index** provides a measure of the U.S. dollar denominated floating rate note market.

The **Bloomberg Barclays US Corporate Investment Grade Index** is an unmanaged index consisting of publicly issued US Corporate and specified foreign debentures and secured notes that are rated investment grade (Baa3/BBB or higher) by at least two ratings agencies, have at least one year to final maturity and have at least \$250 million par amount outstanding. To qualify, bonds must be SEC-registered.

The **Bloomberg Barclays US High Yield Index** covers the universe of fixed rate, non-investment grade debt. Eurobonds and debt issues from countries designated as emerging markets (sovereign rating of Baa1/BBB+/BBB+ and below using the middle of Moody's, S&P, and Fitch) are excluded, but Canadian and global bonds (SEC registered) of issuers in non-EMG countries are included.

The **Bloomberg Barclays US Mortgage Backed Securities Index** is an unmanaged index that measures the performance of investment grade fixed-rate mortgage backed pass-through securities of GNMA, FNMA and FHLMC.

The **Bloomberg Barclays US TIPS Index** consists of Inflation-Protection securities issued by the U.S. Treasury.

The **J.P. Morgan Emerging Market Bond Global Index (EMBI)** includes U.S. dollar denominated Brady bonds, Eurobonds, traded loans and local market debt instruments issued by sovereign and quasi-sovereign entities

The **J.P. Morgan Domestic High Yield Index** is designed to mirror the investable universe of the U.S. dollar domestic high yield corporate debt market.

The J.P. Morgan Corporate Emerging Markets Bond Index Broad Diversified (CEMBI Broad Diversified) is an expansion of the J.P. Morgan Corporate Emerging Markets Bond Index (CEMBI). The CEMBI is a market capitalization weighted index consisting of U.S. dollar denominated emerging market corporate bonds.

The J.P. Morgan Emerging Markets Bond Index Global Diversified (EMBI Global Diversified) tracks total returns for U.S. dollar-denominated debt instruments issued by emerging market sovereign and quasi-sovereign entities: Brady bonds, loans, Eurobonds. The index limits the exposure of some of the larger countries

The **J.P. Morgan GBI EM Global Diversified** tracks the performance of local currency debt issued by emerging market governments, whose debt is accessible by most of the international investor base.

The **U.S.** Treasury Index is a component of the U.S. Government index.



J.P. Morgan Asset Management - Index definitions & disclosures

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Other asset classes:

The **Alerian MLP Index** is a composite of the 50 most prominent energy Master Limited Partnerships (MLPs) that provides investors with an unbiased, comprehensive benchmark for the asset class.

The **Bloomberg Commodity Index** and related sub-indices are composed of futures contracts on physical commodities and represents twenty two separate commodities traded on U.S. exchanges, with the exception of aluminum. nickel. and zinc

The **Cambridge Associates U.S. Global Buyout and Growth Index**® is based on data compiled from 1,768 global (U.S. & ex – U.S.) buyout and growth equity funds, including fully liquidated partnerships, formed between 1986 and 2013.

The **CS/Tremont Hedge Fund Index** is compiled by Credit Suisse Tremont Index, LLC. It is an asset-weighted hedge fund index and includes only funds, as opposed to separate accounts. The Index uses the Credit Suisse/Tremont database, which tracks over 4500 funds, and consists only of funds with a minimum of US\$50 million under management, a 12-month track record, and audited financial statements. It is calculated and rebalanced on a monthly basis, and shown net of all performance fees and expenses. It is the exclusive property of Credit Suisse Tremont Index, LLC.

The HFRI Monthly Indices (HFRI) are equally weighted performance indexes, utilized by numerous hedge fund managers as a benchmark for their own hedge funds. The HFRI are broken down into 4 main strategies, each with multiple sub strategies. All single-manager HFRI Index constituents are included in the HFRI Fund Weighted Composite, which accounts for over 2200 funds listed on the internal HFR Database.

The NAREIT EQUITY REIT Index is designed to provide the most comprehensive assessment of overall industry performance, and includes all tax-qualified real estate investment trusts (REITs) that are listed on the NYSE, the American Stock Exchange or the NASDAQ National Market List.

The **NFI-ODCE**, short for NCREIF Fund Index - Open End Diversified Core Equity, is an index of investment returns reporting on both a historical and current basis the results of 33 open-end commingled funds pursuing a core investment strategy, some of which have performance histories dating back to the 1970s. The NFI-ODCE Index is capitalization-weighted and is reported gross of fees. Measurement is time-weighted.

Definitions:

Investing in alternative assets involves higher risks than traditional investments and is suitable only for sophisticated investors. Alternative investments involve greater risks than traditional investments and should not be deemed a complete investment program. They are not tax efficient and an investor should consult with his/her tax advisor prior to investing. Alternative investments have higher fees than traditional investments and they may also be highly leveraged and engage in speculative investment techniques, which can magnify the potential for investment loss or gain. The value of the investment may fall as well as rise and investors may get back less than they invested.

Bonds are subject to interest rate risks. Bond prices generally fall when interest rates rise.

Investments in **commodities** may have greater volatility than investments in traditional securities, particularly if the instruments involve leverage. The value of commodity-linked derivative instruments may be affected by changes in overall market movements, commodity index volatility, changes in interest rates, or factors affecting a particular industry or commodity, such as drought, floods, weather, livestock disease, embargoes, tariffs and international economic, political and regulatory developments. Use of leveraged commodity-linked derivatives creates an opportunity for increased return but, at the same time, creates the possibility for greater loss.

Derivatives may be riskier than other types of investments because they may be more sensitive to changes in economic or market conditions than other types of investments and could result in losses that significantly exceed the original investment. The use of derivatives may not be successful, resulting in investment losses, and the cost of such strategies may reduce investment returns.

Distressed Restructuring Strategies employ an investment process focused on corporate fixed income instruments, primarily on corporate credit instruments of companies trading at significant discounts to their value at issuance or obliged (par value) at maturity as a result of either formal bankruptcy proceeding or financial market perception of near term proceedings.

Investments in **emerging markets** can be more volatile. The normal risks of investing in foreign countries are heightened when investing in emerging markets. In addition, the small size of securities markets and the low trading volume may lead to a lack of liquidity, which leads to increased volatility. Also, emerging markets may not provide adequate legal protection for private or foreign investment or private property.

The price of **equity** securities may rise, or fall because of changes in the broad market or changes in a company's financial condition, sometimes rapidly or unpredictably. These price movements may result from factors affecting individual companies, sectors or industries, or the securities market as a whole, such as changes in economic or political conditions. Equity securities are subject to "stock market risk" meaning that stock prices in general may decline over short or extended periods of time.

Equity market neutral strategies employ sophisticated quantitative techniques of analyzing price data to ascertain information about future price movement and relationships between securities, select securities for purchase and sale. Equity Market Neutral Strategies typically maintain characteristic net equity market exposure no greater than 10% long or short.

Global macro strategies trade a broad range of strategies in which the investment process is predicated on movements in underlying economic variables and the impact these have on equity, fixed income, hard currency and commodity markets.

International investing involves a greater degree of risk and increased volatility. Changes in currency exchange rates and differences in accounting and taxation policies outside the U.S. can raise or lower returns. Some overseas markets may not be as politically and economically stable as the United States and other nations.

There is no guarantee that the use of **long and short positions** will succeed in limiting an investor's exposure to domestic stock market movements, capitalization, sector swings or other risk factors. Using long and short selling strategies may have higher portfolio turnover rates. Short selling involves certain risks, including additional costs associated with covering short positions and a possibility of unlimited loss on certain short sale positions.

Merger arbitrage strategies which employ an investment process primarily focused on opportunities in equity and equity related instruments of companies which are currently engaged in a corporate transaction.

Mid-capitalization investing typically carries more risk than investing in well-established "blue-chip" companies. Historically, mid-cap companies' stock has experienced a greater degree of market volatility than the average stock.

Price to forward earnings is a measure of the price-to-earnings ratio (P/E) using forecasted earnings. **Price to book value** compares a stock's market value to its book value. **Price to cash flow** is a measure of the market's expectations of a firm's future financial health. **Price to dividends** is the ratio of the price of a share on a stock exchange to the dividends per share paid in the previous year, used as a measure of a company's potential as an investment.

Real estate investments may be subject to a higher degree of market risk because of concentration in a specific industry, sector or geographical sector. Real estate investments may be subject to risks including, but not limited to, declines in the value of real estate, risks related to general and economic conditions, changes in the value of the underlying property owned by the trust and defaults by borrower.

Relative Value Strategies maintain positions in which the investment thesis is predicated on realization of a valuation discrepancy in the relationship between multiple securities.

Small-capitalization investing typically carries more risk than investing in well-established "blue-chip" companies since smaller companies generally have a higher risk of failure. Historically, smaller companies' stock has experienced a greater degree of market volatility than the average stock.



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Unless otherwise stated, all data are as of June 30, 2018 or most recently available.

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