MORGAN CREEK

ALTERNATIVE THINKING ABOUT INVESTMENTS



The 10 Potential Surprises of 2016 Update in the Back Stretch May 2016

Definition, Disclaimer & Qualifier

Definition: A Surprise is a Variant Perception (an idea that is materially different from Consensus) that I believe has a better than 50% chance of occurring in the current year.

Disclaimer: I have intentionally not read any of the other lists of 2016 Surprises (most importantly Byron's), so any similarity between the Surprises in this presentation and any of those predictions is coincidental or evidence (if they match the Blackstone list) that there was some channeling actually going on...

Qualifier: There is much wisdom about the folly of prediction (some on next page) and it would probably have been wise to decline the request to produce this list... That said, the process of thinking about Variant Perceptions and Scenarios is valuable to our investment process and it was actually kind of fun to spend some extra time thinking outside the box (or even better, thinking like there was no box...).

Words of Wisdom

"Making predictions is hard, especially about the future..."

Yogi Berra

"The financial markets generally are unpredictable. So that one has to have different scenarios... The idea that you can actually predict what's going to happen contradicts my way of looking at the market."

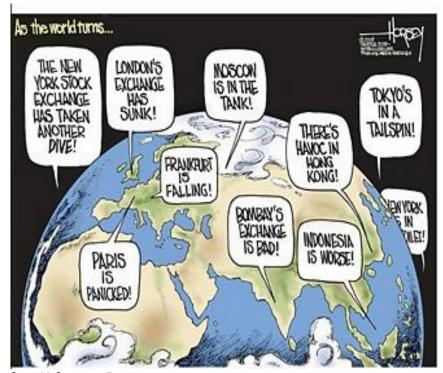
George Soros

"Those who have knowledge, don't predict. Those who predict, don't have knowledge."

Lao Tzu

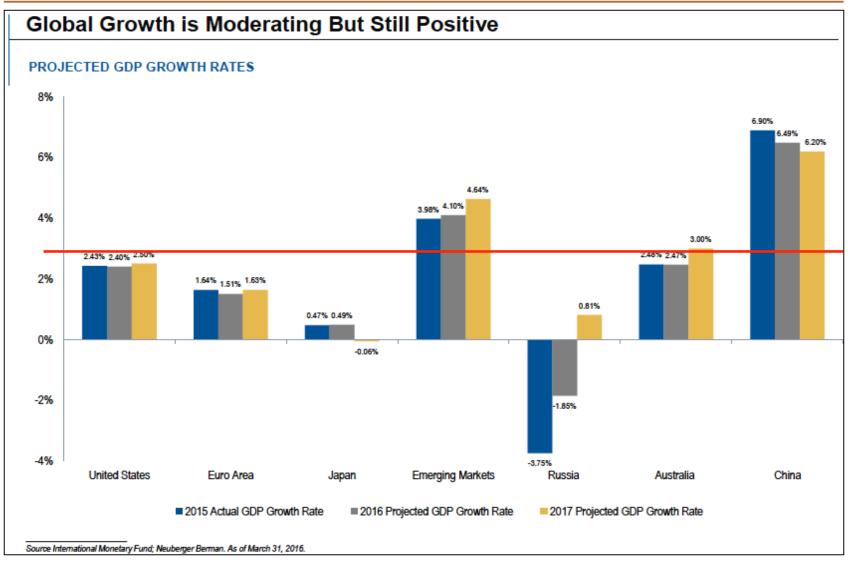
There Goes The Boom...

Despite massive Central Bank stimulus programs around the world, economic growth continues to surprise to the downside as the rising costs of aging populations weighs on the Developed Markets. One (or more) of the U.S., Europe and Japan slip into Recession and global interest rates continue to plumb new lows.

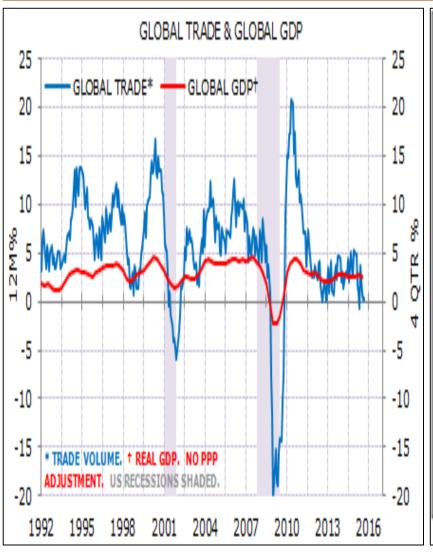


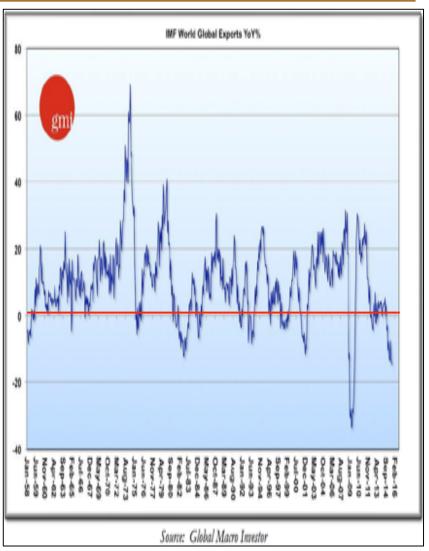
Source(s): Conservapedia.com

Dev Mkt GDP Growth in Secular Decline Due to Killer D's



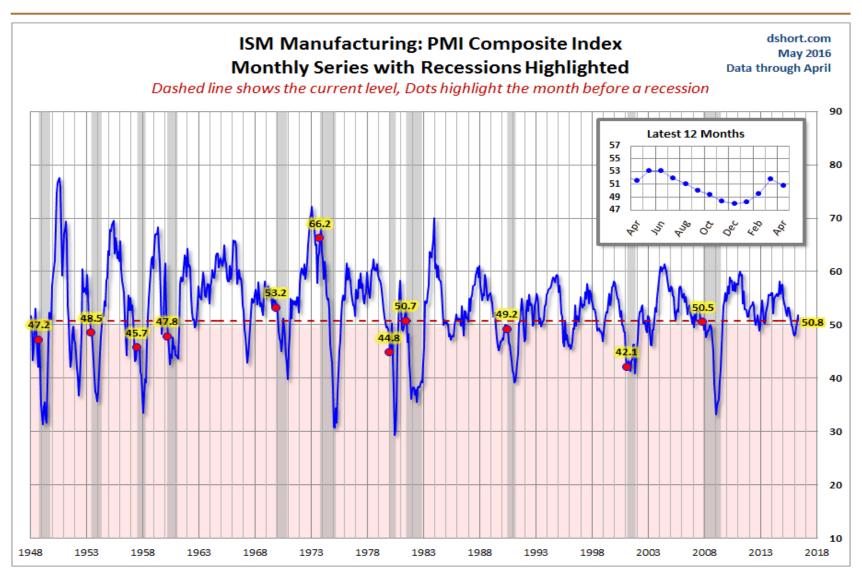
Global Trade & Global Exports Flat => Global Recession?





Source(s): EurekaReport.com, Global Macro Investor

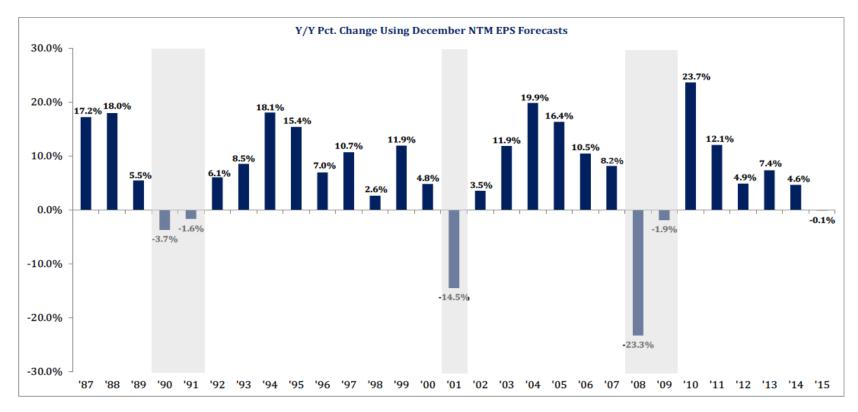
US Manufacturing Bordering on Contraction; Recession?



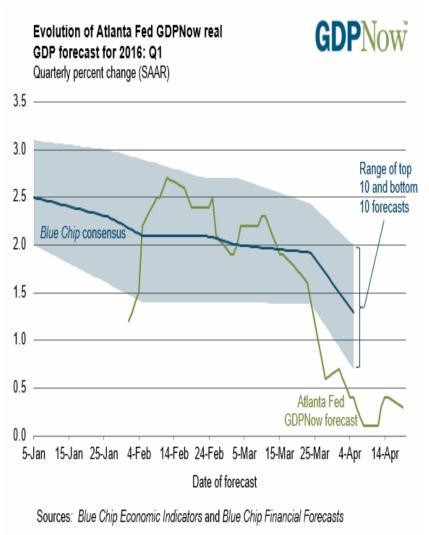
Source(s): AdvisorPerspectives.com

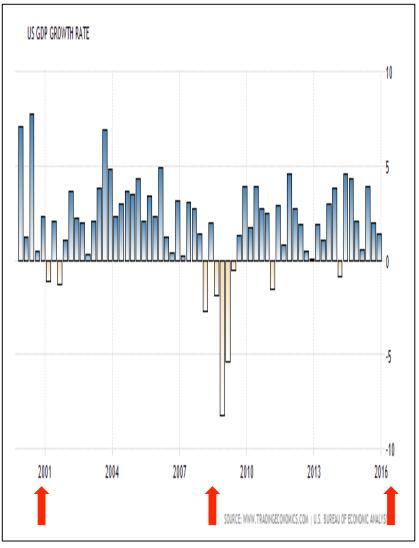
Negative NTM S&P 500 Forward EPS Signals Recession

Looking at the year over year percentage change in the consensus next twelve-month earnings estimate as of the end of December suggests that in years when the change is negative, a recession occurs. As of the end of 2015, that percentage change is -0.1%. If you looked at this at the beginning of 1991, you did not believe that the economy was in recession either however when all was said and done it was determined that we were. Is this the situation that we are in today? Only time will tell.



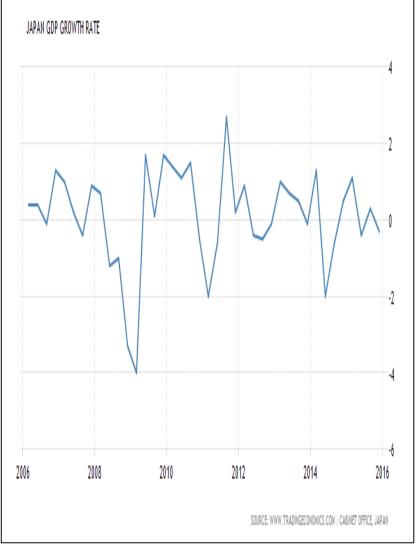
Q1 '16 GDP Quite Disappointing, Business Cycle Lives





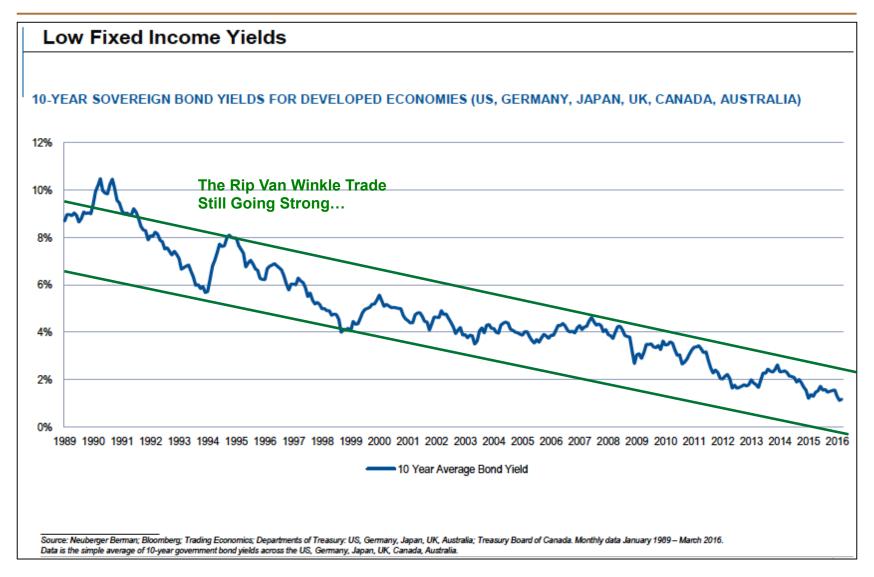
Europe/Japan Economies Right on Edge of a Recession





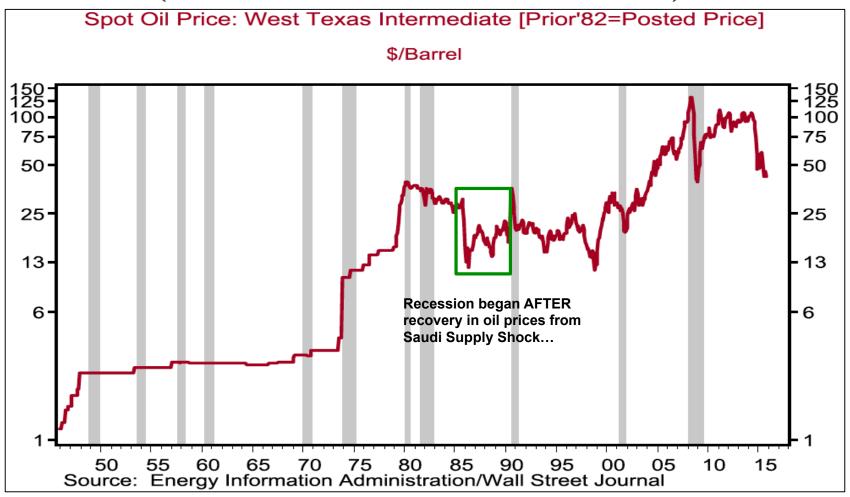
Source(s): Neuberger Berman, TradingEconomics.com

Long Bonds Saying Deflation Larger Risk Than Inflation

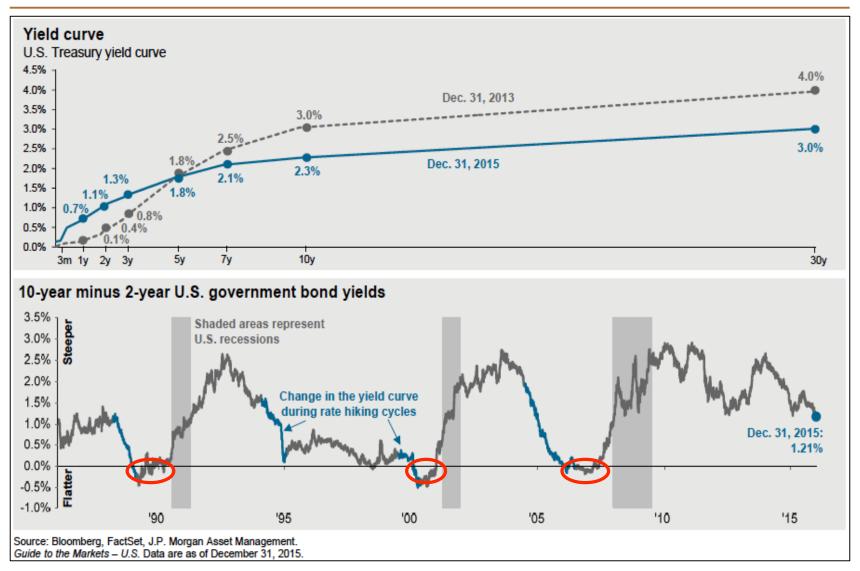


Spoiler #1 to Recession Surprise is Oil Prices Being Low

FALLING OIL PRICES DON'T LEAD TO A U.S. RECESSION (IT'S RISING OIL PRICES THAT DO THIS).

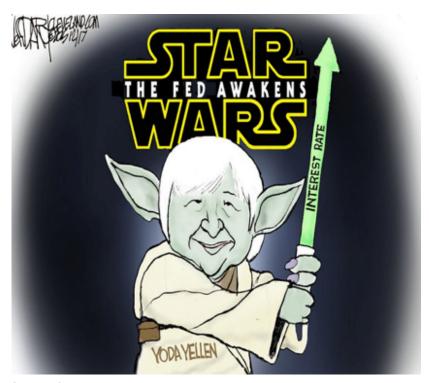


Spoiler #2 to Recession Surprise is Lack of Inverted YC



Two Wrongs Won't Make It Right

After trying to flex their muscles by raising rates in December, the Fed realizes the (policy) error of their ways, acknowledges that they missed the window to raise rates in 2013 and puts further increases to the Fed Funds rate on hold for 2016. In a total about face, discussions of QE IV begin in the 2H of the year as economic growth continues to disappoint.



Source(s): Cleveland.com

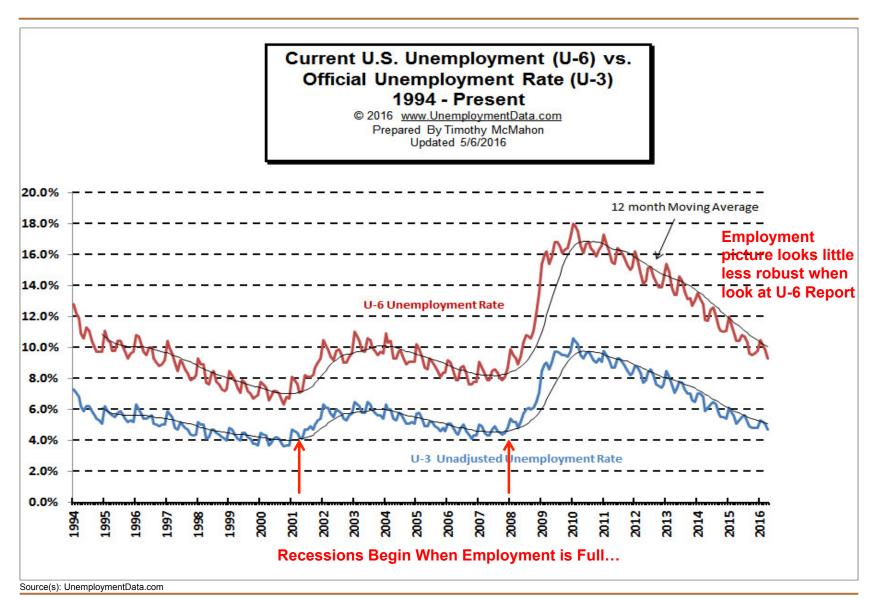
QEeen Janet or Lucy: Will the Real Ms. Yellen Stand Up



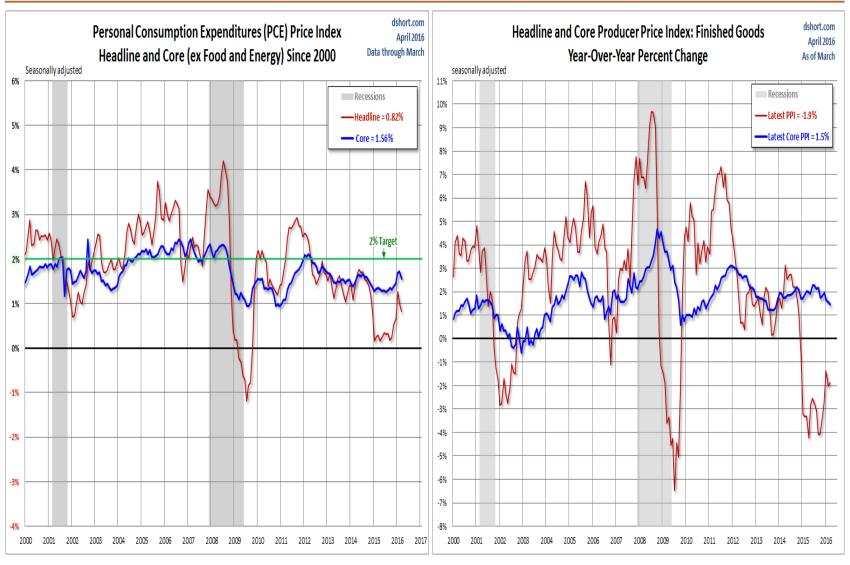
"The committee anticipates that it will be appropriate to raise the target range for the federal funds rate when it has seen *further improvement in the labor market* and is *reasonably confident that inflation will move back to its two percent objective* over the medium term."

Fed Open Market Committee

Fed Objective #1 Employment: Mission Accomplished?



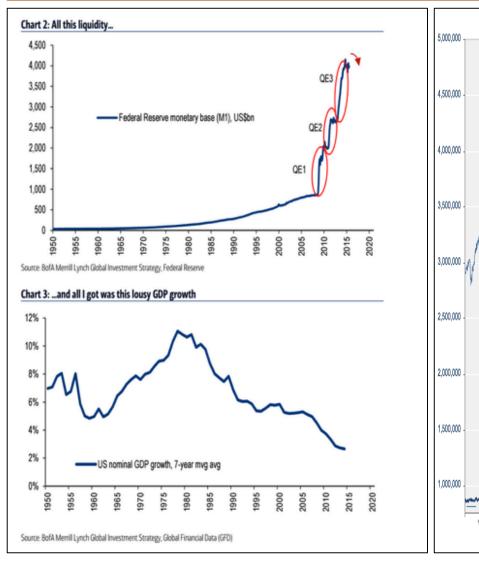
Fed Objective #2 Inflation: Not Looking Good, Way Short

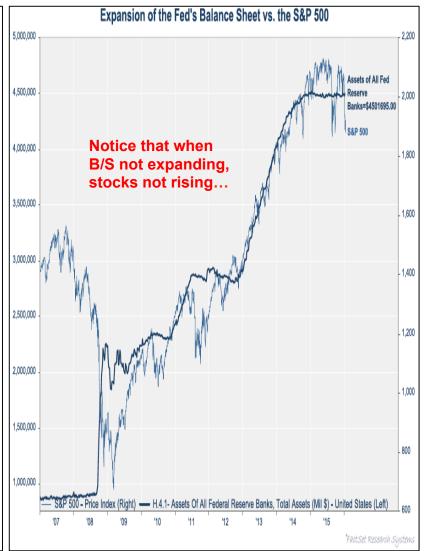


Inflation Expectations Still Below Previous QE Triggers



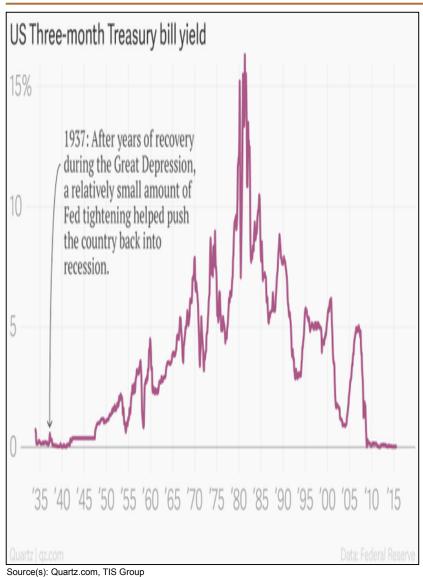
Huge QE Stimulus No Impact on GDP, Big Impact on S&P

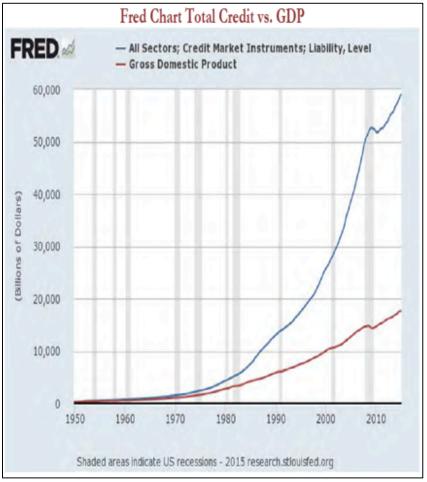




Source(s): BofAML, Raymond James

Tried to Leave ZIRP in '37, Bad Outcome: Lost Control?





The Fed's unwillingness to move away from ZIRP seems to us to be an acknowledgement that the speculation they created is now somewhat out of their control. While the gap in the following chart has steadily risen, the quality of the credit in the blue line has steadily degraded.

Surprise #3 Save Us Kuroda-san, You're Our Only Hope

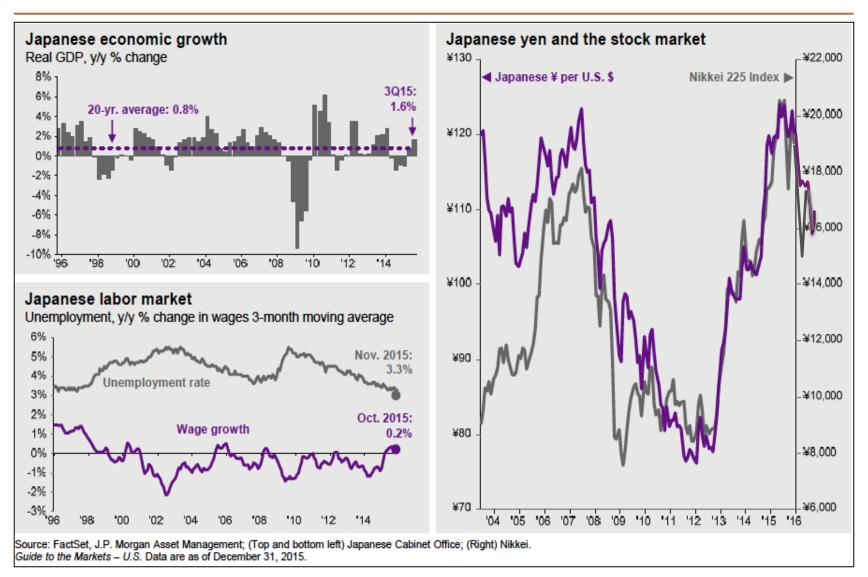
BOJ Governor Kuroda surprises everyone at the end of the Japan Fiscal Year and pulls out another bazooka to weaken the Yen and stimulate the economy and markets. The Yen falls dramatically, with USDJPY hitting 135. Corporate profits surge to new record highs and Japanese equities rally hard, finishing the year at 21,000.





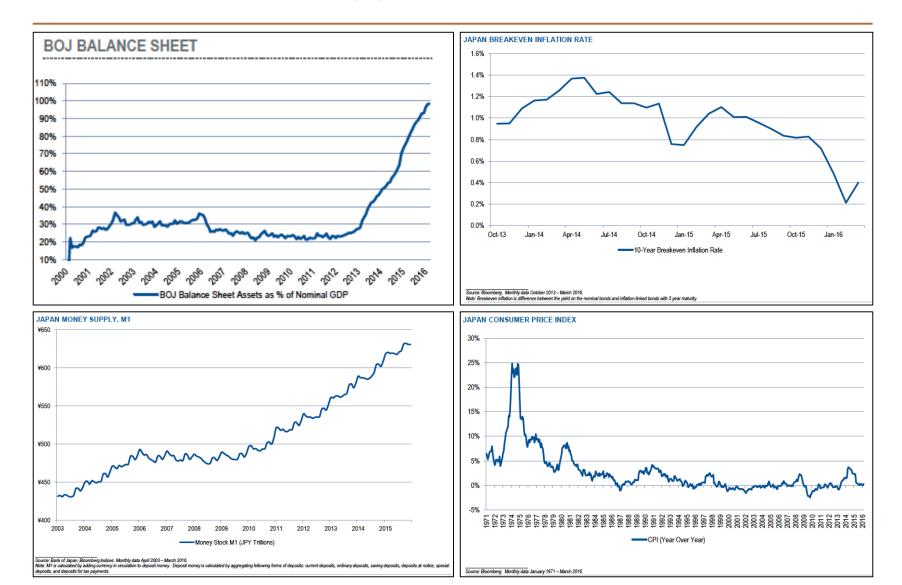
Source(s): JapanTimes

Abenomics? Yen Rising?, GDP, Wages & Stocks Falling?



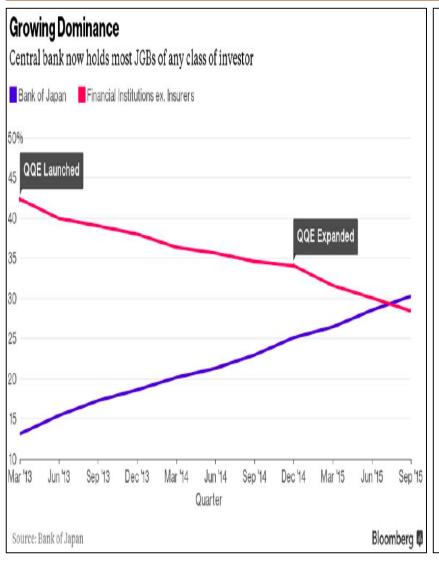
Source(s): JPMorgan

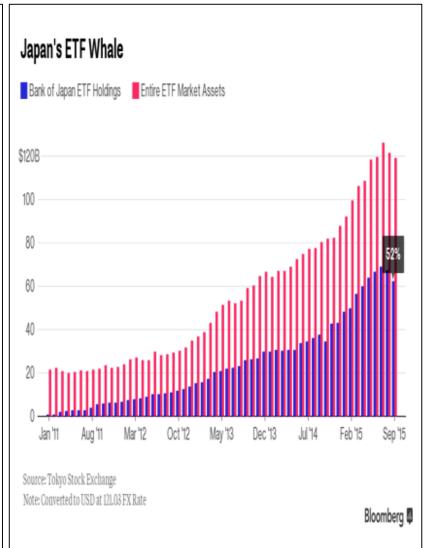
BOJ Commitment to QQE Was Cornerstone of Abenomics



Source(s): Neuberger Berman

Risk to Abenomics Plan; BOJ Owns Big % JGBs & ETFs





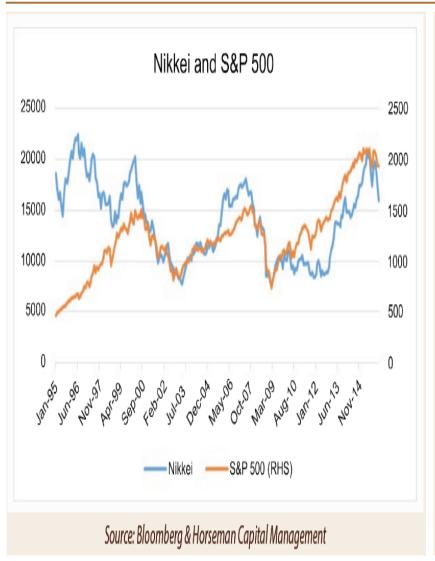
Source(s): Bloomberg

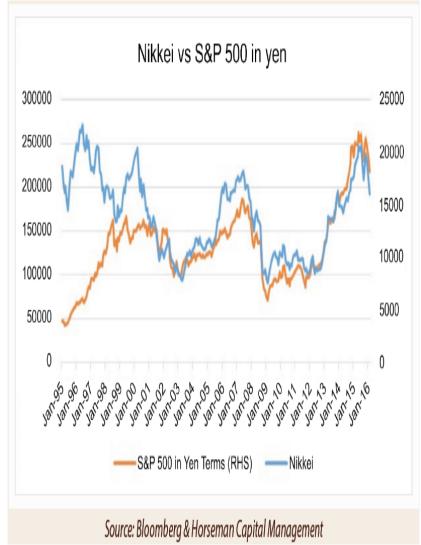
Kuroda-san Shocks World w/ NIRP on 1/29, Yen Soars...



Source(s): StockCharts.com

Potential Problem is Nikkei Tends to Lead S&P 500 Down





Source(s): 13d Research

Surprise #4

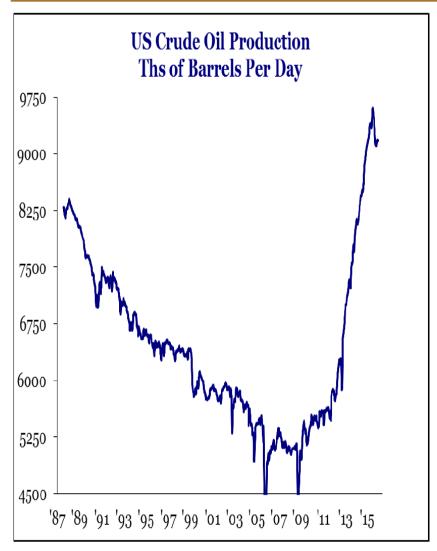
Saudi Is Not Fracking Around

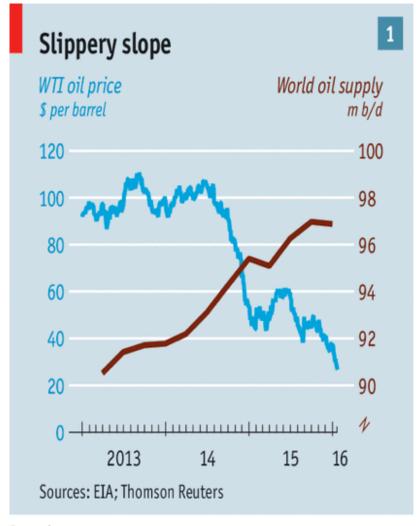
Realizing the end of the Hydrocarbon Era is approaching more rapidly than anticipated, Saudi abdicates their role as swing producer within OPEC and recommits to maximizing their production and grabbing market share. The resumption of Iran oil trading and short-term storage concerns push the market into steep Contango in Q1 and oil hits a multi-decade low in the 20's, but in the 2H of the year the impact of cap-ex cuts and production declines push prices back toward \$50.



Source(s): Economist.com

QE Fueled U.S. Production Explosion, Prices Collapsed

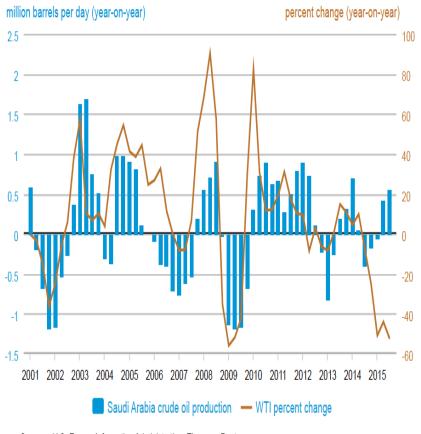




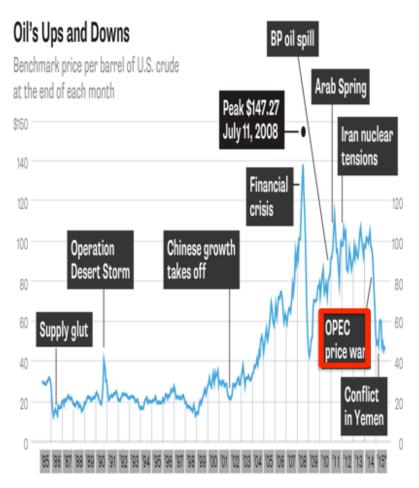
Economist.com

Saudi Abdicated Swing Role on Thanksgiving Day in 2014

Changes in Saudi Arabia crude oil production can affect oil prices

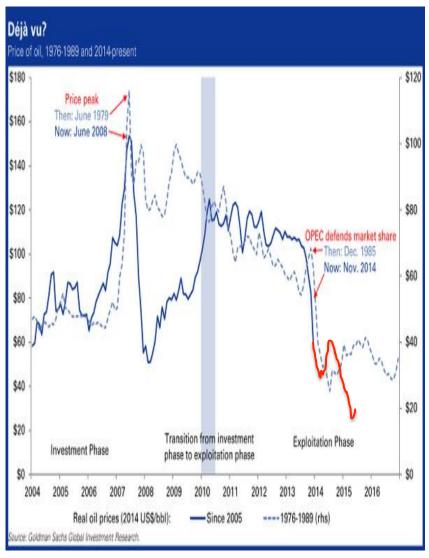


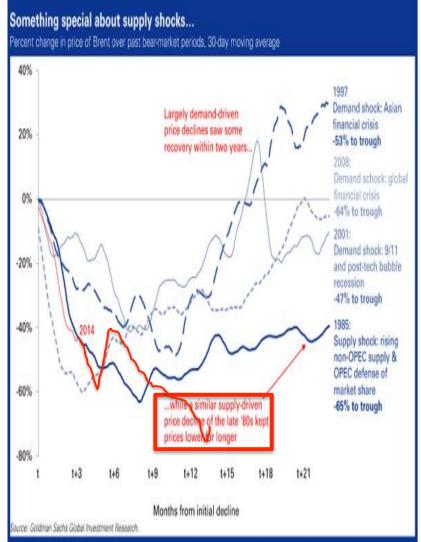
Sources: U.S. Energy Information Administration, Thomson Reuters



*Final figure for 2015 is end of October

Supply Shocks Are Very Different From Demand Shocks



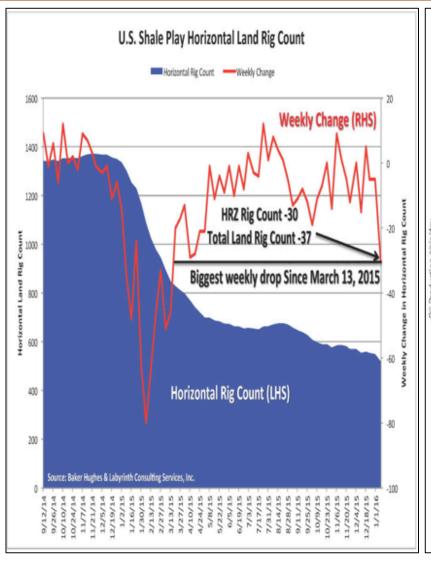


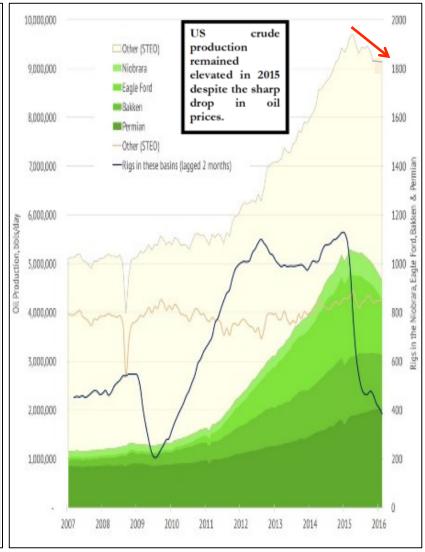
Source(s): ShaneObata, GS Research

All The Talk About Saudi Production Overshadows Iraq



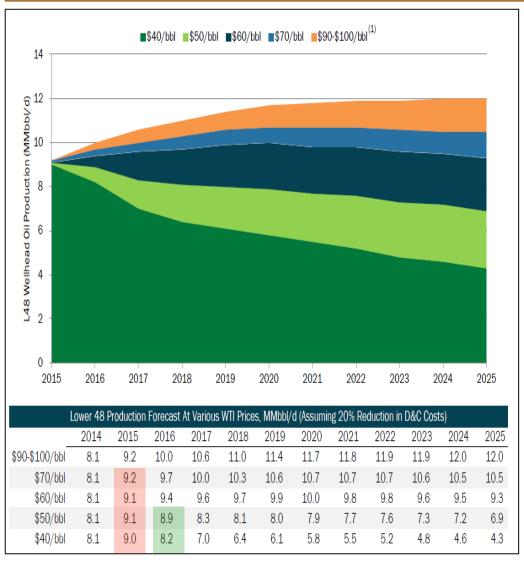
U.S. Rig Count Has Collapsed, Production Finally Rolled

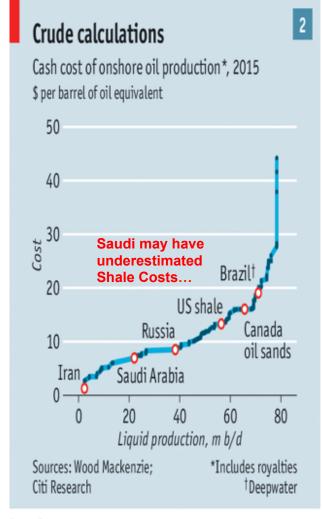




Source(s): Baker Hughes, OilPrice.com

Hedges Roll Off, Production Will Drop w/o Higher Prices

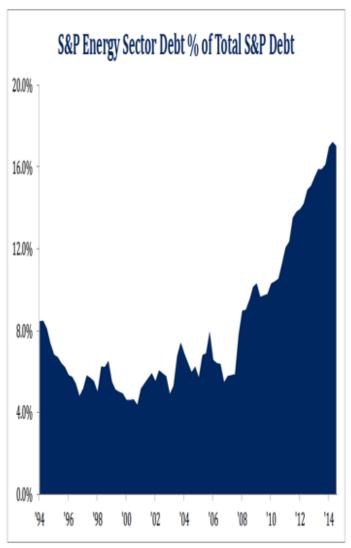


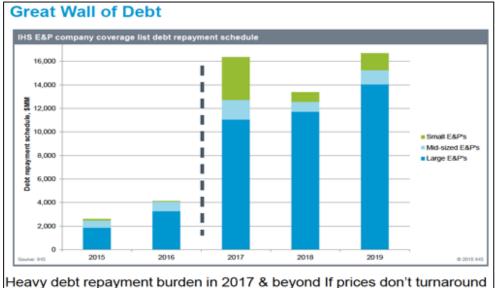


Economist.com

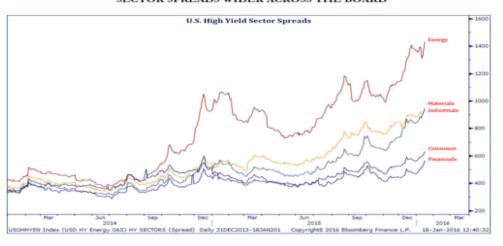
Source(s): ITG, Economist.com.

Debt Fueled Oil Boom Could Turn Into a Bust... in 2017?





SECTOR SPREADS WIDER ACROSS THE BOARD

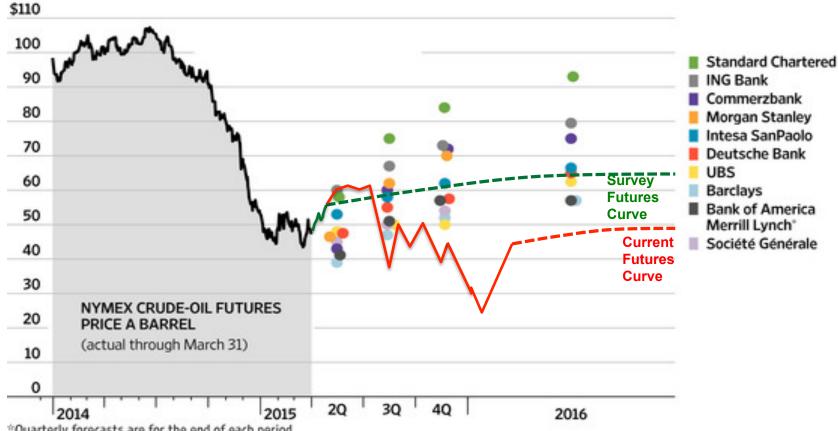


Source(s): Strategas, HIS Energy

Most Banks Saw 2Q15 Drop & Gradual Recovery: Oops

Looking Ahead at Oil Prices

Where investment banks see the price of Nymex-traded crude-oil futures; as of March 2015

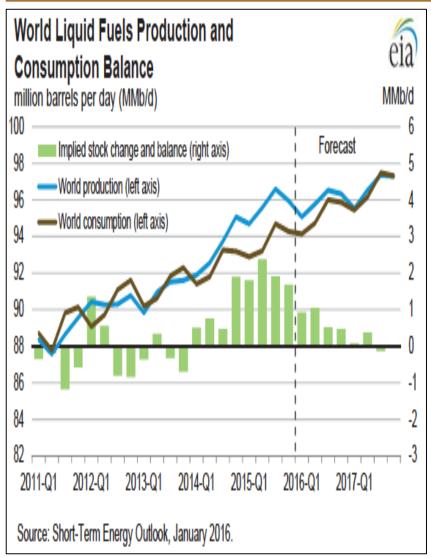


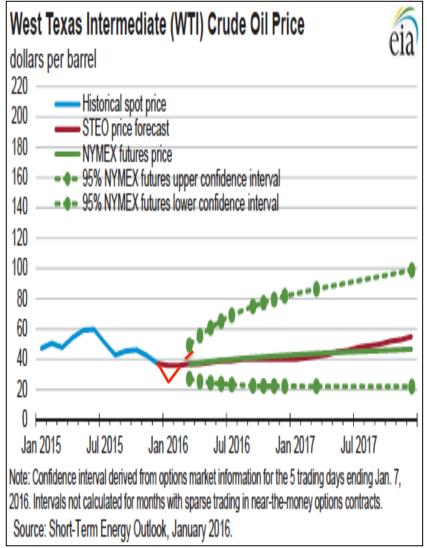
*Quarterly forecasts are for the end of each period.

Source: WSJ Market Data Group (crude prices); the companies

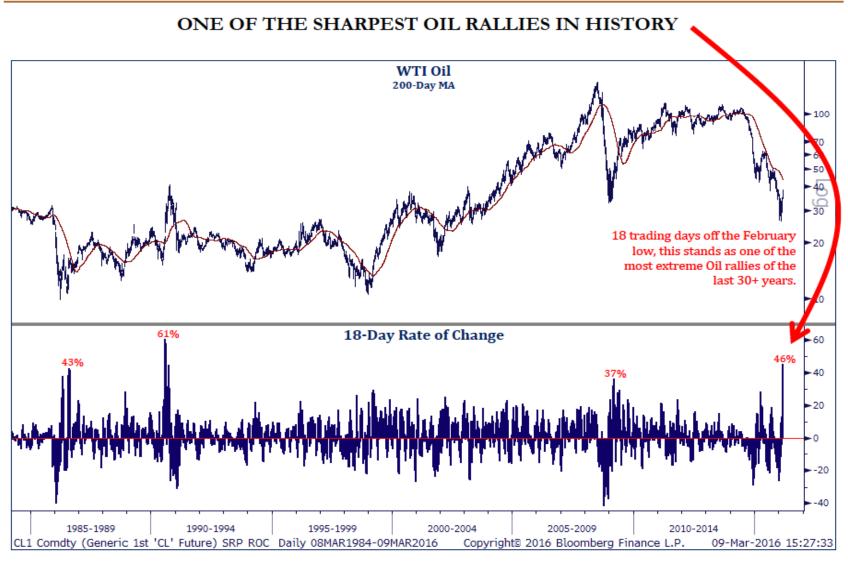
THE WALL STREET JOURNAL.

EIA Forecasts Supply Shrinkage & No Price Response?

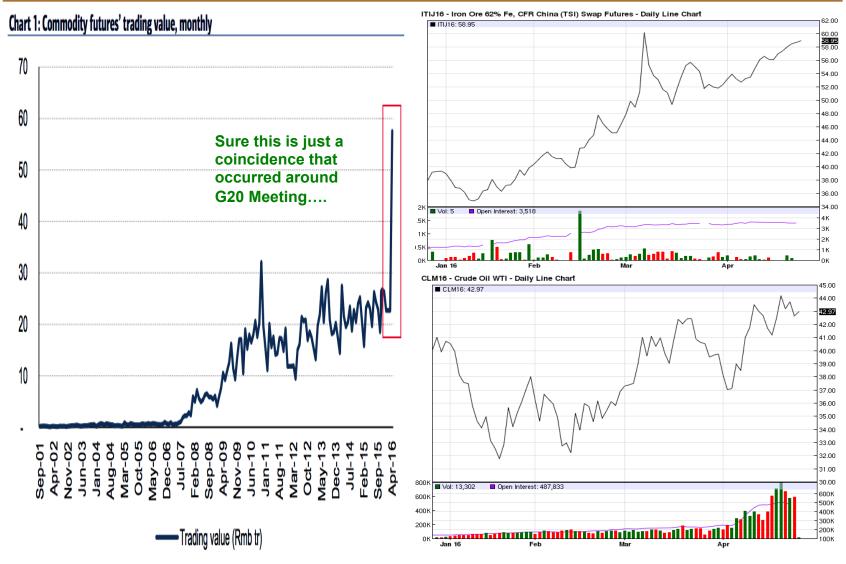




Oil Rally From OPEC Production Rumor Extremely Sharp



Surge in Chinese Futures Trading = Commodity Spike



Recovery in Overleveraged Sectors Takes a Long Time

HISTORY SAYS REPAIR TIME WILL TAKE YEARS FOR ENERGY



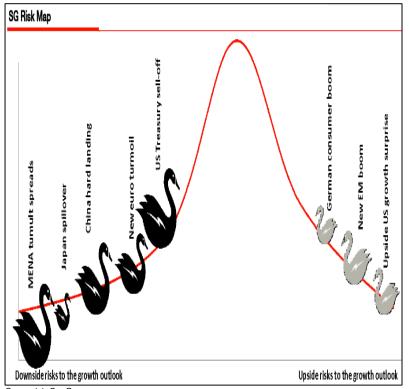




Source(s): Strategas

The Black Swan Alights in Europe

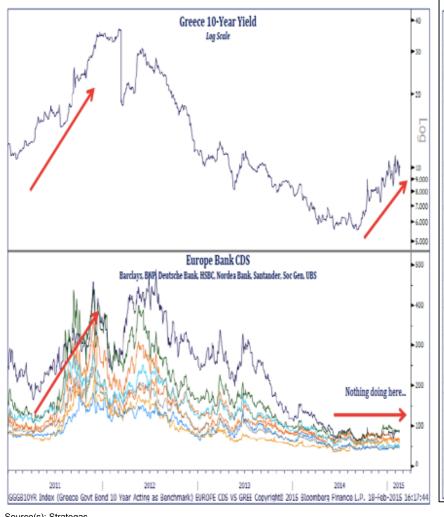
The relentless bear market in commodities since 2011 comes to a head with a messy bankruptcy of one (or more) commodity trading companies (Glencore, Trafigura, Vitol, Nobel Group, Mercuria). The resulting unwind of complex derivatives positions causes huge losses within the European banks, pushing one, or more, of them to the brink of insolvency.



Source(s): SocGen

Despite Grexit Fears, No Euro Bank Credit Stress in 2015

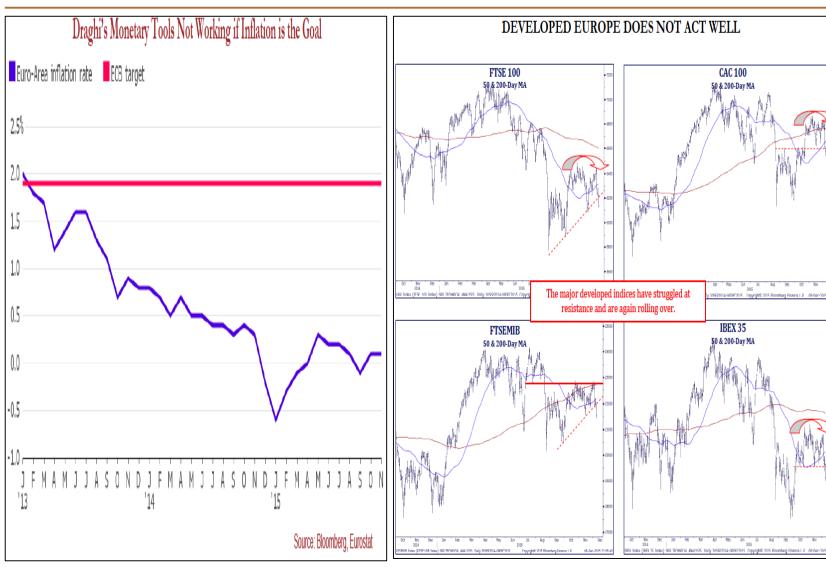
DESPITE GREEK ANXIETY, EURO BANK CREDIT REMAINS IN CHECK





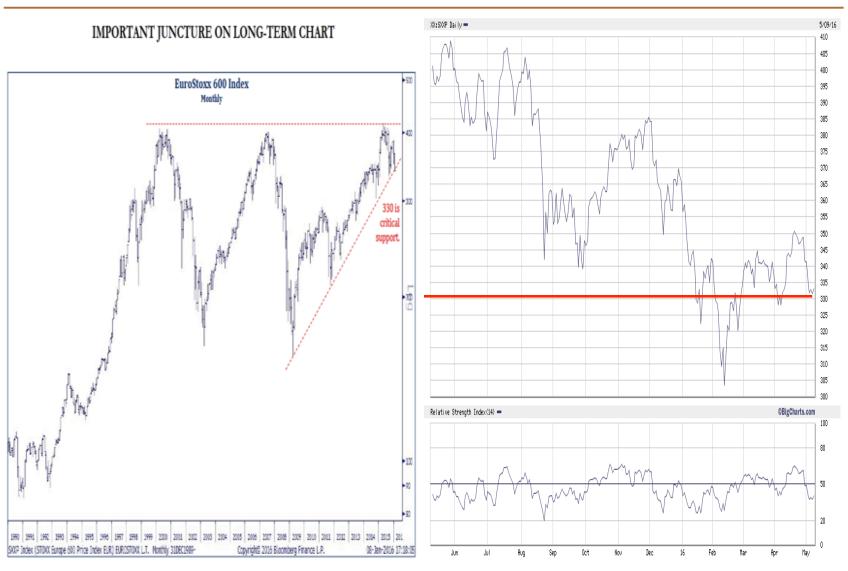
Source(s): Strategas

ECB Stimulus; But No Inflation; Markets Fear Deflation?



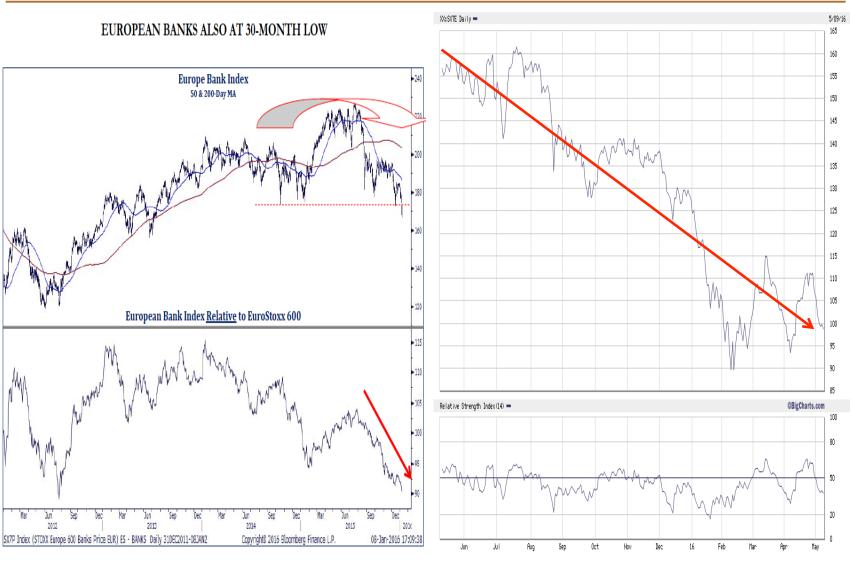
Source(s): TIS Group, Strategas

European Equities Breaking Down in '16, at Critical Point



Source(s): Strategas, Bigcharts.com

European Banks Suddenly Making Significant Lows



Source(s): Strategas, Bigcharts.com

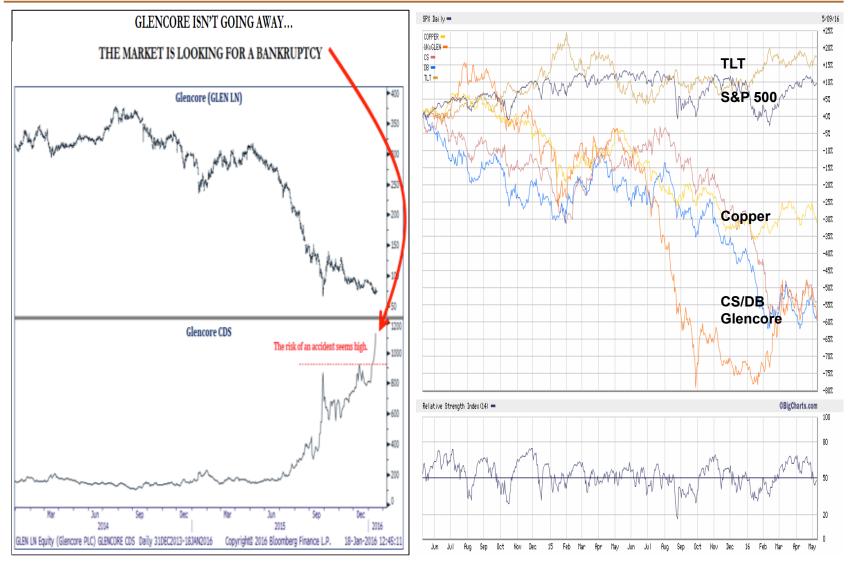
Dr. Copper Sick: Growthpocalypse OR Structural Unwind?

COPPER OVERBOUGHT & REVERSING AT RESISTANCE



Source(s): Strategas

Copper Trading Damage at Glencore? Not Going Away?



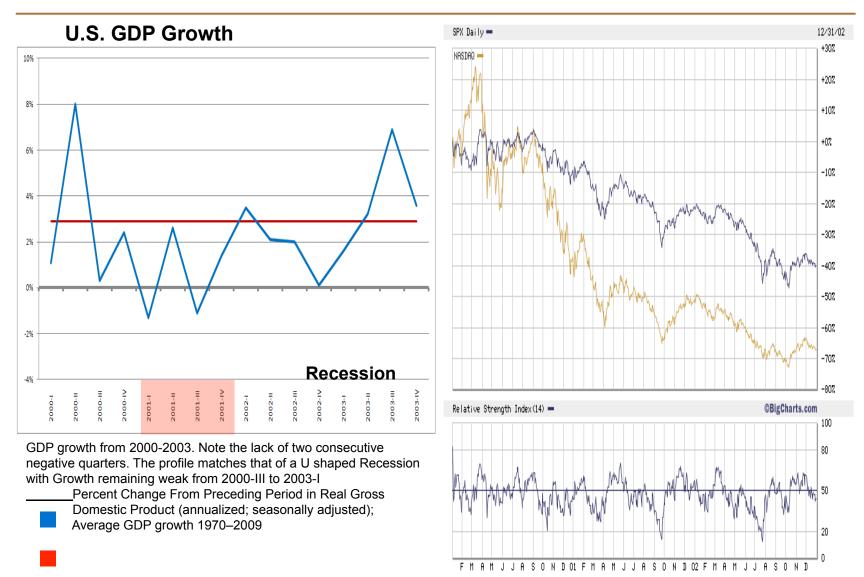
Source(s): Bigcharts.com

The U.S. economy and equity markets have entered a challenging period resembling the unwinding of the Tech Bubble from April 2000 to April 2003 and 2016 closely resembles 2001 with the S&P 500 down in the low teens. Economic growth falters, corporate profits fall and equities begin a relentless decline that will last through the end of 2017.

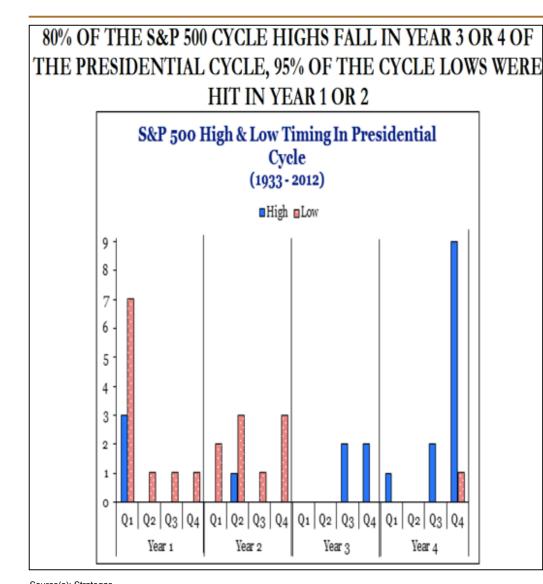


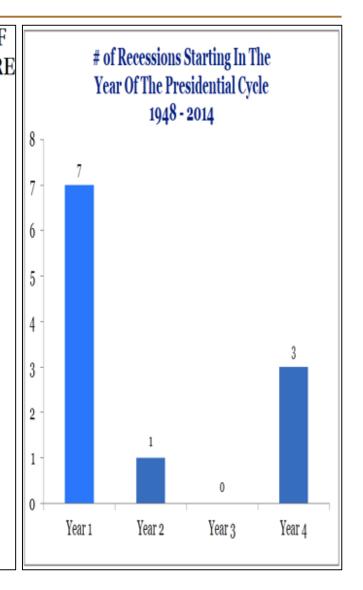
Source(s): MerckInvestments.com

2001 Recession Was Shallow, But Had Big Market Impact



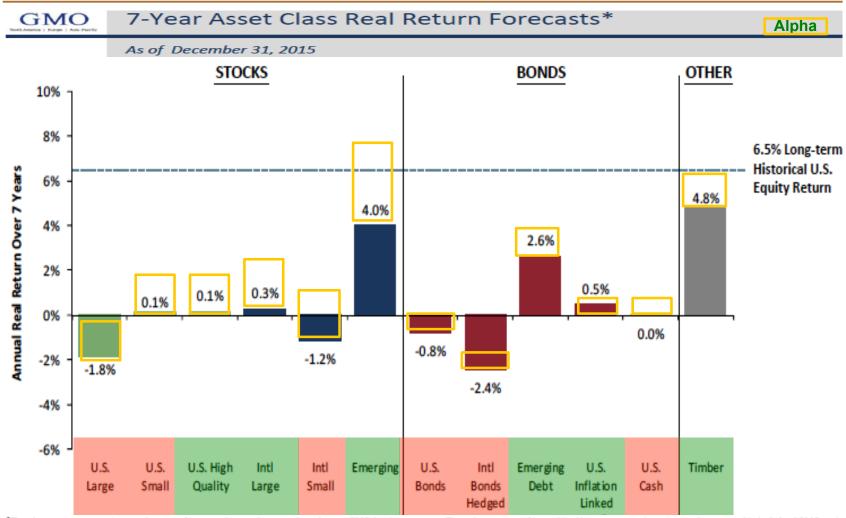
S&P Cycle High Likely Q4 2016, Cycle Low Likely 2017/18





Source(s): Strategas

GMO Forecasts Poor Returns for Traditional Assets Again



^{*}The chart represents real return forecasts for several asset classes and not for any GMO fund or strategy. These forecasts are forward-looking statements based upon the reasonable beliefs of GMO and are not a guarantee of future performance. Forward-looking statements speak only as of the date they are made, and GMO assumes no duty to and does not undertake to update forward-looking statements. Forward-looking statements are subject to numerous assumptions, risks, and uncertainties, which change over time. Actual results may differ materially from those anticipated in forward-looking statements. U.S. inflation is assumed to mean revert to long-term inflation of 2.2% over 15 years.

Source(s): GMO.

Last Time GMO Forecast Negative S&P 500 Returns, 2000

Exhibit 1
Performance of GMO Asset Class Forecasts for the Decade Dec. 31, 1999 to Dec. 31, 2009

Asset Class	Estimated Rank	GMO 10-Yr Forecast Dec-31-99 (% Real Return/Yr)	Actual 10-Yr Return*	Actual Rank
U.S. REITs	1	10.0	7.4	3
Emerging Market Equities	2	7.8	8.1	1
Emerging Country Debt	3	6.1	7.5	2
U.S. TIPS	4	4.3	4.9	4
Barclays Capital U.S. Gov't. Debt	5	3.8	3.5	6
International Small Cap	6	3.4	3.5	7
Foreign Bonds	7	3.0	3.9	5
U.S. Small	8	2.5	2.3	8
U.S. T-Bills	9	2.1	0.3	9
EAFE	10	0.4	-1.4	10
S&P 500	11	-1.9	-3.5	11

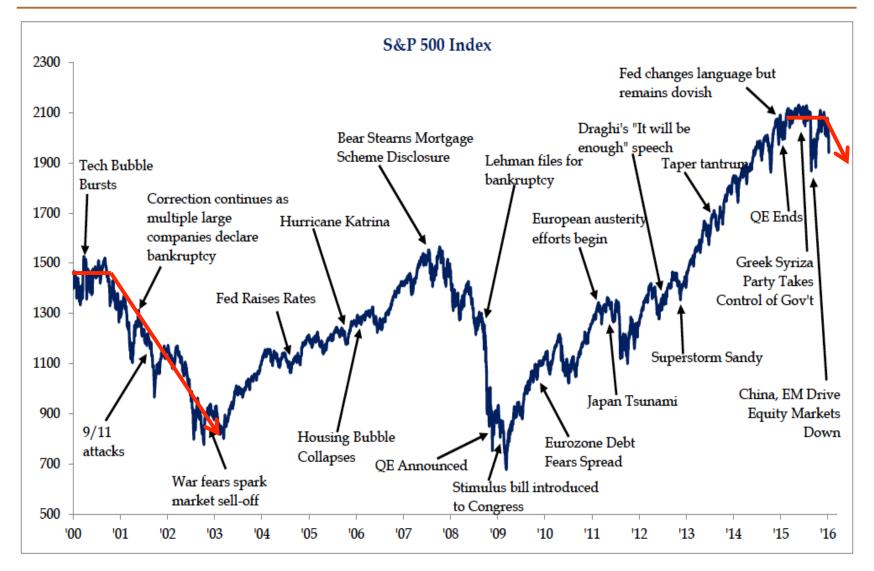
Correlation of rank order: 93.6% Probability of picking same or better rank order randomly: 1 in 550,000

The accuracy of past predictions does not guarantee that current or future predictions will be accurate either with respect to the ranking of asset classes over a 10-year period, the absolute levels of return, or results over shorter time periods. The accuracy of the forecast rankings and returns in the asset class forecasts generally varies from period to period.

Source: GMO

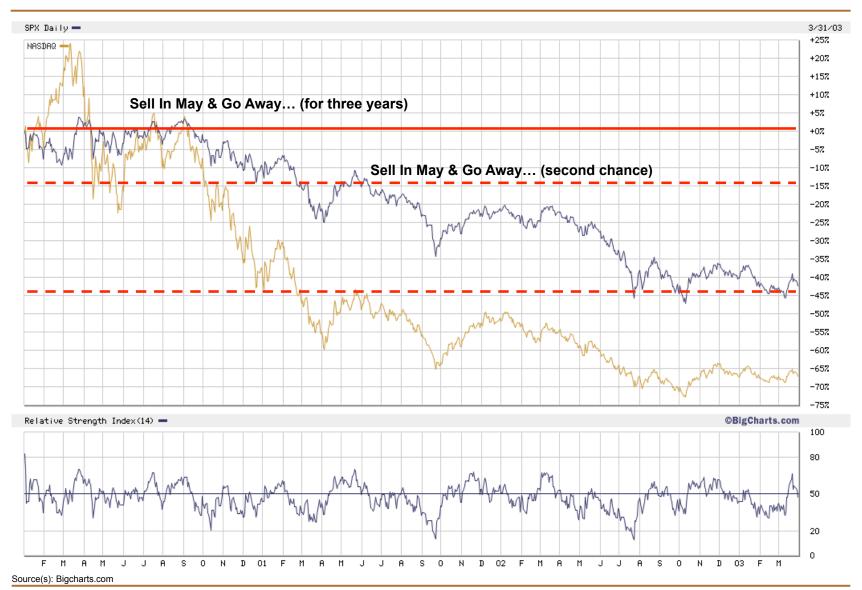
^{*} Actual compound annual real returns are for the period 12/31/99 to 12/31/09.

2015/16 Tracking 2000/01, Mr. Market Does Not Like Hikes

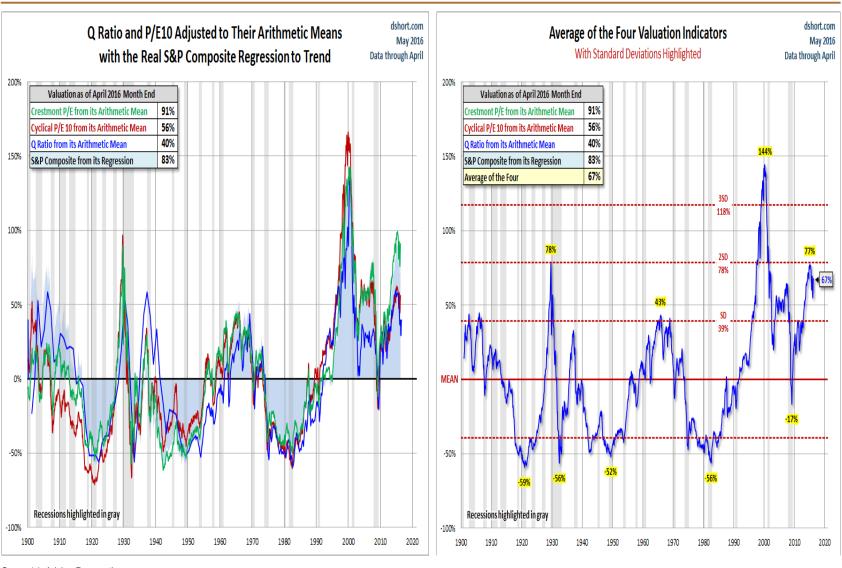


Source(s): Strategas

2000 Started Poorly, Volatile, Down (9%), Real Pain '01/'02



US Equities Overvalued On Every Measure, 3rd Worst Ever

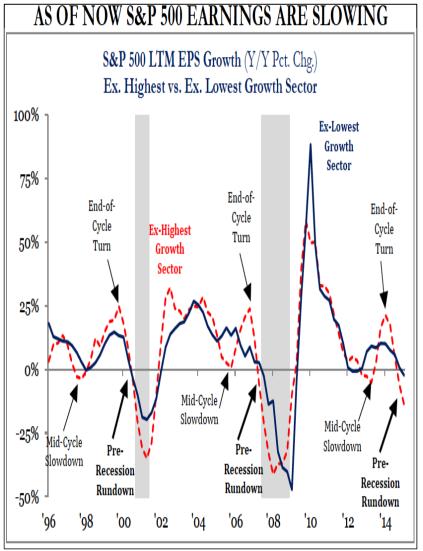


Source(s): AdvisorPerspectives.com.

S&P 500 EPS Turning Down Hard as Margins Roll Over





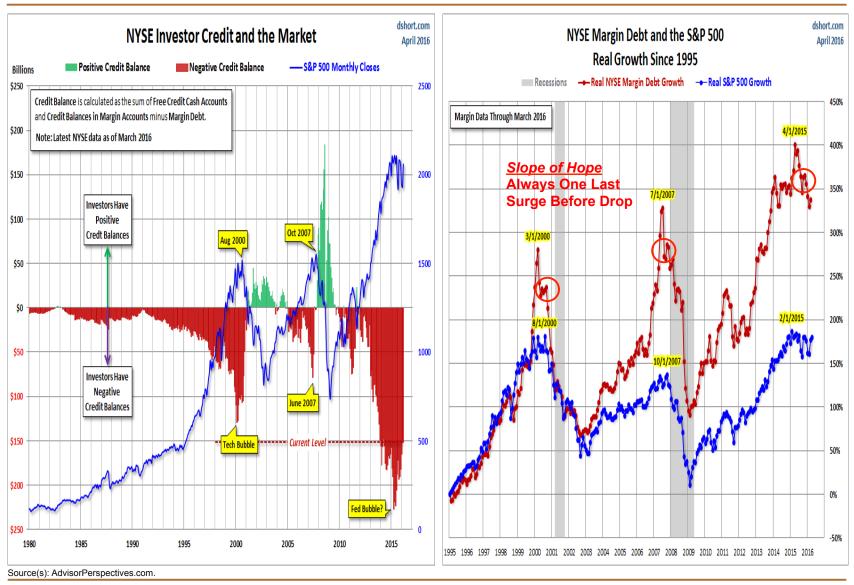


Source(s): NeubergerBerman, Strategas

Dec '14 Barron's Cover Could Be Front Page Syndrome...

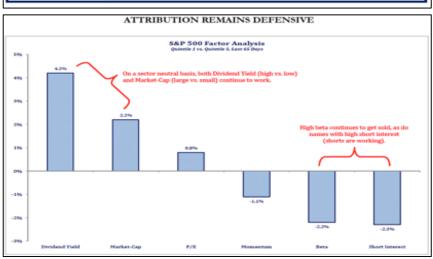


Margin Debt Fueled Rally Since 2009, Rolls Over Fast...



As Goes January, So Goes The Year: Does Not Bode Well

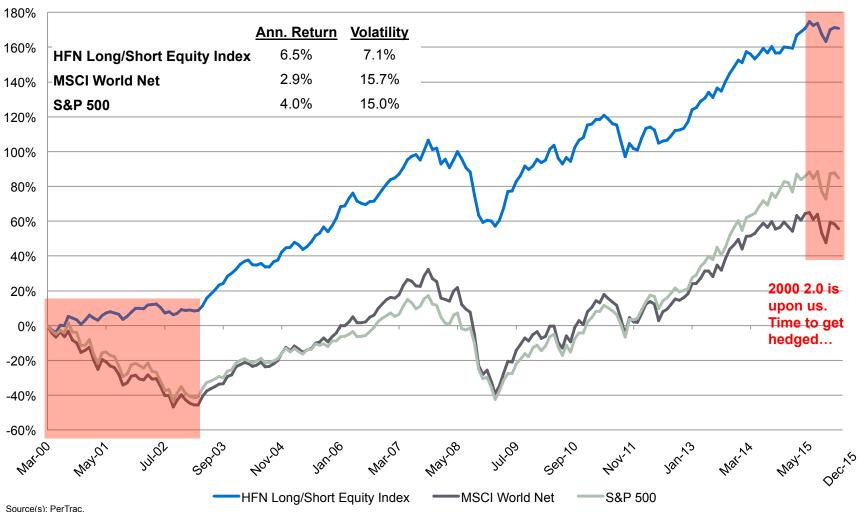
WORST START TO YEAR EVER									
S&P PERFORMANCE FOLLOWING THE WORST 5 DAY STARTS TO THE YEAR									
RANK	YEAR	FIRST 5 DAYS	JANUARY	10	1H.	FULL YEAR			
1	2016	-5.96%	?	?	?	?			
2	2008	-5.32%	-6.1%	-9.9%	-12.8%	-38.5%			
3	1978	-4.69%	-6.2%	-6.2%	0.5%	1.1%			
4	1991	-4.64%	4.2%	13.6%	12.4%	26.3%			
5	1962	-3.40%	-3.8%	-2.8%	-23.5%	-11.8%			
6	1969	-2.95%	-0.8%	-2.3%	-5.9%	-11.4%			
7	1939	-2.66%	-6.4%	-16.4%	-17.4%	-5.2%			
8	1982	-2.45%	-1.8%	-8.6%	-10.6%	14.8%			
9	1977	-2.28%	-5.1%	-8.4%	-6.5%	-11.5%			
10	1956	-2.13%	-3.6%	6.6%	3.3%	2.6%			
		Average	-3.3%	-3.8%	-6.7%	-3.7%			
		Median	-3.8%	-6.2%	-6.5%	-5.2%			
		% Positive	11.1%	22.2%	33.3%	44.4%			
		Max	4.2%	13.6%	12.4%	26.3%			
		Min	-6.4%	-16.4%	-23.5%	-38.5%			





Source(s): Strategas, StockTradersAlmanac.com

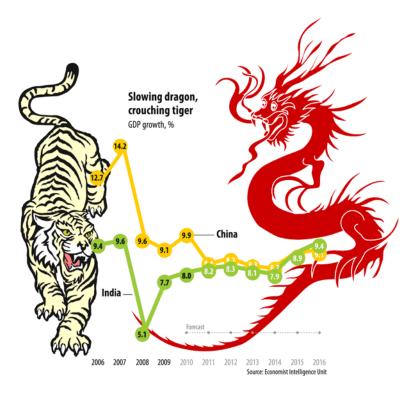
Long/Short Provides Protection When You Need It Most



Note(s): Data shown from 04/01/00 to 12/31/15. Indices shown are for informational purposes only and are not reflective of any investment. As it is not possible to invest in the indices, the data shown does not reflect or compare features of an actual investment, such as its objectives, costs and expenses, liquidity, safety, guarantees or insurance, fluctuation of principal or return, or tax features. Past performance does not guarantee future results. There is no guarantee that any investment strategy will achieve its objectives, generate profits or avoid losses. Diversification does not ensure profit or prevent losses.

Surprise #7 Dragons & Tigers Beat Bears, Oh My!

Emerging Markets divide into two very different groups based on whether they are commodity producers or commodity consumers. Producers (Brazil, Russia) continue to struggle with budget deficits and pervasive currency weakness, while Consumers (China, India) enjoy the tailwinds of lower inflation and higher growth courtesy of lower commodity prices and the Dragon and Tiger markets beat the Bear and finish up for the year.

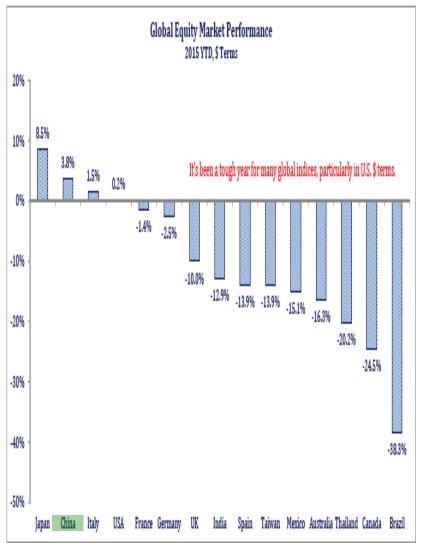


Source(s): Economist.com

Anomaly: DM LEI Down, China LEI Up; Explains '15 Perf







Source(s): Strategas

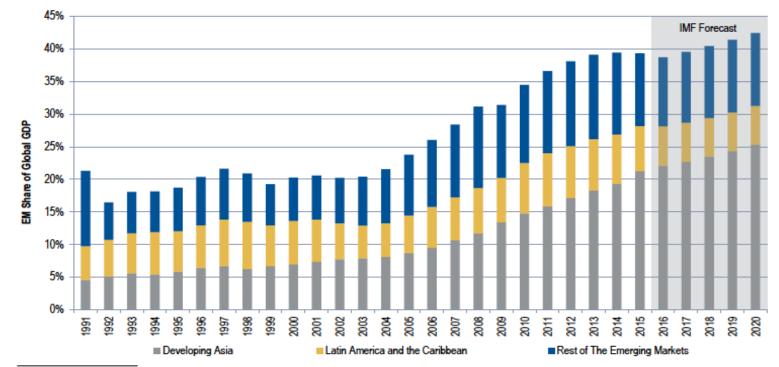
EM Has Demographic Advantage Over DM; But Volatile

Emerging Markets Share of Global GDP

Emerging market's share of global GDP has grown from 20% to 39% in the last decade, and it is estimated to reach 40% by 2016

High level of Emerging Markets GDP growth makes EM equities attractive as a higher GDP growth is likely to improve EPS growth of EM equities which in turn can produce better performance for EM equities

EMERGING MARKETS SHARE OF GLOBAL GDP

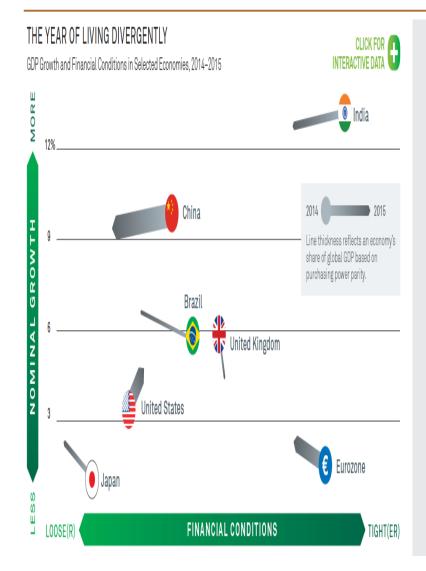


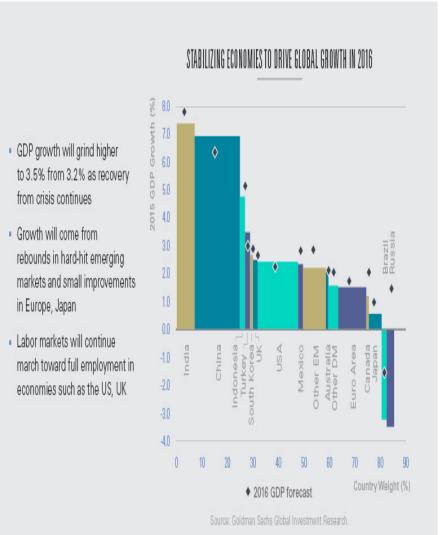
Source: International Monetary Fund; Neuberger Berman. As of March 2016.

Third-party economic or market estimates discussed herein may or may not be realized and no representation is being given regarding such estimates. See Additional Disclosures at the end of this presentation, which are an important part of this presentation.

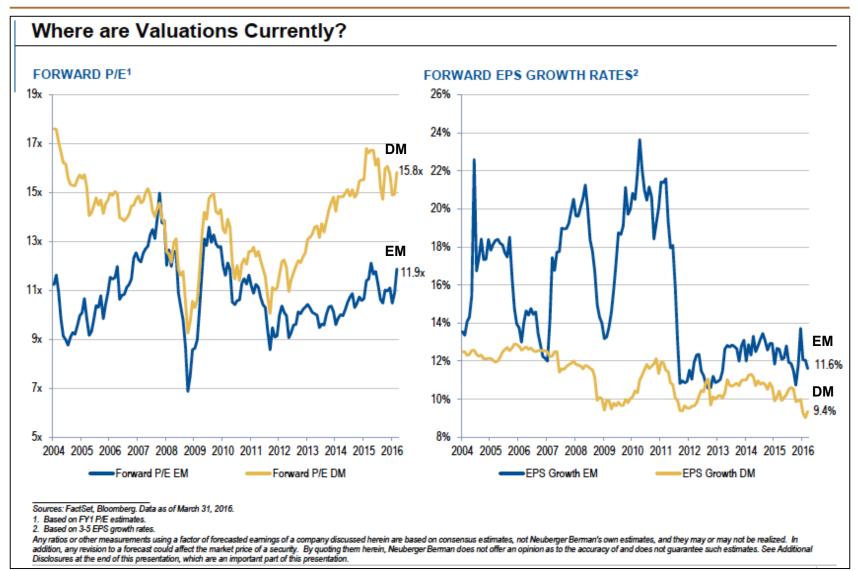
Source(s): Neuberger Berman,

China/India Have Material Growth Advantage Over ROW



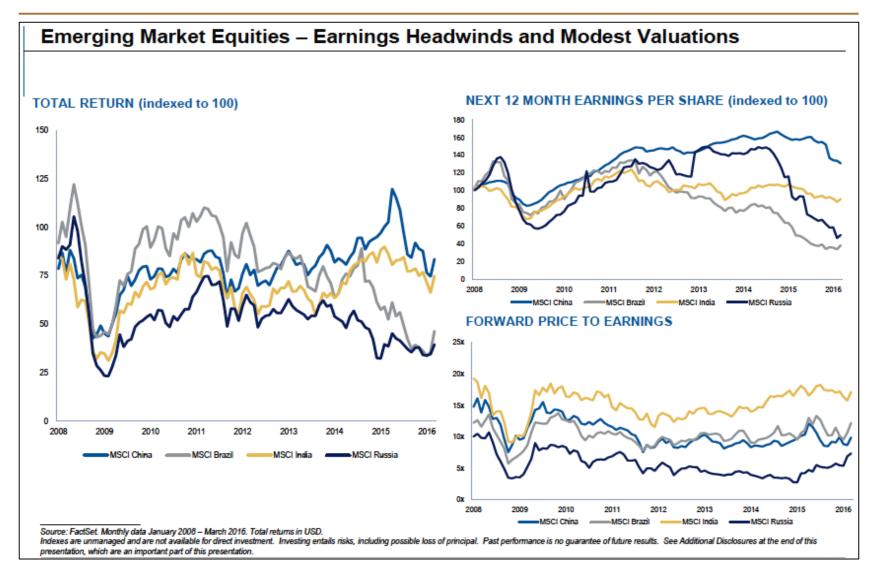


Looking Forward, EM vs. DM, Higher Growth & Cheaper

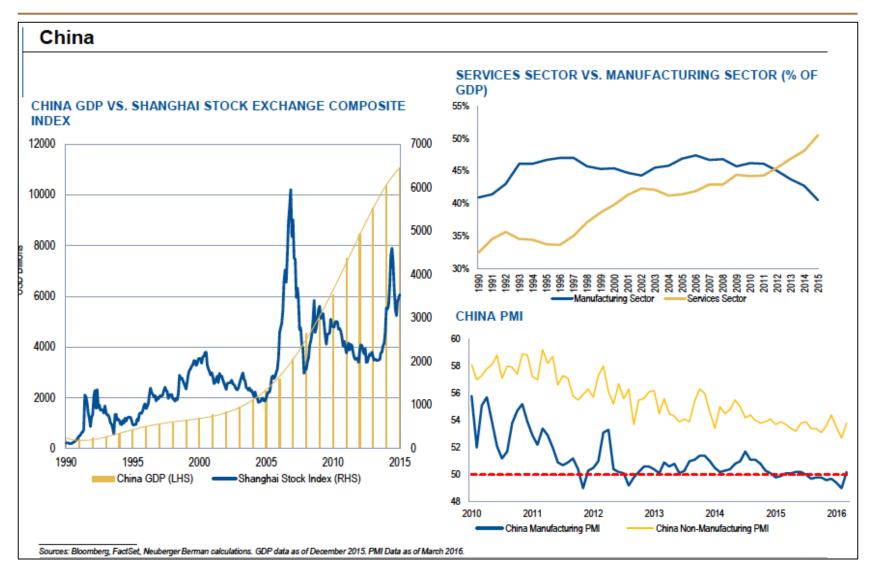


Source(s): Neuberger Berman

China Been Best of BRICs, Best Combo EPS & Valuation

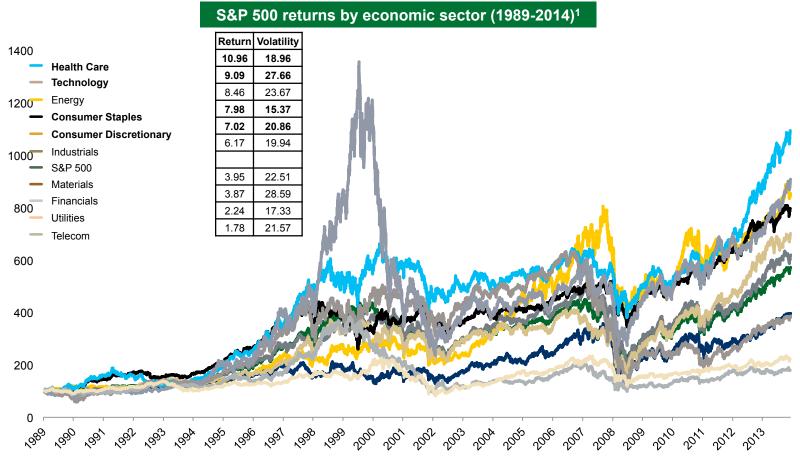


China Economic Transition Proceeding, Stocks < GDP



History Rhymes: China to Follow Path of U.S. Consumer

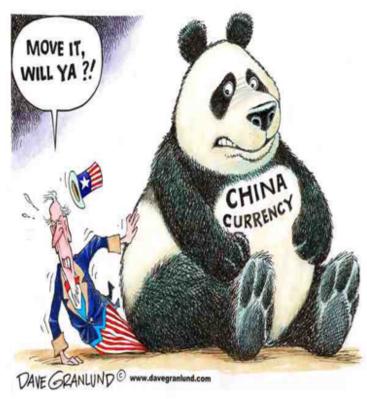
As people age, wealth increases, Consumption rises => opportunities in 5 key sectors: Healthcare, Technology, Energy, Consumer Staples & Consumer Discretionary



Source(s): Bureau of Labor Statistics, Employment, Hours, Earnings from the Current Employment Statistics survey (National); Bureau of Economic Analysis, "GDP by Industry."; China Statistical Yearbook 2012(ISBN 978-7-5037-6693-0/C•2752), Bloomberg. Bigcharts.com

King Dollar Gets Dethroned

Contrary to the powerful narrative that the U.S. Dollar must continue to appreciate in the face of the Fed taking a different monetary policy course (or at least threatening to take a different course...) than the ECB & BOJ, the old saw "Buy the Rumor, Sell the News" turns out to be true once again and the USD peaks and actually begins to weaken against other global currencies. The surprising Dollar weakness takes some pressure off of the Chinese to further weaken the RMB and the Yuan continues on a path toward becoming a World Reserve Currency.



Source(s): China-Mike.com

Dollar Tends To Peak When Fed Actually Raises Rates

FED HIKE IS ACTUALLY ONE RISK FOR OUR NEAR-TERM DOLLAR CALL



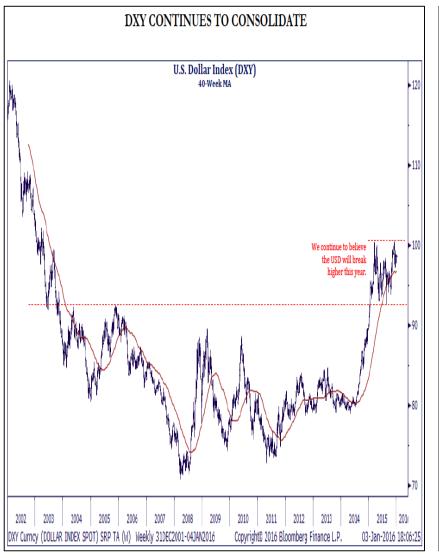








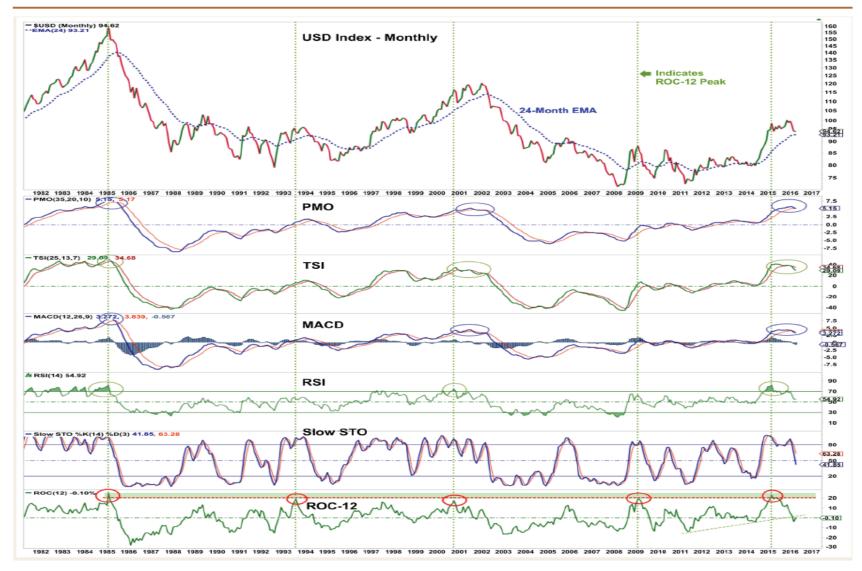
King Dollar Looking Like Wants to Abdicate Throne





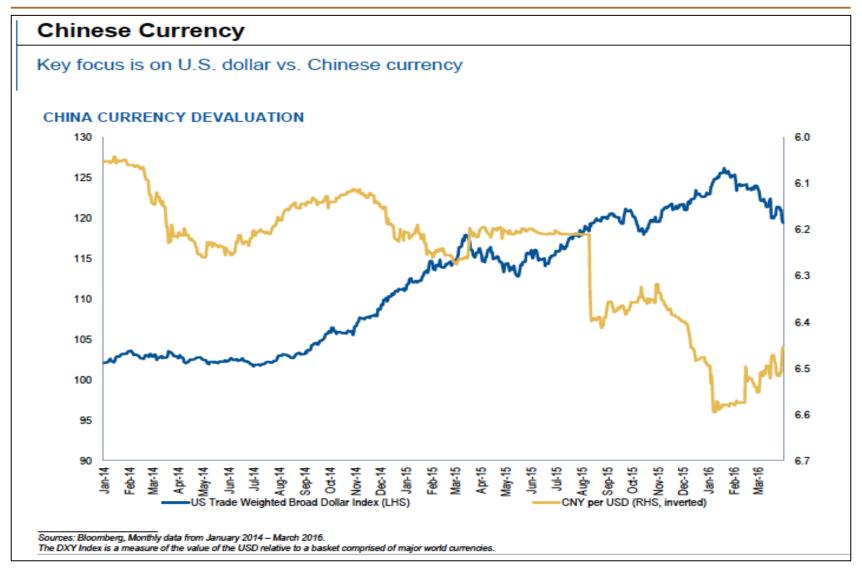
Source(s): Strategas, MarketWatch.com

King Dollar Appears to Have Made Cyclical Peak

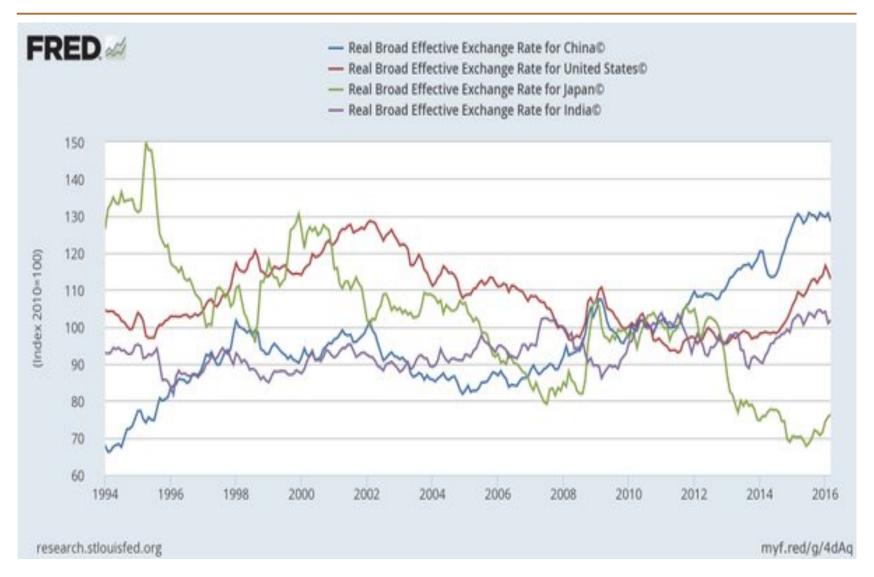


Source(s): 13d Research

Rapid Appreciation of Dollar in 2014/15 Pressured RMB



Bears Argue RMB Appreciation Hurting Competitiveness



Chinese Plan for RMB Better Than The Media Reports

The first general fallacy is that China did not devalue the Yuan against the US\$. They removed the peg and have since taken the currency into a managed float. There are many Chinese and foreign economists who talk about a further float downwards of the Yuan. First, this would assume a continued strengthening of the U.S. dollar which we don't think will last beyond early 2016. Such an assumed change will work heavily on their currency planning.

Yuan Trade Weighted Index



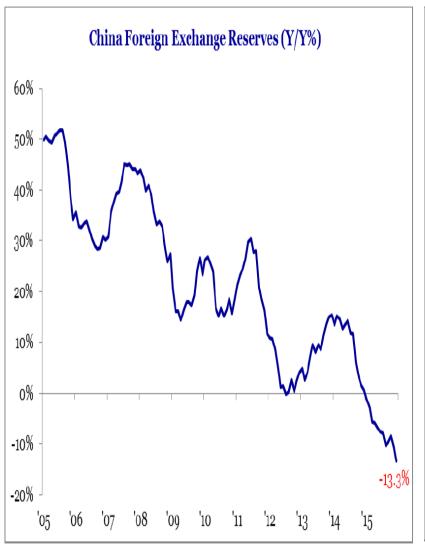
Source: BIS

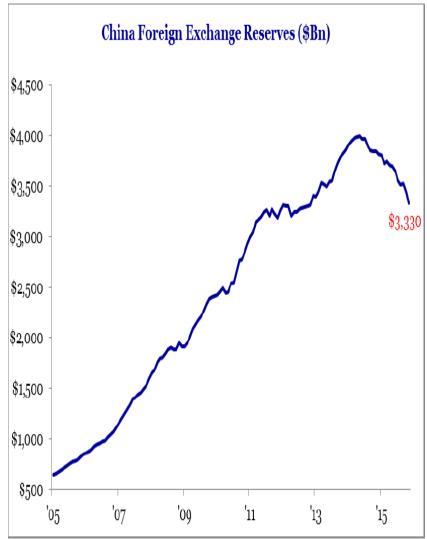
Second, China focuses much more on its trade weighted index than it does against the U.S. dollar. Against the trade weighted index the Yuan has appreciated by 2% so far this year and since January 2014 by 9.8%. Focusing on the trade weighted index is hardly surprising since only 17% of the country's exports went to the USA last year with 16% destined to the EU, 12% to ASEAN, 16% to Hong Kong, 4% to S Korea and 2% to both India and Russia.

Third, China's objective is not to follow the devaluation route of other countries but for the Yuan to be seen as a stable unit of appreciation that central banks and financial institutions feel comfortable in holding in their portfolios.

It is the trade weighted index that is far more relevant than the U.S. dollar rate against the Yuan.

China Has Plenty of Firepower to Win a Currency War



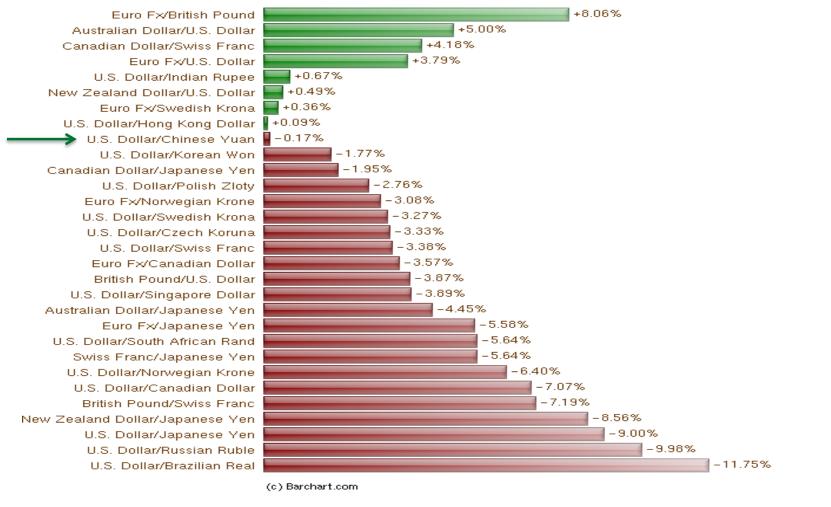


Source(s): Strategas

RMB Stabilized in 2016, EM FX Rebounds Strongly vs. \$

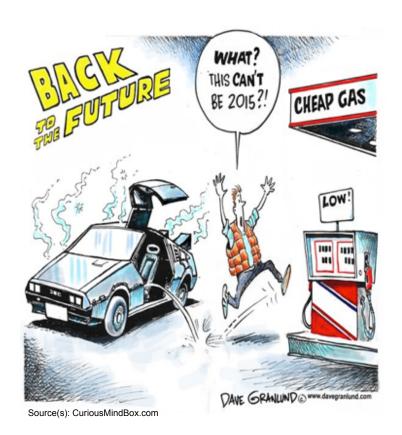
CHINESE YUAN IS NOT ALONE IN EARLY 2016 WEAKNESS

Barchart.com Year-To-Date Performance Leaders

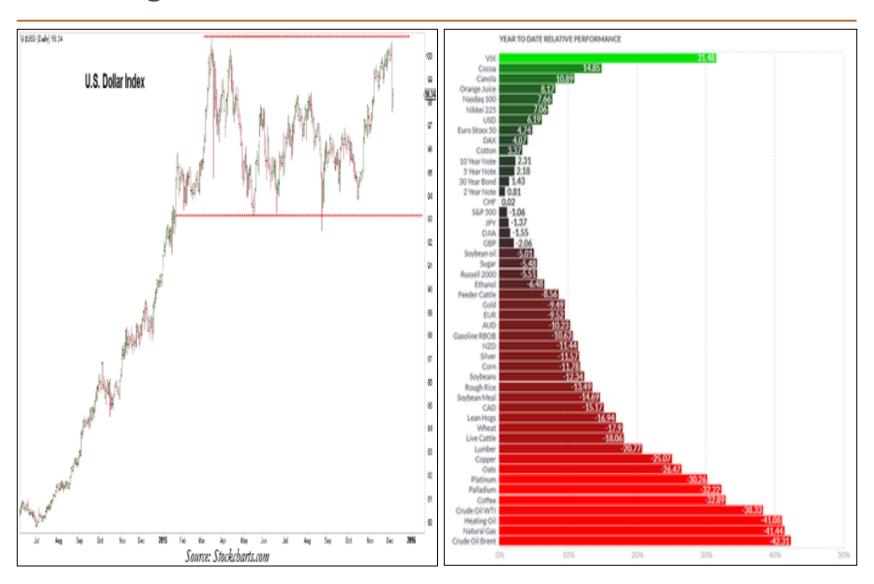


Cure For Low Prices Is Low Prices

The severe Bear Market in Commodities that began in 2011 destroys sufficient industry market capitalization spurring companies to dramatically slash capital spending, cancel large swaths of projects and reduce productive capacity to a point where commodity prices begin to find a floor and some generational investment opportunities arise amidst the bankruptcies and restructurings in places like MLPs, Miners and Exploration & Production companies.



USD Surge Crushed Commodities in 2015; VIX Best A/C?!



Source(s): 13d Resaerch

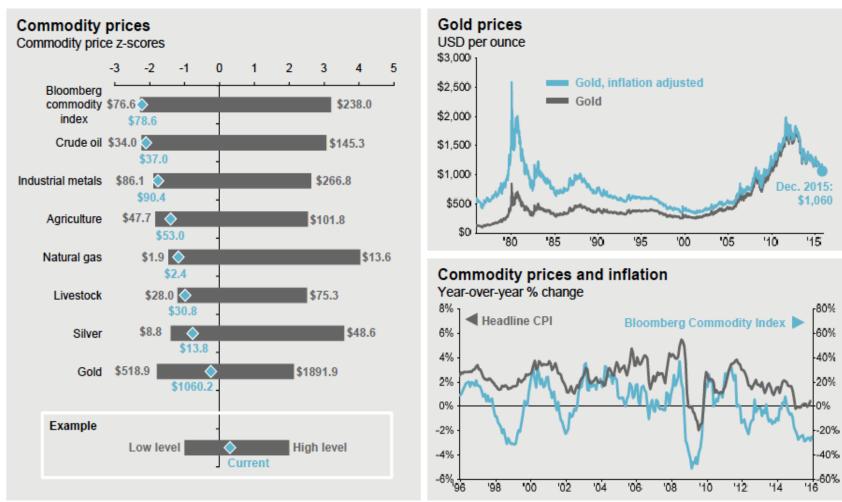
After Severe Price Declines, CRB Bounced Off 5 Yr Lows

Commodity	Price as on 6/1/2011	Price as on 11/30/2015	% Decline
Iron Ore Price	169.8	46.1	-72.8%
SILVER	37.7	14.1	-62.7%
Chinese HRC Steel Price	4,815.0	1,815.0	-62.3%
Black Sea HRC Steel Price	690.0	262.5	-62.0%
Generic Nickel	23,247.0	8,870.5	-61.8%
Turkish Scrap Price	468.0	190.0	-59.4%
OIL	99.6	41.7	-58.2%
SPOT Platinum	1,818.5	831.3	-54.3%
Generic Corn	758.5	365.0	-51.9%
Generic Copper	410.7	204.5	-50.2%
US HRC Steel Price	735.0	376.0	-48.8%
Generic Wheat	759.3	460.0	-39.4%
GOLD	1,539.8	1,064.8	-30.9%
Spot Palladium	771.3	544.4	-29.4%
Metallurgical coke price (US)	169.3	133.7	-21.0%



Source(s): StockCharts.com, 13d Reseaarch

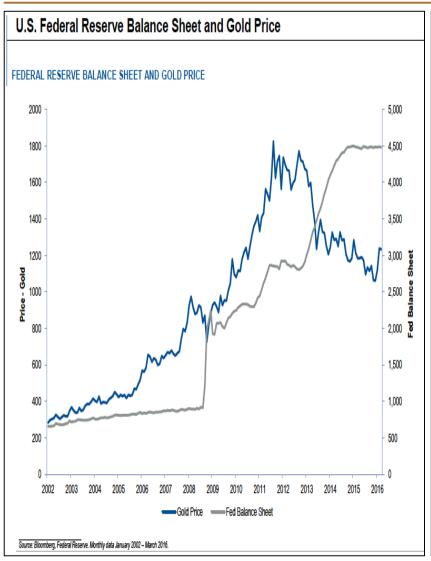
Most Commodities at Extreme Levels of Undervaluation



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. 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 December 31, 2015.

Gold Up & Dollar Down 2001-2011, Then Reversed Hard



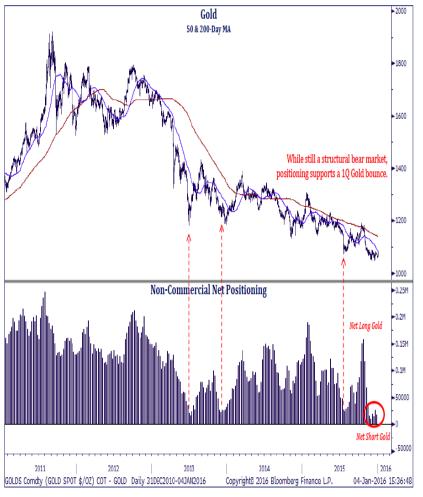


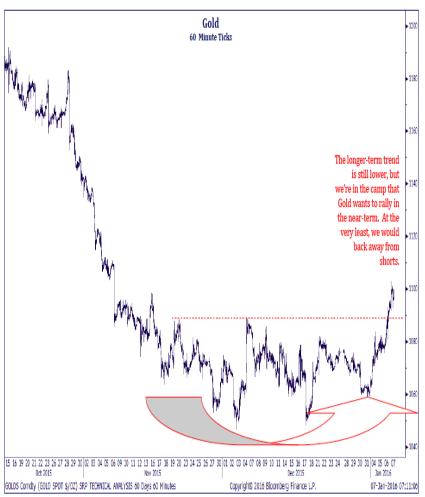
Source(s): Neuberger Berman

Gold Formed Bottom During Year End Equity Turmoil

GOLD SENTIMENET SUPPORTIVE OF A BOUNCE

SMALL BASE FOR GOLD (IT'S A TACTICAL CALL)



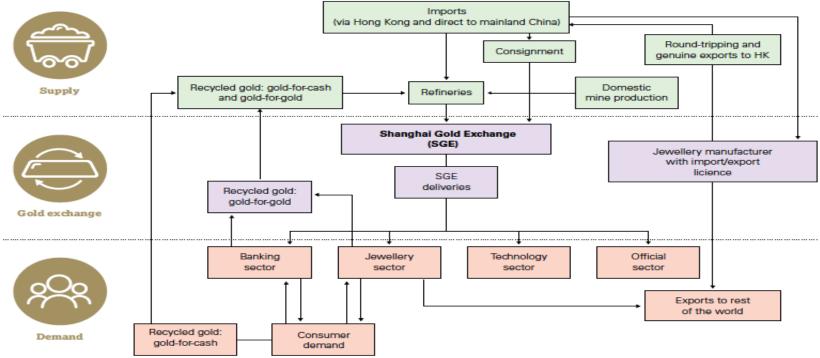


China Has Quietly Become World's Largest Gold Market

In 2013 China became the world's largest gold market, accounting for around a third of global gold demand. By the end of 2017, we expect demand to have grown by at least a further 20%. Because of its sheer size and impact on the global gold market, China is firmly in the spotlight.

Figure 1: Schematic diagram of gold flows in China

Imports
(via Hong Kong and direct to mainland China)



Source(s): World Gold Council

China Has Moved to Create Linkage of Gold to RMB

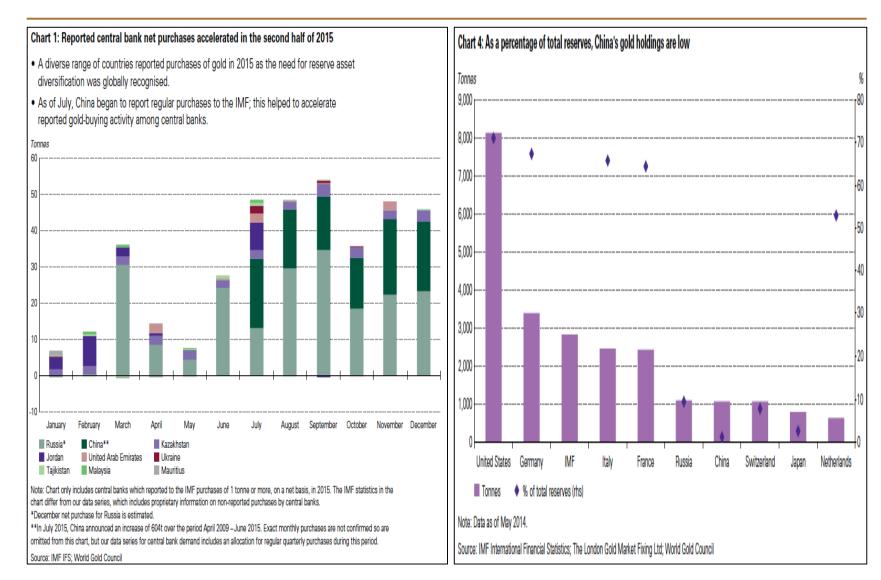
CHINA & A NEW ERA FOR GOLD

As we've been writing about for many months, China has finally opened its gold trading platform in an attempt to compete with London. On Tuesday, the Shanghai Gold Exchange began a twice-daily price fixing (just like the London Metals Exchange) for grams of gold in Yuan. The market's reaction was a dramatic jump in precious metals prices, and a solid drop in the USD below the 94 handle.



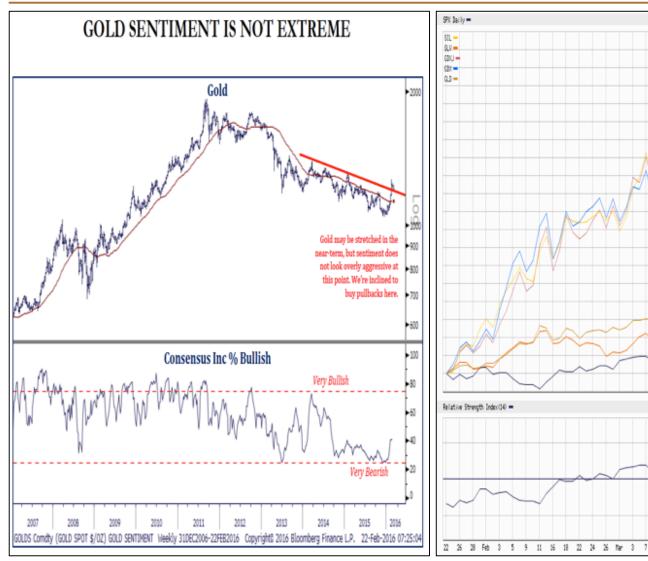
All of this assumes gold stays where it is. However, if China wants to enter the world currency market, they will need to shed their global reputation as a risky place to put capital. A gold link or the appearance of a gold-stabilized currency is one way to do that. The goal is to have the Yuan be used as an international standard for trade and commerce. Gold has a 3,500-year history in global trade, perhaps it makes sense to be linked to it in some way.

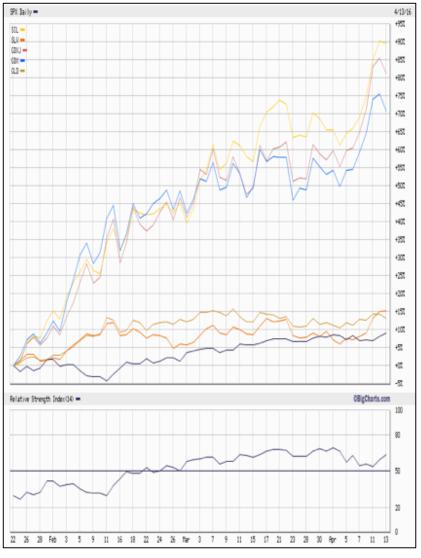
PBoC Purchases of Gold Surging, Total Holdings Small



Source(s): World Gold Council

Gold & Gold Miners Suddenly Finding Natural Buyers





Source(s): Strategas, BigCharts.com

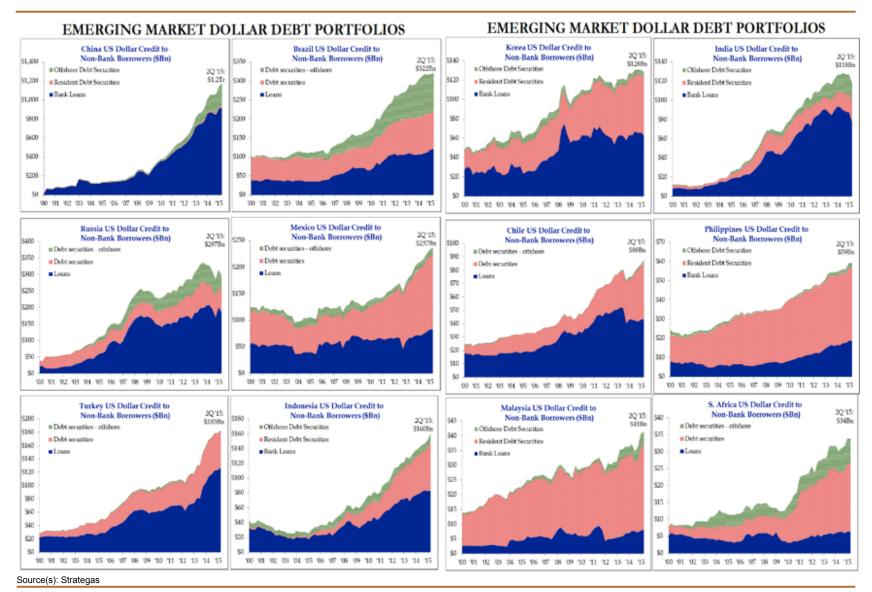
The Bus Stops Here...

Uncle Carl Icahn is right and there is Danger Ahead in the credit markets around the world. Excess Central Bank liquidity has created a bond bubble across myriad sectors and there are abundant opportunities to short credit in emerging markets, high yield (particularly energy) during this new distressed debt cycle.

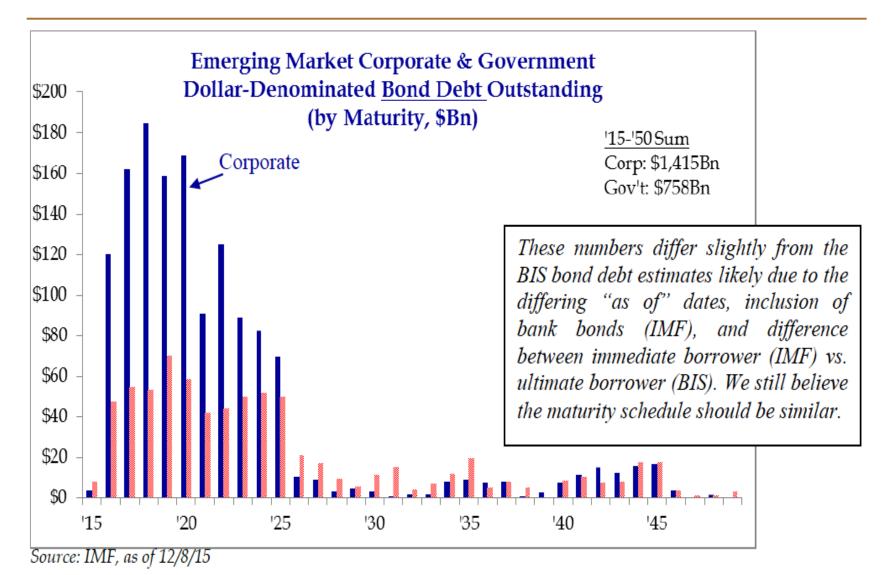


Source(s): BusinessInsider.com

EM Debt Has Exploded Over Past 15 Yrs in a ZIRP World



Excessive Leverage Not Confined to Dev Mkt Companies



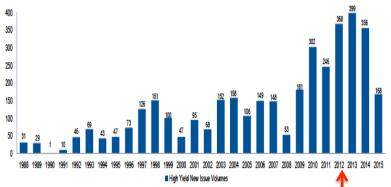
Source(s): Strategas

High Yield Defaults Follow issuance with Four Year Lag

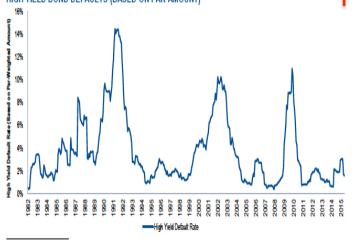
U.S. High Yield Update

Fundamentals for the high yield market remain potent given the strong corporate sector balance sheets, historically low default rates and relatively high real yield for the asset class

HIGH YIELD NEW ISSUE VOLUMES



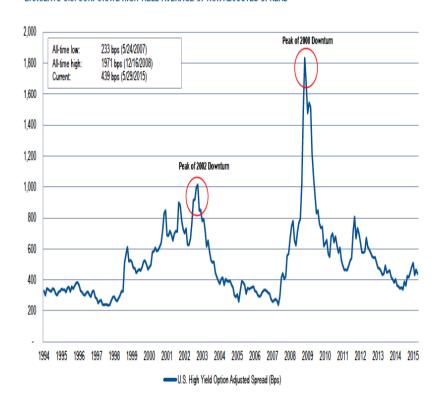
HIGH YIELD BOND DEFAULTS (BASED ON PAR AMOUNT)



Source: J.P. Morgan. As of May 31, 2015.

Pricing in High Yield Market

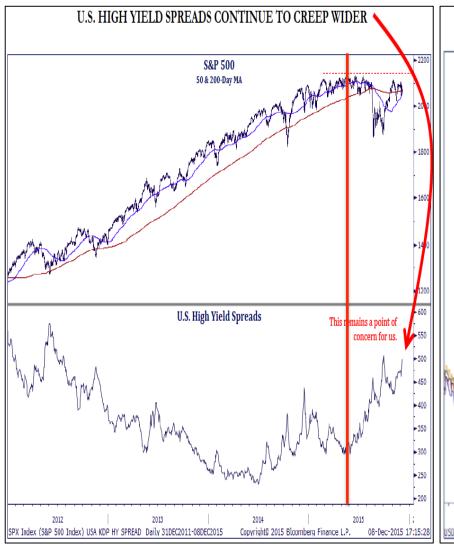
BARCLAYS U.S. CORPORATE HIGH YIELD AVERAGE OPTION ADJUSTED SPREAD

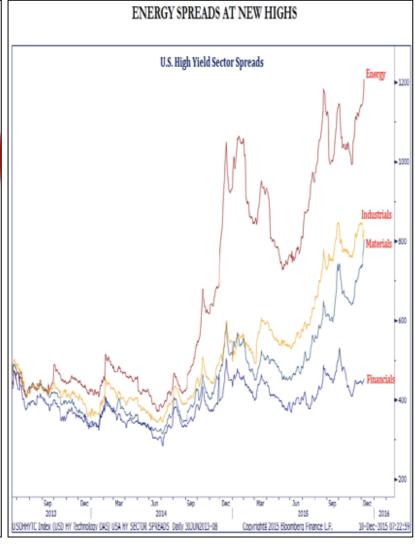


Source: Barclays Capital. Spread on the Barclays U.S. High Yield Index. Monthly data January 1994 – May 2015.

Option-Adjusted Spread (OAS) is the spread over treasuries, adjusted for early call provisions. For informational purposes only, Historical trends do not imply, forecast or quarantee future results.

Deterioration of HY Credit Coincides With Market Top?





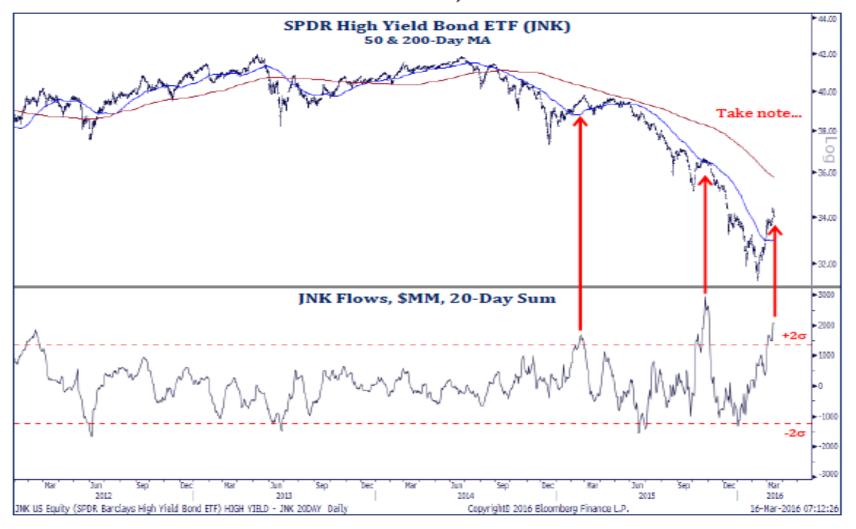
Source(s): Strategas

December Activity In HY Mkt Was a 6.9 on Richter Scale



Massive Spike In HY Flows Has Been Contrarian Indicator

HIGH YIELD FLOWS AGGRESSIVE, CONTRARIANS TAKE NOTE

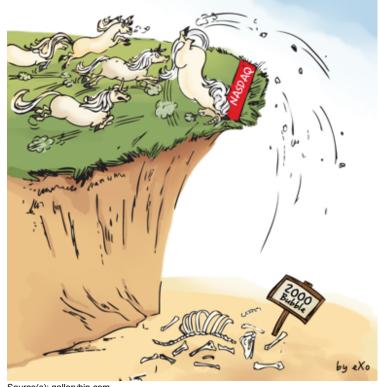


Source(s): Strategas

Bonus Surprise

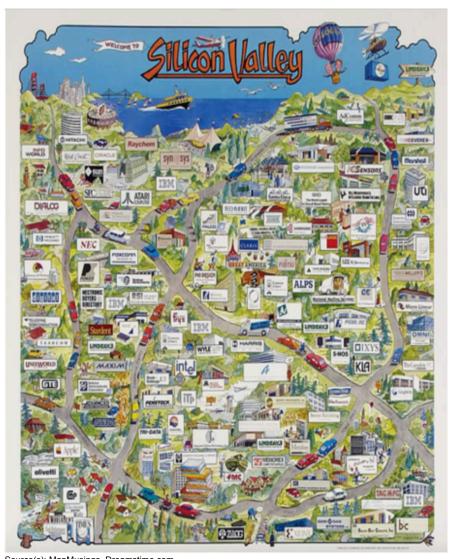
Unicorns Have Ten Lives

Contrary to the drumbeat of negativity that too much money went into venture backed start-ups in 2015 pushing up valuations to levels triggering the mocking moniker "Unicorns", disruptive innovation continues to emanate from Silicon Valley and Route 128 in Boston and late stage venture generates superior returns for investors.

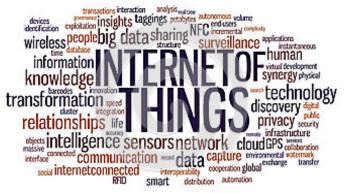


Source(s): galleryhip.com

Silicon Valley Operates on Law of Increasing Returns









Invest in Obsoletive Innovation; Disrupting Transportation

Last Round Almost Hit This Lofty Target, \$62.5B...

Last Round Included Saudi Prince and GM...





In Challenging Investment Environment, Need an ALPHA Driven Model

Words of Wisdom

"There is a tide in the affairs of men, which taken at the flood, leads on to fortune; Omitted, all the voyage of their life is bound in shallows and in miseries. On such a full sea are we now afloat and we must take the current when it serves, or lose our ventures."

William Shakespeare: Brutus – Julius Caesar

"I was dreamin' when I wrote this, forgive me if it goes astray, but when I woke up this mornin' could sworn it was judgment day. The sky was all purple, there were people runnin' everywhere. Tryin' 2 run from the destruction, U know I didn't even care. 'Cuz they say two thousand zero zero party over, oops out of time. So tonight I'm gonna party like it's 1999"

Prince - 1999

In 2000, Buffett Wrote U.S. Equity Valuations Were Stupid



GMO Forecasts Reflected U.S. Equity Valuation Stupidity

Exhibit 1
Performance of GMO Asset Class Forecasts for the Decade Dec. 31, 1999 to Dec. 31, 2009

Asset Class	Estimated Rank	GMO 10-Yr Forecast Dec-31-99 (% Real Return/Yr)	Actual 10-Yr Return*	Actual Rank
U.S. REITs	1	10.0	7.4	3
Emerging Market Equities	2	7.8	8.1	1
Emerging Country Debt	3	6.1	7.5	2
U.S. TIPS	4	4.3	4.9	4
Barclays Capital U.S. Gov't. Debt	5	3.8	3.5	6
International Small Cap	6	3.4	3.5	7
Foreign Bonds	7	3.0	3.9	5
U.S. Small	8	2.5	2.3	8
U.S. T-Bills	9	2.1	0.3	9
EAFE	10	0.4	-1.4	10
S&P 500	11	-1.9	-3.5	11

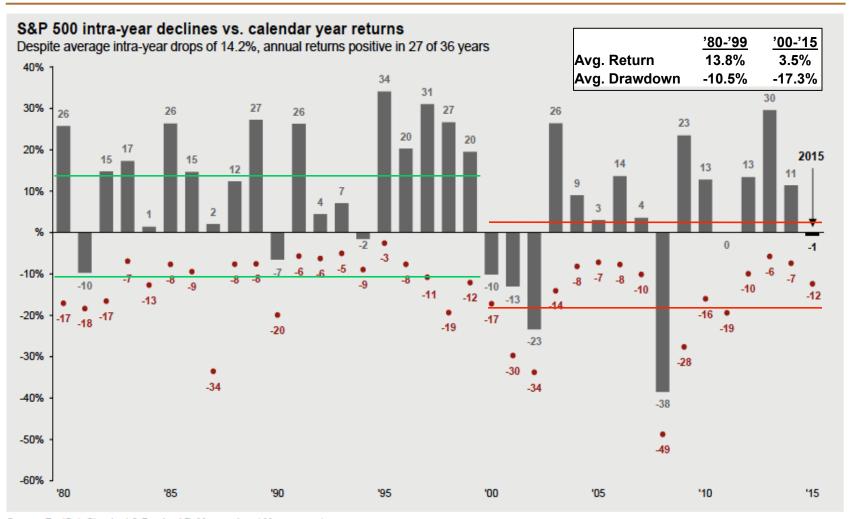
Correlation of rank order: 93.6% Probability of picking same or better rank order randomly: 1 in 550,000

The accuracy of past predictions does not guarantee that current or future predictions will be accurate either with respect to the ranking of asset classes over a 10-year period, the absolute levels of return, or results over shorter time periods. The accuracy of the forecast rankings and returns in the asset class forecasts generally varies from period to period.

Source: GMO

^{*} Actual compound annual real returns are for the period 12/31/99 to 12/31/09.

Circumstances Set In Extremes Led To "New Abnormal"



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

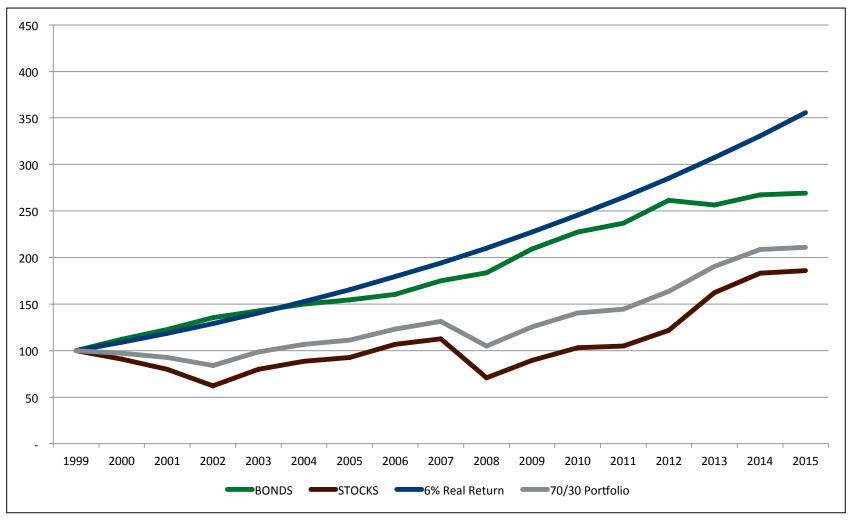
Returns are based on price index only and do not include dividends. Intra-year drops refers to the largest market drops from a peak to a trough during the year. For illustrative purposes only. Returns shown are calendar year returns from 1980 to 2015.

Guide to the Markets - U.S. Data are as of December 31, 2015.

Source(s): JPMorgan Performance does not include dividends

The "Old Plan" Has Not Worked Since Extremes of 2000

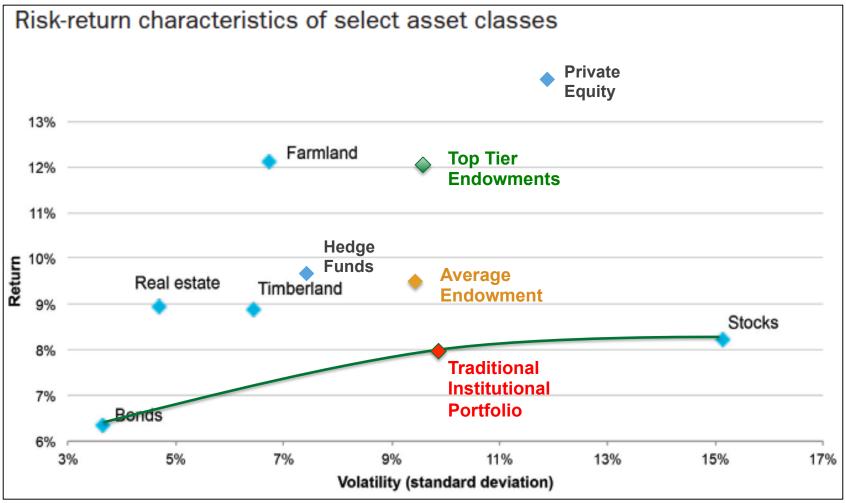
Cumulative Total Return



Source: Bloomberg

Note(s): Neither diversification nor asset allocation ensures a profit or guarantees against loss. Please see index definitions at the end of this presentation. Past performance is no guarantee of future results.

But, Endowment Model Achieved 6% Real Target Return



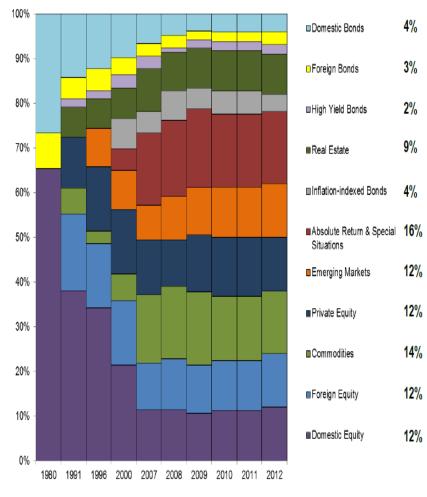
Asset classes represented by respective indices: stocks (S&P 500 Index); bonds (Barclays U.S. Aggregate Bond Index; real estate (NCREIF National Property Index); timberland (NCREIF Timberland Index); farmland (NCREIF Farmland Index).

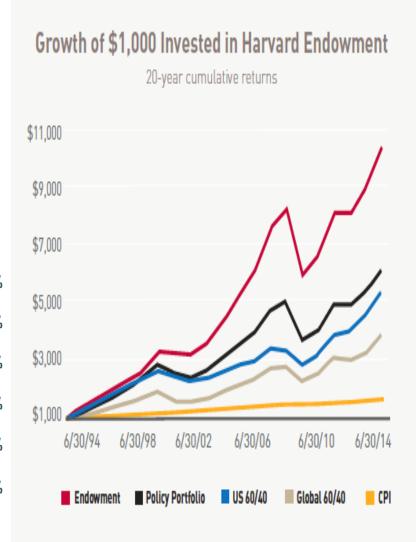
Sources: National Council of Real Estate Investment Fiduciaries (NCREIF), FactSet, Morningstar.

Source(s): 20 years ended 6/30/2015 TIAA CREF, HFRI, CA Private Equity Index, Public Pension Data, NACUBO 6/30/15, Top Tier Endowments (Yale, Harvard, Notre Dame, Princeton, Stanford)

Harvard: Private Investments Doubled Endowment Growth

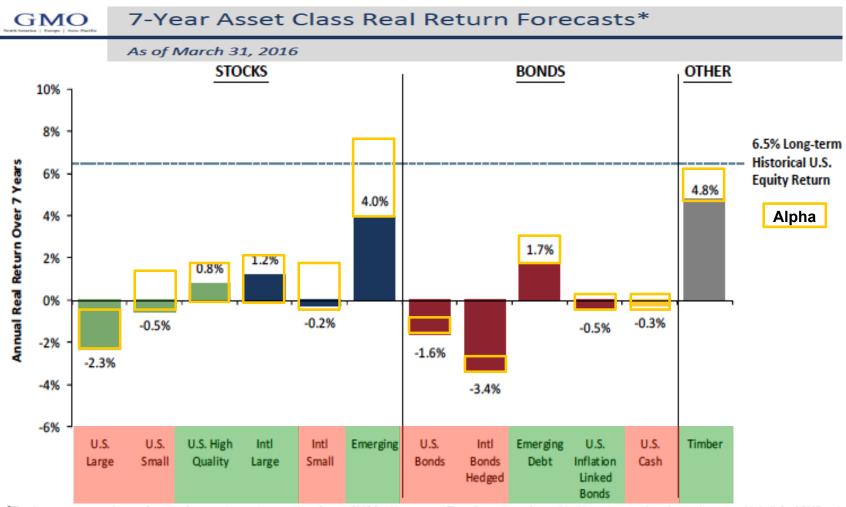
Harvard's Portfolio Evolved From Traditional 65% equity / 35% bonds to Fully Diversified





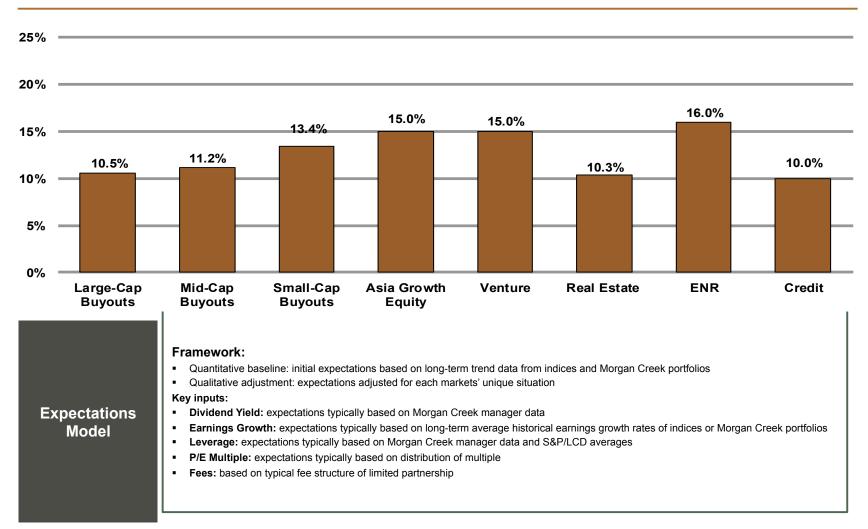
Source(s): Harvard Management Company.

GMO Forecasts Poor Returns for Traditional Assets Again



^{*}The chart represents real return forecasts for several asset classes and not for any GMO fund or strategy. These forecasts are forward-looking statements based upon the reasonable beliefs of GMO and are not a guarantee of future performance. Forward-looking statements speak only as of the date they are made, and GMO assumes no duty to and does not undertake to update forward-looking statements. Forward-looking statements are subject to numerous assumptions, risks, and uncertainties, which change over time. Actual results may differ materially from those anticipated in forward-looking statements. U.S. inflation is assumed to mean revert to long-term inflation of 2.2% over 15 years.

MCCM Private Investment Market Return Expectations

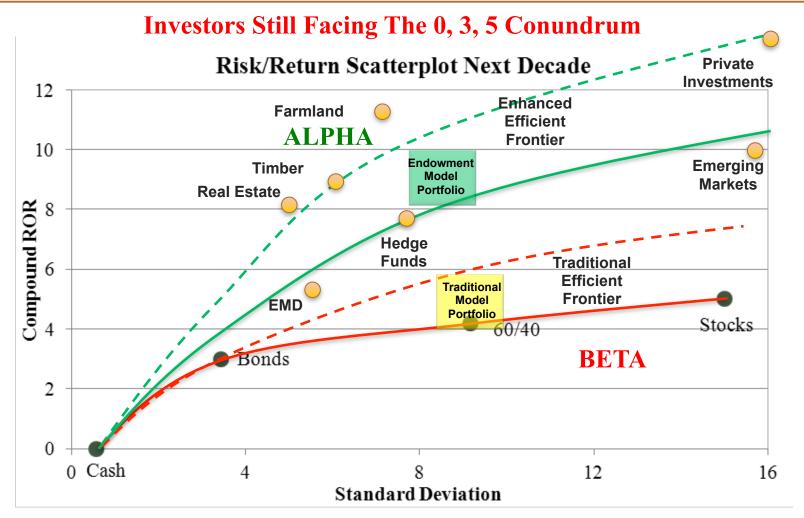


Source(s): Baird, S&P/LCD, Bloomberg, Thomson Reuters, Real Capital Analytics, PricewaterhouseCoopers, NCREIF, CapitalIQ, Morgan Creek.

Note(s): Private credit expectation represents the average expected return for senior and subordinated debt strategies of 8% and 12%, respectively. Top quartile venture expectation is based on a 15-20% range, though we expect outliers in the left and right tail of a return distribution. This document reflects opinions of Morgan Creek as of the time it was written and all such opinions are subject to change. There is no guarantee that these expectations will be met. No representation or warranty, express or implied, is given by Morgan Creek as to the accuracy of such opinions and no liability is accepted by such persons for

the accuracy or completeness of any such opinions.

Challenging Environment: Need Alpha Focused Approach



Source(s): GMO, MCCM estimates., TIAA CREF returns for Real Assets

Forecasts: returns for cash/bonds = current yield, returns for equities = GMO estimates, returns for hedge funds = stocks+3% alpha, returns for private = 20 year historical average

Definition(s): Compound ROR = compound rate of return; Annualized standard deviation = risk as measured by the variability of performance. The higher the standard deviation, the greater the variability

(and therefore, the risk) of the fund or index; Traditional Efficient Frontier = addition of traditional asset classes such as stocks and bonds; Enhanced Efficient Frontier = addition of more alternative asset

classes. Endowment Model Portfolio estimates calculated using Policy Portfolio and forecast asset class returns

That Said, Best Solution Is Big Private Investment Weight



Asset Class

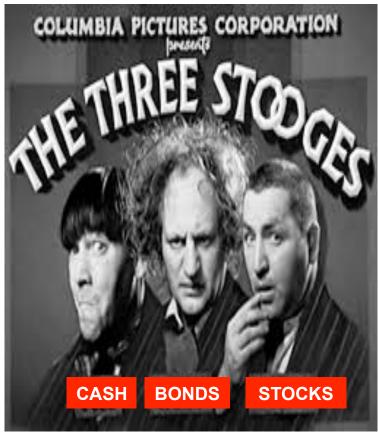
Absolute Return
Domestic Equity
Fixed Income
Foreign Equity
Leveraged Buyouts
Natural Resources
Real Estate
Venture Capital
Cash

Target Actual 20% 21% 20.5% Hedge 21.5% Hedge **Funds Funds** 3.9 4.0 8.5 27% 27% 4.9 **Traditional Traditional** 14.7 14.5 16.0 16.2 6.7 8.5 53% 52% **Private Private** 13.0 14.0 16.3 14.0 2.8 0.0

Source: Yale Endowment Annual Report

Which 1950's TV Hero Would You Pick For Portfolio Core?





Important Disclosures

General

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Indices

The index information is included merely to show the general trends in certain markets in the periods indicated and is not intended to imply that the portfolio of any fund managed by Morgan Creek Capital Management, LLC was similar to the indices in composition or element of risk. The indices are unmanaged, not investable, have no expenses and reflect reinvestment of dividends and distributions. Index data is provided for comparative purposes only. A variety of factors may cause an index to be an inaccurate benchmark for a particular portfolio and the index does not necessarily reflect the actual investment strategy of the portfolio.

No Warranty

Morgan Creek Capital Management, LLC does not warrant the accuracy, adequacy, completeness, timeliness or availability of any information provided by non-Morgan Creek sources, including accessibility of unavailable funds.

Risk Summary

Investment objectives are not projections of expected performance or guarantees of anticipated investment results. Actual performance and results may vary substantially from the stated objectives with respect to risks. Investments are speculative and are meant for sophisticated investors. An investor may lose all or a substantial part of its investment in funds managed by Morgan Creek Capital Management, LLC. There are also substantial restrictions on transfers. Certain of the underlying investment managers in which the funds managed by Morgan Creek Capital Management, LLC invest may employ leverage (certain Morgan Creek funds also employ leverage) or short selling, may purchase or sell options or derivatives and may invest in speculative or illiquid securities. Funds of funds have a number of layers of fees and expenses which may offset profits. This is a brief summary of investment risks. Prospective investors should carefully review the risk disclosures contained in the funds' Confidential Private Offering Memoranda. No investment is risk free; loss of principal is possible. Alternative investments involve specific risks that may be greater than those associated with traditional investments. One should consider the special risks with alternative investments, including limited liquidity, tax considerations, incentive fee structures, potentially speculative investment strategies, and different regularly and reporting requirements. There can be no assurance that any investment will meet its performance objectives or that substantial losses will be avoided.

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