

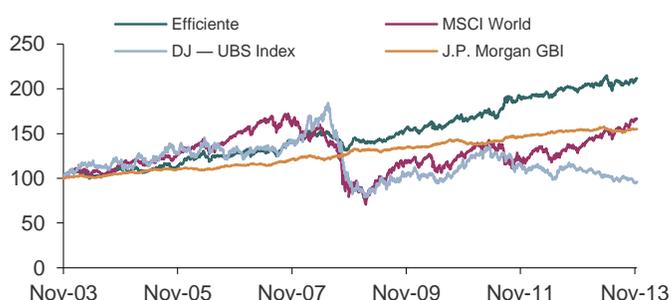
# J.P. Morgan Efficiente (USD) Index

## Performance Update - November 2013

### OVERVIEW

The JPMorgan Efficiente (USD) Index (the "Index") is a proprietary J.P. Morgan strategy that seeks to generate returns through the selection of up to nine indices based on the modern portfolio theory approach to asset allocation.

### Hypothetical and Actual Historical Performance - November 28, 2003 to November 29, 2013<sup>1</sup>

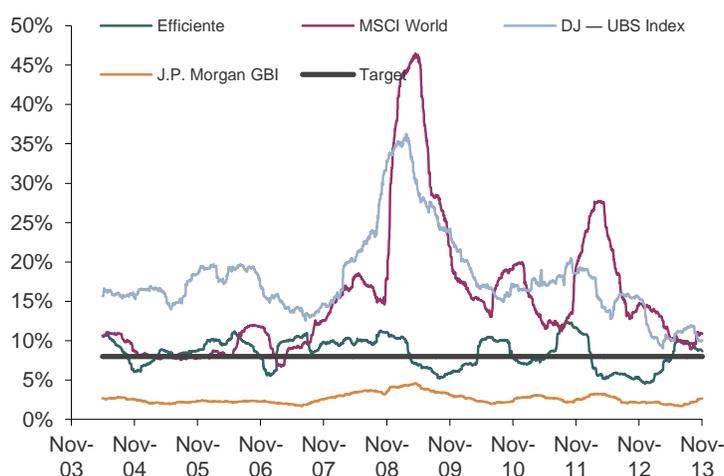


### Key Features of the Index

Synthetic investment in developed equity, emerging markets, alternative investments and global debt;  
 Dynamic exposure to a synthetic portfolio that is rebalanced quarterly pursuant to a rules-based methodology with a targeted annualized volatility of 8% or less;  
 Algorithmic portfolio construction intended to address momentum and correlation across markets;  
 Levels published on Bloomberg under the ticker EFJPUS8E.



### Hypothetical and Actual Historical Volatility – November 28, 2003 to November 29, 2013<sup>2</sup>



### Recent Index Performance

	November 2013	October 2013	September 2013
Historical Return <sup>1</sup>	1.38%	1.26%	1.17%

### Recent Index Composition ("Basket Constituents")<sup>3</sup>

	MSCI North America Index	MSCI Europe Gross TR Index	MSCI Pacific Gross TR Index	MSCI Emerging Markets TR Index	GPR/JPM Global Property Index	JPMorgan EMBI Plus Comp	DJ-UBS Com'dity Index	JPM Global Bond Index	JPMorgan Cash Index USD 3M
October - December 2013	25.0%	25.0%	0.0%	15.0%	0.0%	0.0%	0.0%	0.0%	35.0%
July - September 2013	25.0%	0.0%	25.0%	0.0%	15.0%	0.0%	0.0%	0.0%	35.0%

## Comparative Hypothetical and Historical Total Returns (%), Volatility (%) and Correlation – November 29, 2013

	Annualized Return <sup>1</sup>	Annualized Return <sup>1</sup>	Annualized Return <sup>1</sup>	Annualized Volatility <sup>4</sup>	Ten Year Sharpe Ratio <sup>5</sup>	Ten Year Correlation <sup>6</sup>
Efficiente Index	8.8%	9.1%	7.8%	8.6%	0.902	100.0%
MSCI World Index	10.9%	12.8%	5.3%	17.3%	0.304	38.4%
Dow Jones — UBS Commodity Index	-5.1%	1.1%	-0.4%	18.6%	-0.022	1.1%
J.P. Morgan Global Bond Index (USD Hedged)	3.4%	3.6%	4.5%	2.7%	1.668	8.7%

### Notes

<sup>1</sup> Represents the performance of the Index based on, as applicable to the relevant measurement period, the hypothetical backtested weekly Index closing levels from November 28, 2003 through June 29, 2007, and the actual historical performance of the Index based on the weekly Index closing level from July 6, 2007 through November 29, 2013, as well as the performance of the MSCI World Index ("MSCI World"), the Dow Jones – UBS Commodity Index<sup>SM</sup> ("DJ-UBS") and the JPMorgan GBI (USD Hedged) Global Bond Index ("JPM GBI") over the same period. For the purpose of the chart illustrated on page 1, each index was set equal to 100 on January 31, 2002. For calculations of recent performance table on page 1 and comparison of hypothetical and historical performance table on page 2 actual index levels have been used. There is no guarantee of any future performance for these three indices based on this information. Source: Bloomberg and JPMorgan.

<sup>2</sup> Calculated from the historical returns, as applicable to the relevant measurement period, of the indices over a six-month observation period. For any given day, represents the annualized standard deviation of each index's arithmetic daily returns for the 126-index day period preceding that day. The back-tested, hypothetical, historical six-month annualized volatility has inherent limitations. These volatility results were achieved by means of a retroactive application of a back-tested volatility model designed with the benefit of hindsight. No representation is made that in the future the Index, the MSCI World, DJ-UBS and JPM GBI will have the volatilities as shown above or that the Index will outperform any alternative investment strategy. Alternative modeling techniques or assumptions might produce significantly different results and may prove to be more appropriate. Actual six-month annualized volatilities may vary materially from this analysis. Source: Bloomberg and JPMorgan.

<sup>3</sup> On a quarterly basis (each January, April, July, and October), J.P. Morgan Securities Ltd., or JPMSL, acting as the Index calculation agent, will rebalance the Index to take synthetic long positions in the Basket Constituents based on mathematical rules that govern the Index and track the returns of the synthetic portfolio above cash. The weights for each Basket Constituent will be adjusted to comply with certain allocation constraints, including constraints on individual Basket Constituents, as well as the individual sectors.

<sup>4</sup> Calculated based on the annualized standard deviation for the ten year period prior to November 29, 2013

<sup>5</sup> For the above analysis, the Sharpe Ratio, which is a measure of risk-adjusted performance, is computed as the ten year annualized historical return divided by the ten year annualized volatility.

<sup>6</sup> Correlation refers to the degree the applicable index has changed relative to daily changes in the JPMorgan Efficiente (USD) Index.

### Key Risks

- There are risks associated with a momentum-based investment strategy. Efficiente is different from a strategy that seeks long-term exposure to a portfolio consisting of constant components with fixed weights. The Index may fail to realize gains that could occur from holding assets that have experienced price declines, but experience a sudden price spike thereafter.
- Correlation of performances among the Basket Constituents may reduce the performance of the Index amongst the Basket Constituents. High correlation during periods of negative returns among Basket Constituents representing any one sector or asset type which have a substantial weighting in the Index could have a material adverse effect on the performance of the Strategy.
- Our affiliate, JPMSL, is the Calculation Agent and may adjust the Index in a way that affects its level. The policies and judgments for which JPMSL is responsible could have an impact, positive or negative, on the level of the Index and the value of your investment. JPMSL is under no obligation to consider your interest as an investor in securities linked to the Index.
- The Index may not be successful, may not outperform any alternative strategy related to the Basket Constituents, or may not achieve its target volatility of 8%.
- The investment strategy involves quarterly rebalancing and maximum weighting caps applied to the Basket Constituents by asset type and geographical region.
- Changes in the value of the Basket Constituents may offset each other.
- An investment linked to the Index is subject to risks associated with non-U.S. securities markets, such as emerging markets and currency exchange risk.
- The Index was established on July 2, 2007 and has a limited operating history.

*The risks identified above are not exhaustive. You should also review carefully the related "Risk Factors" section in the relevant product supplement and the "Selected Risk Considerations" in the relevant term sheet or pricing supplement.*

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### Index Disclaimers

"Dow Jones<sup>SM</sup>", "UBS", "Dow Jones-UBS Commodity Index Excess Return<sup>SM</sup>", "Dow Jones-UBS Commodity Index<sup>SM</sup>", and "DJ-UBS<sup>SM</sup>" are service marks of Dow Jones & Company, Inc. and UBS Securities LLC ("UBS"), as the case may be, and have been licensed for use for certain purposes by JPMorgan Chase & Co. JPMorgan Chase & Co's securities based on the Dow Jones-UBS Commodity Index Total Return<sup>SM</sup>, are not sponsored, endorsed, sold or promoted by Dow Jones, UBS, or any of their respective subsidiaries or affiliates, and none of Dow Jones, UBS, or any of their respective subsidiaries or affiliates, makes any representation regarding the advisability of investing in such product(s). The MSCI indices are the exclusive property of MSCI Inc. ("MSCI"). "MSCI" and the MSCI index names are service mark(s) of MSCI or its affiliates and have been licensed for use for certain purposes by J.P. Morgan Chase & Co. (the "Licensee"). The financial securities referred to herein are not sponsored, endorsed, or promoted by MSCI, and MSCI bears no liability with respect to any such financial securities. No purchaser, seller or holder of this product, or any other person or entity, should use or refer to any MSCI trade name, trademark or service mark to sponsor, endorse, market or promote this product without first contacting MSCI to determine whether MSCI's permission is required. Under no circumstances may any person or entity claim any affiliation with MSCI without the prior written permission of MSCI.

For more information on the Index and for additional key risk information see Page 9 the Strategy Guide at [http://www.sec.gov/Archives/edgar/data/19617/000095010312000085/crt-dp28033\\_fwp.pdf](http://www.sec.gov/Archives/edgar/data/19617/000095010312000085/crt-dp28033_fwp.pdf)