

Guide to the Markets®

U.S. | 4Q 2016 | As of September 30, 2016





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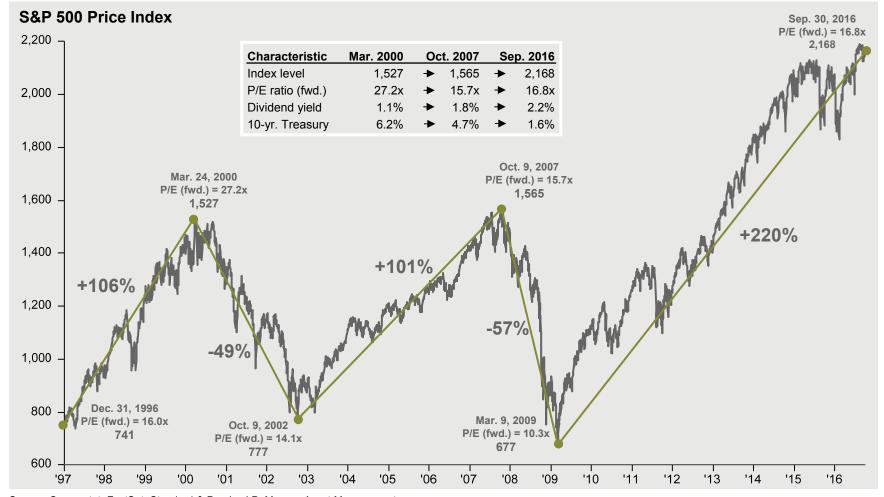
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S&P 500 Index at inflection points

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Source: Compustat, FactSet, Standard & Poor's, 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 September 30, 2016.

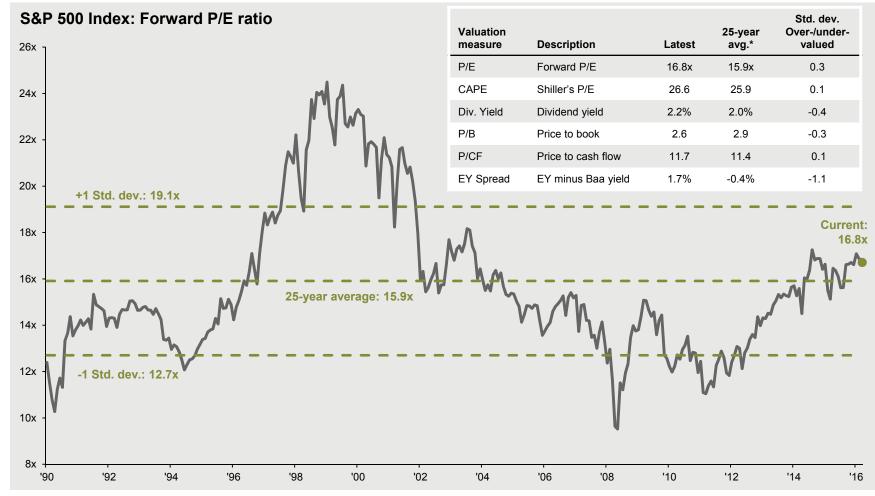


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Equities

S&P 500 valuation measures

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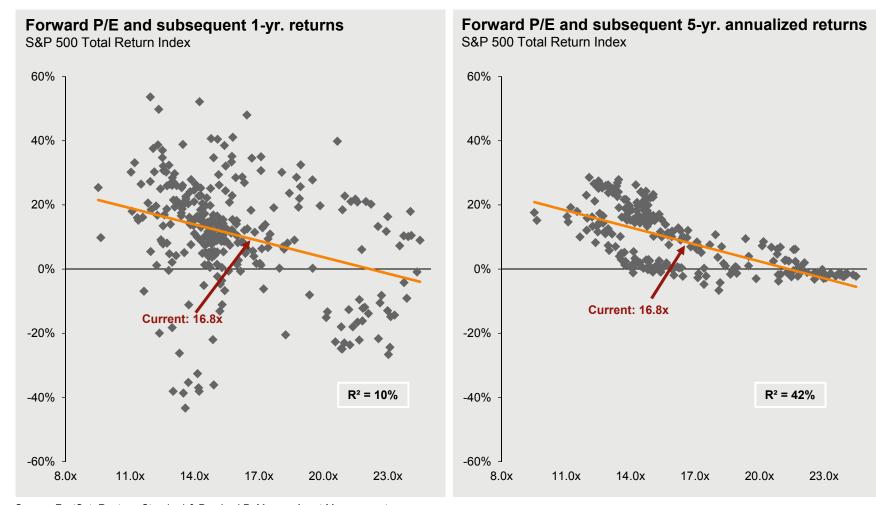
Source: FactSet, FRB, Robert Shiller, Standard & Poor's, J.P. Morgan Asset Management.

Price to earnings is price divided by consensus analyst estimates of earnings per share for the next 12 months. 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, Reuters, Standard & Poor's, J.P. Morgan Asset Management. Returns are 12-month and 60-month annualized total returns, measured monthly, beginning September 30, 1991. R² represents the percent of total

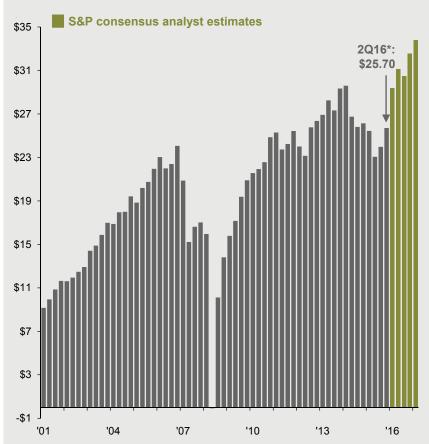
variation in total returns that can be explained by forward P/E ratios. *Guide to the Markets* – U.S. Data are as of September 30, 2016.



Corporate profits

S&P 500 earnings per share

Index quarterly operating earnings

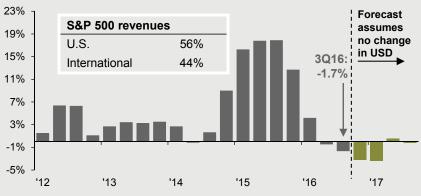


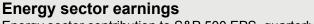
U.S. dollar

Year-over-year % change**, quarterly, USD major currencies index

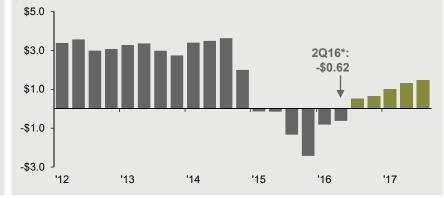
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Energy sector contribution to S&P 500 EPS, quarterly



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: British pound, euro, Swedish krona, Australian dollar, Canadian dollar, Japanese yen and Swiss franc. *2Q16 earnings are calculated using actual earnings for 98.6% of S&P 500 market cap and earnings estimates for the remaining 1.4% of companies. **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 September 30, 2016 level. *Guide to the Markets – U.S.* Data are as of September 30, 2016.



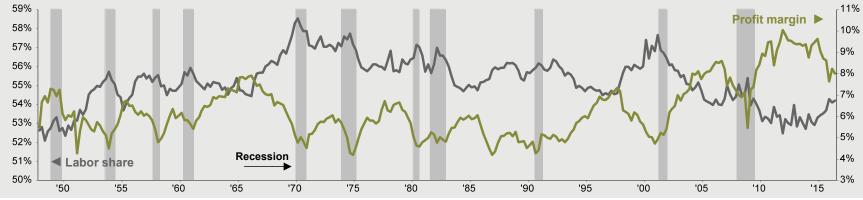
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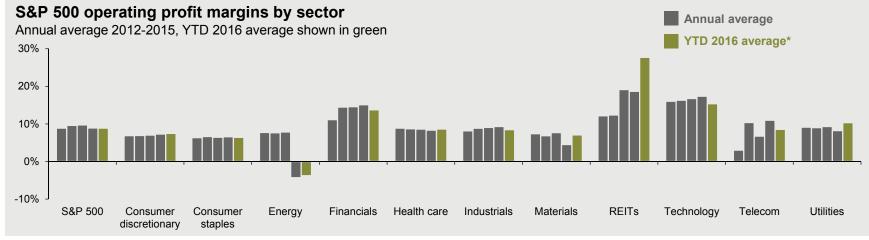
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Profit margins and wages



Employee compensation % nominal GDP, after-tax corporate profits with inventory & valuation adjustment % nominal GDP, SAAR





Source: FactSet, J.P. Morgan Asset Management; (Top) BEA; (Bottom) Standard & Poor's. *YTD 2016 profit margin estimates are the average of reported data for 1Q16 and estimates for 2Q16. Estimates are based on actual earnings for 98.6% of the S&P 500 market cap and estimates for the remaining 1.4%. *Guide to the Markets – U.S.* Data are as of September 30, 2016.

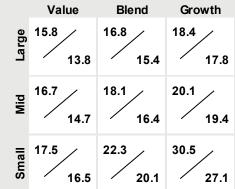


Returns and valuations by style

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Q	TD			Y	TD			Curr	ent P	9/E vs. 15-y	ear av
	Value	Blend	Growth		Value	Blend	Growth			Value	Ble
Large	3.5%	3.9%	4.6%	Large	10.0%	7.8% 6.0%			Large	15.8 13.8	16.8
Mid	4.4%	4.5%	4.6%	Mid	13.7%	10.3%	6.8%		Mid	16.7 14.7	18.1
Small	8.9%	9.0%	9.2%	Small	15.5%	11.5%	7.5%		Small	17.5 16.5	22.3
S	ince marke	et peak (Oct	ober 2007)	S	ince marke	et low (Marc	:h 2009)	Curr	ent P	P/E as % of	15-уе
	Value	Blend	Growth		Value	Blend	Growth			Value	Ble
Large	50.4%	68.4%	90.5%	Large	274.9%	276.3%	288.5%		Large	114.2%	109
Mid	82.4%	82.9%	80.8%	Mid	365.7%	341.4%	318.0%		Mid	113.8%	11(

avg. P/E*



Si	ince marke	t peak (Oct	ober 2007)	S	ince marke	t low (Marc	h 2009)	C	Current P	E as % of	15-year avg	J. P/E*	
	Value	Blend	Growth		Value	Blend	Growth			Value	Blend	Growth	
raige	50.4%	68.4%	90.5%	Large	274.9%	276.3%	288.5%		Large	114.2%	109.0%	103.3%	
DIM	82.4%	82.9%	80.8%	Mid	365.7%	341.4%	318.0%		Mid	113.8%	110.4%	103.4%	
OIIIaII	58.3%	67.9%	76.7%	Small	291.4%	304.8%	316.9%		Small	105.9%	110.7%	112.5%	
OIIIaII	58.3%	67.9%	76.7%	Small	291.4%	304.8%	316.9%		Small	105.9%	110.7%	112.	5%

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 – 9/30/16, illustrating market returns since the S&P 500 Index high on 10/9/07. Since Market Low represents period 3/9/09 – 9/30/16, 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 indexes 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. *Timeframe of average valuation decreased from 20 to 15 years because of a discontinued data series. The new data series shown is the next 12months FactSet Market Aggregate Price to Earnings ratio.

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Small

Equities

Returns and valuations by sector

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	Financials	Technology	HealthCare	Industrials	Energy	cons. Disci	Cons. stap	Telecom	Utilities	Realfstate	Materials	58P 500 mde	
S&P weight Russell Growth weight Russell Value weight	2.7%	21.2% 31.5% 10.0%	14.7% 16.8% 11.5%	9.7% 10.4% 9.5%	7.3% 0.6% 13.5%	12.5% 20.6% 4.9%	9.9% 9.6% 8.9%	2.6% 1.2% 3.9%	3.3% 0.1% 6.5%	3.1% 2.8% 5.1%	2.9% 3.6% 2.9%	100.0% 100.0% 100.0%	Weight
QTD	4.6	12.9	0.9	4.1	2.3	2.9	-2.6	-5.6	-5.9	-2.1	3.7	3.9	
YTD	1.4	12.5	1.4	10.9	18.7	3.6	7.6	17.9	16.1	8.2	11.4	7.8	(%)
Since market peak (October 2007)	-19.8	112.8	137.0	64.7	9.5	146.2	143.4	49.2	70.1	58.0	36.3	68.4	Return (%)
Since market low (March 2009)	338.1	346.0	282.0	352.6	100.5	469.9	241.3	185.1	197.7	485.7	224.6	276.3	
Beta to S&P 500	1.42	1.10	0.73	1.19	0.98	1.11	0.58	0.61	0.47	1.32	1.28	1.00	ຊ
Correl. to Treas. yields	0.59	0.36	0.19	0.30	0.34	0.36	-0.11	-0.08	-0.66	-0.41	0.40	0.37	٩
Forward P/E ratio 20-yr avg .	12.2x 13.1x	17.0x 22.4x	15.1x 18.9x	16.6x 17.5x	55.5x 17.3x	17.8x 19.4x	19.9x 20.0x	13.6x 17.9x	17.2x 14.4x	18.4x 18.5x	16.7x 16.5x	16.8x 17.2x	ЪÆ
Trailing P/E ratio 20-yr avg .	13.2x 15.9x	21.4x 25.8x	21.9x 24.1x	19.0x 20.3x	26.1x 16.6x	20.2x 19.1x	22.4x 21.2x	15.0x 20.2x	21.8x 15.6x	31.2x 34.2x	18.9x 19.2x	19.5x 19.6x	ē
Dividend yield 20-yr avg .	2.2% 2.3%	1.6% 1.0%	1.8% 1.7%	2.4% 2.1%	2.7% 2.2%	1.7% 1.3%	2.8% 2.3%	4.7% 3.8%	3.7% 3.9%	3.6% 3.6%	2.3% 2.2%	2.2% 1.9%	Div

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 – 9/30/16. Since market low represents period 3/9/09 – 9/30/16. Correlation to Treasury yields are trailing 2-year monthly correlations between S&P 500 sector price returns and 10-year Treasury yield movements. 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. Betas are calculated on a monthly frequency over the past 10 years. Past performance is not indicative of future returns.



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Sector weights and factor performance

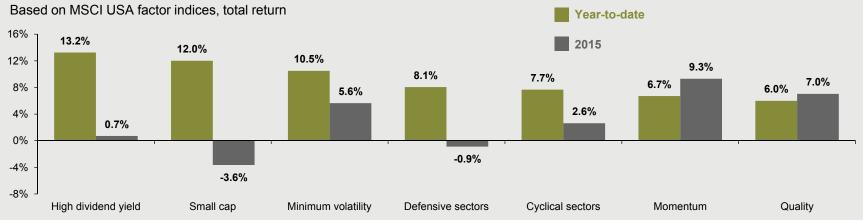
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Sector weights over time

S&P 500 sector weights

	'90	'91	'92	'93	'94	'95	'96	'97	'98	'99	'00	'01	'02	'03	'04	'05	'06	'07	'08	'09	'10	'11	'12	'13	'14	'15	'16
Financials	7.5	8.7	10.6	11.2	10.7	13.1	15.0	17.2	15.4	13.0	17.3	17.6	20.1	20.2	20.1	20.5	21.1	16.6	12.3	13.2	14.6	11.6	13.4	14.3	14.3	13.8	12.8
Tech.	6.3	5.3	5.1	5.9	8.6	9.4	12.4	12.3	17.7	29.2	21.2	17.6	14.3	17.7	16.1	15.1	15.1	16.7	15.3	19.9	18.6	19.0	19.0	18.6	19.7	20.7	21.2
Health Care	10.4	12.4	9.9	8.2	9.2	10.8	10.4	11.3	12.3	9.3	14.4	14.4	14.9	13.3	12.7	13.3	12.0	12.0	14.8	12.6	10.9	11.9	12.0	13.0	14.2	15.2	14.7
Industrials	13.6	13.2	13.3	13.9	13.0	12.6	12.7	11.7	10.1	9.9	10.6	11.3	11.5	10.9	11.8	11.3	10.8	11.5	11.1	10.2	10.9	10.7	10.1	10.9	10.4	10.0	9.7
Energy	13.4	10.6	9.7	10.0	10.0	9.1	9.2	8.4	6.3	5.6	6.6	6.3	6.0	5.8	7.2	9.3	9.8	12.9	13.3	11.5	12.0	12.3	11.0	10.3	8.4	6.5	7.3
Cons. Disc.	12.8	14.0	15.8	16.4	14.9	13.0	11.7	12.1	12.5	12.7	10.3	13.1	13.4	11.3	11.9	10.8	10.6	8.5	8.4	9.6	10.6	10.7	11.5	12.5	12.1	12.9	12.5
Cons. Staples	14.0	15.2	14.5	12.5	13.2	12.8	12.7	12.3	11.1	7.2	8.1	8.2	9.5	11.0	10.5	9.5	9.3	10.2	12.9	11.4	10.6	11.5	10.6	9.8	9.8	10.1	9.9
Telecom	8.7	8.0	8.5	9.1	8.6	8.5	6.5	6.9	8.4	7.9	5.5	5.5	4.2	3.5	3.3	3.0	3.5	3.6	3.8	3.2	3.1	3.2	3.1	2.3	2.3	2.4	2.6
Utilities	6.2	5.8	5.6	5.6	4.8	4.5	3.7	3.3	3.0	2.2	3.8	3.1	2.9	2.8	2.9	3.4	3.6	3.6	4.2	3.7	3.3	3.9	3.4	2.9	3.2	3.0	3.3
Materials	7.2	6.8	6.9	7.1	7.1	6.1	5.7	4.5	3.1	3.0	2.3	2.6	2.8	3.0	3.1	3.0	3.0	3.3	2.9	3.6	3.7	3.5	3.6	3.5	3.2	2.8	2.9
Real Estate												0.2	0.3	0.4	0.6	0.7	1.1	1.0	1.0	1.2	1.5	1.8	2.2	1.8	2.4	2.7	3.0

Factor returns

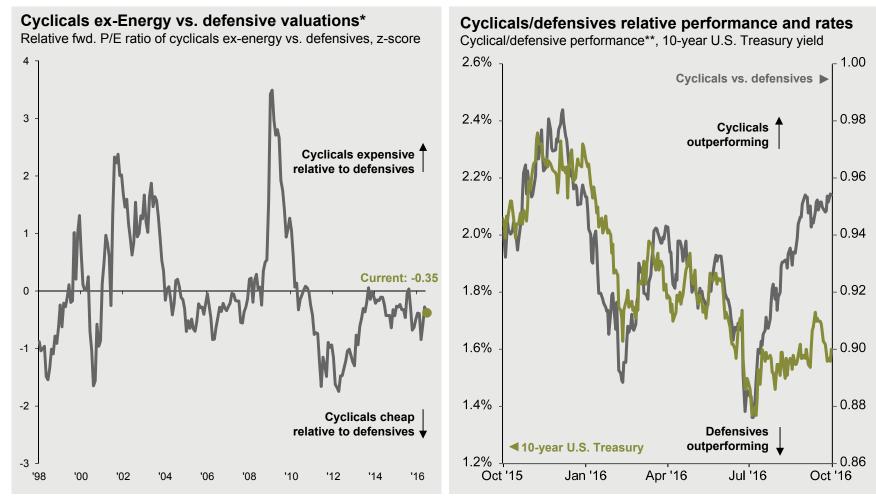


Source: FactSet, J.P. Morgan Asset Management; (Top) Standard & Poor's; (Bottom) MSCI. REITs data unavailable prior to 2001. The MSCI High Dividend Yield Index only includes securities that offer a higher than average dividend yield relative to the parent index and that pass dividend sustainability and persistence screens. The MSCI Minimum Volatility Index is calculated by optimizing the MSCI USA Index using an estimated security co-variance matrix to produce an index that has the lowest 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, Industrials, Information Technology and Materials. Securities in the MSCI Momentum Index are selected based on a momentum value based on 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. Guide to the Markets – U.S. Data are as of September 30, 2016.

J.P.Morgan Asset Management

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Cyclical and defensive sectors



Source: FactSet, J.P. Morgan Asset Management; (Left) Standard & Poor's, (Right) MSCI.

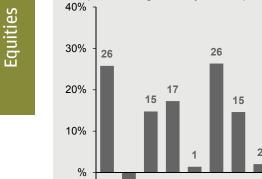
*Cyclical sectors include Consumer Discretionary, Information Technology, Industrials, Financials and Materials. REITs are excluded from this analysis. It is more appropriate to value a REIT by looking at its price relative to its funds from operations (FFO), an income measure that excludes depreciation. P/E ratios look at price relative to net income, a measure that includes depreciation, making the comparison of valuations across sectors inappropriate. Defensive sectors include Telecommunications, Health Care, Utilities and Consumer Staples. REITs are excluded from this analysis. Sector valuations are equal weighted. **Cyclicals represent the MSCI USA Cyclical Sector index and defensives represent the MSCI USA Defensive Sector index.

J.P.Morgan Asset Management

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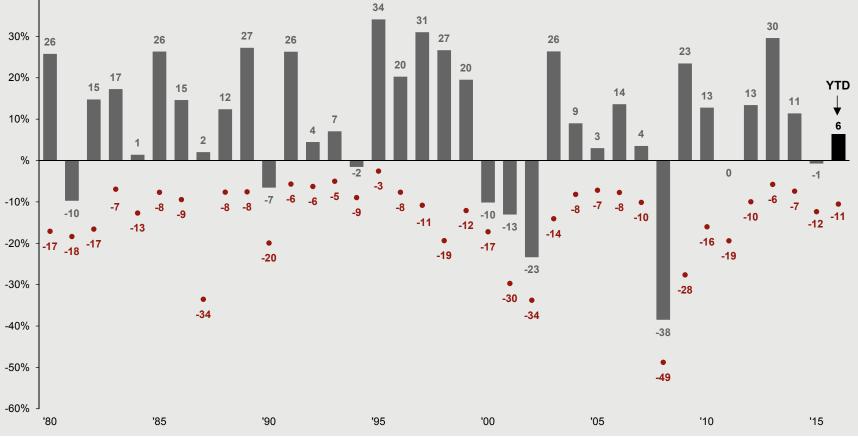
Equities

Annual returns and intra-year declines



S&P 500 intra-year declines vs. calendar year returns

Despite average intra-year drops of 14.2%, annual returns positive in 27 of 36 years



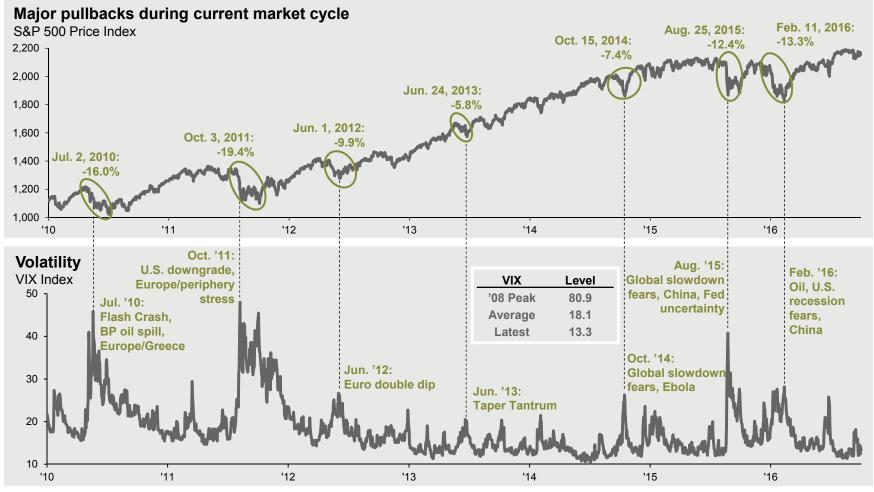
Source: FactSet, Standard & Poor's, J.P. Morgan Asset Management.

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 2015, except for 2016, which is year to date. Guide to the Markets - U.S. Data are as of September 30, 2016.



Market volatility

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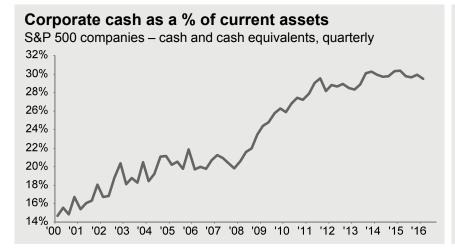


Source: FactSet, Standard & Poor's, J.P. Morgan Asset Management; (Bottom) CBOE. Drawdowns are calculated as the prior peak to the lowest point. *Guide to the Markets – U.S.* Data are as of September 30, 2016.



Equities

Corporate financials



Cash returned to shareholders

S&P 500 companies, rolling 4-quarter averages, \$bn



Corporate growth Private nonresidential fixed investment, value of deals announced, \$tn



Source: FactSet, Standard & Poor's, J.P. Morgan Asset Management; (Bottom left) BEA, Federal Reserve; (Bottom right) Bloomberg, BEA. M&A activity is the quarterly value of officially announced transactions, and capital expenditures are private nonresidential fixed domestic investment. *Guide to the Markets – U.S.* Data are as of September 30, 2016.



Bear markets and subsequent bull runs

$\begin{array}{c} 0\% \\ -20\% \\ -40\% \\ -60\% \\ -80\% \end{array}$

1946

1951

1956

1961

1966

1971

1976

1981

1986

1991

S&P 500 composite declines from all-time highs



25

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

Averages

*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. "Aggressive Fed Tightening" is defined as Federal Reserve monetary tightening that was unexpected and/or significant in magnitude. *Guide to the Markets – U.S.* Data are as of September 30, 2016.

-45%



153%

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20% Market decline*

1996

2001

-

2006

2011

2016

54

-100%

1926

1931

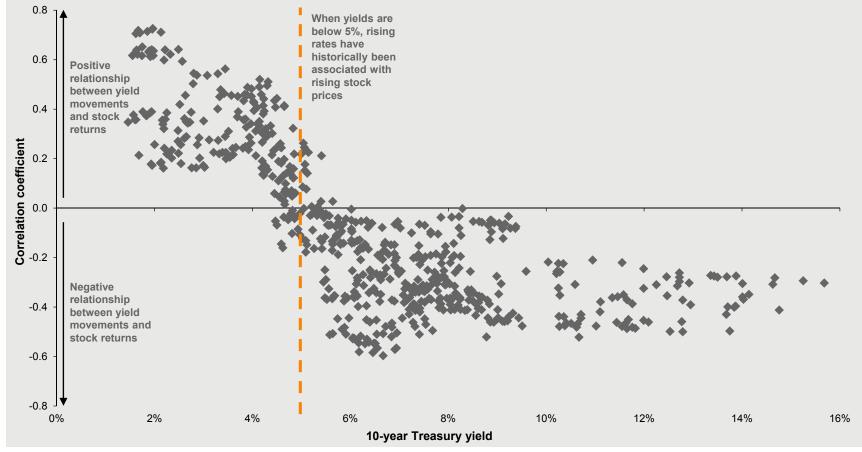
1936

1941

Interest rates and equities

Correlations between weekly stock returns and interest rate movements

Weekly S&P 500 returns, 10-year Treasury yield, rolling 2-year correlation, May 1963 - September 2016

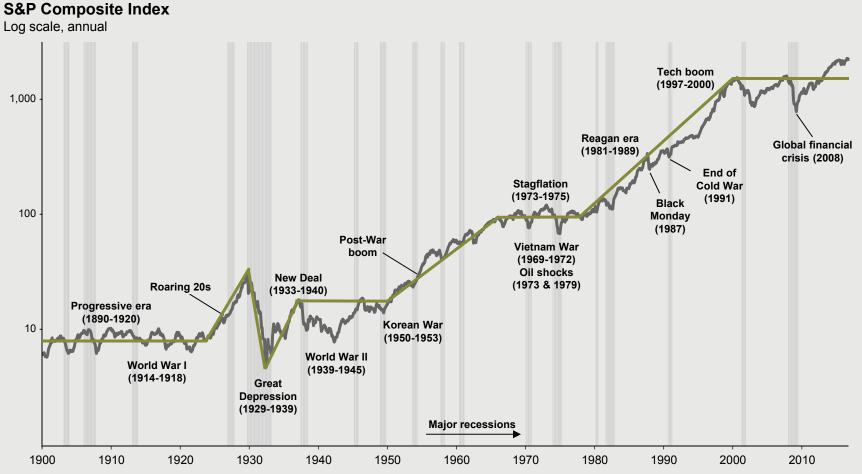


Source: FactSet, Standard & Poor's, FRB, J.P. Morgan Asset Management.

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 September 30, 2016.



Stock market since 1900

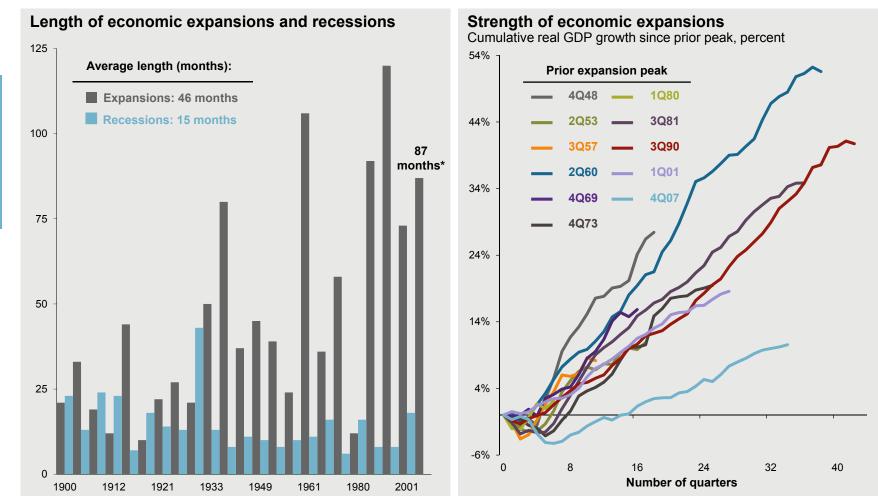


Source: FactSet, NBER, Robert Shiller, J.P. Morgan Asset Management. Data shown in log scale to best illustrate long-term index patterns. Past performance is not indicative of future returns. Chart is for illustrative purposes only. Guide to the Markets – U.S. Data are as of September 30, 2016.



The length and strength of expansions

J.P.Morgan Asset Management

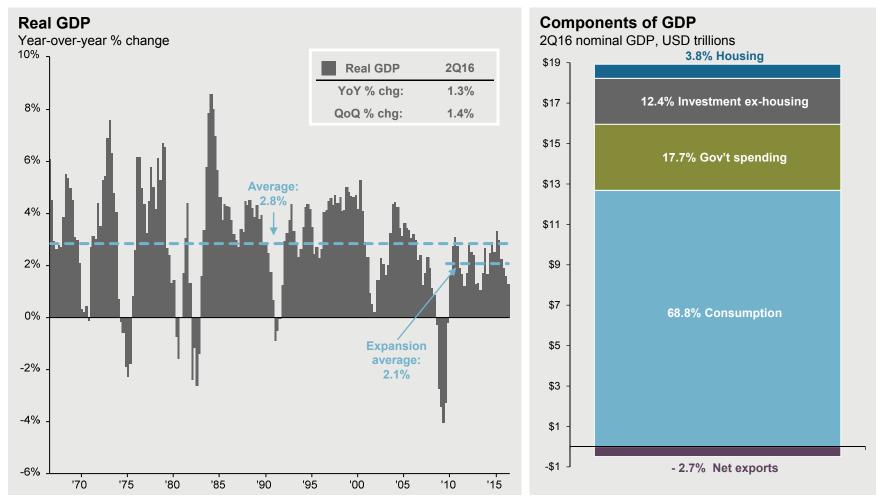


Source: BEA, NBER, J.P. Morgan Asset Management. *Chart assumes current expansion started in July 2009 and continued through September 2016, lasting 87 months so far. Data for length of economic expansions and recessions obtained from the National Bureau of Economic Research (NBER). These data can be found at www.nber.org/cycles/ and reflect information through September 2016. *Guide to the Markets – U.S.* Data are as of September 30, 2016.

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Economy

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 second quarter of 2009. *Guide to the Markets – U.S.* Data are as of September 30, 2016.



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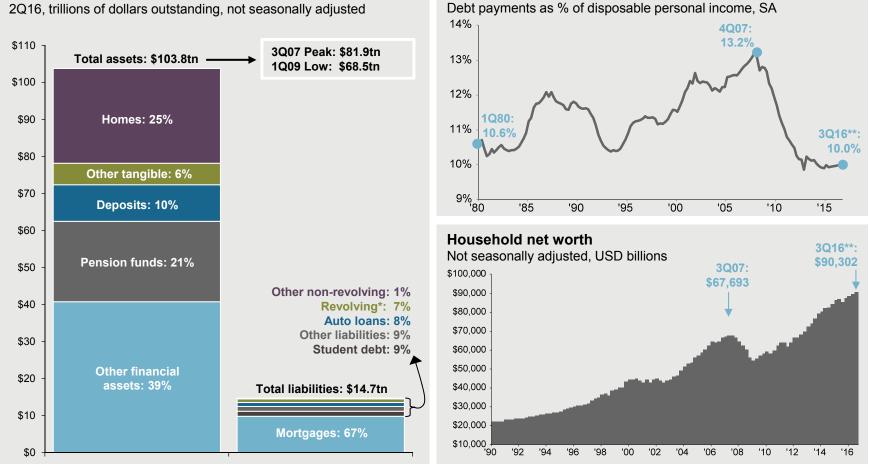
Economy

Consumer finances

Consumer balance sheet

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Household debt service ratio

Source: FactSet, FRB, J.P. Morgan Asset Management; (Top and bottom right) BEA.

Data include households and nonprofit organizations. SA - seasonally adjusted.

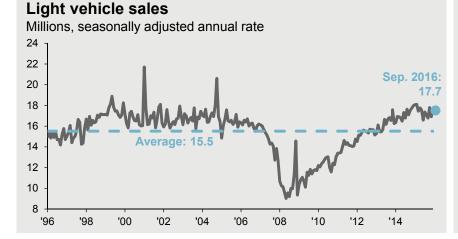
*Revolving includes credit cards. **3Q16 household debt service ratio and household net worth are J.P. Morgan Asset Management estimates.

Values may not sum to 100% due to rounding.

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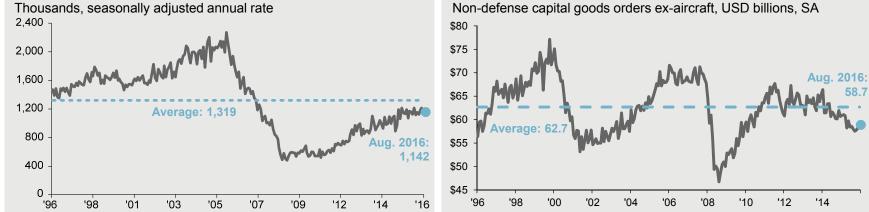
Cyclical sectors



Manufacturing and trade inventories Days of sales, seasonally adjusted 46 45 Jul. 2016: 44 42.3 43 42 41 40 39 38 37 '96 '01 '03 '98 '05 '07 '10 '12 '14 '16

Real capital goods orders

Non-defense capital goods orders ex-aircraft, USD billions, SA



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. August non-defense capital goods orders exaircraft is an advance estimate.

SA - seasonally adjusted.

Housing starts

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Residential real estate

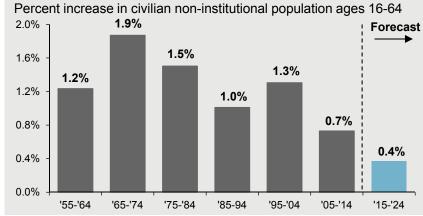


Source: J.P. Morgan Asset Management; (Top left, bottom left and top right) FactSet; (Top left and top right) National Association of Realtors; (Bottom left) Freddie Mac; (Top right) BEA, Census Bureau; (Bottom right) McDash, J.P. Morgan Securitized Product Research. Monthly mortgage payment assumes 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 September 30, 2016.

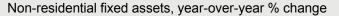


Long-term drivers of economic growth

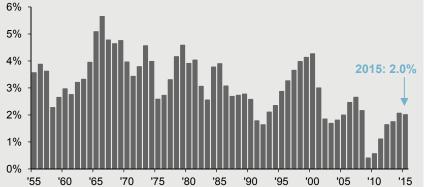
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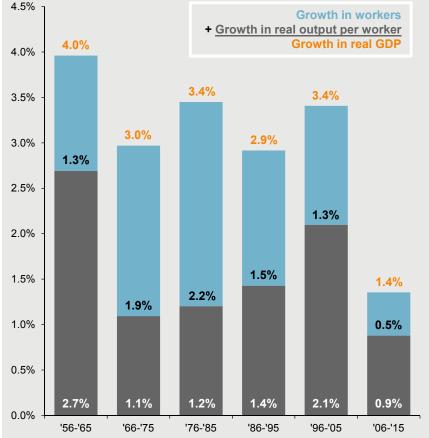
Growth in investment in structures and equipment



Growth in working age population







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 between 4Q of the first and last year. Future working age population is calculated as the total estimated number of Americans from the Census Bureau, controlled for military enrollment, growth in institutionalized population and demographic trends.

Economy

J.P.Morgan Asset Management

Guide to the Markets – U.S. Data are as of September 30, 2016.

Federal finances

The 2016 federal budget

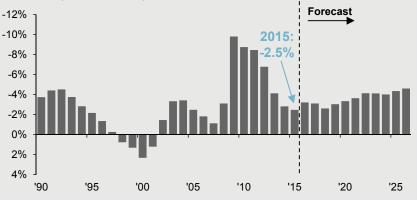
GTM - U.<u>S.</u> 25

Economy

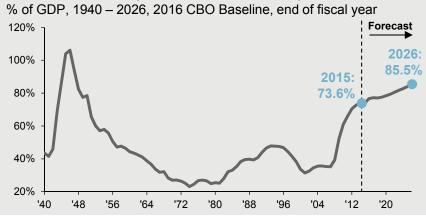
CBO Baseline foreca	st, USD trillio	ns											
\$4.0 Total spen	54.0 Total spending: \$3.9tn												
\$3.5 - Other: \$46	5bn (12%)		Borr	owing: \$590b	n (15%)								
Net int.: \$2	248bn (6%)		Other: \$309bn (8%)										
\$3.0 - Non-defe \$602br													
	nse: 1 (15%)		Social insurance: \$1,114bn (29%)										
\$2.0 -													
	ecurity:		Corp.: \$300bn (8%)										
\$910br	ı (24%)												
\$1.0 -		Income:											
\$0.5 - Medicare 8 \$1,061b				\$1,553bn (40	%)								
\$0.0 + Total governm	nent spending		S	Sources of finar	icina								
CBO's Baseline as					0								
	2016	'17	-'18	'19-'20	'21-'26								
Real GDP growth	1.9%	2.3	3%	1.7%	1.9%								
10-year Treasury	1.9%	2.4	4%	3.2%	3.6%								
Headline inflation (CPI)	1.0%	2.3	3%	2.3%	2.4%								
Unemployment	4.9%	4.5	5%	4.9%	4.9%								

Federal budget surplus/deficit

% of GDP, 1990 - 2026, 2016 CBO Baseline



Federal net debt (accumulated deficits)



Source: CBO, J.P. Morgan Asset Management; (Top and bottom right) BEA, Treasury Department.

2016 Federal Budget is based on the Congressional Budget Office (CBO) August 2016 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).

Guide to the Markets – U.S. Data are as of September 30, 2016.



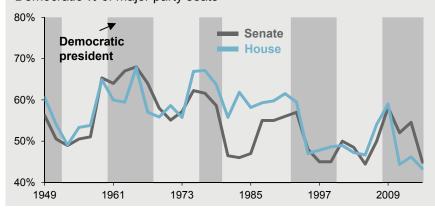
U.S. political perspectives

% of representatives voting with the majority of their party*

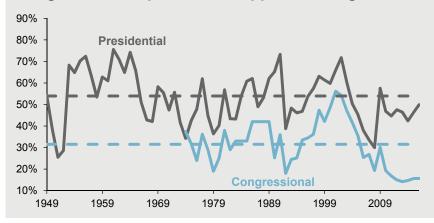
100% 95% 90% louse 85% 80% Senate 75% 70% 1901 1919 1937 1955 1973 1991 2009

Political party dominance Democratic % of major party seats

Political polarization

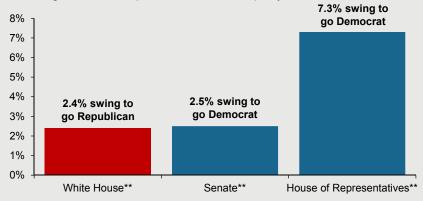


Congressional & presidential approval ratings



Vote swings and election outcomes

% change in votes required so that a new party takes control



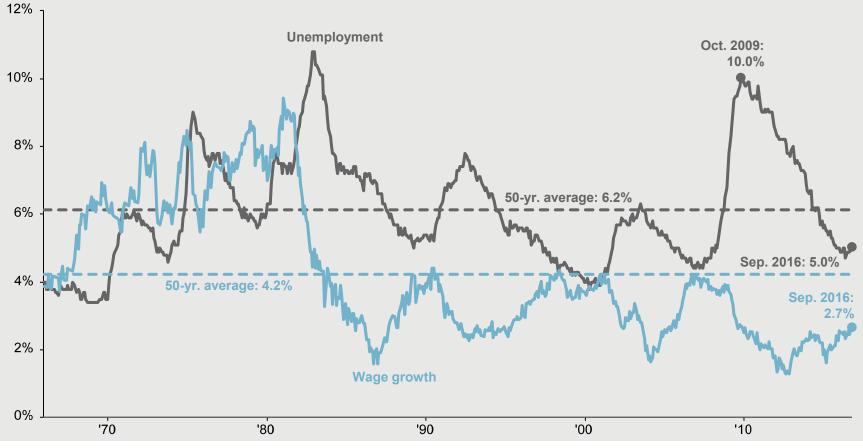
Source: J.P. Morgan Asset Management; (Top left) VoteView; (Bottom left and right) U.S. House of Representatives, U.S. Senate; (Top right) Gallup Inc.; (Bottom right) New York Times, Politico, RealClearPolitics. *In roll call votes where the majority in one party voted the opposite way to the majority in the other. Data compiled by Professors Keith T. Poole and Howard Rosenthal, available at www.voteview.com. Data on voting records are not yet available for the 114th Congress. **Swing required is defined as the percentage of total voters, on a uniform national basis, that would have to switch from voting Republican to Democrat or vice-versa, in order to achieve 270 Electoral College votes, 50 Senate seats or 218 House seats respectively. Calculations are relative to the 2010 Senate election, 2012 Presidential election and 2014 House election respectively. Estimates also count two independent senators currently caucusing with the Democrats as Democrats.



26 count two independent senators currently caucusing with the Der Guide to the Markets – U.S. Data are as of September 30, 2016.

Unemployment and wages

Civilian unemployment rate and year-over-year growth in wages of production and non-supervisory workers Seasonally adjusted, percent

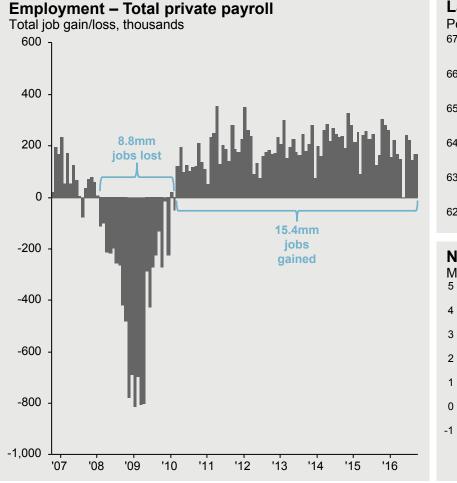


Source: BLS, FactSet, J.P. Morgan Asset Management. *Guide to the Markets – U.S.* Data are as of September 30, 2016.



Labor market perspectives

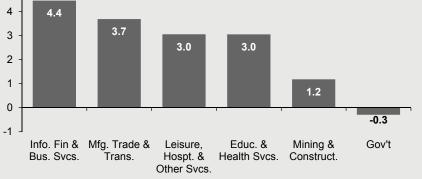
GTM - U.S. 28



Labor force participation rate decline since 2007 peak* Population employed or looking for work as a % of total, ages 16+







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 and construct: Natural resources mining & 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 rate are made by J.P. Morgan Asset Management.

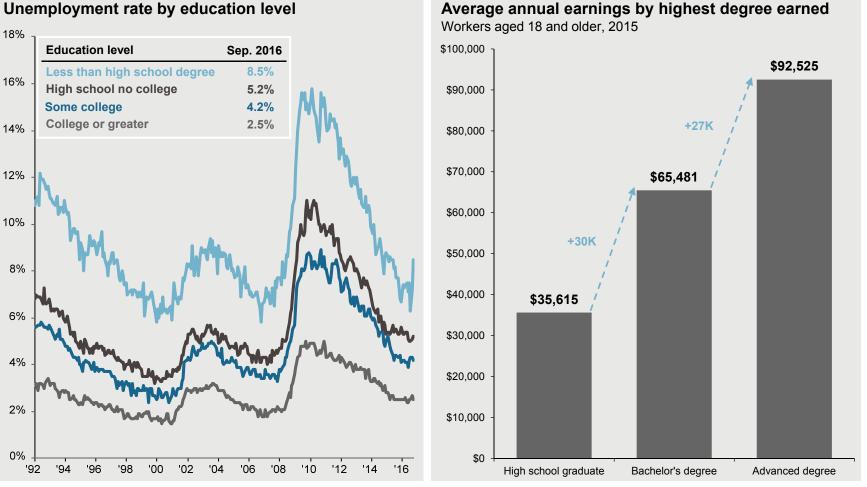
J.P.Morgan Asset Management

Econom

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Employment and income by educational attainment



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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 September 30, 2016.



Inflation

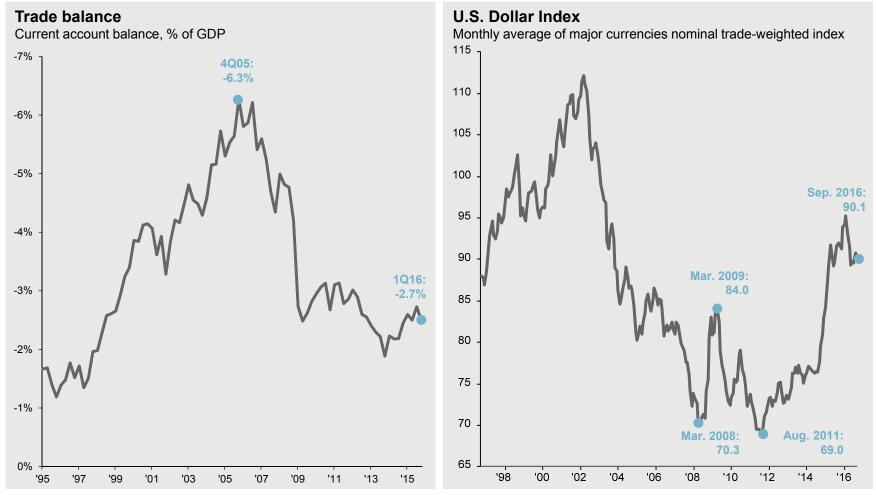


Source: BLS, FactSet, J.P. Morgan Asset Management.

CPI used is CPI-U and values shown are % change vs. one year ago and reflect August 2016 CPI data. 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 September 30, 2016.



Trade and the U.S. dollar



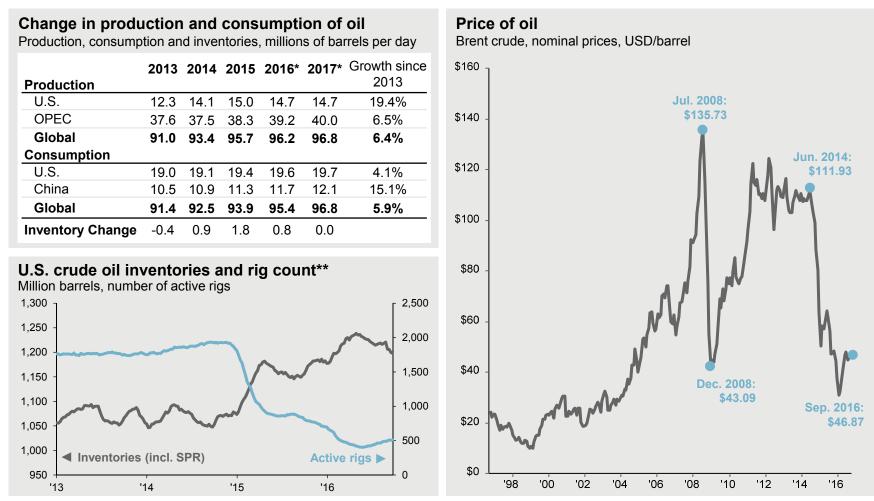
Source: J.P. Morgan Asset Management; (Left) BEA; (Right) Federal Reserve, FactSet. Currencies in the Trade Weighted U.S. Dollar Major Currencies Index are: British pound, euro, Swedish kroner, Australian dollar, Canadian dollar, Japanese yen and Swiss franc.

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Oil markets

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Source: J.P. Morgan Asset Management; (Top and bottom left) EIA; (Right) FactSet; (Bottom left) Baker Hughes.

*Forecasts are from the September 2016 EIA Short-Term Energy Outlook and start in 2016.

**U.S. crude oil inventories include the Strategic Petroleum Reserve (SPR). Active rig count includes both natural gas and oil rigs.

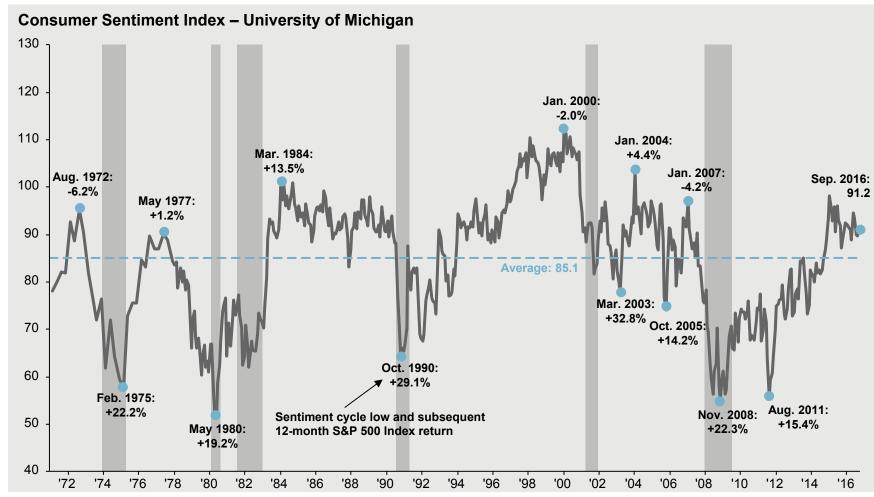
Brent crude prices are monthly averages in USD using global spot ICE prices.

Guide to the Markets - U.S. Data are as of September 30, 2016.



Economy

Consumer confidence and the stock market



Source: Standard & Poor's, University of Michigan, FactSet, J.P. Morgan Asset Management. Peak is defined as the highest index value before a series of lower lows, while a trough is defined as the lowest index value before a series of higher highs. Subsequent 12-month S&P 500 returns are price returns only, which excludes dividends. *Guide to the Markets – U.S.* Data are as of September 30, 2016.

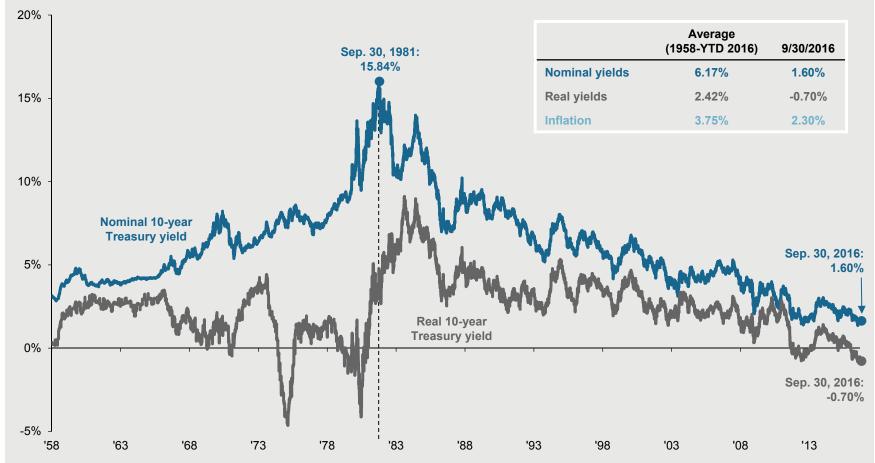


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Interest rates and inflation



Source: BLS, Federal Reserve, J.P. Morgan Asset Management.

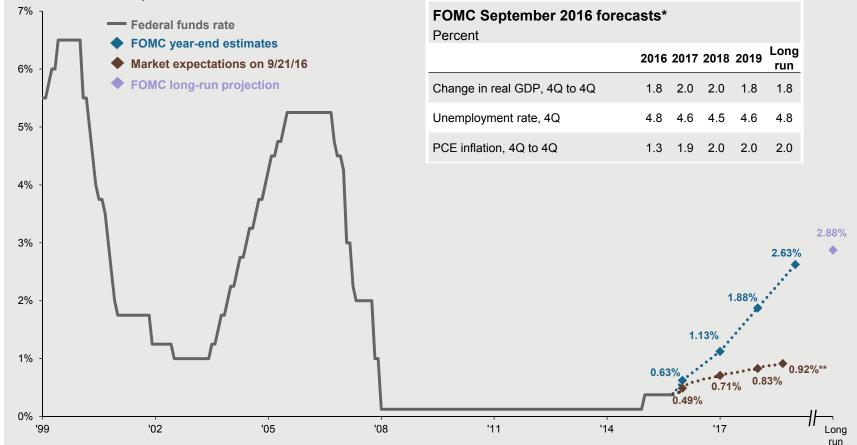
Real 10-year Treasury yields are calculated as the daily Treasury yield less year-over-year core CPI inflation for that month except for September 2016, where real yields are calculated by subtracting out August 2016 year-over-year core inflation. Guide to the Markets – U.S. Data are as of September 30, 2016.



The Fed and interest rates

Federal funds rate expectations

FOMC and market expectations for the fed funds rate



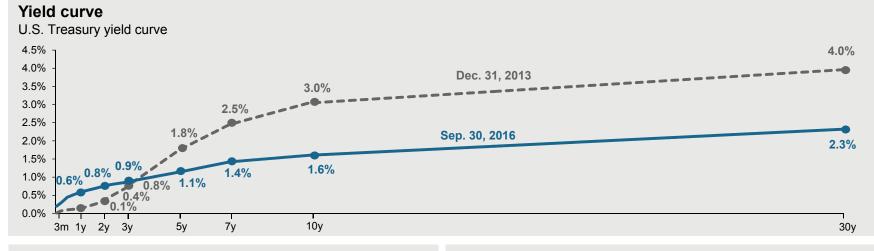
Source: FactSet, Federal Reserve, J.P. Morgan Asset Management.

Market expectations are the federal funds rates priced into the fed futures market as of the date of the September 2016 FOMC meeting. *Forecasts of 17 Federal Open Market Committee (FOMC) participants are median estimates. **Last futures market expectation is for August 2019 due to data availability.

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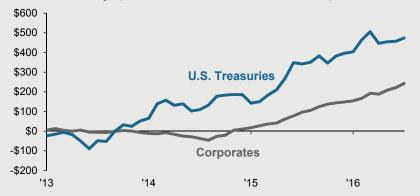
J.P.Morgan Asset Management

Shape of the yield curve



Private foreign investor net flows to U.S. fixed income

Cumulative foreign private net flows into USTs and Corporates, \$ billion



Correlation of government bonds

Correlation* between U.S. Treasury and German Bund yields



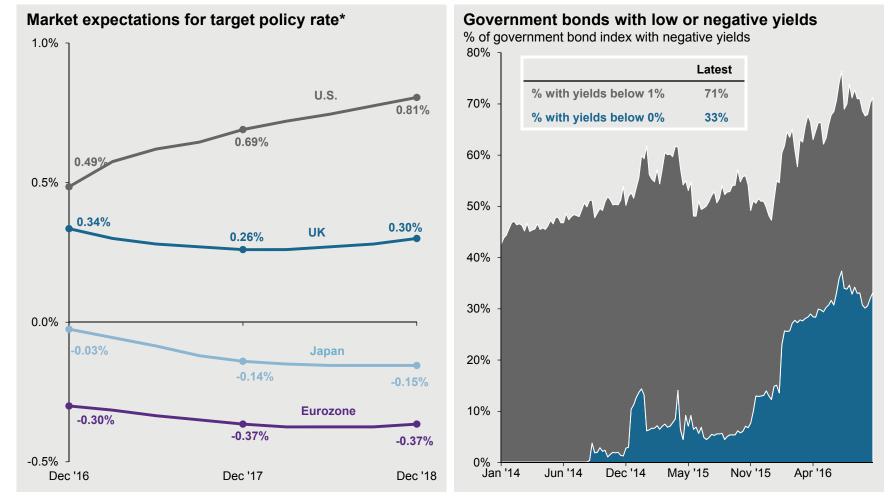




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Developed market fixed income dynamics



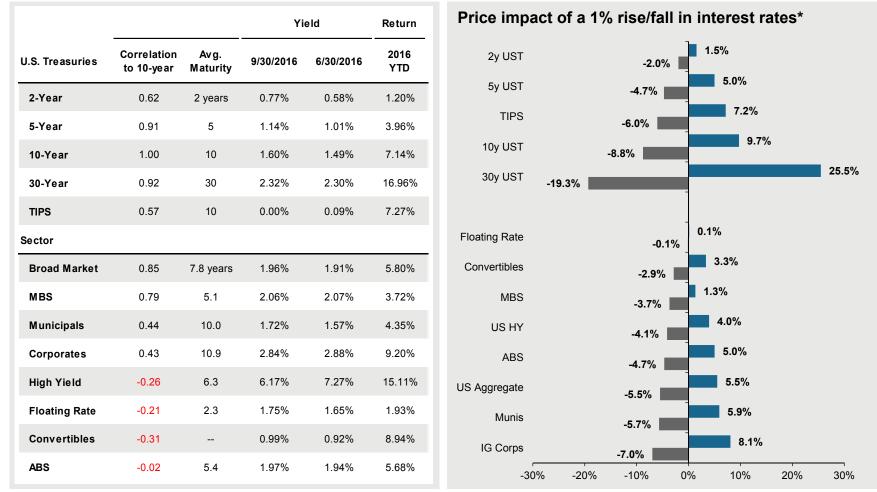
Source: Bloomberg, J.P. Morgan Asset Management; (Right) BofA/Merrill Lynch.

*Target policy rates for Japan are estimated using EuroYen 3m futures contracts less a risk premium of 6bps. Government bond index is the BofAML Global Government Bond Index, which includes investment-grade sovereign debt denominated in the issuer's own domestic currency. The index includes all euro members, the U.S., Japan, the UK, Canada, Australia, New Zealand, Switzerland, Norway and Sweden. *Guide to the Markets – U.S.* Data are as of September 30, 2016.

J.P.Morgan Asset Management

Fixed income yields and returns

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Source: Barclays, U.S. Treasury, FactSet, J.P. Morgan Asset Management. Sectors shown above are provided by Barclays 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; ABS: ABS + CMBS. Treasury securities data for number of issues based on U.S. Treasury benchmarks from Barclays. Yield and return information based on bellwethers for Treasury securities. Sector yields reflect yield to worst, while Treasury yields are yield to maturity. 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). *Calculation assumes 2-year Treasury interest rate falls 0.77% to 0.00%. Chart is for illustrative purposes only. Past performance is not indicative of future results.



Fixed income

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Global fixed income

		Yie	eld	2016 YTI	D Return
Correl to 10-year	Duration	9/30/2016	6/30/2016	Local	USD
0.91	5.5 years	1.96%	1.91%	5.80%	5.80%
0.22	7.7	0.67%	0.72%		12.46%
0.51	9.1	0.00%	-0.13%	4.30%	23.90%
-0.03	6.4	0.09%	0.12%	4.55%	8.16%
0.21	10.4	1.21%	1.41%	16.11%	2.33%
-0.18	7.0	0.79%	0.88%	4.20%	7.80%
-0.17	6.7	0.53%	0.74%	6.69%	10.37%
0.21	5.4 years	0.66%	0.92%	6.00%	9.65%
-0.28	4.1	4.29%	4.90%	4.18%	7.78%
0.18	6.9	4.98%	5.37%		14.77%
-0.01	5.0	6.18%	6.28%	10.91%	17.07%
0.07	5.7	4.56%	5.01%		11.11%
	10-year 0.91 0.22 0.51 -0.03 0.21 -0.18 -0.17 0.21 -0.28 0.18 -0.18 -0.21	10-year Duration 0.91 5.5 years 0.22 7.7 0.51 9.1 -0.03 6.4 0.21 10.4 -0.18 7.0 -0.17 6.7 0.21 5.4 years -0.28 4.1 0.18 6.9 -0.01 5.0	Correl to 10-year Duration 9/30/2016 0.91 5.5 years 1.96% 0.22 7.7 0.67% 0.51 9.1 0.00% 0.51 9.1 0.00% 0.021 10.4 1.21% 0.21 10.4 1.21% 0.21 10.4 0.79% 0.21 6.7 0.53% 0.21 5.4 years 0.66% 0.22 5.4 years 0.42% 0.18 6.9 4.98% 0.18 6.9 6.18%	10-year Duration 9/30/2016 6/30/2016 0.91 5.5 years 1.96% 1.91% 0.22 7.7 0.67% 0.72% 0.51 9.1 0.00% -0.13% -0.03 6.4 0.09% 0.12% 0.21 10.4 1.21% 1.41% -0.18 7.0 0.79% 0.88% -0.17 6.7 0.53% 0.74% 0.21 5.4 years 0.66% 0.92% -0.28 4.1 4.29% 4.90% -0.18 6.9 4.98% 5.37% -0.18 5.0 6.18% 6.28%	Correl to 10-year Duration 9/30/2016 6/30/2016 Local 0.91 5.5 years 1.96% 1.91% 5.80% 0.22 7.7 0.67% 0.72% . 0.51 9.1 0.00% -0.13% 4.30% -0.03 6.4 0.09% 0.12% 4.55% 0.21 10.4 1.21% 1.41% 16.11% -0.18 7.0 0.79% 0.88% 4.20% -0.17 6.7 0.53% 0.74% 6.69% 0.21 5.4 years 0.66% 0.92% 6.00% -0.28 4.1 4.29% 4.90% 4.18% 0.18 6.9 4.98% 5.37% .

Global bond market **USD** trillions \$100 12/31/89 3/31/16 \$90 U.S. 61.3% 38.1% EM: \$17tn³ 44.3% Dev. ex-U.S. 37.8% 17.5% EM 1.0% \$80 \$70 \$60 Developed \$50 ex-U.S.: \$44tn \$40 \$30 \$20 U.S.: \$37tn \$10 \$0 '92 '94 '96 '98 '00 '02 '04 '06 '08 '10 '12 '14 '90 '16

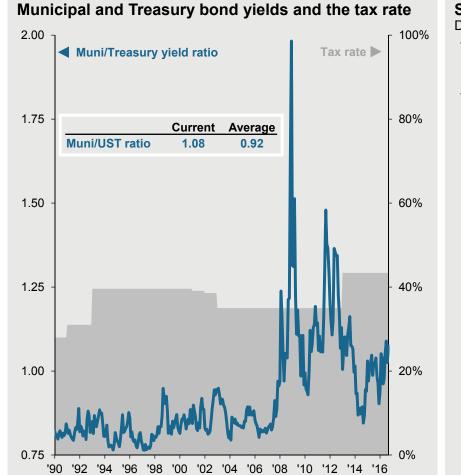
Source: J.P. Morgan Asset Management; (Left) FactSet, Barclays; (Right) BIS.

Fixed income sectors shown above are provided by Barclays 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 Barclays Euro Aggregate Corporate Index and the Barclays Pan-European High Yield index. Sector yields reflect yield to worst. Duration is modified duration. Correlations are based on 7 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 rounding. *3Q15, 4Q15 and 1Q16 estimates for domestic Brazilian debt are J.P. Morgan Asset Management calculations based on Brazilian Central Bank data. 1Q16 estimate for total Argentinian debt assumes debt levels are unchanged from the previous quarter. *Guide to the Markets – U.S.* Data are as of September 30, 2016.



Municipal finance

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State and local government debt service Debt service as % of state and local revenue 11% 10% 2Q16: 8.1% 9% 8% 7% 6% 5% 4% 3% '90 '92 '94 '96 '98 '08 '10 '00 '02 '04 '06 '12 '14 '16

J.P.Morgan Asset Management

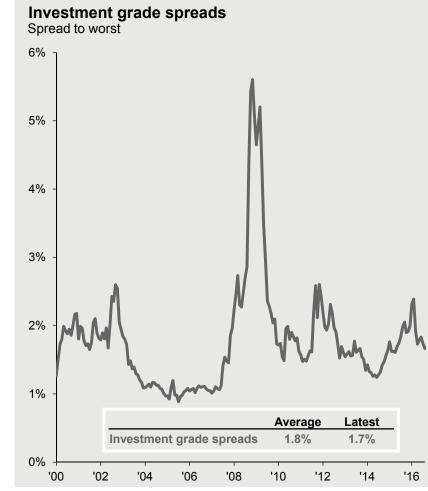
Source: J.P. Morgan Asset Management; (Left) FactSet, Barclays, FRB; (Right) BEA. Guide to the Markets – U.S. Data are as of September 30, 2016.

Investment grade bonds

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J.P.Morgan

Asset Management

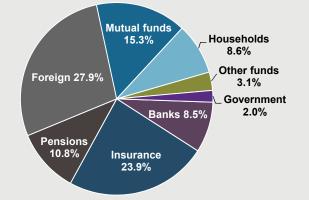


Rolling correlations of stocks and corporate bonds Correlation* of high yield and investment grade bonds with stocks



Corporate bond ownership

Ownership as percent of amount outstanding 2Q16



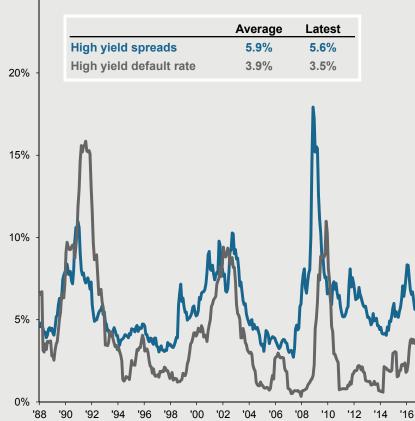
Source: J.P. Morgan Asset Management; (Left) J.P. Morgan Global Economic Research; (Top right) Barclays, FactSet; (Bottom right) FRB. Investment grade corporate bonds are represented by the J.P. Morgan U.S. Liquid Index (JULI). High yield corporate bonds are represented by the J.P. Morgan Domestic HY Index. Stocks are represented by the S&P 500. Correlation is based on the weekly change in price. Spreads indicated are benchmark yield to worst less comparable maturity Treasury yields. *Rolling 12-month correlation of weekly change in price. *Guide to the Markets – U.S.* Data are as of September 30, 2016.

High yield bonds

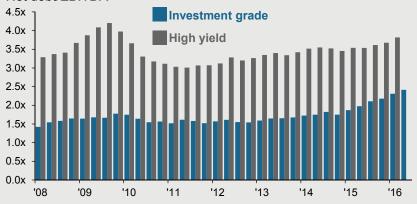
High yield spreads and default rate

Spread to worst

25%

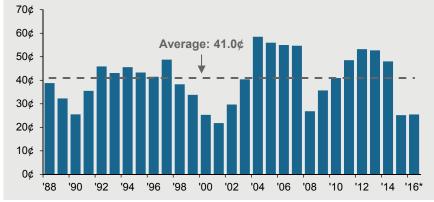


Historical high yield and high grade net leverage Net debt/EBITDA



Historical high yield recovery rates

Issuer-weighted recovery rate, cents on the dollar



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 HY Index. Investment grade is represented by the J.P. Morgan U.S. Liquid Index. Recovery rates are issuer-weighted and based on bond price 30 days after default date. The 2009 adjusted recovery rate is based on year-end prices. *2016 recovery rate is for the last 12 months and is not included in the average recovery rate calculated over the period. *Guide to the Markets – U.S.* Data are as of September 30, 2016.



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Emerging market debt

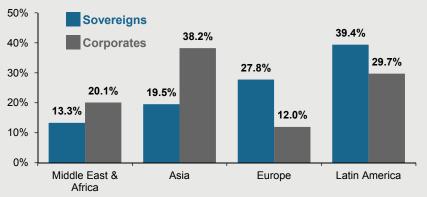
Corporate and sovereign EMD spreads

USD-denominated debt, percentage points over Treasury

12% Average Latest 10% **EM** sovereigns 3.4% 3.4% **EM** corporates 3.8% 3.2% 8% 6% 4% 2% 0% '06 '07 '08 '09 '10 '11 '12 '13 '14 '15

Regional weights in EMD indices

USD-denominated corporate and sovereign regional weightings



Headline inflation

YoY % change, Lat Am* and EM Asia aggregates



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 September 30, 2016.



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GTM - U.S.

Fixed income sector returns

GTM - U.S.	44
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2006 2015

2006	2007	2008	2009	2010	0 2011 201		2013	2014	2015	YTD	2006 · Cum.	- 2015 Ann.
EMD LCL.	EMD LCL.	Treas.	High Yield	EMD LCL.	TIPS	EMD USD	High Yield	Muni	Muni	EMD LCL.	EMD USD	EMD USD
15.2%	18.1%	13.7%	58.2%	15.7%	13.6%	17.4%	7.4%	8.7%	3.8%	17.1%	114.0%	7.9%
High Yield	TIPS	MBS	EMD USD	High Yield	Muni	EMD LCL.	MBS	Corp.	MBS	High Yield	High Yield	High Yield
11.8%	11.6%	8.3%	29.8%	15.1%	12.3%	16.8%	-1.4%	7.5%	1.5%	15.1%	95.9%	7.0%
EMD USD	Treas.	Barclays Agg	EMD LCL.	EMD USD	Treas.	High Yield	Corp.	EMD USD	EMD USD	EMD USD	Corp.	Corp.
9.9%	9.0%	5.2%	22.0%	12.2%	9.8%	15.8%	-1.5%	7.4%	1.2%	14.8%	67.4%	5.3%
Asset Allòç.	Barclays Agg	Muni	Corp.	Corp.	Corp.	Corp.	Asset Alloc.	MBS	Treas.	Corp.	Muni	Muni
5.7%	7.0%	1.5%	18.7%	9.0%	8.1%	9.8%	-1.9%	6.1%	0.8%	9.2%	66.0%	5.2%
MBS	MBS	Asset	Asset	Asset	Asset	Asset	Barclays	Barclays	Barclays	Asset	Asset	Asset
	\mathbf{A}	Atloc.	Alloc.	Alloc.	Alloc.	Alloc.	Agg	Agg	Agg	Alloc.	Alloc.	Alloc.
5.2%	6.9%	0.1%	14.7%	7.9%	8.1%	7.4%	-2.0%	6.0%	0.5%	7.7%	65.7%	5.2%
Muni	Asset Alloc.	TIPS	TIPS	Barclays Agg	Barclays Agg	TIPS	Muni	Asset Alloc.	Asset Alloc.	TIPS	EMD LCL.	EMD LCL.
4.7%	6.7%	-2.4%	11.4%	6.5%	7.8%	7.0%	-2.2%	5.5%	-0.3%	7.3%	62.0%	4.9%
Barclays Agg	EMD USD	Corp.	Muni	TIPS	EMD USD	Muni	Treas.	Treas.	Corp.	Barclays Agg	MBS	MBS
4.3%	6.2%	-4.9%	9.9%	6.3%	7.3%	5.7%	-2.7%	5.1%	-0.7%	5.8%	57.3%	4.6%
Corp.	Corp.	EMD LCL.	Barclays Agg	Treas.	MBS	Barclays Agg	EMD USD	TIPS	TIPS	Treas.	Barclays Agg	Barclays Agg
4.3%	4.6%	-5.2%	5.9%	5.9%	6.2%	4.2%	-5.3%	3.6%	-1.4%	5.1%	55.5%	4.5%
Treas.	Muni	EMD USD	MBS	MBS	High Yield	MBS	TIPS	High Yield	High Yield	Muni	Treas.	Treas.
3.1%	4.3%	-12.0%	5.9%	5.4%	5.0%	2.6%	-8.6%	2.5%	-4.5%	4.4%	50.6%	4.2%
TIPS	High Yield	High Yield	Treas.	Muni	EMD LCL.	Treas.	EMD LCL.	EMD LCL.	EMD LCL.	MBS	TIPS	TIPS
0.4%	1.9%	-26.2%	-3.6%	4.0%	-1.8%	2.0%	-9.0%	-5.7%	-14.9%	3.7%	47.0%	3.9%

Source: Barclays, 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 Barclays unless otherwise noted and are represented by Broad Market: Barclays U.S. Aggregate Index; MBS: Fixed Rate MBS Index; Corporate: U.S. Corporates; Municipals: Muni Bond 10-Year Index; High Yield: U.S. Corporate High Yield Index; Treasuries: Global U.S. Treasury; TIPS: 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.

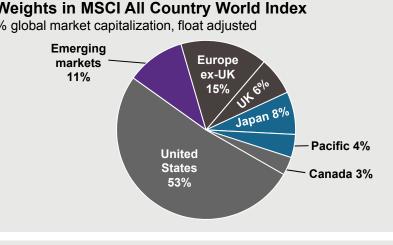


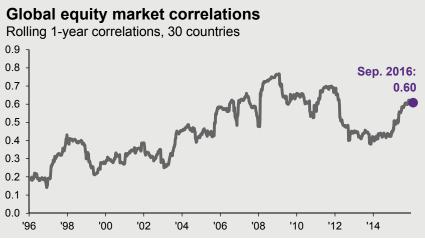
Fixed income

Global equity markets

	2016	YTD	2015				
Country / Region	Local	USD	Local	USD			
Regions / Broad Indexes							
All Country World	5.2	7.1	1.8	-1.8			
U.S. (S&P 500)	-	7.8	-	1.4			
EAFE	-1.1	2.2	5.8	-0.4			
Europe ex-UK	-2.6	0.5	9.1	0.1			
Pacific ex-Japan	7.1	11.0	-0.8	-8.4			
Emerging Markets	11.6	16.4	-5.4	-14.6			
MSCI: Selected Countries							
United Kingdom	14.4	0.9	-2.2	-7.5			
France	-0.5	2.9	12.3	0.8			
Germany	-1.4	2.0	10.0	-1.3			
Japan	-13.4	2.9	10.3	9.9			
China	8.9	8.8	-7.7	-7.6			
India	7.8	7.1	-1.6	-6.1			
Brazil	34.0	63.2	-12.5	-41.2			
Russia	16.7	31.3	22.9	5.0			

GTM - U.S.





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

All return values are MSCI Gross Index (official) data. Chart is for illustrative purposes only. Past performance is not indicative of future results. Please see disclosure page for index definitions. Countries included in global correlations include Argentina, South Africa, Japan, UK, Canada, France, Germany, Italy, Australia, Austria, Brazil, China, Colombia, Denmark, Finland, Hong Kong, India, Malaysia, Mexico, Netherlands, New Zealand, Peru, Philippines, Portugal, Korea, Spain, Taiwan, Thailand, Turkey, United States. Guide to the Markets – U.S. Data are as of September 30, 2016.

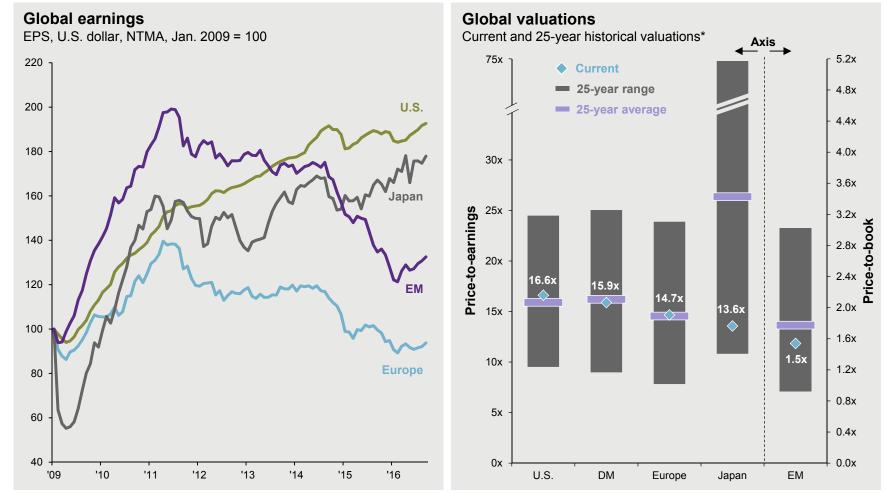


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45

International equity earnings and valuations

GTM - U.S. | 46



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

*Valuations refer to NTMA P/E for Europe, U.S. and Japan 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. *Guide to the Markets – U.S.* Data are as of September 30, 2016.

J.P.Morgan Asset Management

Global Purchasing Managers' Index for manufacturing

iobai Furchasing	Oct'14	Nov'14	Dec'14	Jan'15	Feb'15	Mar'15	Apr'15	May'15 P	Jun'15	Jul'15	Aug'15	Sep'15	Oct'15	Nov'15	Dec'15	Jan'16	Feb'16	Mar'16	Apr'16	May'16	Jun'16	Jul'16	Aug'16	Sep'16
Global	52.0	51.7	51.4	51.6	51.8	51.5	50.8	51.0	50.9	50.8	50.5	50.4	51.1	51.0	50.7	50.9	50.0	50.6	50.2	50.0	50.4	51.0	50.8	51.0
Developed Markets	53.4	52.8	52.4	52.5	52.8	53.0	52.1	52.4	52.1	52.5	52.3	52.1	53.0	52.6	52.0	52.3	50.9	50.9	50.4	50.2	50.9	51.5	51.3	51.6
Emerging Markets	50.5	50.6	50.4	50.8	50.9	49. 8	49.3	49.4	49.2	48.8	48.3	48.3	48.9	49.0	49.2	49.2	48.8	50.0	49.5	49.5	49.3	50.1	49. 8	50.0
U.S.	55.9	54.8	53.9	53.9	55.1	55.7	54.1	54.0	53.6	53.8	53.0	53.1	54.1	52.8	51.2	52.4	51.3	51.5	50.8	50.7	51.3	52.9	52.0	51.5
Canada	55.3	55.3	53.9	51.0	48.7	48.9	49.0	49.8	51.3	50.8	49.4	48.6	48.0	48.6	47.5	49.3	49.4	51.5	52.2	52.1	51.8	51.9	51.1	50.3
UK	52.9	53.1	52.6	52.9	54.1	53.7	52.2	52.0	51.2	52.3	51.7	51.5	55.1	52.3	51.7	53.0	50.8	51.0	49.5	50.4	52.1	48.2	53.4	55.4
Euro Area	50.6	50.1	50.6	51.0	51.0	52.2	52.0	52.2	52.5	52.4	52.3	52.0	52.3	52.8	53.2	52.3	51.2	51.6	51.7	51.5	52.8	52.0	51.7	52.6
Germany	51.4	49.5	51.2	50.9	51.1	52.8	52.1	51.1	51.9	51.8	53.3	52.3	52.1	52.9	53.2	52.3	50.5	50.7	51.8	52.1	54.5	53.8	53.6	54.3
France	48.5	48.4	47.5	49.2	47.6	48.8	48.0	49.4	50.7	49.6	48.3	50.6	50.6	50.6	51.4	50.0	50.2	49.6	48.0	48.4	48.3	48.6	48.3	49.7
Italy	49.0	49.0	48.4	49.9	51.9	53.3	53.8	54.8	54.1	55.3	53.8	52.7	54.1	54.9	55.6	53.2	52.2	53.5	53.9	52.4	53.5	51.2	49. 8	51.0
Spain	52.6	54.7	53.8	54.7	54.2	54.3	54.2	55.8	54.5	53.6	53.2	51.7	51.3	53.1	53.0	55.4	54.1	53.4	53.5	51.8	52.2	51.0	51.0	52.3
Greece	48.8	49.1	49.4	48.3	48.4	48.9	46.5	48.0	46.9	30.2	39.1	43.3	47.3	48.1	50.2	50.0	48.4	49.0	49.7	48.4	50.4	48.7	50.4	49.2
Ireland	56.6	56.2	56.9	55.1	57.5	56. 8	55.8	57.1	54.6	56.7	53.6	53.8	53.6	53.3	54.2	54.3	52.9	54.9	52.6	51.5	53.0	50.2	51.7	51.3
Australia	49.4	50.1	46.9	49.0	45.4	46.3	48.0	52.3	44.2	50.4	51.7	52.1	50.2	52.5	51.9	51.5	53.5	58.1	53.4	51.0	51.8	56.4	46.9	49.8
Japan	52.4	52.0	52.0	52.2	51.6	50.3	49.9	50.9	50.1	51.2	51.7	51.0	52.4	52.6	52.6	52.3	50.1	49.1	48.2	47.7	48.1	49.3	49.5	50.4
China	50.4	50.0	49.6	49.7	50.7	49.6	48.9	49.2	49.4	47.8	47.3	47.2	48.3	48.6	48.2	48.4	48.0	49.7	49.4	49.2	48.6	50.6	50.0	50.1
Indonesia	49.2	48.0	47.6	48.5	47.5	46.4	46.7	47.1	47.8	47.3	48.4	47.4	47.8	46.9	47.8	48.9	48.7	50.6	50.9	50.6	51.9	48.4	50.4	50.9
Korea	48.7	49.0	49.9	51.1	51.1	49.2	48.8	47.8	46.1	47.6	47.9	49.2	49.1	49.1	50.7	49.5	48.7	49.5	50.0	50.1	50.5	50.1	48.6	47.6
Taiwan	52.0	51.4	50.0	51.7	52.1	51.0	49.2	49.3	46.3	47.1	46.1	46.9	47.8	49.5	51.7	50.6	49.4	51.1	49.7	48.5	50.5	51.0	51.8	52.2
India	51.6	53.3	54.5	52.9	51.2	52.1	51.3	52.6	51.3	52.7	52.3	51.2	50.7	50.3	49.1	51.1	51.1	52.4	50.5	50.7	51.7	51.8	52.6	52.1
Brazil	49.1	48.7	50.2	50.7	49.6	46.2	46.0	45.9	46.5	47.2	45.8	47.0	44.1	43.8	45.6	47.4	44.5	46.0	42.6	41.6	43.2	46.0	45.7	46.0
Mexico	53.3	54.3	55.3	56.6	54.4	53.8	53.8	53.3	52.0	52.9	52.4	52.1	53.0	53.0	52.4	52.2	53.1	53.2	52.4	53.6	51.1	50.6	50.9	51.9
Russia	50.3	51.7	48.9	47.6	49.7	48.1	48.9	47.6	48.7	48.3	47.9	49.1	50.2	50.1	48.7	49.8	49.3	48.3	48.0	49.6	51.5	49.5	50.8	51.1

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. *Guide to the Markets – U.S.* Data are as of September 30, 2016.



European recovery

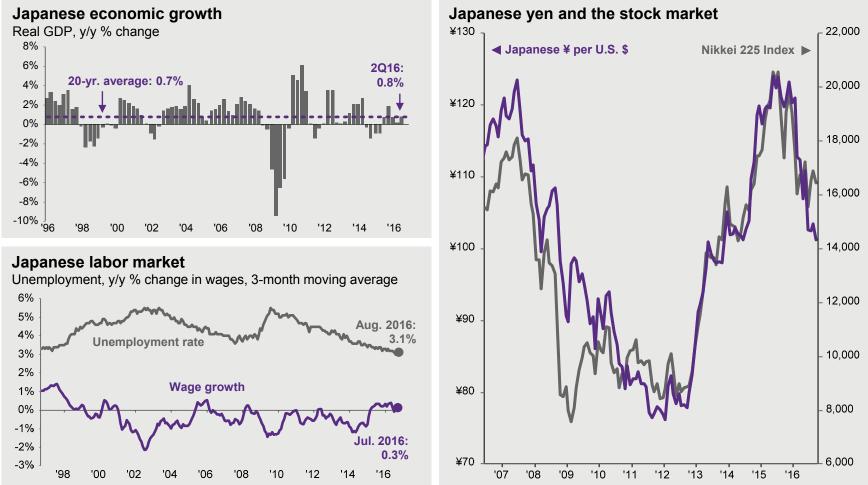
Markit PMI and GDP growth in the eurozone Eurozone credit demand Markit Composite PMI Index and eurozone real GDP q/q SAAR Net % of banks reporting positive loan demand 6% 65 100% Eurozone real GDP 2Q16: 4% 60 1.2% Stronger loan 2% 55 demand 0% 50 Sep. 2016*: 50% -2% 45 52.6 -4% 40 -6% 35 -8% 30 0% -10% 25 Composite PMI -12% 20 '06 '07 '08 '09 '10 '12 '11 '13 '15 '16 -50% **Eurozone unemployment** Persons unemployed as a percent of labor force, seasonally adjusted 13% Jul. 2013: 12.1% 12% -100% 11% 10% Weaker loan Aug. 2016: 9% demand -150% 10.1% 8% 7% 6% -200% '06 '09 '10 '12 '13 '16 '07 '08 '11 '14 '15 '06 '07 '08 '09 '10 '11 '12 '13 '14 '15 '16

Source: FactSet, J.P. Morgan Asset Management; (Top left) Markit; (Top left and bottom left) Eurostat; (Right) ECB. SAAR - Seasonally adjusted annual rate. *Eurozone September composite PMI is a flash estimate. Eurozone shown is the aggregate of the 19 countries that currently use the euro. Guide to the Markets – U.S. Data are as of September 30, 2016.



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Japan: Economy and markets



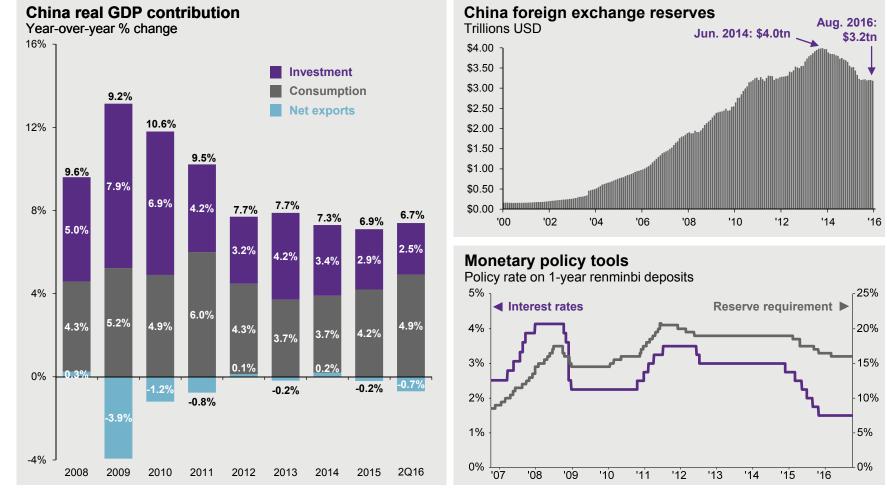
Source: FactSet, J.P. Morgan Asset Management; (Top and bottom left) Japanese Cabinet Office; (Right) Nikkei. Guide to the Markets - U.S. Data are as of September 30, 2016.

J.P.Morgan Asset Management

International

China: Economic and policy snapshot

GTM - U.S. | 50

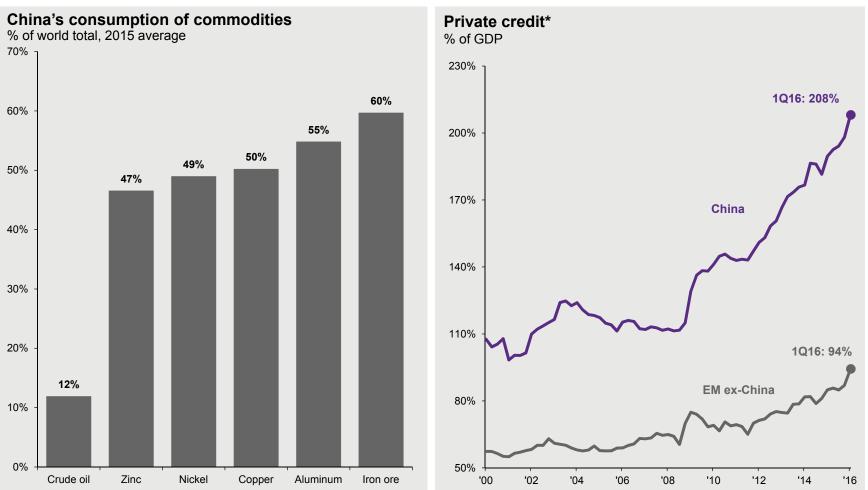


Source: FactSet, J.P. Morgan Asset Management; (Left) CEIC; (Top and bottom right) People's Bank of China. *Guide to the Markets – U.S.* Data are as of September 30, 2016.



International

Emerging market headwinds

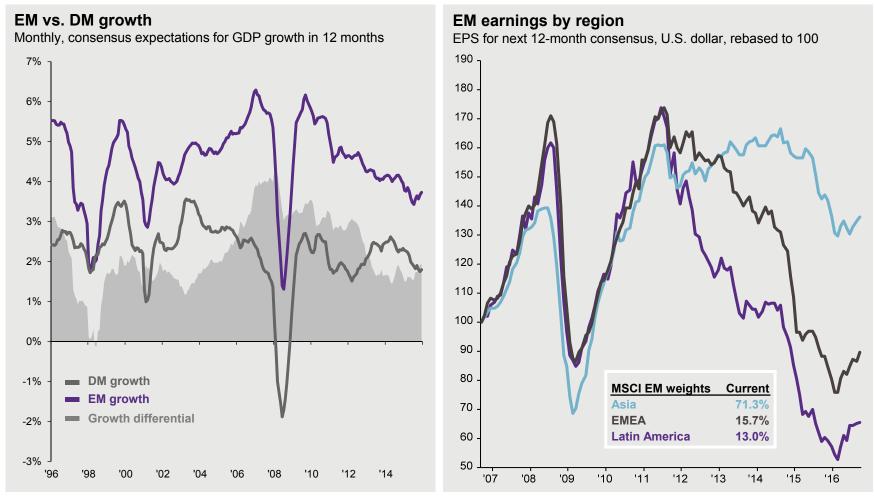


Source: J.P. Morgan Asset Management; (Left) Bloomberg, EIA, World Bureau of Metal Statistics; (Right) BIS, various National Statistics Offices. *Private credit includes non-financial corporates and households, and bank lending, corporate bonds and shadow banking. Aggregated from BIS underlying data.

Guide to the Markets – U.S. Data are as of September 30, 2016.



Emerging market equities



Source: FactSet, MSCI, Consensus Economics, J.P. Morgan Asset Management. "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.

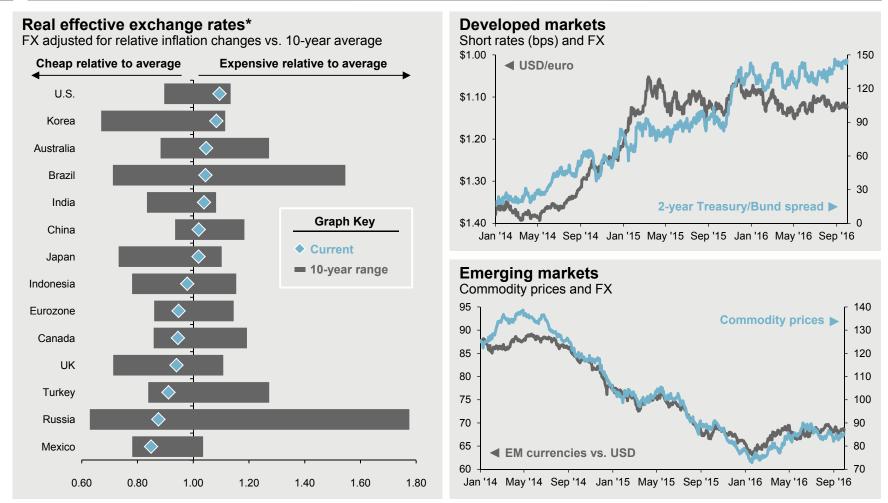
Guide to the Markets – U.S. Data are as of September 30, 2016.



International

Global currencies

GTM - U.S. | 53



Source: J.P. Morgan Asset Management; (Left and bottom right) J.P. Morgan Global Economic Research; (Top right) FactSet, Tullett Prebon; (Bottom right) Bloomberg.

*Real effective exchange rates (REERs) compare the value of a currency to a weighted basket of several foreign currencies. They are deflated using a producer price index, except for Indonesia, which uses a consumer price index. EM currencies is the J.P. Morgan Emerging Market Currencies Index. Commodity prices is the Bloomberg Commodity Price Index. *Guide to the Markets – U.S.* Data are as of September 30, 2016.



Correlations and volatility

EAFE

0.89

1.00

EME

0.79

0.90

1.00

Bonds

-0.30

-0.16

-0.07

U.S.

Large

Cap

1.00

Co		
Curr	10	
Comm	asset classes	OULIEI
Hedge	10	

Source: Barclays Inc., Bloomberg, Cambridge Asso J.P. Morgan Asset Management.

Corp.

ΗY

0.75

0.79

0.85

Currcy.

-0.48

-0.64

-0.67

Munis

-0.12

-0.02

0.05

EMD

0.62

0.72

0.82

Cmdty.

0.54

0.61

0.69

Indexes used - Large Cap: S&P 500 Index; Curren Bonds: Barclays Aggregate; Corp HY: Barclays Cor Estate: NAREIT ODCE Index; Hedge Funds: CS/Tr Private equity data are reported on a two quarter la data for period 9/30/06 to 9/30/16. This chart is for illustrative purposes only.

54 Guide to the Markets – U.S. Data are as of September 30, 2016.

	1
GTM - U.S.	
u w - u.s.	

Private

equity

0.80

0.81

0.80

Hedge

funds

0.81

0.86

0.87

REITs

0.78

0.67

0.56

Private equity

U.S. Large Cap

EAFE

	1.00	-0.06	0.77	-0.14	0.23	-0.09	-0.01	-0.21	-0.26	3%	
		1.00	0.12	-0.52	0.89	0.66	0.67	0.79	0.66	12%	
			1.00	-0.10	0.43	-0.07	0.06	-0.03	-0.16	4%	
				1.00	-0.59	-0.67	-0.38	-0.49	-0.56	8%	
					1.00	0.60	0.60	0.68	0.58	8%	
						1.00	0.41	0.72	0.70	21%	
							1.00	0.53	0.58	26%	
								1.00	0.87	7%	
									1.00	11%	
ociate	es, Credit S	uisse/Tremo	nt, FactSet,	Federal Res	serve, MSCI	, NCREIF, S	tandard & P	oor's,			
orpora remo	ite High Yie nt Hedge Fi	eserve Trade ld; EMD: Ba und Index; P coefficients	rclays Emer	ging Market; /: Cambridge	Cmdty.: Blo Associates	omberg Co Global Buy	nmodity Inde	ex; Real h Index.	J.P.N	Morga	n

54

Ann.

Volatility

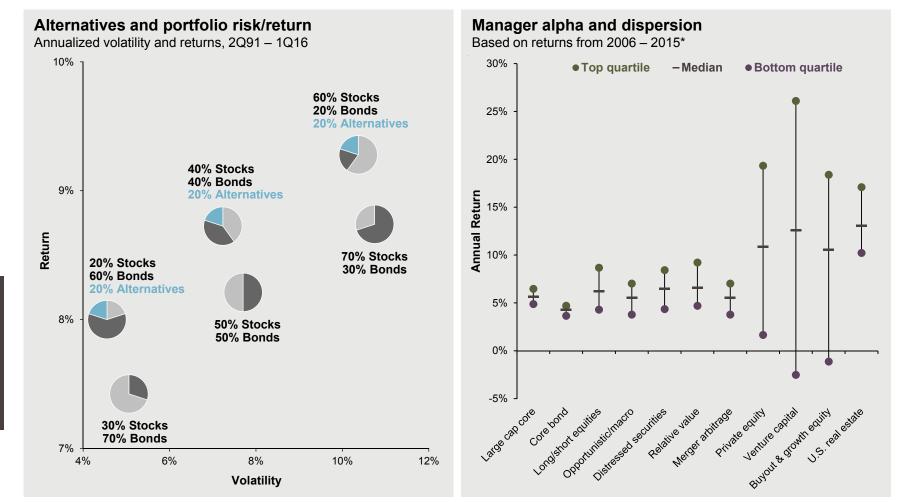
16%

20%

25%

Asset Management

Understanding alternatives



Source: Cambridge Associates, HFRI, J.P. Morgan Asset Management; (Left) Barclays, FactSet, NCREIF, Standard & Poor's; (Right) Lipper. The portfolios that do not contain alternatives are a mix of the S&P 500 and the Barclays U.S. Aggregate. The 20% allocation to alternatives shown on the left reflects the following: 10% in hedge funds (HFR FW Comp.), 5% in private equity and 5% in private real estate. The volatility and returns are based on data from 2Q91 to 1Q16, encompassing 25 years of data. *Manager dispersion is based on: 2006 – 2015 annual returns for large cap core, Core Bond; 2006 – 2015 monthly returns for hedge funds; 2006 – 2014 annual returns for private equity, venture capital, and buyout & growth; and 2009 – 2015 quarterly returns for U.S. real estate.



Other asset classes

Guide to the Markets – U.S. Data are as of September 30, 2016.

Hedge funds

															14-yrs.	'02-'15
2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	YTD	Ann.	Vol.
Macro	Large Cap	Event Driven	Equity L/S	Large Cap	Macro	Macro	Large Cap	Large Cap	Large Cap	Large Cap	Large Cap	Large Cap	Market Neutral	Large Cap	Large Cap	Large Cap
5.5%	28.7%	14.2%	10.0%	15.8%	11.4%	4.7%	26.5%	15.1%	2.1%	16.0%	32.4%	13.7%	4.5%	7.8%	6.3%	16.4%
Relative Value	Event Driven	Large Cap	Event Driven	Event Driven	Equity L/S	Market Neutral	Relative Value	Relative Value	Relative Value	Relative Value	Equity L/S	Macro	Large Cap	Event Driven	Event Driven	Equity L/S
5.3%	23.0%	10.9%	8.6%	15.2%	11.4%	-3.0%	23.0%	12.5%	0.8%	9.7%	14.5%	5.8%	1.4%	6.1%	6.3%	10.0%
Market Neutral	Macro	Equity L/S	Market Neutral	Equity L/S	Relative Value	Relative Value	Equity L/S	Event Driven	Event Driven	Event Driven	Event Driven	Relative Value	Macro	Relative Value	Relative Value	Event Driven
0.9%	21.5%	7.9%	6.1%	12.8%	10.0%	- 17 . 3 %	22.3%	11.5%	-0.5%	6.5%	13.4%	5.3%	0.4%	4.9%	6.0%	8.6%
Equity L/S	Equity L/S	Macro	Macro	Relative Value	Event Driven	Event Driven	Event Driven	Equity L/S	Macro	Equity L/S	Relative Value	Equity L/S	Relative Value	Equity L/S	Macro	Relative Value
- 1.7%	16.9%	7.5%	6.1%	12.2%	8.7%	-20.8%	20.3%	8.9%	- 0 . 7 %	4.7%	7.5%	3.6%	0.2%	3.1%	5.5%	6.2%
Event Driven	Relative Value	Relative Value	Relative Value	Macro	Market Neutral	Equity L/S	Macro	Macro	Market Neutral	Market Neutral	Market Neutral	Market Neutral	Equity L/S	Macro	Equity L/S	Macro
- 3.1%	9.1%	6.1%	5.3%	8.2%	5.7%	-26.4%	6.9%	3.2%	- 1.5%	3.1%	6.4%	3.2%	-0.2%	2.1%	5.0%	5.1%
Large Cap	Market Neutral	Market Neutral	Large Cap	Market Neutral	Large Cap	Large Cap	Market Neutral	Market Neutral	Equity L/S	Macro	Macro	Event Driven	Event Driven	Market Neutral	Market Neutral	Market Neutral
-22.1%	3.3%	3.4%	4.9%	7.0%	5.5%	-37.0%	- 1.7 %	2.5%	-4.3%	- 1.3%	0.1%	2.6%	-2.8%	0.4%	2.8%	2.7%

Hedge fund returns in different market environments



Hedge fund returns in different market environments

Average return in up and down months for Barclays Agg. 1.0% 0.8% 0.5% 0.3% 0.5% 0.0% -0.5% HFRI FW Comp. Barclays U.S. Agg. -0.7% -1.0% Barclays Agg up Barclays Agg down

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

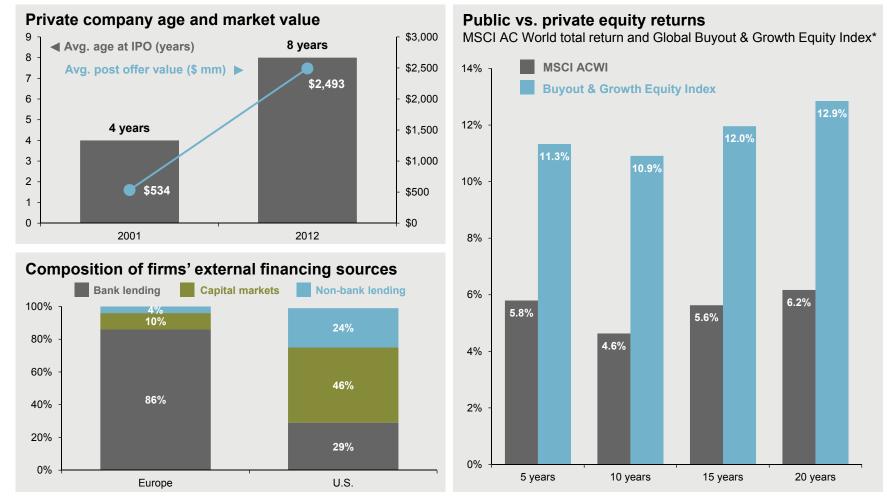
Hedge fund returns in different market environments are based on monthly returns over the past 15 years through August 31, 2016, due to data availability. Year-to-date returns are as of August 31, 2016. Guide to the Markets – U.S. Data are as of September 30, 2016.



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Private debt and equity

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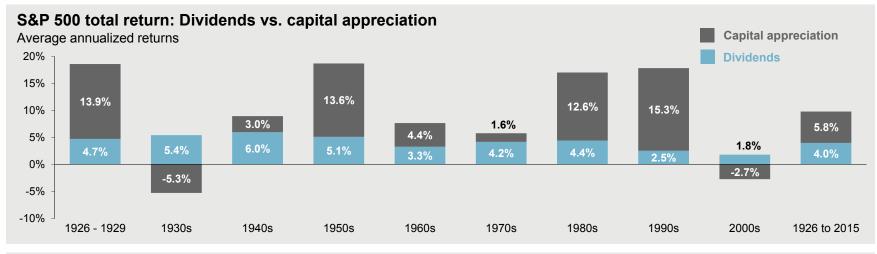
Source: Cambridge Associates, Deutsche Bank, FactSet, MSCI, National Venture Capital Association, J.P. Morgan Asset Management. Age at IPO is defined as time elapsed from first funding round until IPO date. *Data as of 1Q16. *Guide to the Markets – U.S.* Data are as of September 30, 2016.

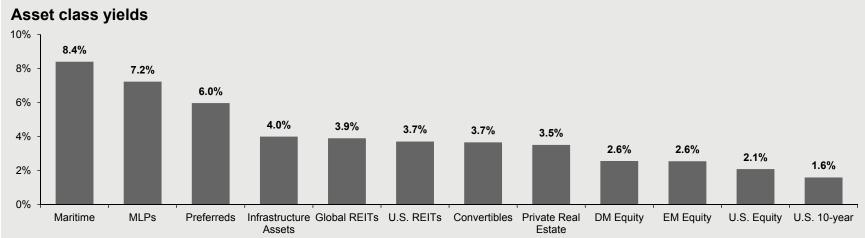


Yield alternatives: Domestic and global

GTM - U.S. 58

Asset Management

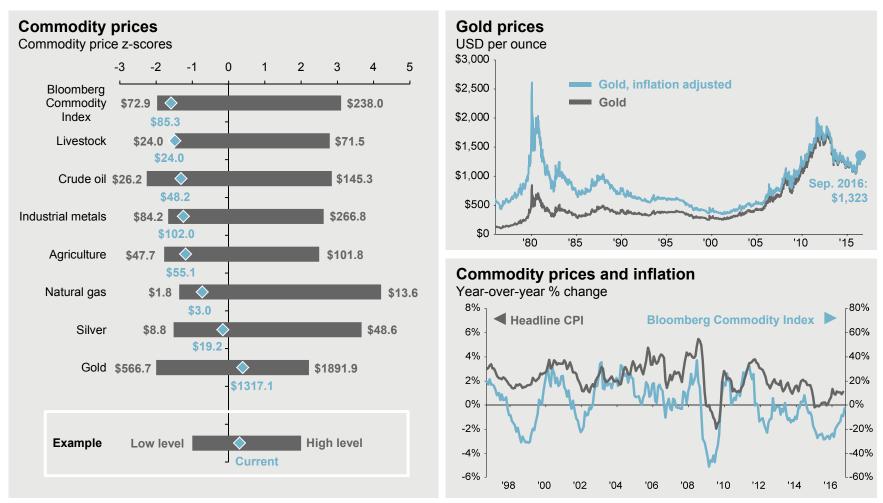




Source: FactSet, J.P. Morgan Asset Management; (Top) Ibbotson, Standard & Poor's; (Bottom) Alerian, BAML, Barclays, Clarkson, Drewry Maritime Consultants, Federal Reserve, FTSE, MSCI, NCREIF, Standard & Poor's. Dividend vs. capital appreciation returns are through 12/31/15. Yields are as of 9/30/16, except maritime (12/31/2015), infrastructure assets and private real estate (6/30/16). Maritime: Unlevered yields for maritime assets are calculated as the difference between charter rates (rental income) and operating expenses as a percentage of current asset value. Yields for each of the sub-vessel types above are calculated and the respective weightings are applied to calculate sub-sector specific yields, and then weighted to arrive at the current indicative yield for the World Maritime Fleet; MLPs: Alerian MLP; Preferreds: BAML Hybrid Preferred Securities; Private Real Estate: NCREIF ODCE; Global/U.S. REITs: FTSE NAREIT Global/USA REITs; Infrastructure Assets: MSCI Global Infrastructure Asset Index; Convertibles: Barclays U.S. Convertibles Composite; EM Equity: MSCI Emerging Markets; DM Equity: MSCI The World Index; U.S. Equity: MSCI USA. *Guide to the Markets – U.S.* Data are as of September 30, 2016.

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Global commodities



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 September 30, 2016.



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Global commercial real estate

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Source: (Left) U.S. Real Estate: NCREIF, J.P. Morgan Asset Management; (Top right) Europe real estate: IPD, Barclays J.P. Morgan Asset Management; (Bottom right) Asia Pacific real estate: IPD, FTSE, S&P ASX, J.P. Morgan Asset Management. All property yields (equally-weighted, capitalization rates), government bonds and BBB-rated bonds for Asia Pacific are represented by Australia and Japan. *Guide to the Markets – U.S.* Data are as of September 30, 2016.



Asset class returns

																	2000 ·	- 2015
2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	YTD	Ann.	Vol.
Comdty.	REITS	Comdty.	EM	REITs	EM	REITs	EM	Fixed	EM	REITS	REITs	REITS	Small	REITs	REITs	EM	REITs	EM
31.8%	13.9%	25.9%	Equity 56.3%	31.6%	Equity 34.5%	35.1%	Equity 39.8%	Income 5.2%	Equity 79.0%	27.9%	8.3%	19.7%	Cap 38.8%	28.0%	2.8%	Equity 16.4%	12.0%	Equity 25.4%
31.0 %					34.5%		39.0 %	5.2 /0										23.4 /0
REITS	Fixed Income	Fixed Income	Small Cap	EM Equity	Comdty.	EM Equity	Comdty.	Cash	High Yield	Small Cap	Fixed Income	High Yield	Large Cap	Large Cap	Large Cap	High Yield	High Yield	REITS
26.4%	8.4%	10.3%	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%	14.5%	7.9%	22.0%
Fixed	Cash	High	DM	DM	DM	DM	DM	Asset	DM	EM	High	ЕМ	DM	Fixed	Fixed	REITS	Small	Small
Income	Cash	Yield	Equity	Equity	Equity	Equity	Equity	Alloc.	Equity	Equity	Yield	Equity	Equity	Income	Income	REIIS	Cap	Сар
11.6%	4.1%	4.1%	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%	12.3%	6.6%	21.2%
Cash	Small	REITs	REITs	Small	REITs	Small	Asset	High	REITs	Comdty.	Large	DM	Asset	Asset	Cash	Small	EM	DM
6.1%	Cap 2.5%	3.8%	37.1%	Cap 18.3%	12.2%	Cap 18.4%	A170C. /7.1%	Yield - 26.9%	28.0%	16.8%	Cap 2.1%	Equity 17.9%	Alloc. 14.9%	Alloc. 5.2%	0.0%	Cap 11.5%	Equity 5.9%	Equity 19.6%
		3.0%			-		/				2.1%		/			11.5%		19.6%
High Yield	High Yield	Cash	High Yield	High Yield	Asset Adloc.	Large Cap	Fixed Income	Small Cap	Small Cap	Large Cap	Cash	Small Cap	High Yield	Small Cap	DM Equity	Comdty.	Asset Alloc.	Comdty.
1.0%	2.3%	1.7%	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%	8.9%	5.6%	18.7%
Asset	EM	Asset	Large	Asset	Large	Asset	Large		Large	High	Asset	Large			Asset	Large	Fixed	Large
Asset Alloc.	Equity	Alloc.	Cap	Asset Alloc.	Cap	Alloc.	Cap	Comdty.	Cap	Yield	AHOS.	Cap	REITS	Cash	Alloc.	Cap	Income	Cap
0.0%	-2.4%	- 5.9%	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%	7.8%	5.4%	16.7%
Small	Asset	EM	Asset	Large	Small	High	Cash	Large	Asset	Asset	Small	Asset	Cash	High	High	Asset	Large	High
Сар	Alloc.	Equity	Alloc.	Сар	Сар	Yield		Cap	Alloc.	Alloc.	Сар	Alloc.		Yield	Yield	Alloc.	Сар	Yield
-3.0%	-3.9%	- 6.0%	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%	7.5%	4.1%	11.5%
Large Cap	Large Cap	DM Equity	Comdty.	Comdty.	High Yield	Cash	High Yield	REITS	Comdty.	DM Equity	DM Equity	Fixed Income	Fixed Income	EM Equity	Small Cap	Fixed Income	DM Equity	Asset Alloc.
- 9.1%	- 11.9%	- 15.7%	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%	5.8%	2.8%	11.2%
DM		Small	Fixed	Fixed		Fixed	Small	DM	Fixed	Fixed			EM	DM	EM	DM		Fixed
Equity	Comdty.	Cap	Income	Income	Cash	Income	Cap	Equity	Income	Income	Comdty.	Cash	Equity	Equity	Equity	Equity	Cash	Income
- 14.0%	- 19.5%	-20.5%	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%	2.2%	1.8%	3.4%
EM	DM	Large	Cash	Cash	Fixe d	Comdty.	REITs	EM	Cash	Cash	EM	Comdty.	Comdty.	Comdty.	Comdty.	Cash	Comdty.	Cash
Equity	Equity	Cap			Income			Equity			Equity							
-30.6%	- 21.2%	- 22.1%	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%	0.2%	0.8%	1.0%

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: Barclays Global HY Index, Fixed Income: Barclays 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 Barclays Aggregate, 5% in the Barclays 1-3m Treasury, 5% in the 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 12/31/99 – 12/31/15. 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.



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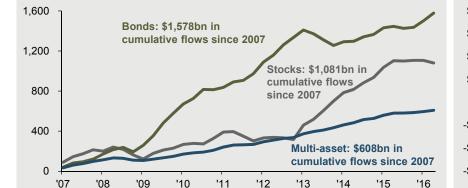
Investing principles

Fund flows

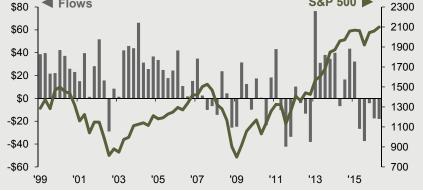
		Registered product flows																	
USD billions	AUM	YTD 2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999
U.S. equity	6,446	(53)	(36)	93	180	(45)	(43)	13	9	(12)	20	70	101	160	133	47	84	129	122
World equity	2,581	6	207	143	203	59	18	85	58	(39)	194	174	138	92	42	12	(9)	43	22
Taxable bond	3,056	169	50	78	(23)	308	170	221	312	60	108	49	43	25	48	111	62	(10)	10
Tax-free bond	688	51	21	32	(57)	53	(10)	14	73	13	13	17	7	(8)	(4)	13	10	(9)	(7)
Multi-asset	2,109	28	58	92	98	69	58	61	38	12	99	79	81	85	55	24	20	(19)	(12)
Liquidity	2,597	38	35	23	36	9	(69)	(363)	(265)	687	547	185	51	(56)	(102)	19	286	77	131

Cumulative flows into long-term asset products

Mutual fund and ETF flows, quarterly, USD billions



Flows into U.S. equity funds & S&P 500 performance Mutual fund and ETF flows, price index, quarterly, USD billions \$80 areas Flows 580 broker 2300



Source: Strategic Insight Simfund, J.P. Morgan Asset Management; (Top) All data includes flows through August 2016 and captures all registered product flows (open-end mutual funds and ETFs); (Bottom left and right) All data includes flows through June 2016 (2Q) and captures 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 September 30, 2016.

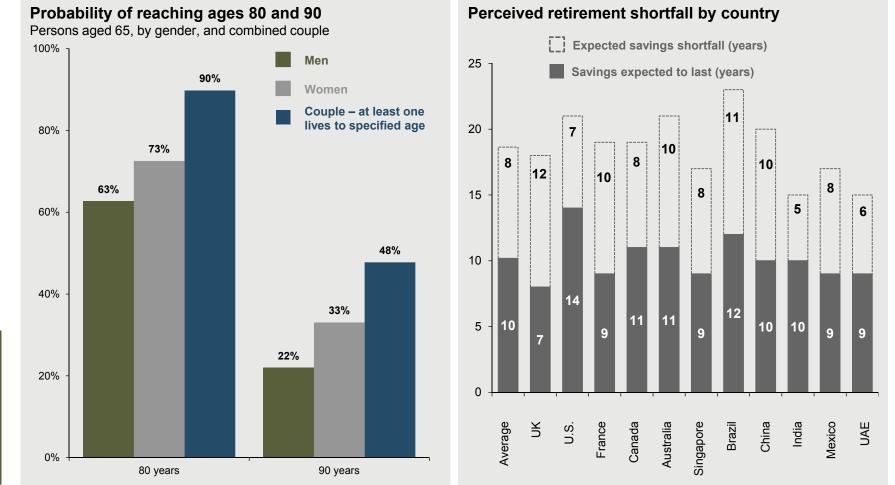


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Life expectancy and pension shortfall

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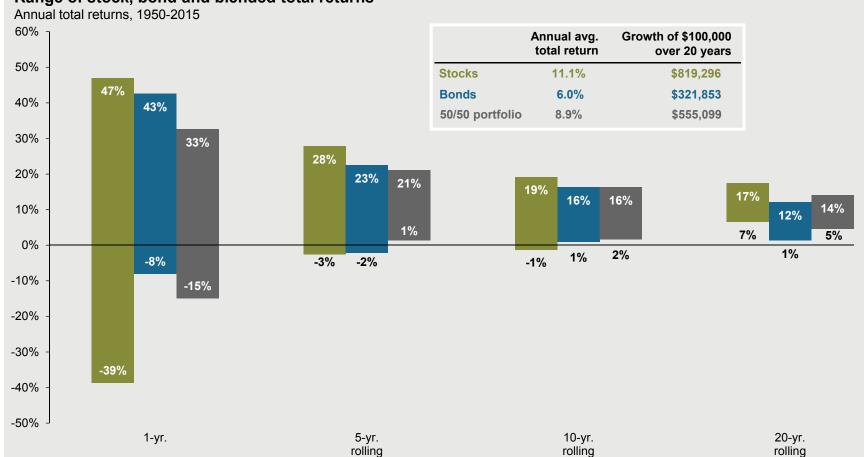


Source: J.P. Morgan Asset Management; (Left) SSA 2013 Life Tables; (Right) "The Future of Retirement: Life after work?" study by HSBC. Figures represent the expected portion of retirement that will not be covered by retirement savings based on survey data. *Guide to the Markets – U.S.* Data are as of September 30, 2016.



Investing

Time, diversification and the volatility of returns



Range of stock, bond and blended total returns

Source: Barclays, FactSet, Federal Reserve, Robert Shiller, Strategas/Ibbotson, J.P. Morgan Asset Management.

Returns shown are based on calendar year returns from 1950 to 2015. Stocks represent the S&P 500 Shiller Composite and Bonds represent

Strategas/Ibbotson for periods from 1950 to 2010 and Barclays Aggregate thereafter. Growth of \$100,000 is based on annual average total returns from 1950 to 2015.

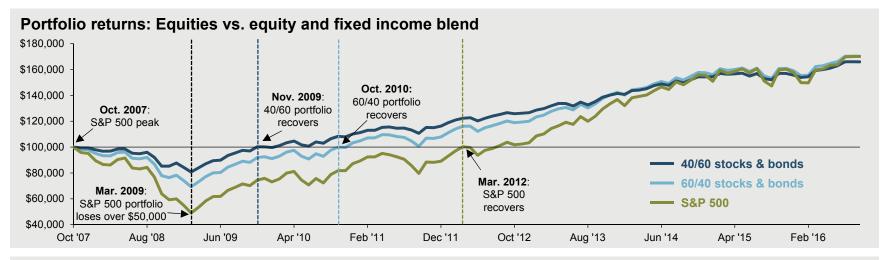


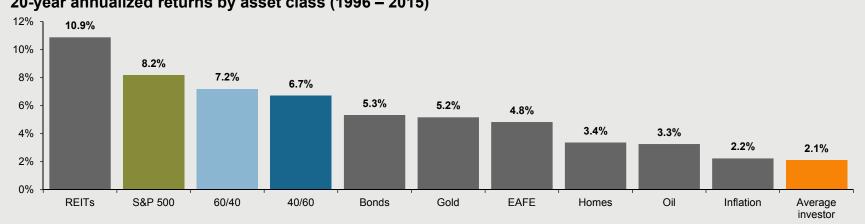
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Investing principles

Diversification and the average investor

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20-year annualized returns by asset class (1996 – 2015)

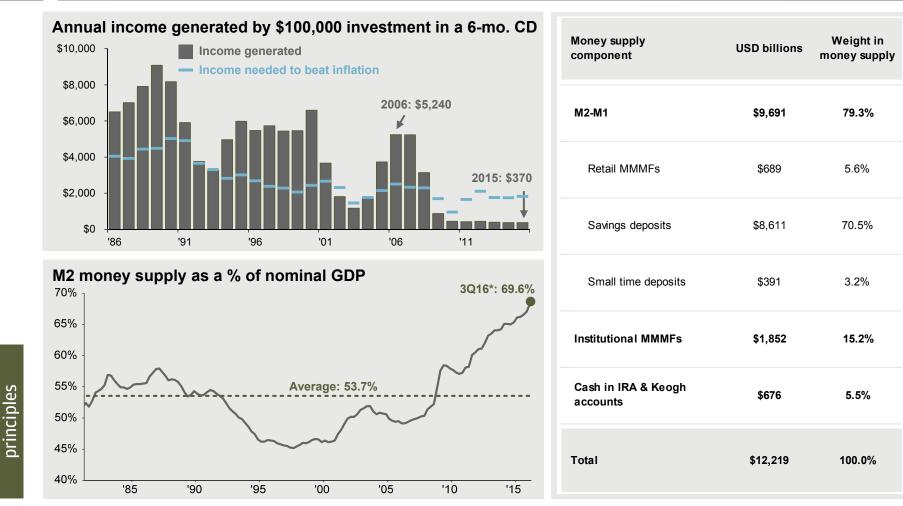
Source: J.P. Morgan Asset Management; (Top) Barclays, FactSet, Standard & Poor's; (Bottom) Dalbar Inc.

Indexes used are as follows: REITS: NAREIT Equity REIT Index, EAFE: MSCI EAFE, Oil: WTI Index, Bonds: 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 guality U.S. fixed income, represented by the 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 12/31/15 to match Dalbar's most recent analysis.

Asset Management

Guide to the Markets - U.S. Data are as of September 30, 2016.

Investing orinciples **Cash accounts**



Source: FactSet, J.P. Morgan Asset Management; (Top left) Bankrate.com; (Bottom left and right) BEA, Federal Reserve, St. Louis Fed. All cash measures obtained from the Federal Reserve are latest available seasonally adjusted month averages. All numbers are in billions of U.S. dollars. Small-denomination time deposits are those issued in amounts of less than \$100,000. All IRA and Keogh account balances at commercial banks and thrift institutions are subtracted from small time deposits. 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. IRA and Keogh account balances at money market mutual funds are subtracted from retail money funds. Past performance is not indicative of comparable future results. *3Q M2 money supply as a % of GDP is a J.P. Morgan Asset Management estimate.



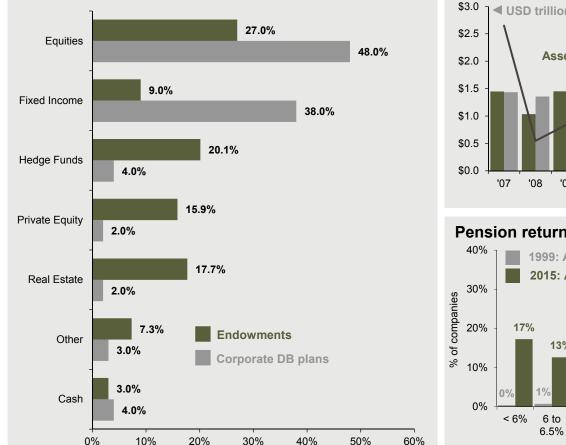
Guide to the Markets – U.S. Data are as of September 30, 2016.

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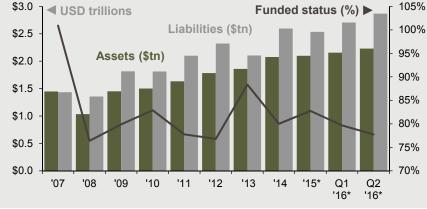
Investing

Institutional investor behavior

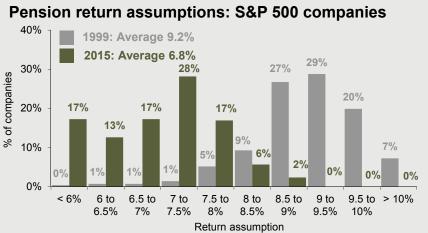
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Asset allocation: Corporate DB plans vs. endowments



Defined benefit plans: Russell 3000 companies



Source: J.P. Morgan Asset Management; (Left) NACUBO (National Association of College and University Business Officers), Towers Watson; (Top right) Bloomberg, Russell 3000 corporate 10-Ks; (Bottom right) Compustat/FactSet, S&P 500 corporate 10-Ks. Asset allocation as of 2012. Endowments represents dollar-weighted average data of 842 colleges and universities. Pension return assumptions based on all available and reported data from S&P 500 Index companies. Pension assets, liabilities and funded status based on Russell 3000 companies reporting pension data. Return assumption bands are inclusive of upper range. *2015 and 2016 estimates are based on market moves only and do not include contributions, benefit payments and service costs. All information is shown for illustrative purposes only.

J.P.Morgan Asset Management

Guide to the Markets – U.S. Data are as of September 30, 2016.

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Investing

principles

Local investing and global opportunities

Investment universe & U.S. investors Investor allocation by region Likelihood of owning stocks in an industry vs. national average*** Percentage of total net assets, 2014 U.S. Global **Financials** Technology 26% -12% -2% +10% -8% 64% -5% -7% 78% % +/- National Average Industrials Energy 74% -9% -7% 36% 22% +14% 5% Global GDP Global stock & bond U.S. investor markets* allocation**

Source: Openfolio, IMF, ICI, 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. ***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.

J.P.Morgan Asset Management

68

+0%

-10%

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Investing orinciples 100%

90%

80%

70%

60%

50%

40%

30%

20%

10%

0%

J.P. Morgan Asset Management - Index definitions

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 **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 **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 sub-components are mutually exclusive. Until January 1, 2011, the index also included CMBS high yield securities.

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

The **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 **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 **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 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 quasisovereign 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.



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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 nodex 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.



J.P. Morgan Asset Management - Risks & disclosures

The Market Insights program provides comprehensive data and commentary on global markets without reference to products. Designed as a tool to help clients understand the markets and support investment decision-making, the program explores the implications of current economic data and changing market conditions.

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Guide to the Markets - U.S.

JP-LITTLEBOOK | 0903c02a815e57da

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