

**MARKET  
INSIGHTS**

2Q | 2014

As of April 30, 2014

# Implications of an Economic Warm-up

**April 30, 2014**

Dr. David Kelly  
Chief Global Strategist,  
J.P. Morgan Funds

*J.P. Morgan*

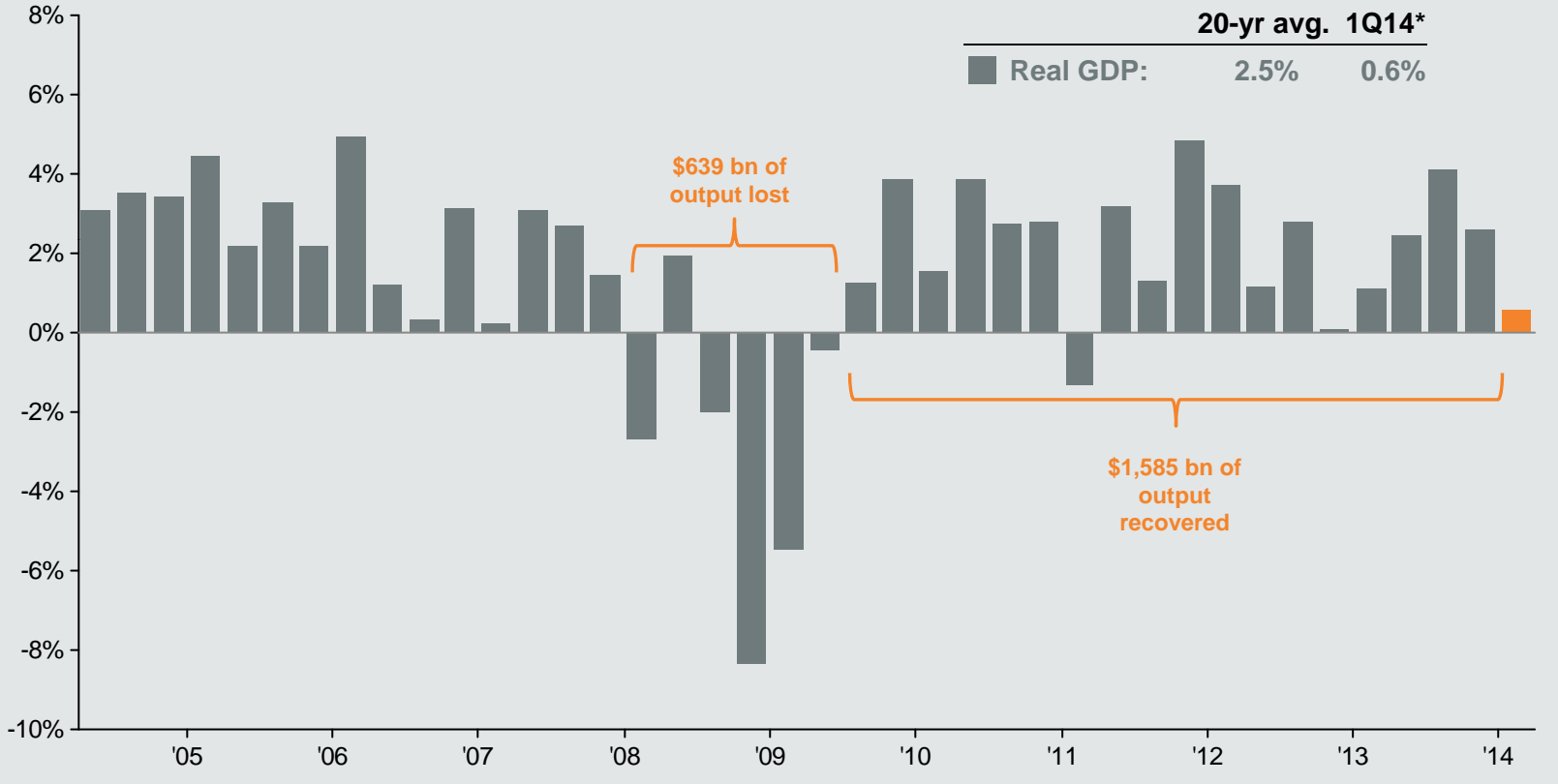
**J.P.Morgan**  
Asset Management

- **The monetary implications of an economic warm-up**
- A yellow light on the equity overweight
- Global warming

# GDP growth in 1Q14 likely felt the winter freeze

## Real GDP

% chg at annual rate



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

GDP values shown in legend are % change vs. prior quarter annualized and reflect 1Q14 GDP estimate.

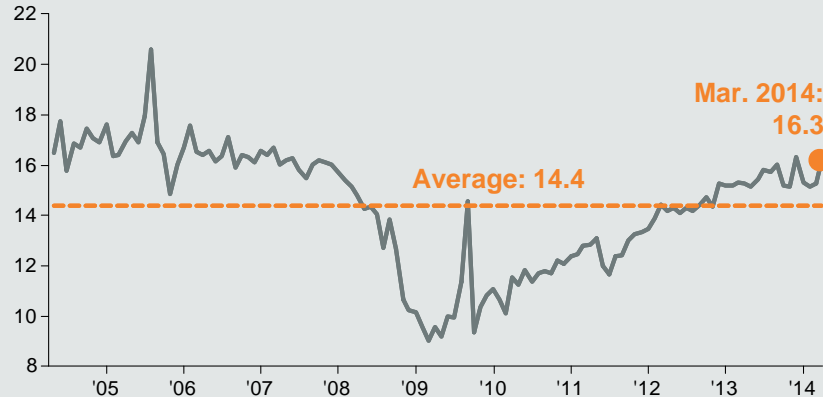
\*1Q14 GDP estimate provided by JPMAM.

Data are as of 4/29/14.

# High frequency activity indicators have improved lately

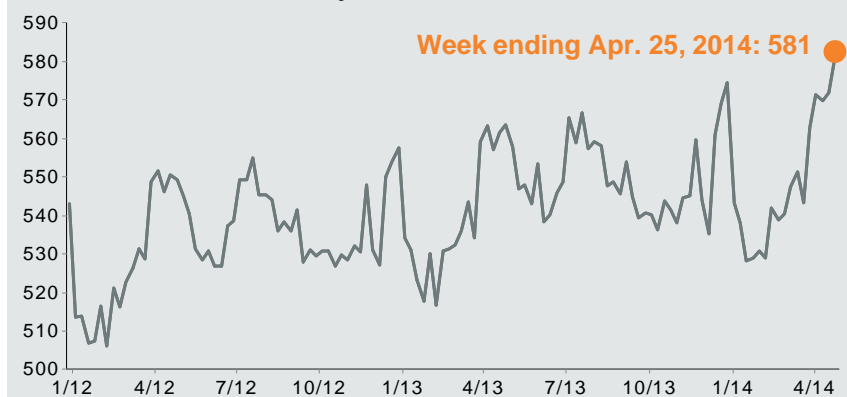
## Light Vehicle Sales

Millions, seasonally adjusted annual rate



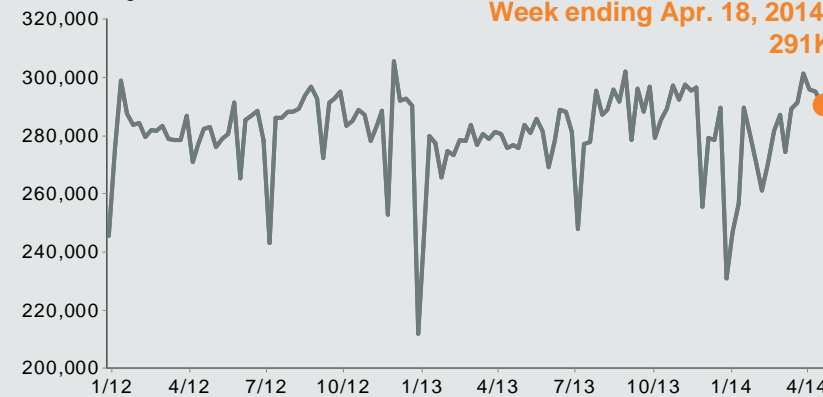
## Chain Store Sales

ICSC chain store sales, weekly



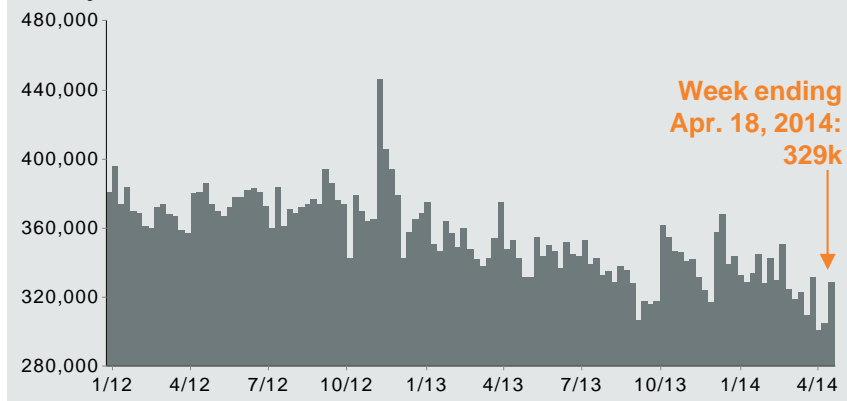
## Weekly U.S. Railroad Traffic

All cars originated, carloads



## Initial Claims for Unemployment Insurance

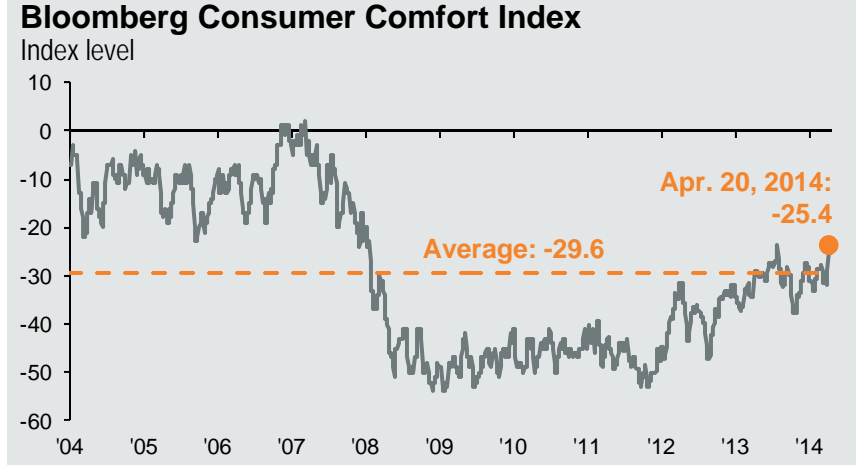
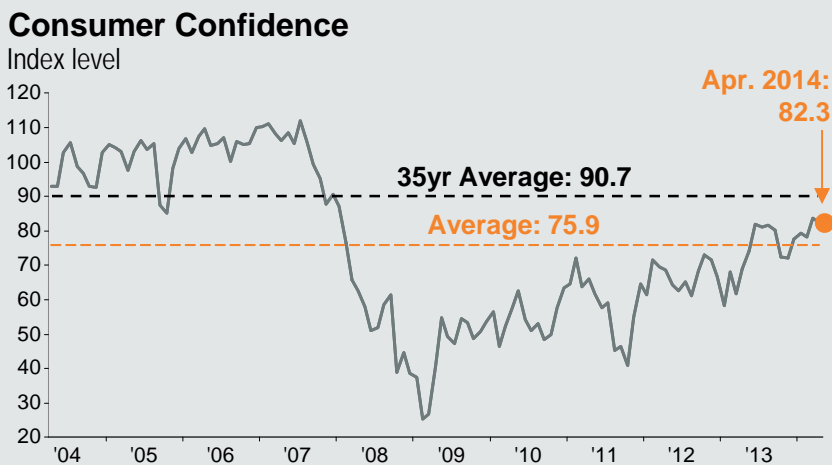
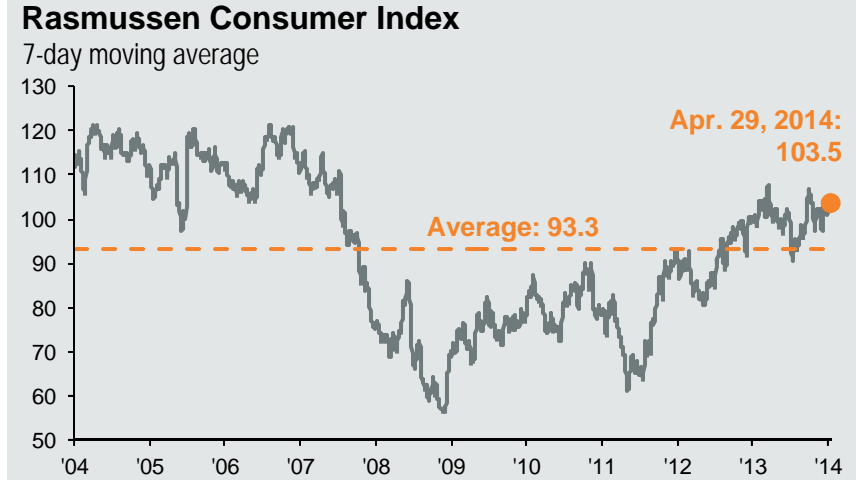
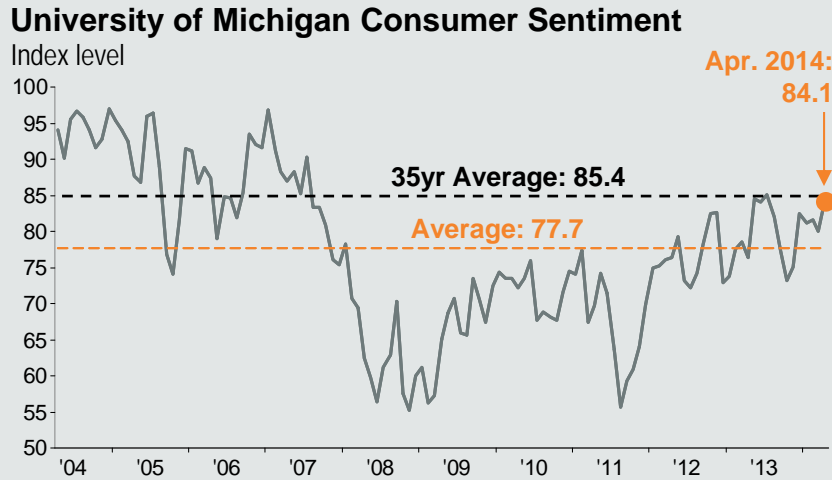
Weekly



Source: (Top left) BEA, FactSet, J.P. Morgan Asset Management. (Top right) ICSC, Goldman Sachs, FactSet, J.P. Morgan Asset Management. (Bottom left) Association of American Railroads, FactSet, J.P. Morgan Asset Management. (Bottom right) BLS, FactSet, J.P. Morgan Asset Management.

Data reflect most recently available as of 4/29/14.

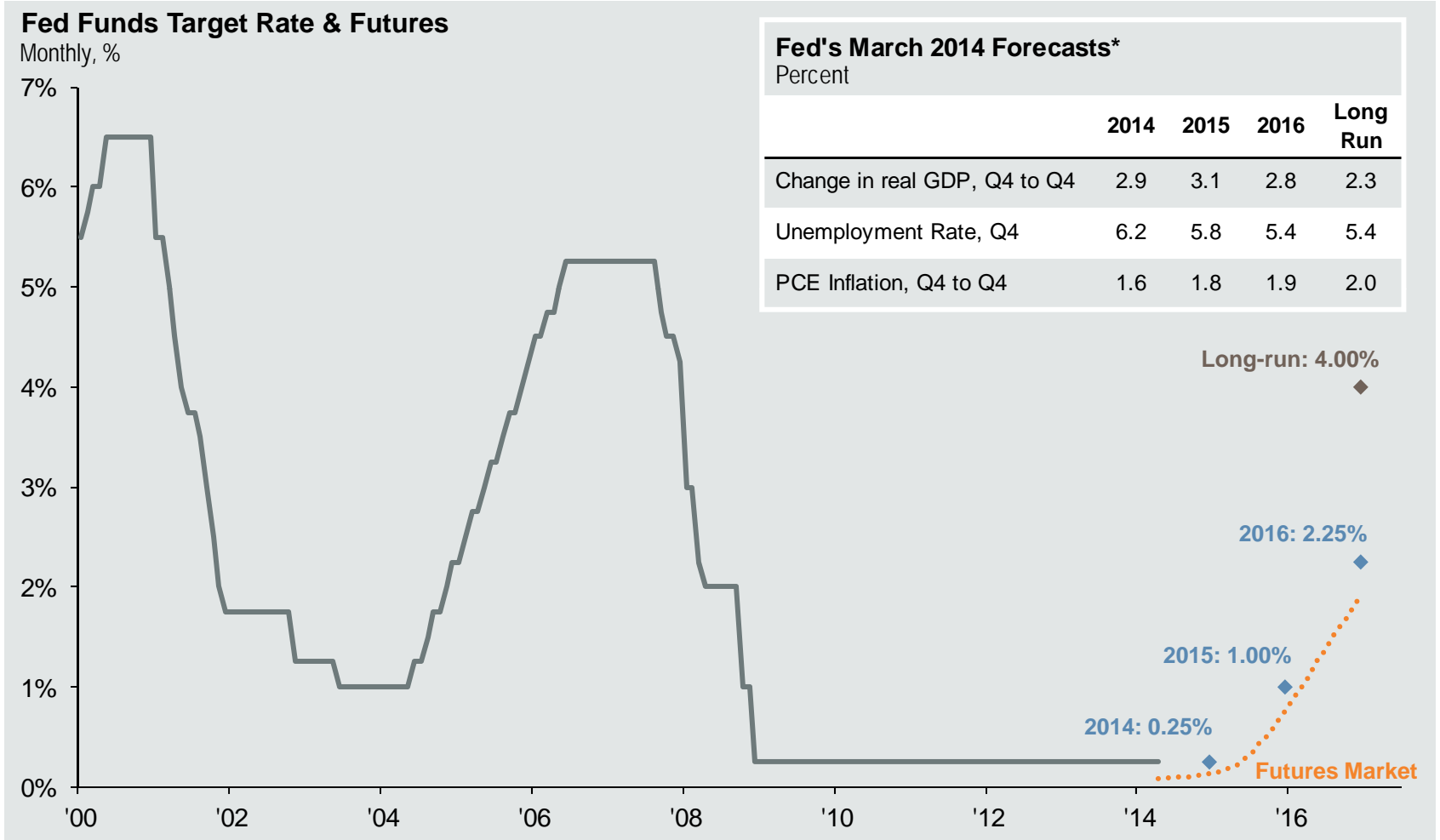
# Consumers are feeling a bit more happy



Source: University of Michigan, Conference Board, Rasmussen Reports, Bloomberg, FactSet, J.P. Morgan Asset Management.

Data are as of 4/29/14.

# A warming economy should lead to a steeper, and perhaps earlier, takeoff in the federal funds rate



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

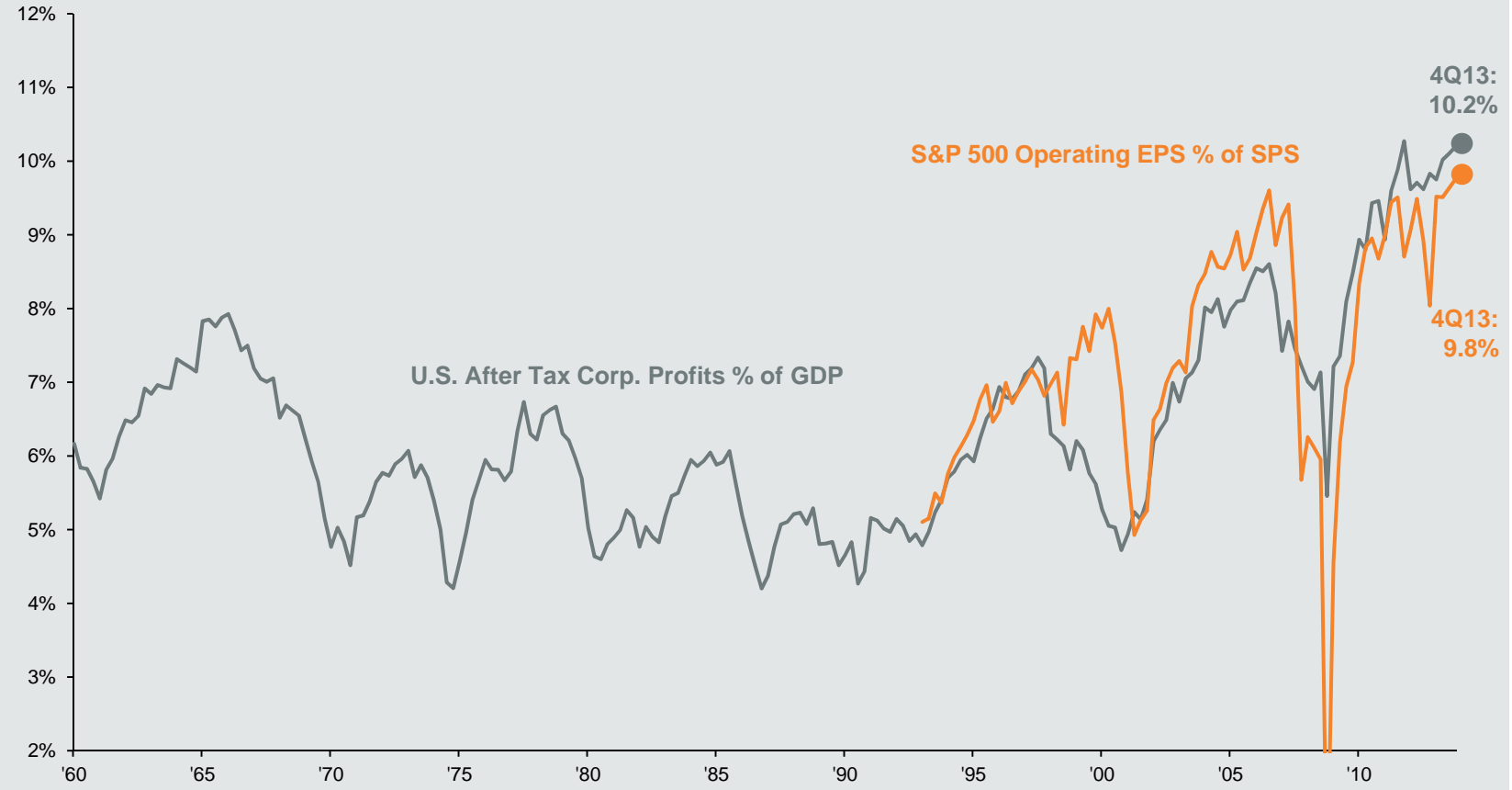
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# The profit's share of GDP has continued to grow...

## Profit Margins

After tax corporate profits as a % of GDP, S&P 500 operating EPS as a % of SPS



Source: Standard & Poor's, Compustat, BEA, J.P. Morgan Asset Management.  
Standard and Poor's EPS levels are based on operating earnings per share.

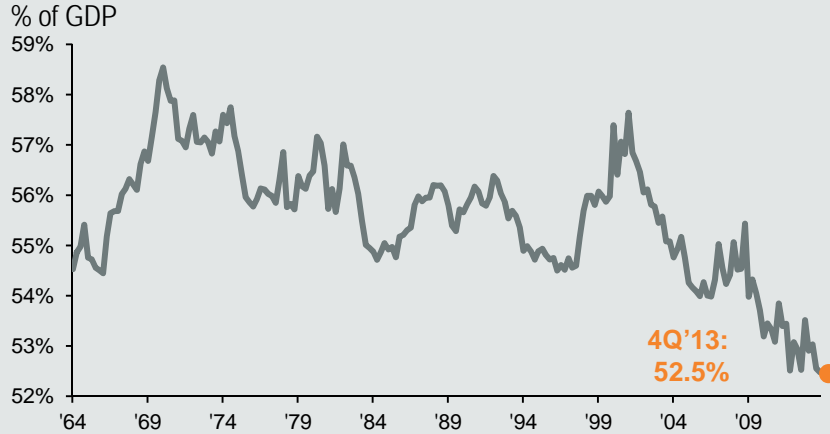
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Data are as of 4/29/14.



...due to falling shares for other parts of national income

### Compensation



### Interest Expense



### Depreciation



### Corporate Taxes

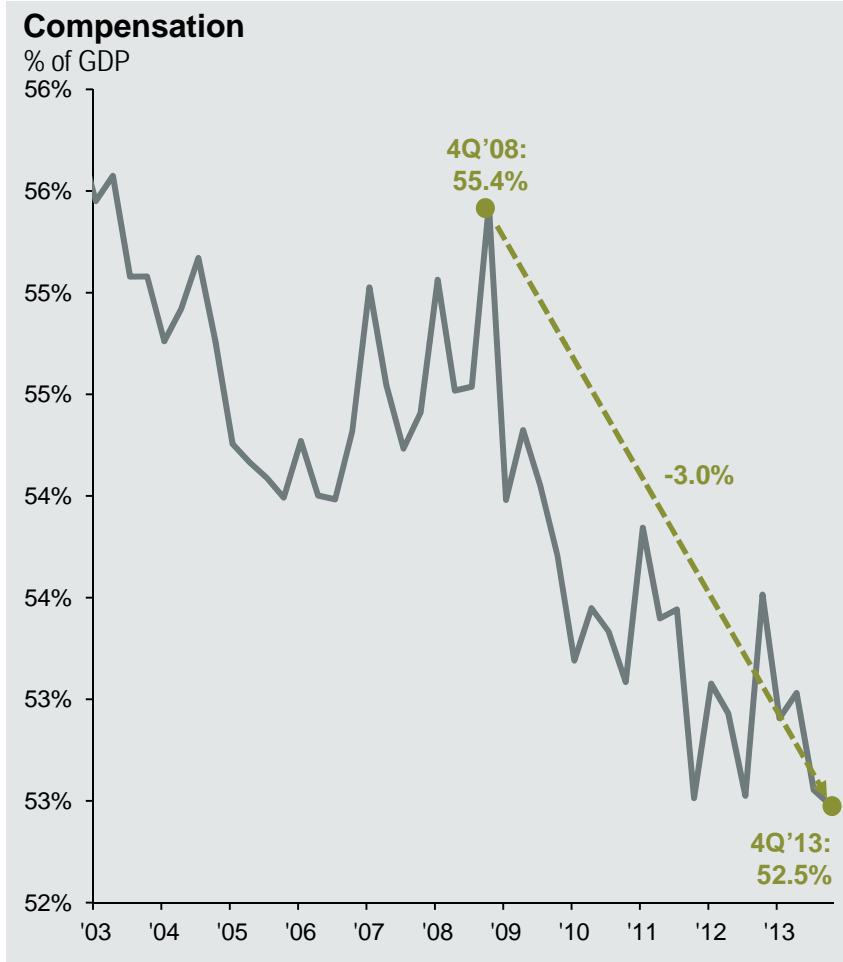


Source: BEA, J.P. Morgan Asset Management.

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Data are as of 4/29/14.

# Falling compensation and interest expense more than account for the 4.7% increase in margins since 4Q'08... but where do we go from here?



Source: BEA, J.P. Morgan Asset Management.  
Guide to the Markets – U.S.  
Data are as of 4/29/14.

## Valuation has become a mixed picture

## U.S. Equity: Valuation Measures

Valuation Measure	Description	Latest*	5-year avg.	10-year avg.	25-year avg.	
P/E	Price to Earnings	15.2x	13.2x	13.8x	15.5x	☹️
CAPE	Shiller's P/E	25.2x	21.2x	23.0x	25.0x	☹️
Div. Yield	Dividend Yield	1.8%	2.0%	2.0%	2.1%	☹️
PEG	Price/Earnings to Growth	1.7	1.2	1.7	1.4	☹️
Q Ratio	Tobin's Q Ratio	106.6	88.2	86.9	91.2	☹️
REY	Real Earning's Yield	4.1%	3.8%	3.2%	2.2%	😊
EY Spread	EY Minus Baa Yield	1.6%	2.0%	1.2%	-0.7%	😊

Source: Standard & Poor's, FactSet, Robert Shiller Data, FRB, 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 trailing 12-month average dividend divided by price. \*Note that the dividend yield shown on p. 7 of the 2Q14 GTM uses consensus estimates of dividends over the next 12-months.

**Price/Earnings to Growth Ratio** is calculated as NTM P/E divided by NTM earnings growth.

**Tobin's Q Ratio** is the ratio of the market value of corporate equities to their net worth as found in the Federal Reserve's Z.1.

**Real Earnings Yield** uses trailing 4-quarters of earnings as reported by companies and year-over-year core CPI inflation.

**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.

Latest reflects data as of 3/31/14 except for Tobin's Q which is as of 12/31/13.

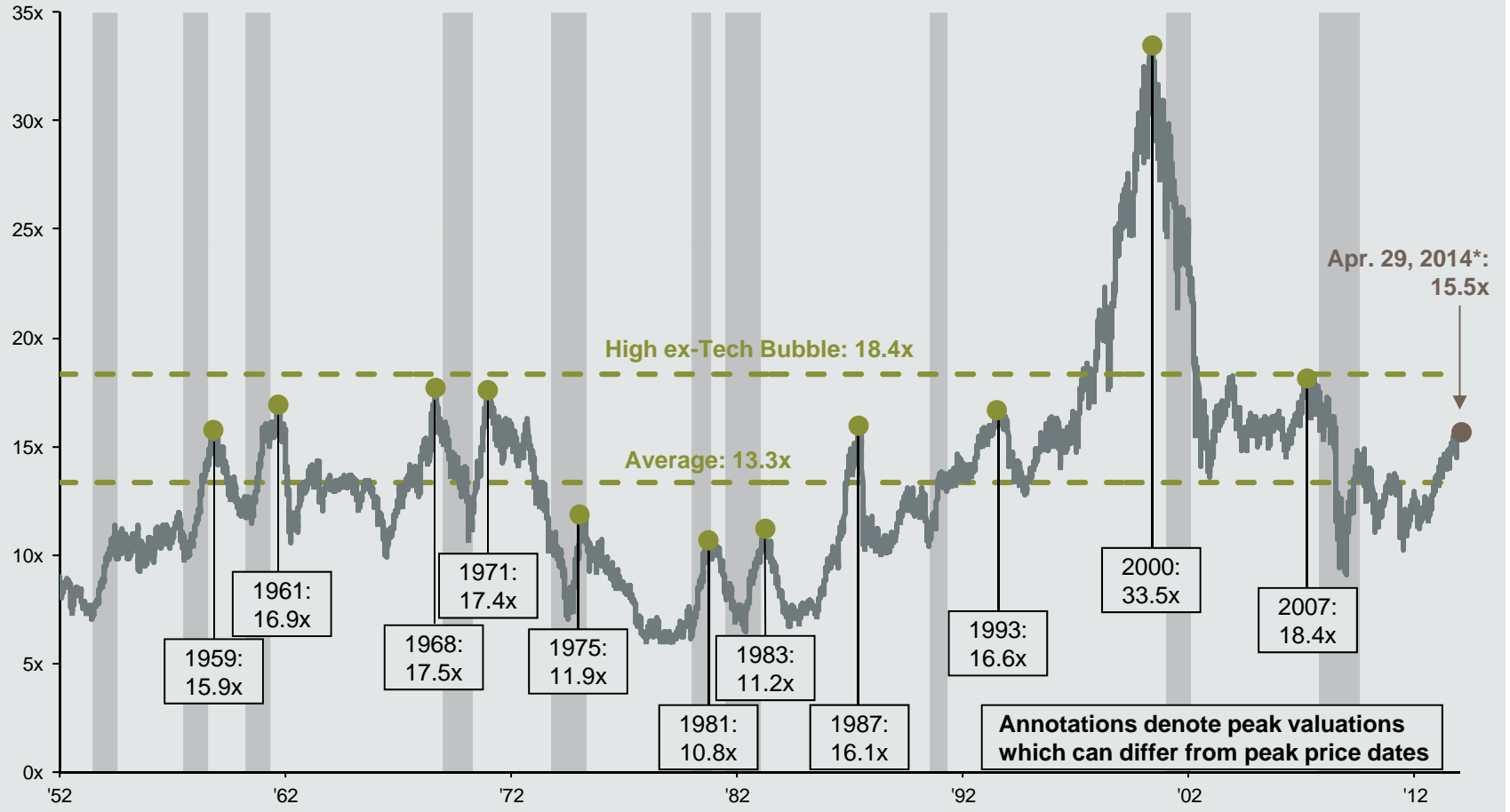
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Although above their long-term average, multiples remain below their valuation peaks of the last 30-years and far below the tech bubble peak

### Lagged P/E Ratio – All U.S. Corporations

Ratio of market value of all U.S. corporations to adjusted after-tax corporate profits for prior four quarters



Source: BEA, Federal Reserve Board, Wilshire Associates, J.P. Morgan Asset Management.

Daily prices are J.P. Morgan Asset Management estimate based on the daily value of the Wilshire 5000 Total Market Index.

Data are as of 4/29/14.

Moreover, low long term interest rates and the lack of an economic or geopolitical shock (so far), suggests a continued cautious overweight to U.S. equities

Market Peaks	P/E Ratio	+ 10-Year Treasury Yield	+ Commentary	=	Valuation	Rates	Economy / Geopolitical Shock
7/15/1957	12.0x	3.9%	Bigger than average correction following a strong bull market. U.S. enters a moderate recession.				
12/12/1961	16.9x	4.0%	High valuations and political stress following failed Bay of Pigs invasion of Cuba				
2/9/1966	13.1x	4.7%	Fed tightening to fight rising inflation despite opposition from the Johnson Administration. Growth slows sharply but recession avoided				
11/29/1968	17.5x	5.8%	Very high valuations in the era of the nifty fifty. Signs that the economy is overheating due to Vietnam and social spending				
1/5/1973	15.4x	6.4%	Moderate valuations but in an environment of rising inflation and interest rates and rising political tension (Watergate).				
11/28/1980	10.7x	12.7%	Federal funds rate on path to 20% as Volker fights inflation and economy heads towards second recession				
8/25/1987	16.1x	8.7%	Multiples had expanded rapidly and interest rates had risen in lead-up to 1987 crash although the economy was fine both before and after				
3/24/2000	32.5x	6.2%	Bubble Valuations, interest rates at average levels, economic downdraft from the end of pre Y2K spending				
10/9/2007	18.4x	4.7%	P/Es above average, interest rates at average levels, subprime crisis increasing				
4/29/2014	15.5x	2.7%	P/Es a little above average, interest rates very low, steady economic expansion				

Source: BEA, Federal Reserve Board, J.P. Morgan Asset Management.

P/E ratio shown as ratio of market value of all U.S. corporations to adjusted after-tax corporate profits for prior four quarters. Daily prices are J.P. Morgan Asset Management estimate based on the daily value of the Wilshire 5000 Total Market Index.

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Global Purchasing Managers' Index for Manufacturing

	May'12	Jun'12	Jul'12	Aug'12	Sep'12	Oct'12	Nov'12	Dec'12	Jan'13	Feb'13	Mar'13	Apr'13	May'13	Jun'13	Jul'13	Aug'13	Sep'13	Oct'13	Nov'13	Dec'13	Jan'14	Feb'14	Mar'14	Apr'14
Global	50.0	49.5	48.6	48.6	48.7	48.9	49.6	50.1	51.4	50.8	51.0	50.2	50.4	50.4	50.6	51.5	51.6	51.9	52.9	53.0	53.0	53.2	52.4	-
U.S.	54.0	52.5	51.4	51.5	51.1	51.0	52.8	54.0	55.8	54.3	54.6	52.1	52.3	51.9	53.7	53.1	52.8	51.8	54.7	55.0	53.7	57.1	55.5	55.4
Canada	54.7	54.8	53.0	53.0	52.4	51.4	50.4	50.4	50.5	51.7	49.3	50.1	53.2	52.4	52.0	52.1	54.2	55.6	55.3	53.5	51.7	52.9	53.3	-
U.K.	46.9	48.9	45.6	49.2	48.0	47.8	48.1	50.5	50.9	48.0	49.9	50.9	52.3	53.1	54.8	57.3	56.4	56.1	58.0	56.9	56.3	56.2	55.3	-
Euro Area	45.1	45.1	44.0	45.1	46.1	45.4	46.2	46.1	47.9	47.9	46.8	46.7	48.3	48.8	50.3	51.4	51.1	51.3	51.6	52.7	54.0	53.2	53.0	53.3
Germany	45.2	45.0	43.0	44.7	47.4	46.0	46.8	46.0	49.8	50.3	49.0	48.1	49.4	48.6	50.7	51.8	51.1	51.7	52.7	54.3	56.5	54.8	53.7	54.2
France	44.7	45.2	43.4	46.0	42.7	43.7	44.5	44.6	42.9	43.9	44.0	44.4	46.4	48.4	49.7	49.7	49.8	49.1	48.4	47.0	49.3	49.7	52.1	50.9
Italy	44.8	44.6	44.3	43.6	45.7	45.5	45.1	46.7	47.8	45.8	44.5	45.5	47.3	49.1	50.4	51.3	50.8	50.7	51.4	53.3	53.1	52.3	52.4	-
Spain	42.0	41.1	42.3	44.0	44.5	43.5	45.3	44.6	46.1	46.8	44.2	44.7	48.1	50.0	49.8	51.1	50.7	50.9	48.6	50.8	52.2	52.5	52.8	-
Greece	43.1	40.1	41.9	42.1	42.2	41.0	41.8	41.4	41.7	43.0	42.1	45.0	45.3	45.4	47.0	48.7	47.5	47.3	49.2	49.6	51.2	51.3	49.7	-
Ireland	51.2	53.1	53.9	50.9	51.8	52.1	52.4	51.4	50.3	51.5	48.6	48.0	49.7	50.3	51.0	52.0	52.7	54.9	52.4	53.5	52.8	52.9	55.5	-
Australia	42.4	47.2	40.3	45.3	43.0	42.8	44.3	44.3	40.2	45.6	44.4	36.7	43.8	49.6	42.0	46.4	51.7	53.2	47.7	47.6	46.7	48.6	47.9	-
Japan	50.7	49.9	47.9	47.7	48.0	46.9	46.5	45.0	47.7	48.5	50.4	51.1	51.5	52.3	50.7	52.2	52.5	54.2	55.1	55.2	56.6	55.5	53.9	-
China	48.4	48.2	49.3	47.6	47.9	49.5	50.5	51.5	52.3	50.4	51.6	50.4	49.2	48.2	47.7	50.1	50.2	50.9	50.8	50.5	49.5	48.5	48.0	48.3
Indonesia	48.1	50.2	51.4	51.6	50.5	51.9	51.5	50.7	49.7	50.5	51.3	51.7	51.6	51.0	50.7	48.5	50.2	50.9	50.3	50.9	51.0	50.5	50.1	-
Korea	51.0	49.4	47.2	47.5	45.7	47.4	48.2	50.1	49.9	50.9	52.0	52.6	51.1	49.4	47.2	47.5	49.7	50.2	50.4	50.8	50.9	49.8	50.4	-
Taiwan	50.5	49.2	47.5	46.1	45.6	47.8	47.4	50.6	51.5	50.2	51.2	50.7	47.1	49.5	48.6	50.0	52.0	53.0	53.4	55.2	55.5	54.7	52.7	-
India	54.8	55.0	52.9	52.8	52.8	52.9	53.7	54.7	53.2	54.2	52.0	51.0	50.1	50.3	50.1	48.5	49.6	49.6	51.3	50.7	51.4	52.5	51.3	-
Brazil	49.3	48.5	48.7	49.3	49.8	50.2	52.2	51.1	53.2	52.5	51.8	50.8	50.4	50.4	48.5	49.4	49.9	50.2	49.7	50.5	50.8	50.4	50.6	-
Mexico	55.2	55.9	55.2	55.1	54.4	55.5	55.6	57.1	55.0	53.4	52.2	51.7	51.8	51.3	49.7	50.8	50.0	50.2	51.9	52.6	54.0	52.0	51.7	-
Russia	53.2	51.0	52.0	51.0	52.4	52.9	52.2	50.0	52.0	52.0	50.8	50.6	50.4	51.7	49.2	49.4	49.4	51.8	49.4	48.8	48.0	48.5	48.3	-

Source: Markit, J.P. Morgan Global Economic Research, 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. April figures for U.S., Euro Area, Germany, France and China are Markit Flash estimates. For the remaining countries, the figures are J.P. Morgan Global Economics Research forecasts.

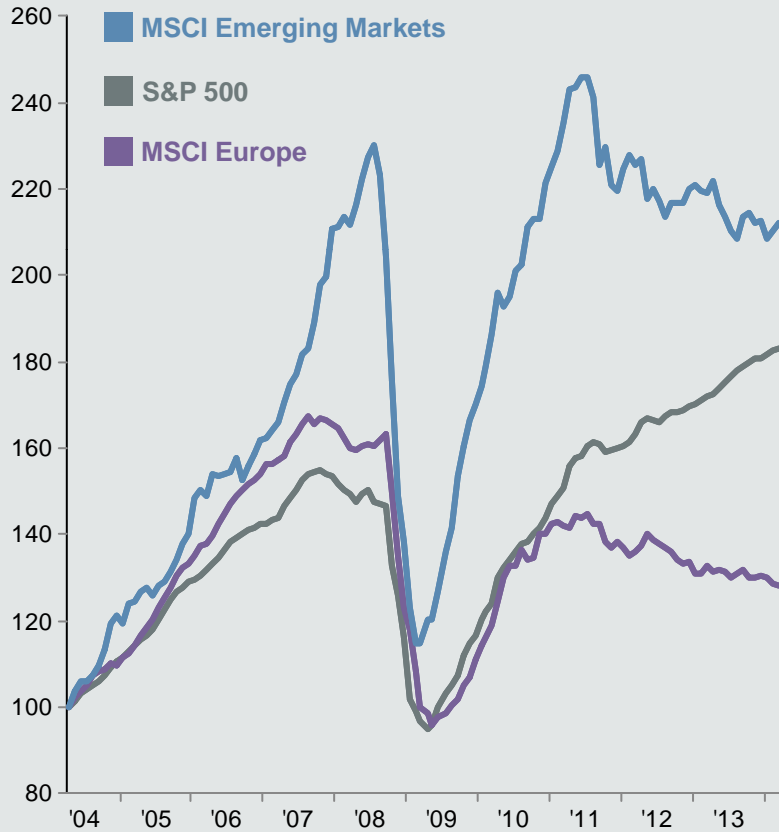
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Data are as of 4/29/14.

# International equities have room to rise

## From earnings catching up...

EPS for next 12-month consensus, local currency, rebased to 100



## ...and multiples expanding

P/E ratios for next 12-month consensus EPS

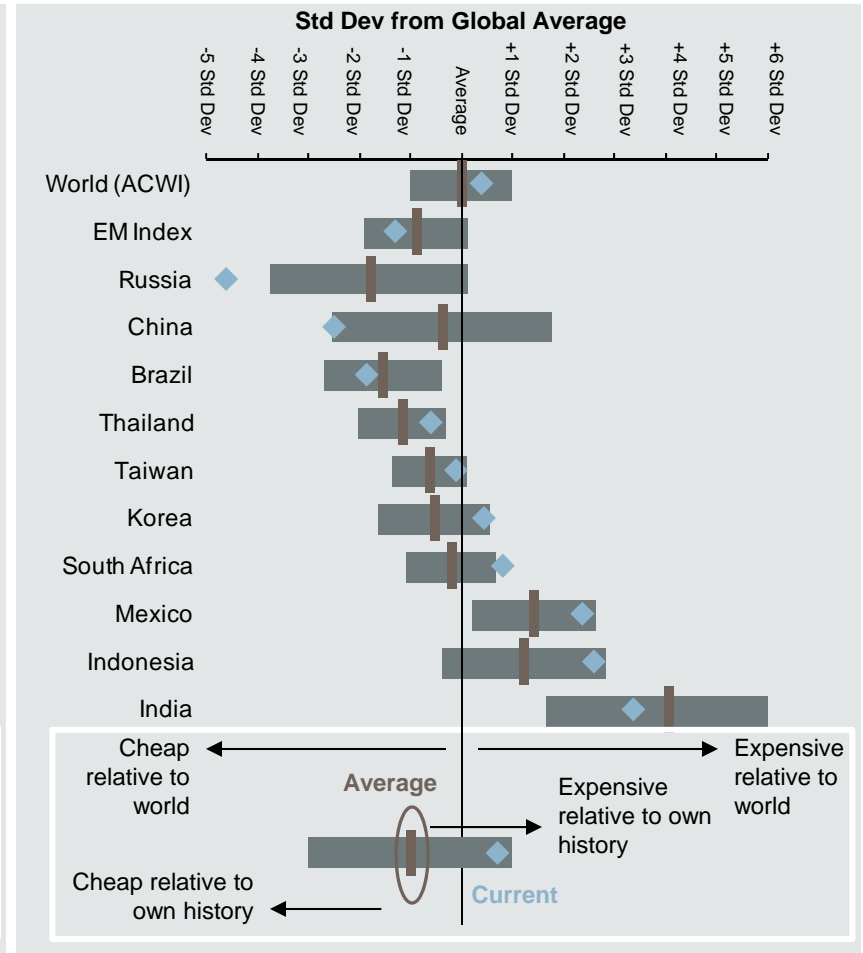
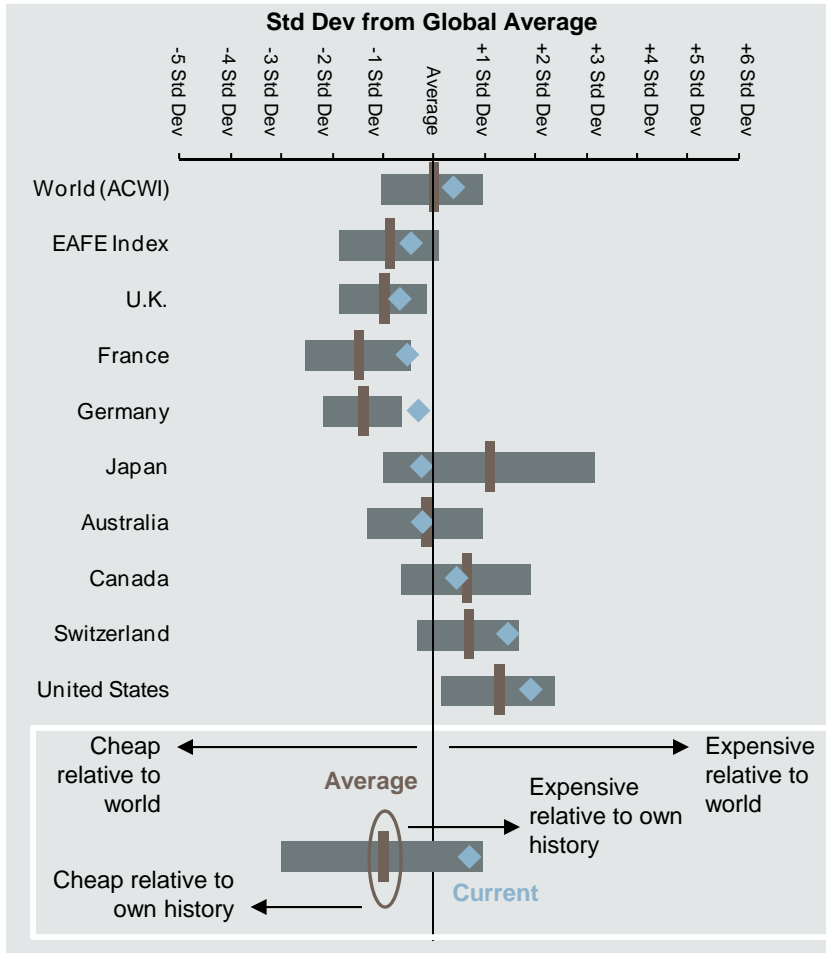


Source: MSCI, FactSet, J.P. Morgan Asset Management.

Data are as of 4/29/14.



# As always, differentiating among international markets is critical



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

Note: Each valuation index shows an equally weighted composite of four metrics: price to forward earnings (Fwd. P/E), price to current book (P/B), price to last 12 months' cash flow (P/CF) and price to last 12 months' dividends. Results are then normalized using means and average variability over the last 10 years. The grey bars represent valuation index variability relative to that of the MSCI All Country World Index (ACWI). See disclosures page at the end for metric definitions.

Guide to the Markets – U.S.

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# 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.

The **S&P 500 Index** is widely regarded as the best single gauge of the U.S. equities market. This world-renowned index includes a representative sample of 500 leading companies in leading industries of the U.S. economy. Although the S&P 500 Index focuses on the large-cap segment of the market, with approximately 75% coverage of U.S. equities, it is also an ideal proxy for the total market. An investor cannot invest directly in an index.

The **S&P 400 Mid Cap Index** is representative of 400 stocks in the mid-range sector of the domestic stock market, representing all major industries.

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

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 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 **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 Top 200 Index**® measures the performance of the largest cap segment of the U.S. equity universe. It includes approximately 200 of the largest securities based on a combination of their market cap and current index membership and represents approximately 68% of the U.S. market.

The **MSCI® EAFE (Europe, Australia, Far East) Net Index** is recognized as the pre-eminent benchmark in the United States to measure international equity performance. It comprises 21 MSCI country indexes, representing the developed markets outside of North America.

The **MSCI Emerging Markets Index**SM is a free float-adjusted market capitalization index that is designed to measure equity market performance in the global emerging markets. As of June 2007, the MSCI Emerging Markets Index consisted of the following 25 emerging market country indices: Argentina, Brazil, Chile, China, Colombia, Czech Republic, Egypt, Hungary, India, Indonesia, Israel, Jordan, Korea, Malaysia, Mexico, Morocco, Pakistan, Peru, Philippines, Poland, Russia, South Africa, Taiwan, Thailand, and Turkey.

The **MSCI ACWI (All Country World Index) Index** is a free float-adjusted market capitalization weighted index that is designed to measure the equity market performance of developed and emerging markets. As of June 2009 the MSCI ACWI consisted of 45 country indices comprising 23 developed and 22 emerging market country indices.

The **MSCI Small Cap Indices**SM target 40% of the eligible Small Cap universe within each industry group, within each country. MSCI defines the Small Cap universe as all listed securities that have a market capitalization in the range of USD200-1,500 million.

The **MSCI Value and Growth Indices**SM cover the full range of developed, emerging and All Country MSCI Equity indexes. As of the close of May 30, 2003, MSCI implemented an enhanced methodology for the MSCI Global Value and Growth Indices, adopting a two dimensional framework for style segmentation in which value and growth securities are categorized using different attributes - three for value and five for growth including forward-looking variables. The objective of the index design is to divide constituents of an underlying MSCI Standard Country Index into a value index and a growth index, each targeting 50% of the free float adjusted market capitalization of the underlying country index. Country Value/Growth indices are then aggregated into regional Value/Growth indices. Prior to May 30, 2003, the indices used Price/Book Value (P/BV) ratios to divide the standard MSCI country indices into value and growth indices. All securities were classified as either "value" securities (low P/BV securities) or "growth" securities (high P/BV securities), relative to each MSCI country index.

The following **MSCI Total Return Indices**SM are calculated with gross dividends:

This series approximates the maximum possible dividend reinvestment. The amount reinvested is the dividend distributed to individuals resident in the country of the company, but does not include tax credits.

The **MSCI Europe Index**SM is a free float-adjusted market capitalization index that is designed to measure developed market equity performance in Europe. As of June 2007, the MSCI Europe Index consisted of the following 16 developed market country indices: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

The **MSCI Pacific Index**SM is a free float-adjusted market capitalization index that is designed to measure equity market performance in the Pacific region. As of June 2007, the MSCI Pacific Index consisted of the following 5 Developed Market countries: Australia, Hong Kong, Japan, New Zealand, and Singapore.

**Credit Suisse/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 **NCREIF Property Index** is a quarterly time series composite total rate of return measure of investment performance of a very large pool of individual commercial real estate properties acquired in the private market for investment purposes only. All properties in the NPI have been acquired, at least in part, on behalf of tax-exempt institutional investors - the great majority being pension funds. As such, all properties are held in a fiduciary environment.

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 **Dow Jones Industrial Average** measures the stock performance of 30 leading blue-chip U.S. companies.

The **Dow Jones-UBS Commodity Index** is 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.

# 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.**

The **S&P GSCI Index** is a composite index of commodity sector returns representing an unleveraged, long-only investment in commodity futures that is broadly diversified across the spectrum of commodities. The returns are calculated on a fully collateralized basis with full reinvestment. Individual components qualify for inclusion in the index on the basis of liquidity and are weighted by their respective world production quantities.

The **Barclays Capital U.S. Aggregate Index** represents securities that are SEC-registered, taxable, and dollar denominated. The index covers the U.S. investment grade fixed rate bond market, with index components for government and corporate securities, mortgage pass-through securities, and asset-backed securities. These major sectors are subdivided into more specific indexes that are calculated and reported on a regular basis.

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

**West Texas Intermediate (WTI)** is the underlying commodity for the New York Mercantile Exchange's oil futures contracts.

The **Barclays Capital High Yield Index** covers the universe of fixed rate, non-investment grade debt. Pay-in-kind (PIK) bonds, Eurobonds, and debt issues from countries designated as emerging markets (e.g., Argentina, Brazil, Venezuela, etc.) are excluded, but Canadian and global bonds (SEC registered) of issuers in non-EMG countries are included. Original issue zeroes, step-up coupon structures, and 144-As are also included.

The **Barclays Capital 1-3 Month U.S. Treasury Bill Index** includes all publicly issued zero-coupon U.S. 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 Capital General Obligation Bond Index** is a component of the **Barclays Capital Municipal Bond Index**. To be included in the index, bonds must be general obligation bonds rated investment-grade (Baa3/BBB- or higher) by at least two of the following ratings agencies: Moody's, S&P, Fitch. If only two of the three agencies rate the security, the lower rating is used to determine index eligibility. If only one of the three agencies rates a security, the rating must be investment-grade. They must have an outstanding par value of at least \$7 million and be issued as part of a transaction of at least \$75 million. The bonds must be fixed rate, have a dated-date after December 31, 1990, and must be at least one year from their maturity date. Remarketed issues, taxable municipal bonds, bonds with floating rates, and derivatives, are excluded from the benchmark.

The **Barclays Capital Revenue Bond Index** is a component of the **Barclays Capital Municipal Bond Index**. To be included in the index, bonds must be revenue bonds rated investment-grade (Baa3/BBB- or higher) by at least two of the following ratings agencies: Moody's, S&P, Fitch. If only two of the three agencies rate the security, the lower rating is used to determine index eligibility. If only one of the three agencies rates a security, the rating must be investment-grade. They must have an outstanding par value of at least \$7 million and be issued as part of a transaction of at least \$75 million. The bonds must be fixed rate, have a dated-date after December 31, 1990, and must be at least one year from their maturity date. Remarketed issues, taxable municipal bonds, bonds with floating rates, and derivatives, are excluded from the benchmark.

The **Barclays High Yield Municipal Index** includes bonds rated Ba1 or lower or non-rated bonds using the middle rating of Moody's, S&P and Fitch.

The **Barclays Capital Taxable Municipal Bond Index** is a rules-based, market-value weighted index engineered for the long-term taxable bond market. To be included in the index, bonds must be rated investment-grade (Baa3/BBB- or higher) by at least two of the following ratings agencies if all three rate the bond: Moody's, S&P, Fitch. If only two of the three agencies rate the security, the lower rating is used to determine index eligibility. If only one of the three agencies rates a security, the rating must be investment-grade. They must have an outstanding par value of at least \$7 million and be issued as part of a transaction of at least \$75 million. The bonds must be fixed rate and must be at least one year from their maturity date. Remarketed issues (unless converted to fixed rate), bonds with floating rates, and derivatives, are excluded from the benchmark.

**Municipal Bond Index:** To be included in the index, bonds must be rated investment-grade (Baa3/BBB- or higher) by at least two of the following ratings agencies: Moody's, S&P, Fitch. If only two of the three agencies rate the security, the lower rating is used to determine index eligibility. If only one of the three agencies rates a security, the rating must be investment-grade. They must have an outstanding par value of at least \$7 million and be issued as part of a transaction of at least \$75 million. The bonds must be fixed rate, have a dated-date after December 31, 1990, and must be at least one year from their maturity date. Remarketed issues, taxable municipal bonds, bonds with floating rates, and derivatives are excluded from the benchmark.

The **Barclays Capital Emerging Markets Index** includes USD-denominated debt from emerging markets in the following regions: Americas, Europe, Middle East, Africa, and Asia. As with other fixed income benchmarks provided by Barclays Capital, the index is rules-based, which allows for an unbiased view of the marketplace and easy replicability.

The **Barclays Capital MBS Index** covers the mortgage-backed pass-through securities of Ginnie Mae, Fannie Mae, and Freddie Mac. Aggregate components must have a weighted average maturity of at least one year, must have \$250 million par amount outstanding, and must be fixed rate mortgages.

The **Barclays Capital Corporate Bond Index** is the Corporate component of the U.S. Credit index.

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

The **J.P. Morgan EMBI Global Index** 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 **CS/Tremont Equity Market Neutral Index** takes both long and short positions in stocks with the aim of minimizing exposure to the systematic risk of the market (i.e., a beta of zero).

The **CS/Tremont Multi-Strategy Index** consists of funds that allocate capital based on perceived opportunities among several hedge fund strategies. Strategies adopted in a multi-strategy fund may include, but are not limited to, convertible bond arbitrage, equity long/short, statistical arbitrage and merger arbitrage.

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

\*Market Neutral returns for November 2008 are estimates by J.P. Morgan Funds Market Strategy, and are based on a December 8, 2008 published estimate for November returns by CS/Tremont in which the Market Neutral returns were estimated to be +0.85% (with 69% of all CS/Tremont constituents having reported return data). Presumed to be excluded from the November return are three funds, which were later marked to \$0 by CS/Tremont in connection with the Bernard Madoff scandal. J.P. Morgan Funds believes this distortion is not an accurate representation of returns in the category. CS/Tremont later published a finalized November return of -40.56% for the month, reflecting this mark-down. CS/Tremont assumes no responsibility for these estimates.

# J.P. Morgan Asset Management – Definitions, Risks & Disclosures

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

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.

**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.

**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.

**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.

**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. Also, some overseas markets may not be as politically and economically stable as the United States and other nations.

Investments in **emerging markets** can be more volatile. As mentioned above, 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.

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

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.

**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.

**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.

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. Investing 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.

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 substrategies. 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.

**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.

**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.

**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.

**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.

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

The **Cambridge Associates LLC U.S. Private Equity Index®** is an end-to-end calculation based on data compiled from 1,052 U.S. private equity funds (buyout, growth equity, private equity energy and mezzanine funds), including fully liquidated partnerships, formed between 1986 and 2013.

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.

# 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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**Past performance is no guarantee of comparable future results.**

**Diversification does not guarantee investment returns and does not eliminate the risk of loss.**

Prepared by: Joseph S. Taniou, Andrés Garcia-Amaya, Anastasia V. Amoroso, James C. Liu, Brandon D. Odenath, Gabriela D. Santos, Anthony M. Wile and David P. Kelly.

Unless otherwise stated, all data are as of March 31, 2014 or most recently available.

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