

BLACKROCK®

Making it Count

Investment Outlook & Portfolio Implications

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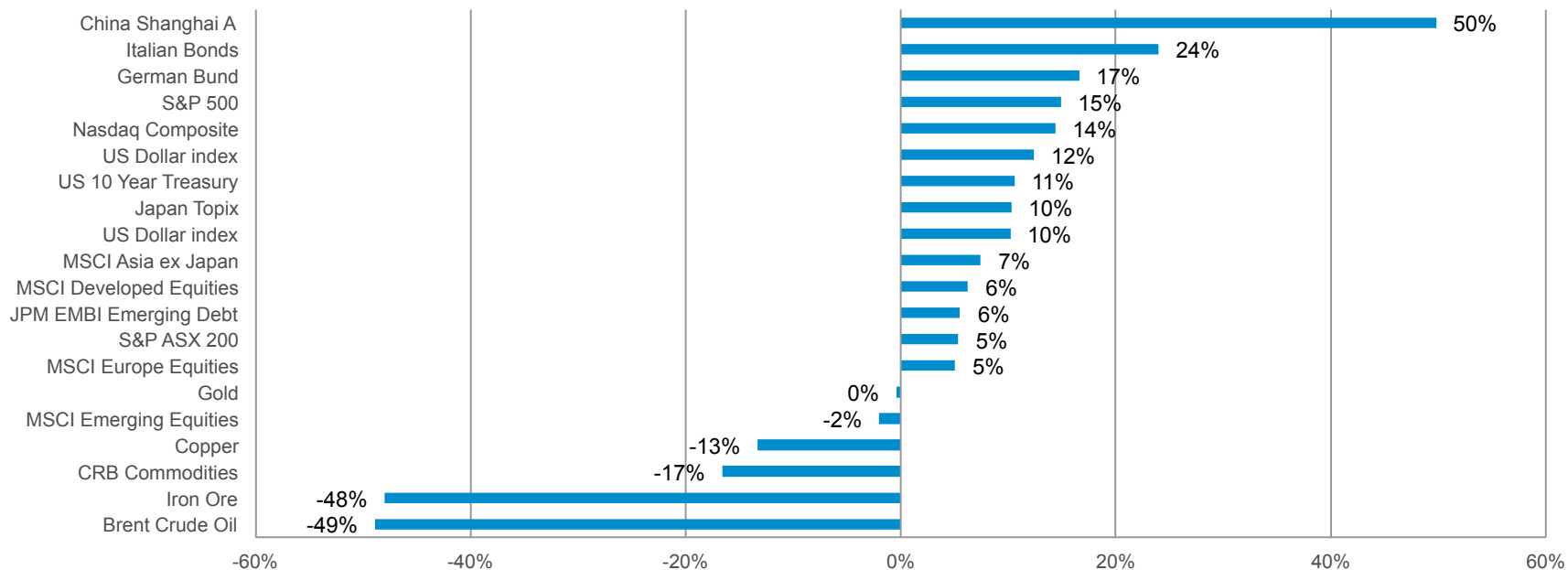
Learning outcomes for this session

- ▶ Investment outlook for 2015,
 - Where are the opportunities?
 - What are the risks?
- ▶ Multi Asset Portfolio Construction
 - Advanced techniques for portfolio construction; SAA, TAA, SS
 - Insight into the theory behind these techniques
- ▶ How to convert market views into implementable portfolios in a structured way
- ▶ Investigate risk management techniques to stress test portfolios

BlackRock Investment Outlook 2015

2014: The Scorecard

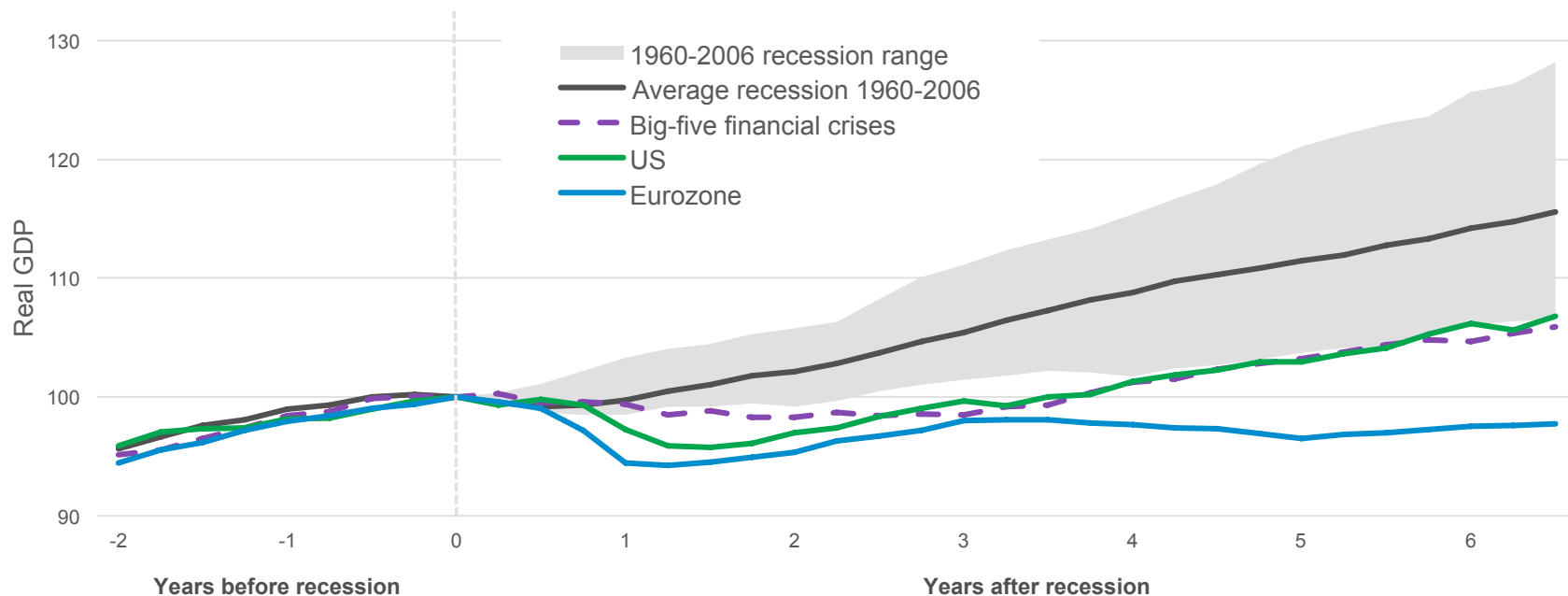
Asset Class Returns 2014



Source: Thomson Reuters, BlackRock Investment Institute, December 2014

Global Recovery: This Time is Different

Current vs. Past Recoveries from Recession, 1960 - 2014



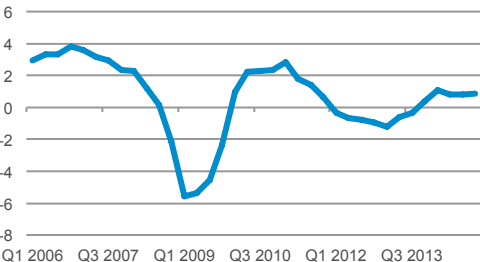
Sources: Thomson Reuters, Datastream, BlackRock Investment Institute, and IMF, November 2014

Diverging Growth

United States



Euro zone



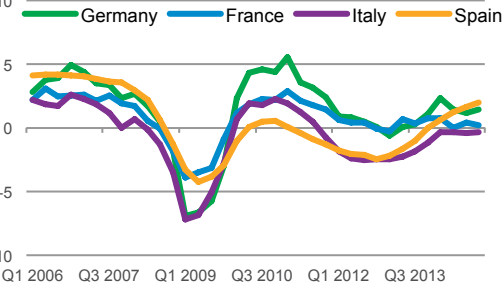
Japan



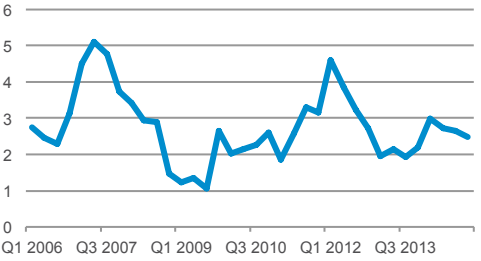
China



Euro zone Countries



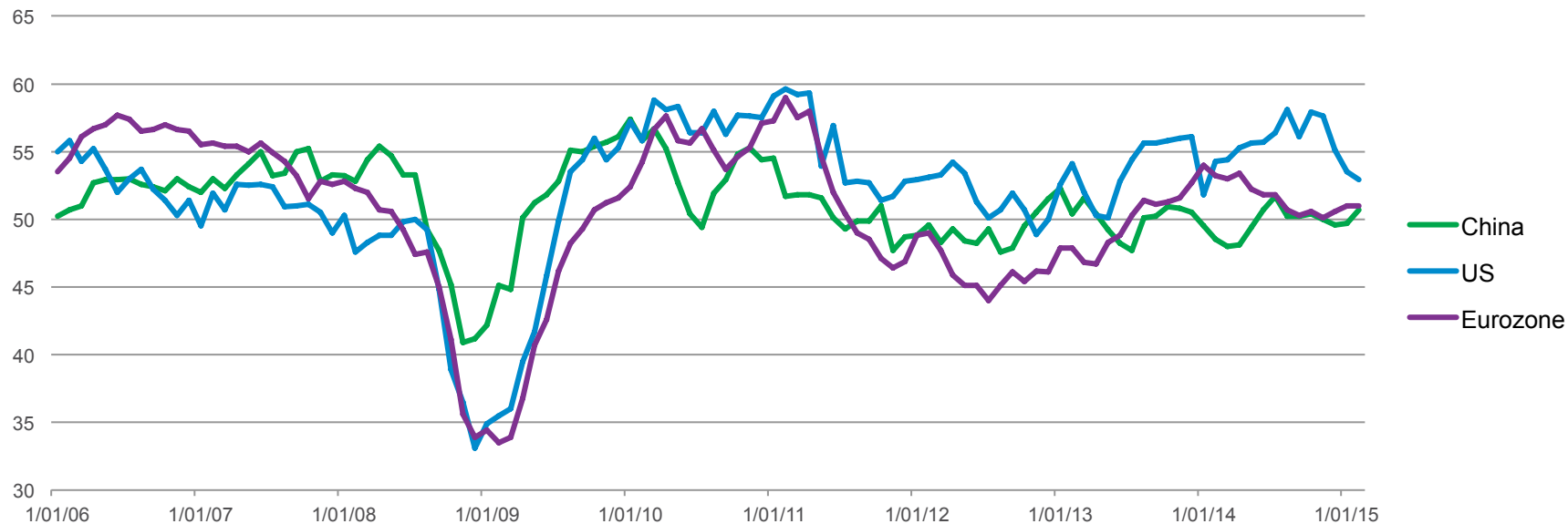
Australia



Source: Thomson Reuters, BlackRock Investment Institute, February 2015

US outperformance vs rest of the world but is this changing?

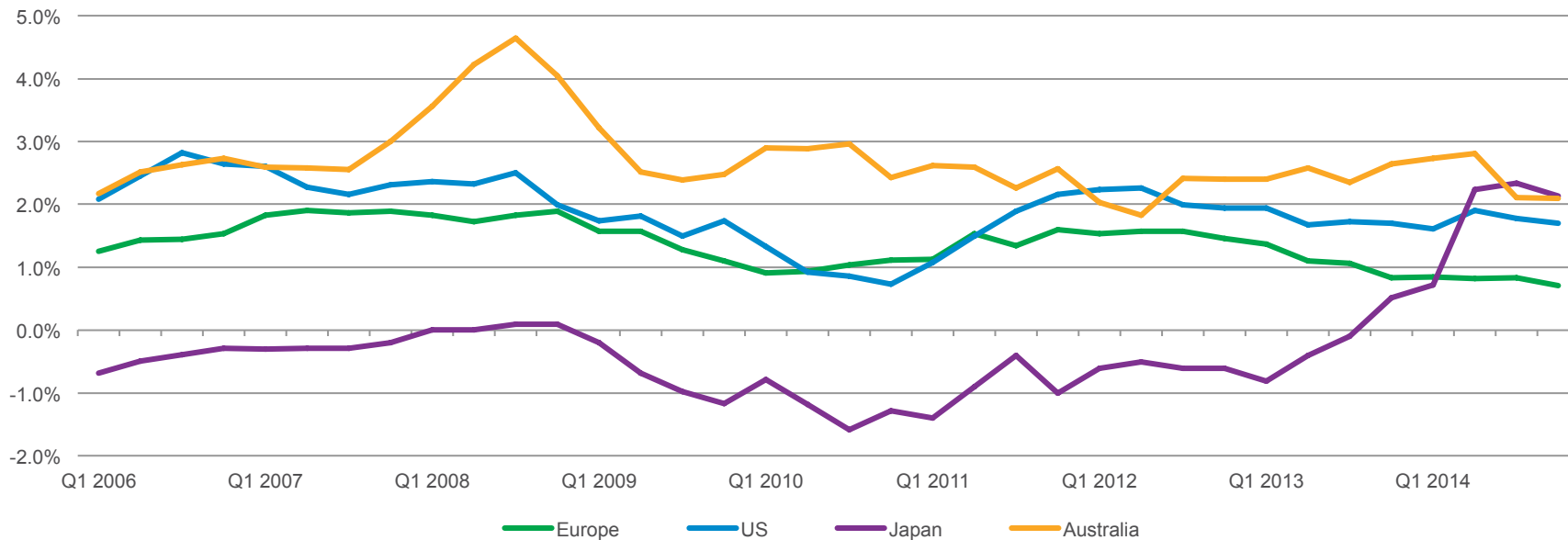
Global Manufacturing Activity



Source: Thomson Reuters, BlackRock Investment Institute, February 2015

Global Inflation

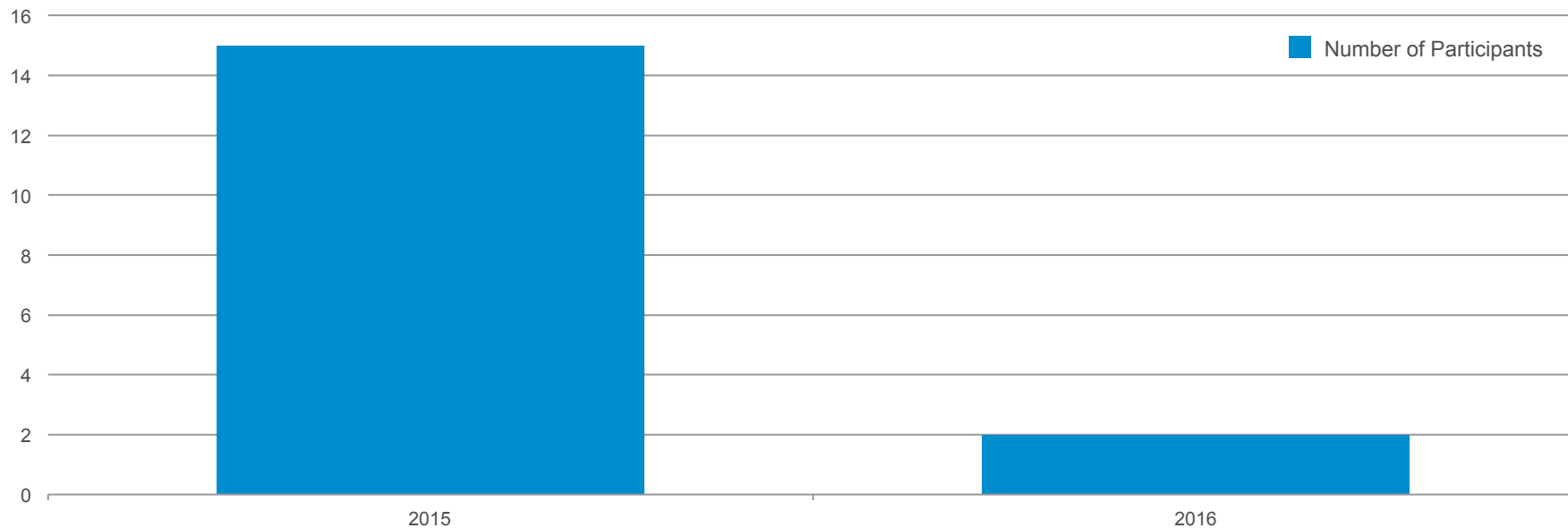
Inflation Ex Food and Energy



Source: Thomson Reuters, BlackRock Investment Institute, February 2015

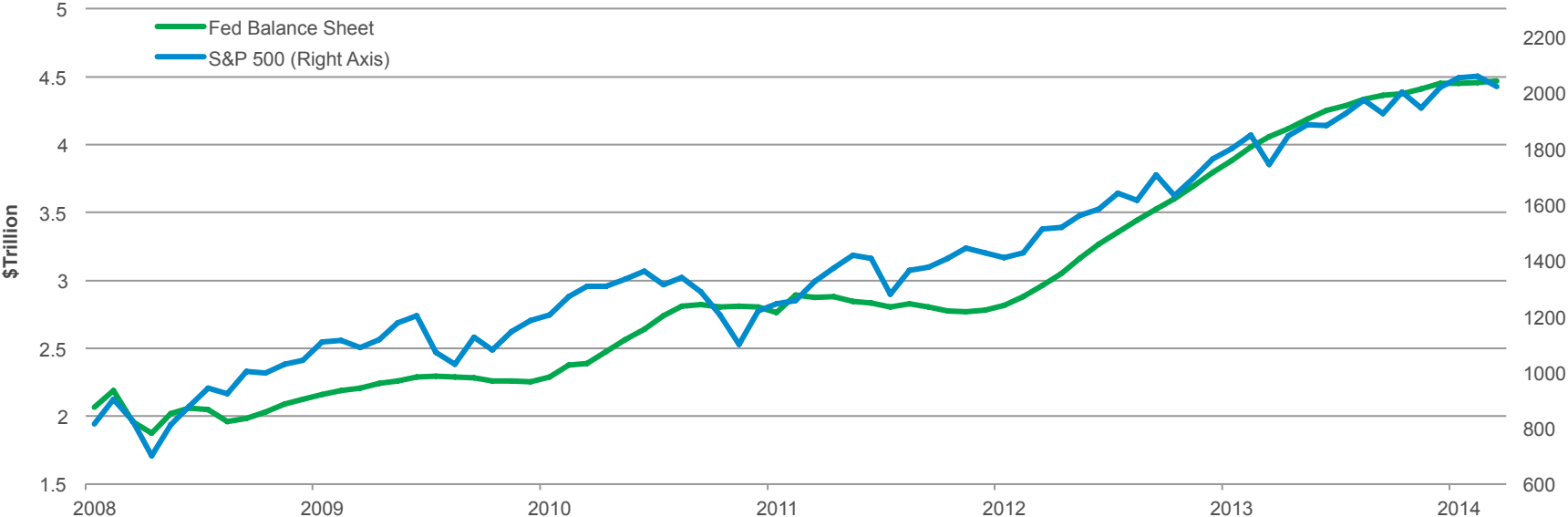
All eyes on FOMC in 2015

FOMC Appropriate timing of first rate increase



Source: Monetary Policy Report, US Federal Reserve, February 2015

US Equities and QE

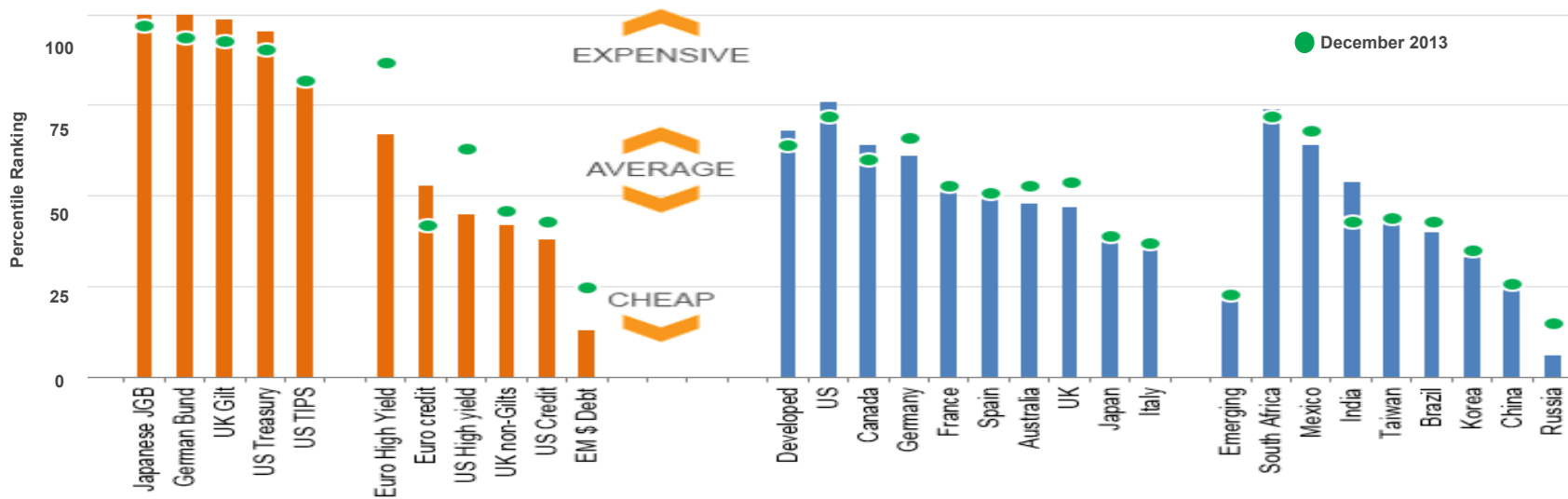


Source: Thomson Reuters Datastream, US Federal Reserve, BlackRock Investment Institute, February 2015

Asset Valuations vs Historic Norm

Fixed Income

Equities



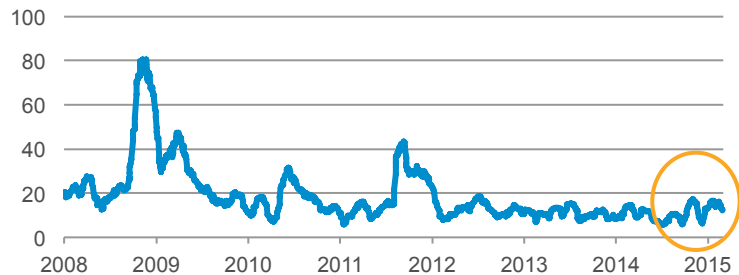
Date as at 31 December 2014

Source: Thomson Reuters Datastream, US Federal Reserve, BlackRock Investment Institute, February 2015

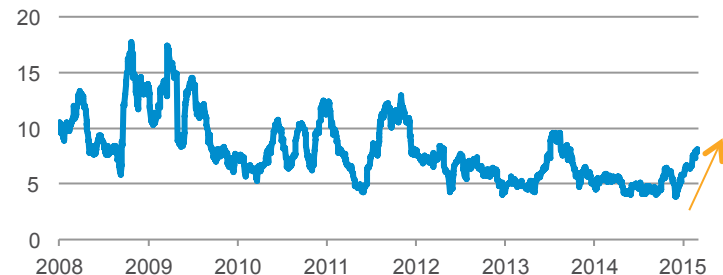
Notes: Percentile ranks show valuations of assets versus their historical ranges. Example: If an asset is in the 75th percentile, this means it trades at a valuation equal to or greater than 75% of its history. Valuation percentiles are based on an aggregation of standard valuation measures versus their long-term history. Government bonds are 10-year benchmark issues. Credit series are based on Barclays indexes and the spread over government bonds. Treasury Inflation Protected Securities (TIPS) are represented by nominal U.S. 10-year Treasuries minus inflation expectations. Equity valuations are based on MSCI indexes and are an average of percentile ranks versus available history of earnings yield, trend real earnings, dividend yield, price to book, price to cash flow and 12-month forward earnings yield. Historical ranges extend back anywhere from 1969 (developed equities) to 2004 (EM\$ debt).

Historic Asset Volatility

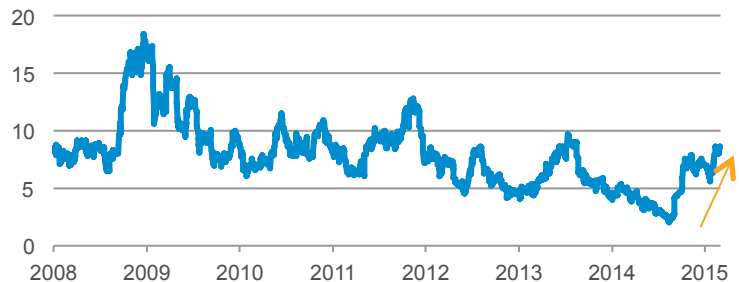
US Equities



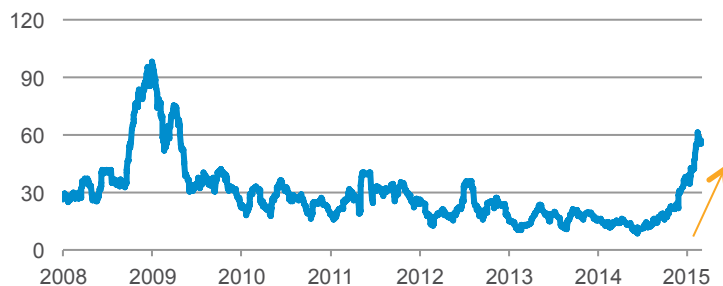
US 10yr Treasury



US Dollar



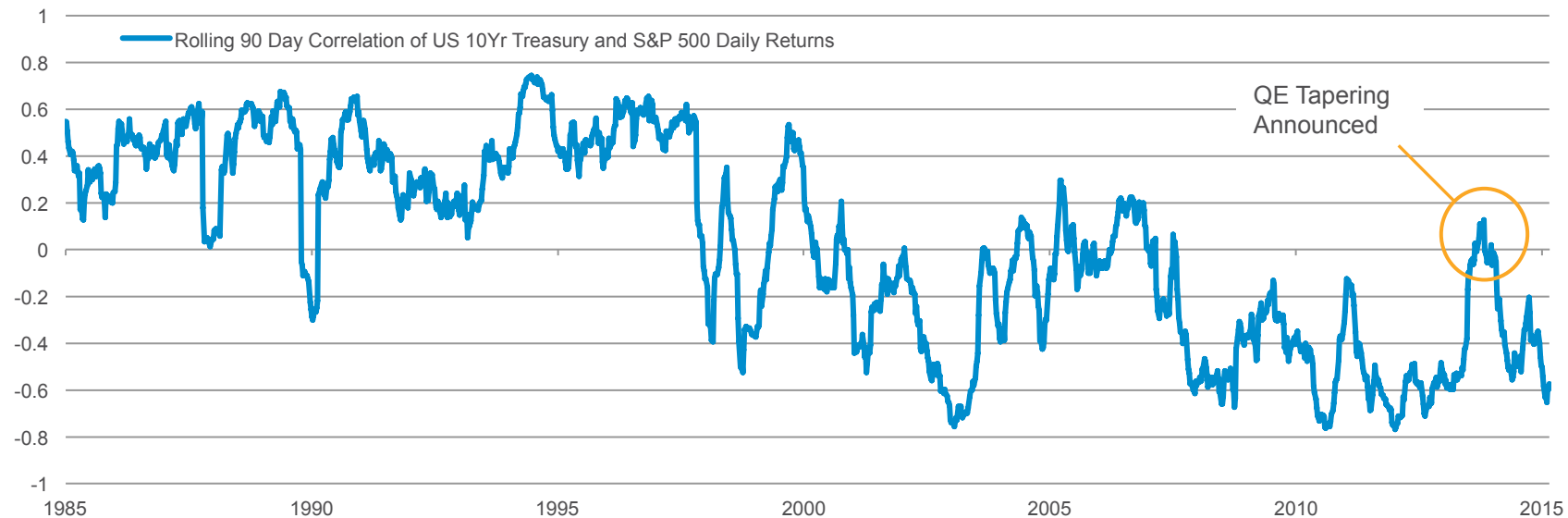
Brent Crude



Source: Thomson Reuters Datastream, US Federal Reserve, BlackRock Investment Institute, February 2015

Correlations - a new normal or correction looming?

Correlation of Bond and Equity Returns



Source: Thomson Reuters Datastream, US Federal Reserve, BlackRock Investment Institute, February 2015

Base case for 2015

Our base case for 2015 is a world of divergence in terms of economic growth and monetary policy

- ▶ Slightly tighter financial conditions in the US and UK, while looser policies mostly elsewhere



Source: BlackRock Investment Institute, as of November 2014. Note: Nominal Growth forecasts from IMF World Economic Outlook

Assessment Question

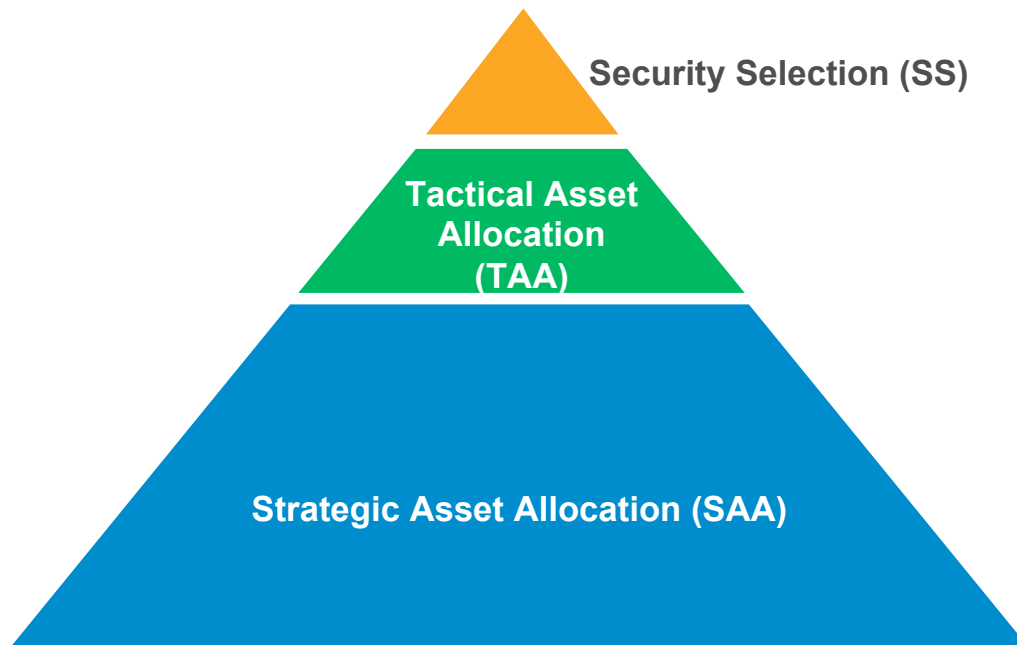
What is the likely outlook for asset class volatility and correlations going forward?

- a. Higher volatility, lower correlations
- b. Lower volatility, higher correlations
- c. Higher volatility, higher correlations
- d. Lower volatility, lower correlations

Implications for Portfolio Construction

Portfolio Construction - what matters?

Asset Allocation explains around 90% of a funds variability in returns*



*Source: Determinants of Portfolio Performance, Brinson, Hood and Beebower, 1986

Portfolio Construction - 4 Step Process

1. Determine Strategic Asset Allocation

- ▶ Establish long term assumptions for each asset class
- ▶ Build candidate SAA's with appropriate characteristics
- ▶ Stress Test SAA's

2. Determine sources of Active Return

- ▶ Tactical Asset Allocation across asset classes
- ▶ Security selection within asset classes
- ▶ Choose strategies that optimise use of risk Budget

3. Construct portfolio combining SAA + Alpha

- ▶ Efficient use of capital, use derivatives to free up capital for alpha strategies
- ▶ Cost effective implementation of market beta's

4. Measure, monitor and manage Risk

- ▶ Measure and monitor risks, stress and scenario testing
- ▶ Implement changes accordingly

Source: BlackRock

1. Determine Strategic Asset Allocation

I. Derive Asset Class Assumptions

A. Macro Forecasts

Metric	Derivation	US	EU	UK	JP	EM
Real GDP	Trend growth forecasts, labour force growth & productivity.	2.5%	1.5%	2.0%	1.0%	4.0%
Inflation	On average central Banks meet inflation targets	2.3%	1.5%	2.0%	1.5%	4.0%
Real Rates	Assume long term equilibrium real rate of 2%	2.0%	2.0%	1.0%	1.0%	
P/E	P/E representing fair value for each region	17.5	16.5	14.5	16.5	14.0
Earnings Trend	Potential earning growth	Above	Below	Below	Neutral	Below

Source: BlackRock, illustrative example only

1. Determine Strategic Asset Allocation

I. Derive Asset Class Assumptions

B. Asset Class Forecasts

Metric	Derivation	US	EM
Dividend Yield	Observed Dividend Yields	2.0%	2.7%
Change in Valuation	PE Multiples vs long run sustainable levels	-1.8%	0.9%
Earnings	Nominal GDP Growth +/- trend earnings vs long term average	4.0%	6.2%
Subjective Overlay	Adjustments for Relativities across markets	0.8%	+0.3%
Currency Impact	All forecasts derived in common currency (USD)	0.0%	-3.7%
		5.0%	5.5%

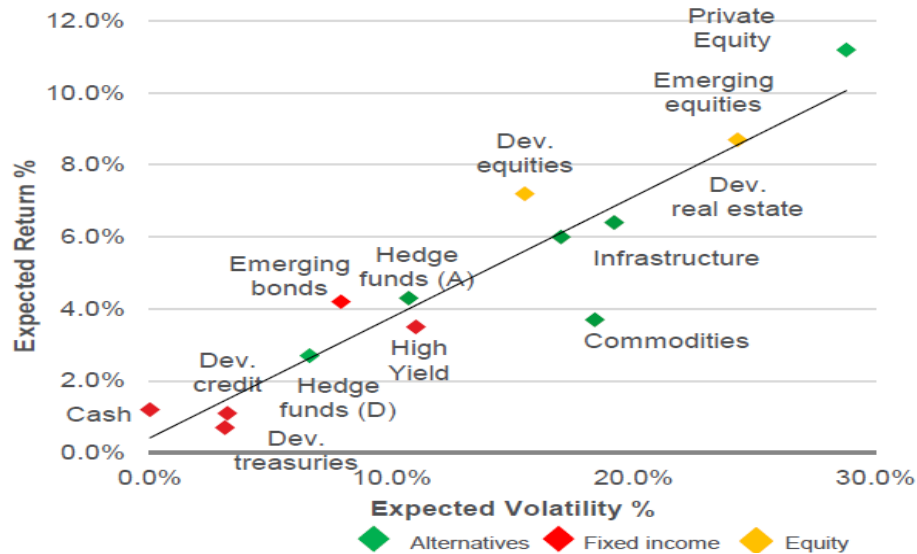
Source: BlackRock, illustrative example only

1. Determine Strategic Asset Allocation

I. Derive Asset Class Assumptions

B. Asset Class Forecasts

5 Year Risk and Return Assumptions



Source: BlackRock Solutions

1. Determine Strategic Asset Allocation

I. Derive Asset Class Assumptions

C. Asset Class Correlations

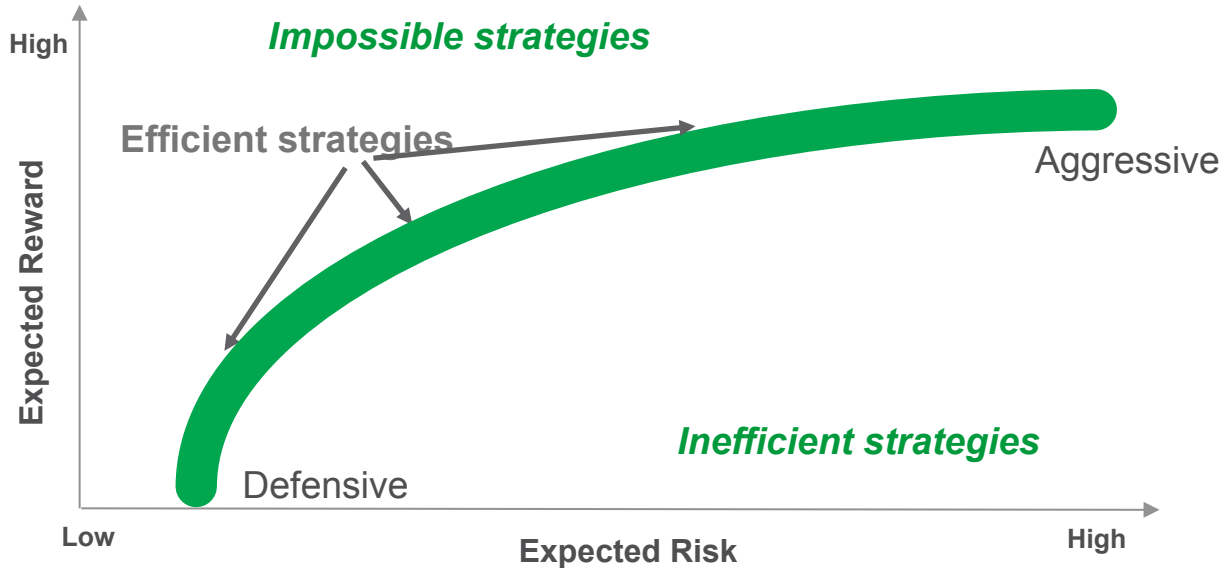
	AUEQ	INEQ	INEQH	EMEQ	AUB	AUILB	INB	INCR	INHY	EMBH	AUREIT	INREIT	INFR
AUEQ	1	0.5	0.8	0.7	-0.1	-0.1	0	0.1	0.4	0.2	0	0.1	0.1
INEQ	0.5	1	0.7	0.6	0	0	-0.2	0.1	0.2	0.1	0	0.5	0.5
INEQH	0.8	0.7	1	0.7	-0.2	-0.2	0	0.1	0.5	0.3	0	0.2	0.2
EMEQ	0.7	0.6	0.7	1	-0.1	-0.1	-0.1	0	0.4	0.2	0	0.2	0.2
AUB	-0.1	0	-0.2	-0.1	1	0.7	0.7	0.4	0	0.2	0	0	0
AUILB	-0.1	0	-0.2	-0.1	0.7	1	0.6	0.3	0	0.1	0	0	0
INB	0	-0.2	0	-0.1	0.7	0.6	1	0.6	0.3	0.2	0	0	0
INCR	0.1	0.1	0.1	0	0.4	0.3	0.6	1	0.5	0.5	0	0	0
INHY	0.4	0.2	0.5	0.4	0	0	0.3	0.5	1	0.6	0	0.1	0
EMBH	0.2	0.1	0.3	0.2	0.2	0.1	0.2	0.5	0.6	1	0	0	0
AUREIT	0	0	0	0	0	0	0	0	0	0	1	0	0
INREIT	0.1	0.5	0.2	0.2	0	0	0	0	0.1	0	0	1	0.6
INFR	0.1	0.5	0.2	0.2	0	0	0	0	0	0	0	0.6	1

Source: BlackRock, illustrative example only

1. Determine Strategic Asset Allocation

II. Build Candidate Portfolios on Efficiency Frontier

- ▶ Taking into account portfolio constraints & non-normal distributions
- ▶ Stress test results



Source: BlackRock, illustrative example only

Assessment Question

What drives most of the variability in fund returns (Strategic Allocation, Tactical Asset Allocation, Security Selection) and roughly what percentage

- a. Strategic Allocation; 60%
- b. Tactical Allocation; 75%
- c. Security Selection; 80%
- d. Strategic Allocation; 90%

2. Seek the most efficient active returns

- ▶ Determine the Active Risk Budget (or return target) eg. typically 2%– 4%
- ▶ Determine the split between Tactical Asset Allocation (TAA) & Stock Selection (SS)
- ▶ Choose the most efficient source of “alpha” for each asset class (ie. highest IR strategies)

The Fundamental Law of Active Management

Superior Risk Adjusted Returns (IR) = Skill X $\sqrt{\text{Breadth}}$ X Efficiency



Find a game you can win, play it often and play it smart

Source: Grinold, R and Khan, R. (2000) Active Portfolio Management, 2nd edition: McGraw-Hill

2. Seek the most efficient active returns - example

Long-Only Manager:

$$IR = 0.5 \times \sqrt{300} \times 0.5 = 0.5$$

Long/Short Manager:

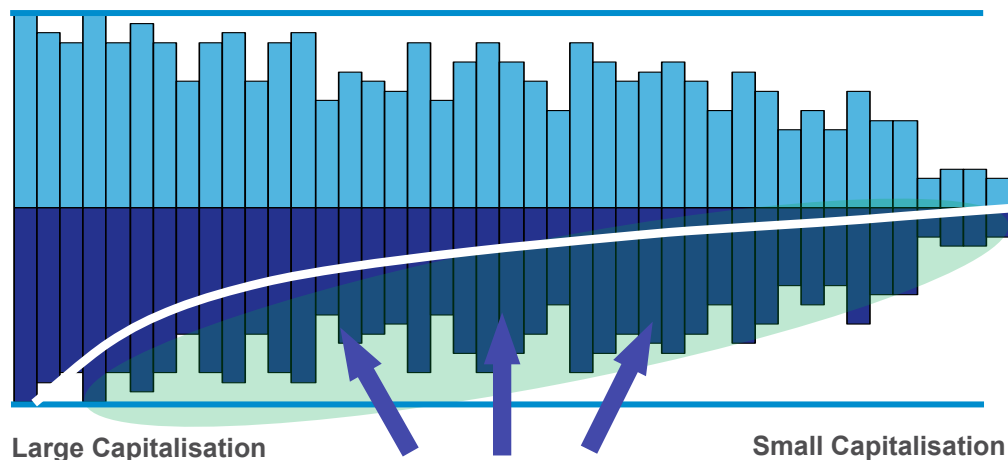
$$IR = 0.5 \times \sqrt{300} \times 0.8 = 0.8$$

Removing the long-only constraint

Maximum active stock position

Benchmark

Minimum active stock position



New Opportunities created
by allowing short positions

Source: BlackRock, illustrative example only

2. Seek the most efficient active returns - example

Stock name	12 month performance	ASX200 Weight (31-Dec-12)	Possible alpha in Long-Only portfolio (did not hold stocks)	Possible alpha in Long-Short portfolio (3% underweight)
Ten Network Holdings	-55%	3bps	1bps	164bps
Fairfax Media Limited	-29%	8bps	2bps	88bps
Newcrest Mining	-26%	151bps	40bps	79bps
Billabong International	-41%	3bps	1bps	124bps
Total Portfolio Contribution			45bps	455bps

Expressing negative stock views can add considerable value

Source: BlackRock, illustrative example only

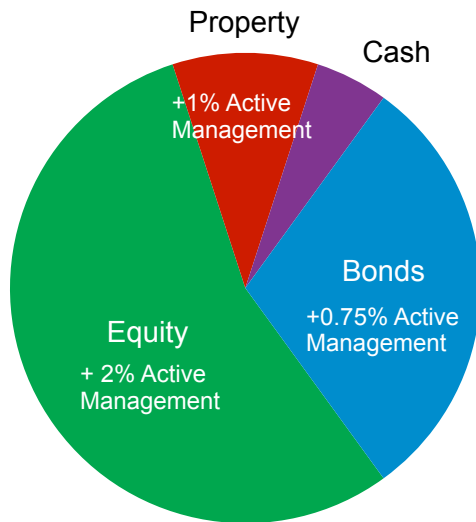
For illustrative purposes only. This is not a recommendation to invest in any particular securities. The securities in the example were selected for the illustrative purposes. No analysis of their suitability was conducted and no statement of opinion in relation to their suitability is provided. Past performance is not indicative of future performance.

3. Construct Portfolio (combine Strategic Asset Allocation with alpha sources)

Traditional Portfolio

Traditional Equity

- Australian - Large Cap
- Australia – Small Cap
- Value
- Growth
- International Equities
- Emerging markets



Other Assets

- Property
- Cash
- Real assets

Traditional Fixed Income

- Sovereign Bonds
- Corporates
- High yield
- Emerging markets

Implementation

- ▶ Exposure to Equity and Bond allocations gained via physical exposures
- ▶ Active returns sourced via allocations to “long only” active strategies versus a beta benchmark
- ▶ Portfolio targets 1.5% active return for 3% active risk (IR 0.5)
- ▶ Active managers aim to “beat the benchmark”
- ▶ Market returns dominate overall portfolio return (95% of expected risk from Equities)

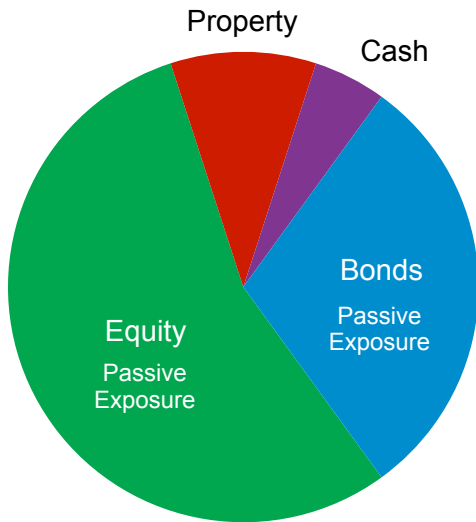
Source: BlackRock, illustrative example only

3. Construct Portfolio (combine Strategic Asset Allocation with alpha sources)

Traditional Portfolio + Alternatives

Traditional Equity

- Australian - Large Cap
- Australia – Small Cap
- Value
- Growth
- International Equities
- Emerging markets



Other Assets

- Property
- Cash
- Real assets

Traditional Fixed Income

- Sovereign Bonds
- Corporates
- High yield
- Emerging markets

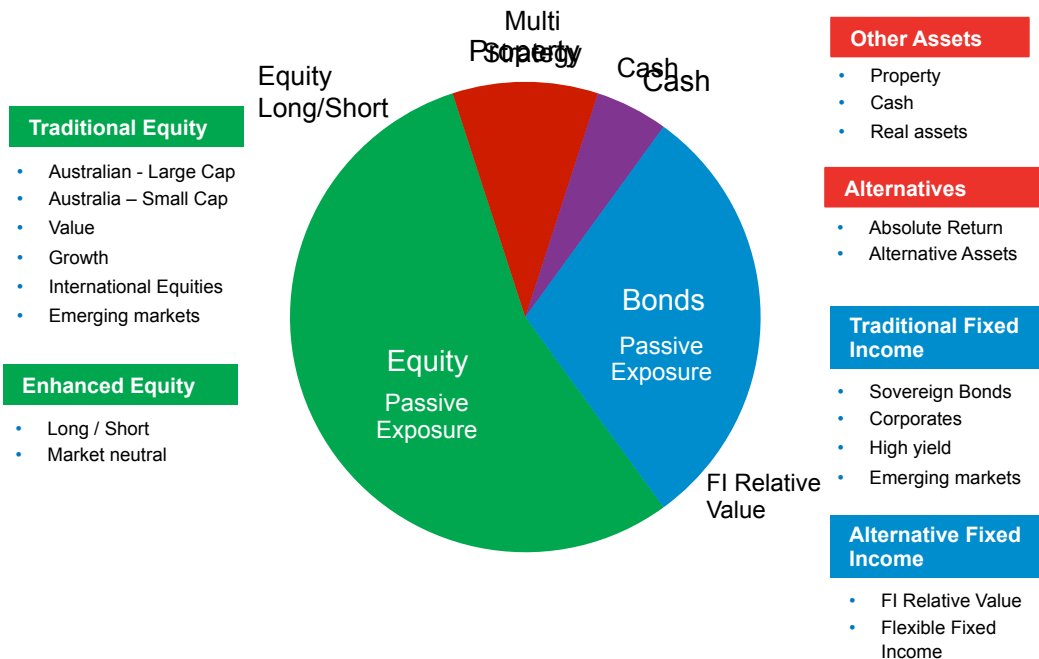
Implementation

- ▶ Physical Exposures implemented via derivatives to free up capital

Source: BlackRock, illustrative example only

3. Construct Portfolio (combine Strategic Asset Allocation with alpha sources)

Traditional Portfolio + Alternatives



Implementation

- ▶ Physical Exposures implemented via derivatives to free up capital
- ▶ Capital allocated to Alternative sources of alpha
- ▶ Portfolio targets 2% active return for 2% active risk (IR 1)
- ▶ Active managers aim to provide “Absolute Returns”
- ▶ Portfolio less reliant on traditional beta exposures to drive returns

Source: BlackRock, illustrative example only

Assessment Question

What does the fundamental law provide a framework for maximising?

- a. Information Ratio
- b. Total returns
- c. Sortino Ratio

What are the three key components of the fundamental law?

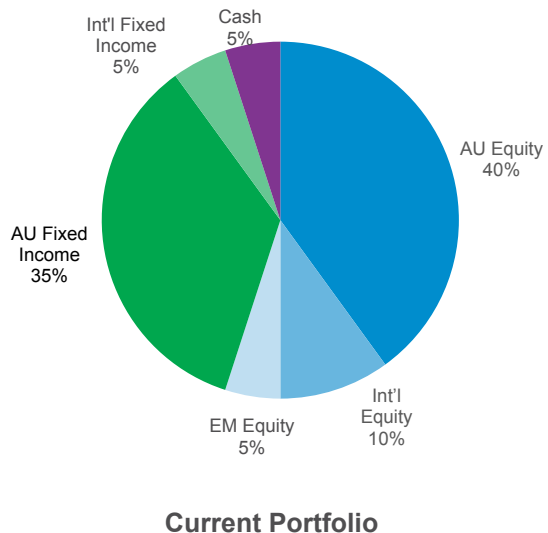
- a. Skill, breadth and efficiency
- b. Skill, breadth and talent
- c. Skill, depth and efficiency

4. Measure, Monitor and Manage Risk – Understand What you Own

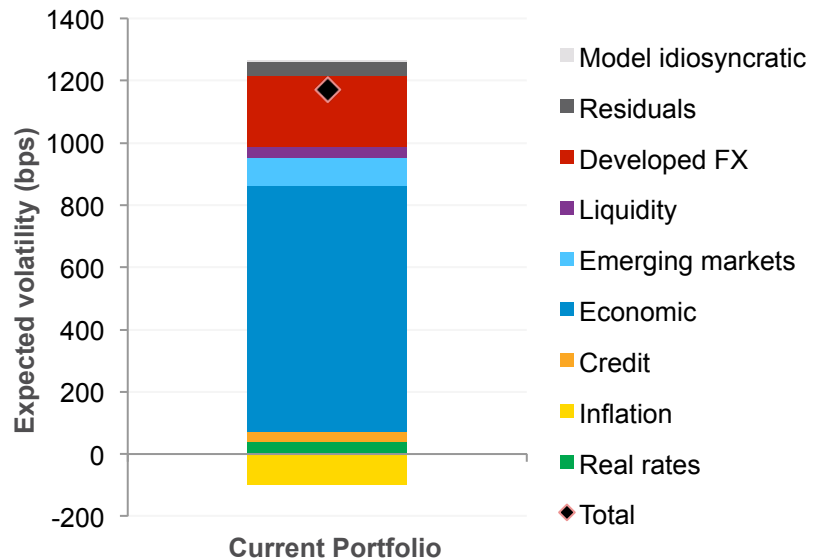
Looking through a different lens

- ▶ Asset Class exposures can be decomposed into bundles of risk premia

Capital Allocation



Risk decomposition using macro risk factors



Source: BlackRock, illustrative example only

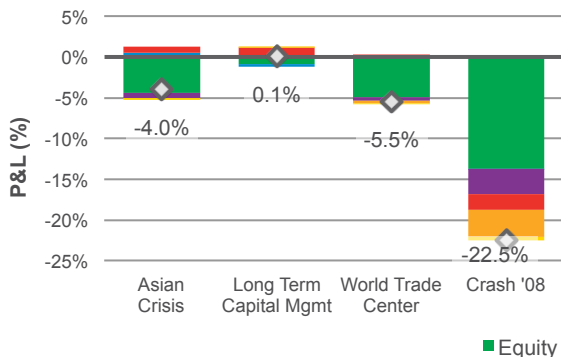
4. Measure, Monitor and Manage Risk – Stress Test & Scenario Analysis

Stress testing allows for analysis of the portfolio under historical downside events as well as a variety of future hypothetical scenarios

- ▶ Interest rate shocks: upward movement in rates hurts returns but is offset by the resulting rally in risk assets
- ▶ Inflation shocks: model the effects of changes in inflation on portfolio asset prices

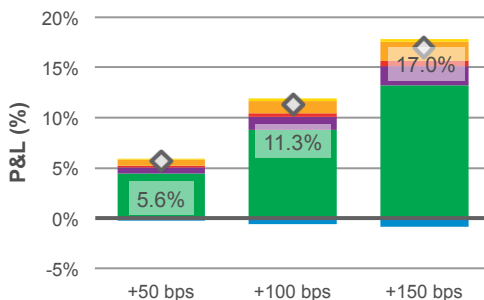
Historical Stress Testing

Model the P&L effect on the portfolio of market conditions experienced under historical time periods



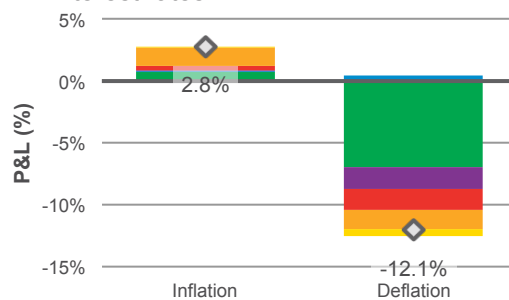
Single-Factor Shocks

Considers the P&L implication on the total portfolio of an upward movement in US 10-Year rates at various magnitudes



Regime Analysis: Inflation

Under hypothetical inflation, short-term rates increase and real assets rally. Deflation includes an equity slowdown and a decrease in interest rates



Source: BlackRock, illustrative example only

Equity Rates Spreads FX Alternative Inflation Total

Does this framework work?

BlackRock Wholesale Balanced Fund

Period	1 Year	3 Years	5 Years	10 Years
Quartile Ranking	2	1	1	1
Peer Group Rank	83	36	39	5
Peer Group Count	230	212	185	145
Fund Performance	8.7%	14.7%	8.3%	7.3%

BlackRock Scientific Diversified Growth Fund

Period	1 Year	3 Years	5 Years	10 Years
Quartile Ranking	1	1	1	1
Peer Group Rank	39	8	8	22
Peer Group Count	230	212	185	145
Fund Performance	9.6%	15.7%	9.3%	6.6%

Source: Morningstar Multi Sector Growth Universe, as of 31 December 2014. Performance figures have been calculated using a Morningstar methodology based on BlackRock raw data.

Assessment Question

What is the purpose of implementing capital efficient & cost effective SAA?

- a. Free up capital for redeployment to active strategies
- b. Free up capital for redeployment to passive strategies
- c. Free up capital for redeployment to quantitative strategies

Learning Outcomes

2015 Investment Outlook

- ▶ Divergent sub-trend global growth
- ▶ Expect more muted asset class returns going forward
- ▶ Volatility & correlations may be higher challenging portfolio diversification

Portfolio Construction

- ▶ Strategic Allocation drives most of the portfolios returns
- ▶ Spend active risk budget wisely
 - Access cheap & cost effective beta
 - Utilise “efficient alpha” to diversify returns
- ▶ Measure, monitor and manage risk

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