

# Risk management within a multi-asset strategy July/August 2018



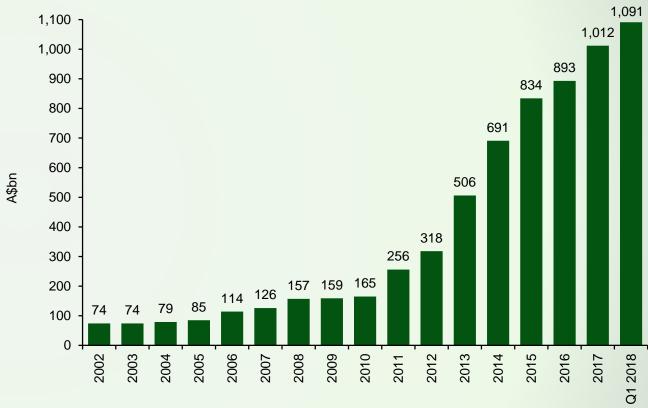


# Who is Insight Investment?



- Asset manager owned by BNY Mellon:
  - based in London, New York, Sydney and Tokyo
  - over A\$1trn in assets under management
  - 226 investment professionals, 778 total staff
- Key ingredients of our success:
  - differentiated investment proposition
  - outcome focused investing
  - partnering with our clients
  - a culture of ownership
- Key areas of specialisation:
  - risk management solutions
  - fixed income
  - multi-asset

#### Assets under management<sup>1</sup>



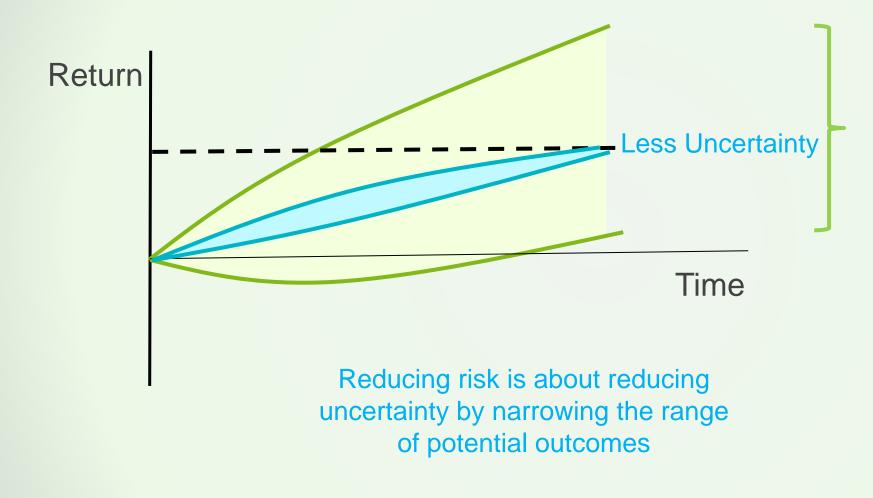
As at 31 March 2018. Assets under management (AUM) are represented by the value of cash securities and other economic exposure managed for clients. Figures shown in AUD. FX rates as per WM Reuters 4pm spot rates. Reflects the AUM of Insight, the corporate brand for certain companies operated by Insight Investment Management Limited (IIML). Insight includes, among others, Insight Investment Management (Global) Limited (IIMG), Insight Investment International Limited (IIIL), Cutwater Asset Management Corp. (CAMC), Cutwater Investor Services Corp. (CISC) and Insight North America LLC (INA), each of which provides asset management services.

<sup>&</sup>lt;sup>1</sup> Excludes previous parent introduced assets prior to 2009.



# The "Holy Grail"...





Uncertainty = a large range of potential outcomes

For illustrative purposes only.

# Three key investment management tools



#### Diversification

Access as many different sources of returns as possible

## Dynamic Asset Allocation

Steer towards investments when the environment is favourable

#### Downside Risk Control

 Have a process that reduces risk when things go wrong – for example a risk budgeting approach

## Diversification: access different sources of return





For illustrative purposes only and subject to change.



## Diversification at work



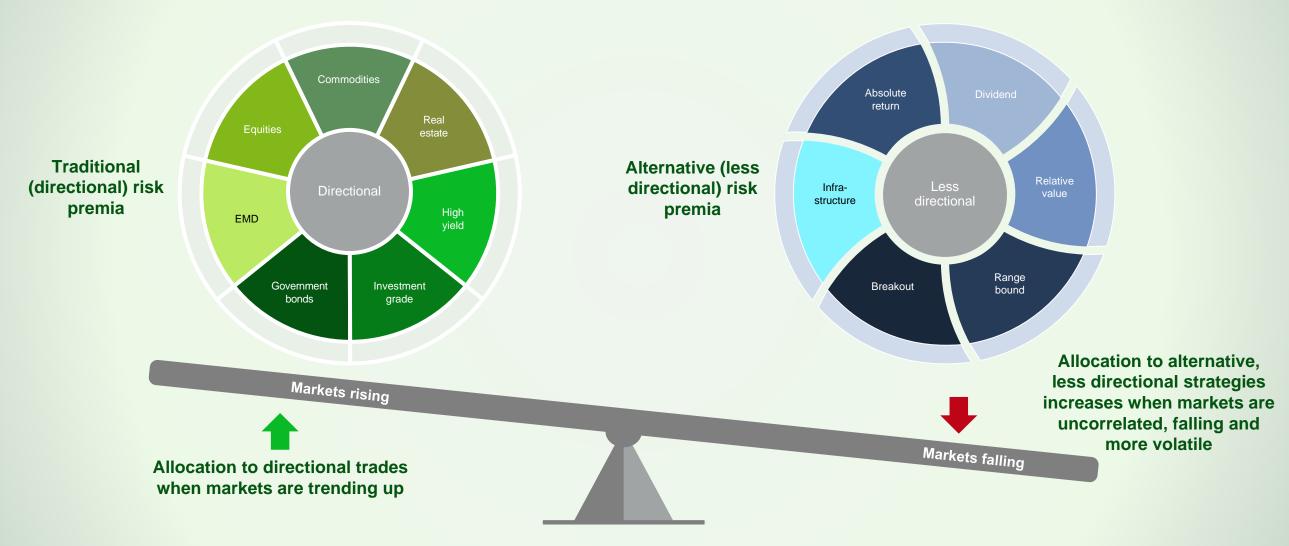


Source: Insight. Data is for the Insight Diversified Inflation Plus Fund as at 31 March 2018. 3-years of weekly data for realised annualised volatility of current individual positions compared to the fund's expected annualised volatility.



## Directional v non-directional exposures

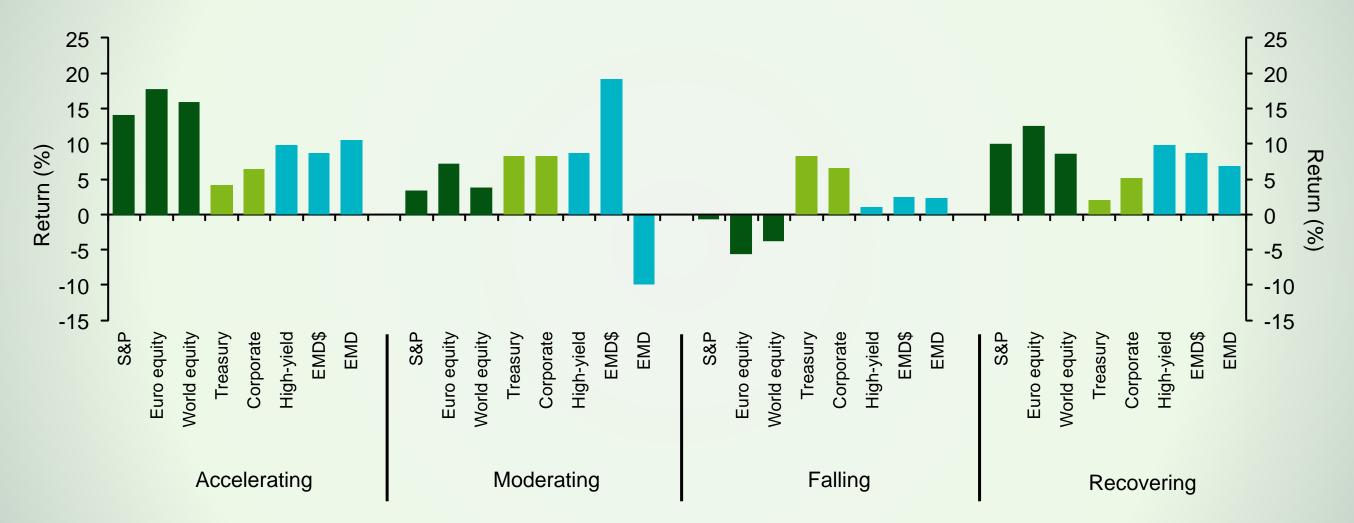




For illustrative purposes only.

Shift your asset allocation to reflect the economic and market cycle





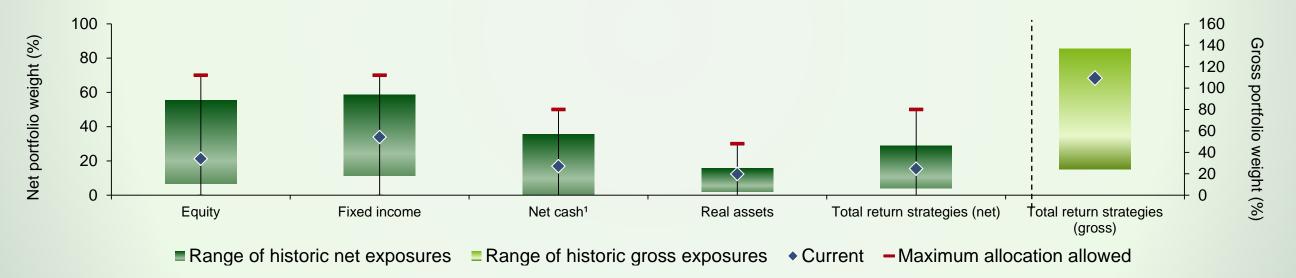
Source: Bloomberg, Thomson Reuters and Insight Investment as at January 2018. Equity market data is from 1973. Treasury and corporate bond data is from 1973. High-yield bond data is from 1986. EM USD debt data is from 1987. EM local currency debt data is from 2008.

## Maximum and minimum asset allocations



#### **Asset allocation range over time**

|                        |        |              |          |             | Total return     | Total return       |  |
|------------------------|--------|--------------|----------|-------------|------------------|--------------------|--|
|                        | Equity | Fixed income | Net cash | Real assets | strategies (net) | strategies (gross) |  |
| Max allocation (%)     | 70.0   | 70.0         | 50.0     | 30.0        | 50.0             | na                 |  |
| Max realised (%)       | 55.4   | 58.5         | 35.7     | 15.6        | 28.9             | 136.8              |  |
| Min allocation (%)     | 0.0    | 0.0          | 0.0      | 0.0         | 0.0              | 0.0                |  |
| Min realised (%)       | 6.8    | 11.3         | 0.0      | 2.0         | 3.9              | 24.3               |  |
| Current allocation (%) | 22.2   | 36.1         | 9.2      | 14.1        | 18.4             | 125.5              |  |

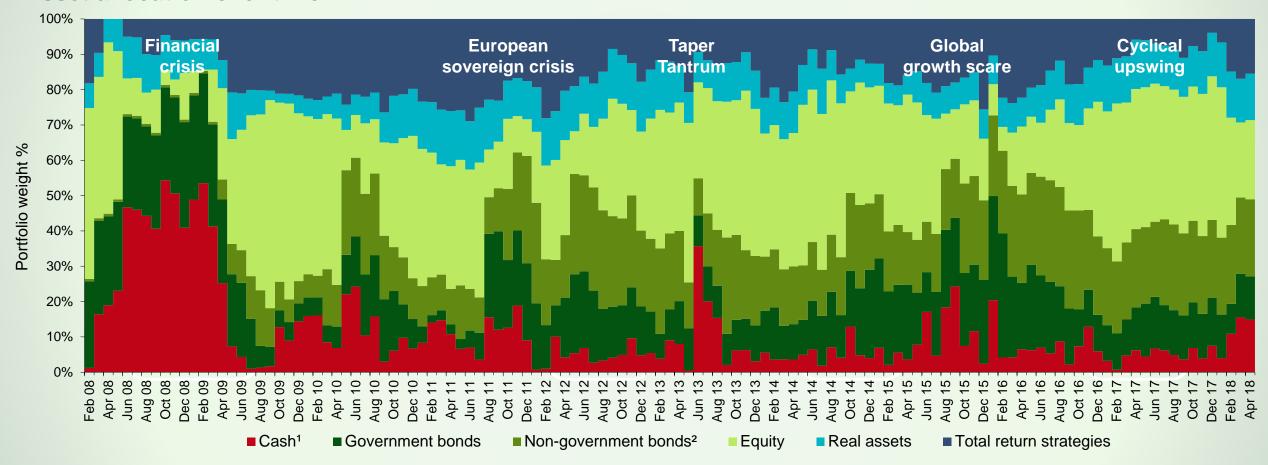


Source: Insight. Represents asset allocation from Insight Broad Opportunities Strategy from 1 October 2009 to 31 March 2018. Positions are shown on a net basis apart from total return strategies which are shown both net and gross. 1 Cash: Includes cash at bank, FX forwards and money market instruments.

## Historical perspective



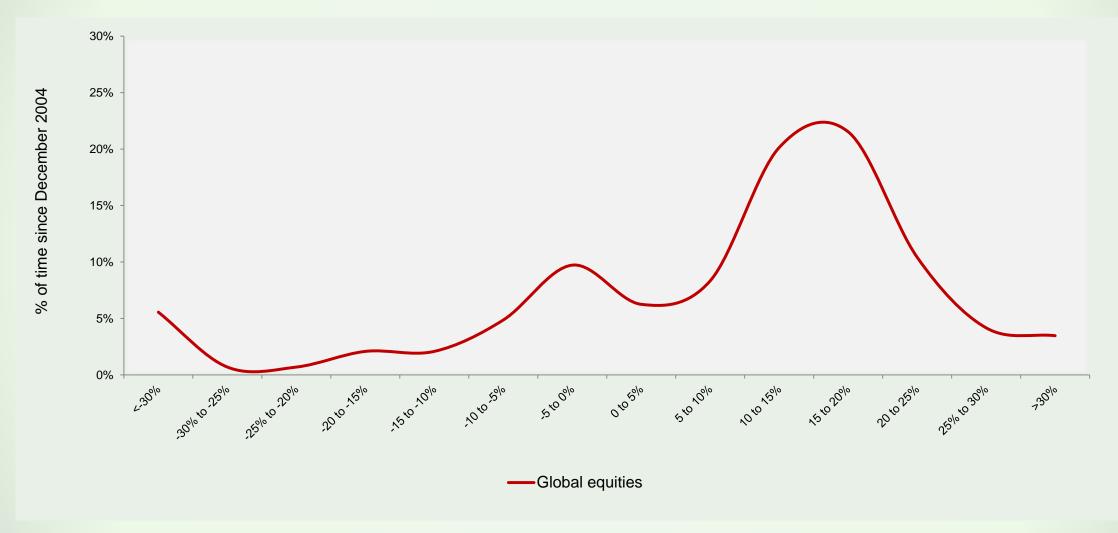
#### Asset allocation over time



Source: Insight. Represents Insight Broad Opportunities Strategy from 1 February 2008 at 30 April 2018. Positions are shown on a net basis. <sup>1</sup> Cash: Includes cash at bank, FX forwards and money market instruments. <sup>2</sup> Non-government bonds represents high yield, investment grade and emerging market bonds. Allocations are subject to review and may change without notice.

## Global equities have a nasty left hand tail



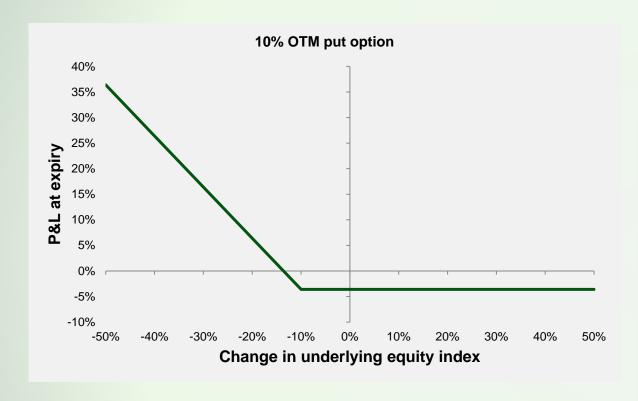


Source: Insight for period 01/12/2004–31/12/2017. Global equities represented by MSCI World Index, in gross, local currency terms.

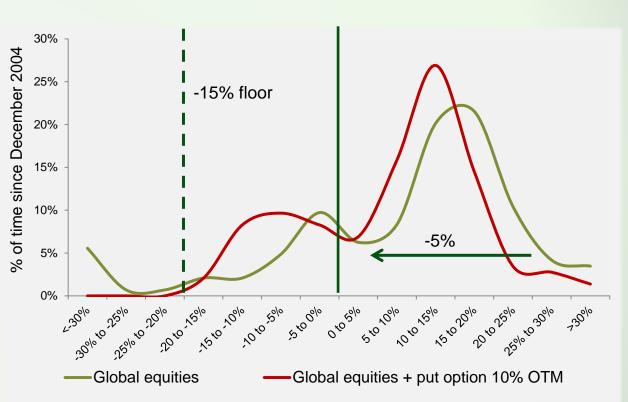


## Simple put protection – it can be expensive!





Buying put protection is the simplest method of reducing risk, but it can be very expensive



Source: Insight – Put chart for illustrative purposes only. Insight as at 01/12/2004-31/12/2017. Global equities represented by MSCI World Index, in gross, local currency terms.



## **Example of Dynamic Risk Management**



#### Scenario 1: markets rise

- Fund makes gains
- Loss tolerance increases
- Risk budget expands



#### Starting point

How much can equity markets fall in extreme events?

What is our one-year loss tolerance?



#### Scenario 2: markets fall

- Fund makes losses
- Loss tolerance reduces
- Risk budget contracts

For illustrative purposes only.



**Initial Risk Budget** 



#### Risk budget split into four components which re-set annually at different quarter-ends

- Harvest gains from rising markets
- Allow re-investment after market falls

#### **Team discretionary overlay**

• Risk budget provides the anchor around which team can express their forward looking views



## Hypothetical example



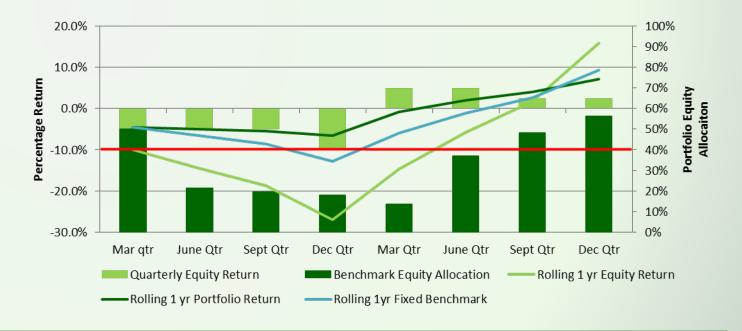
#### Scenario

- 2 year investment period
- Fixed Benchmark allocation 50% equity / 50% fixed Income
- Equity markets fall 30% in year 1 and recover 15% in year 2
- 3%pa yield on fixed income
- Primary Objective: control losses to -10% on a 1 year basis

#### Results

- Total Performance over 2 years
  - Equities : -15.3%
  - Fixed Benchmark: -4.8%
  - Using Downside Risk Control: 0.1%
- Largest drawdown over 1 year
  - Equities : -26.9%
  - Fixed Benchmark: -12.9%
  - Using Downside Risk Control: -6.6%

|                               | Year 1  |          |          |         | Year 2  |          |          |         |
|-------------------------------|---------|----------|----------|---------|---------|----------|----------|---------|
|                               | Mar qtr | June Qtr | Sept Qtr | Dec Qtr | Mar Qtr | June Qtr | Sept Qtr | Dec Qtr |
| Benchmark Equity Allocation   | 50%     | 22%      | 20%      | 18%     | 14%     | 37%      | 48%      | 56%     |
| Tolerable loss                | -10.0%  | -5.4%    | -4.9%    | -4.6%   | -3.4%   | -9.2%    | -12.0%   | -14.1%  |
| Quarterly Equity Return       | -10.0%  | -5.0%    | -5.0%    | -10.0%  | 5.0%    | 5.0%     | 2.5%     | 2.5%    |
| Rolling 1 yr Equity Return    | -10.0%  | -14.5%   | -18.8%   | -26.9%  | -14.7%  | -5.7%    | 1.7%     | 15.8%   |
| Quarterly Portfolio Return    | -4.6%   | -0.5%    | -0.4%    | -1.2%   | 1.3%    | 2.3%     | 1.6%     | 1.7%    |
| Rolling 1 yr Portfolio Return | -4.6%   | -5.1%    | -5.4%    | -6.6%   | -0.8%   | 2.0%     | 4.1%     | 7.2%    |



For illustrative purposes only.

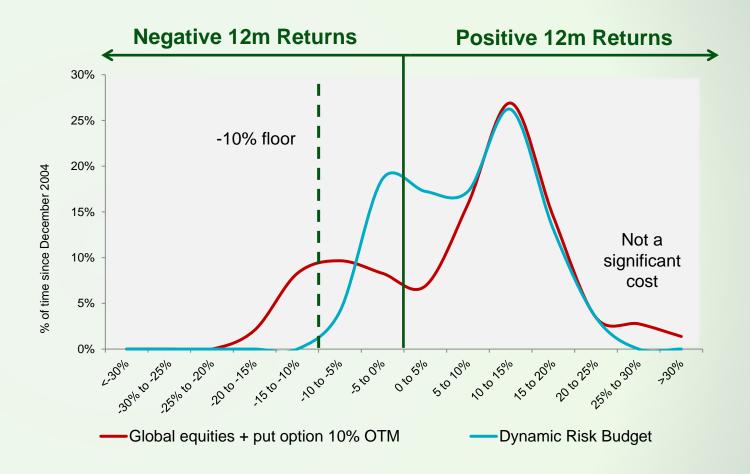
## Implement a simple Dynamic Risk Management process



A simple risk budgeting process takes on more risk as equity markets produce positive returns and reduces risk as markets produce negative returns.

Compared to consistently buying put options:

- Greater reduction in negative tail
- Only slightly reduced positive tail



Source: Insight – Put chart for illustrative purposes only. Insight as at 01/12/2004 – 31/12/2017. Global equities represented by MSCI World Index, in gross, local currency terms.

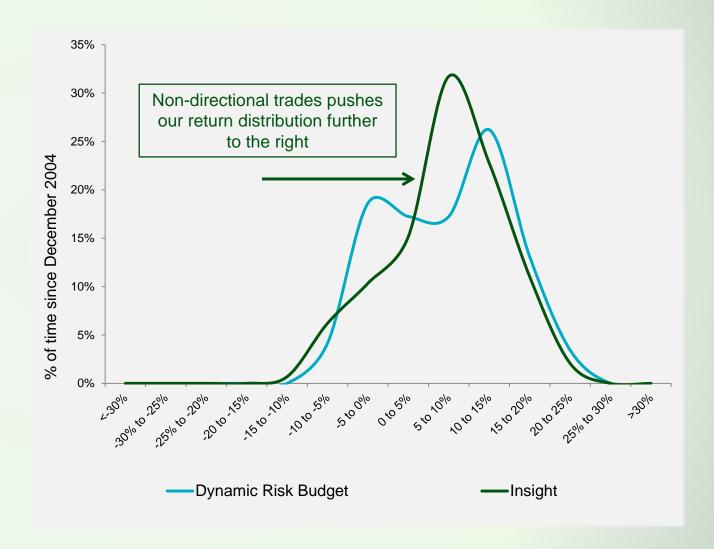


## Allocate risk to less directional trades



Allocate to more opportunistic trades that may be less directional and less correlated to traditional markets. Some examples include:

- Market neutral, relative value trades such as:
  - Yield curve trades
  - Long/short trades across different equity markets
- Diversifying trades
  - Buy assets that may potentially perform well when equities fall e.g. Japanese yen
- Volatility spikes
  - Create payoffs where probability of loss is low



Source: Insight as at 31 December 2017. Returns from the Insight broad opportunities strategy are provided gross of fees.



## Relative value example: US Treasury yield curve flattener





#### Relative value position: US Treasuries 30yr vs. 5yr (1:2)



Source: Bloomberg; Insight as at 31 December 2017.



## Diversifying Trades: Japanese yen



Diversifying trades may add value when equity markets are performing poorly

- Relying on correlations remaining "normal"
- Common diversifying trades are:
  - Gold
  - Long duration sovereign bonds
  - Japanese yen and Swiss franc



Source: Bloomberg; Insight

Why spikes in implied volatility can present opportunity



Investor fear / loss aversion drives down risk appetite







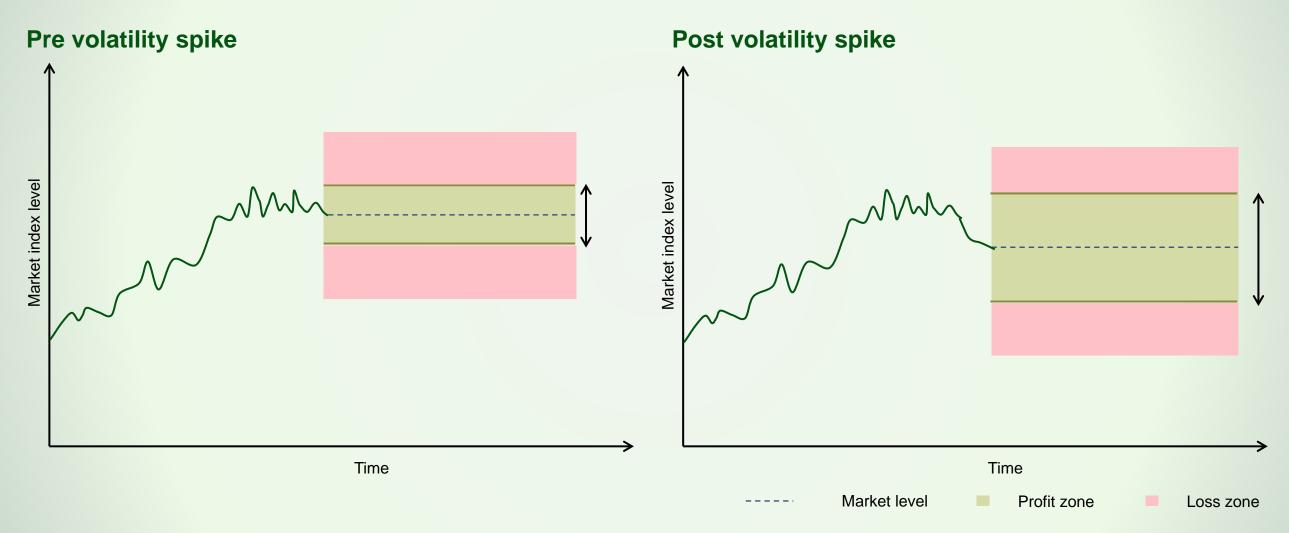
Fear leads to elevated risk premia or return potential for new option based strategies

For illustrative purposes only.

# Capturing opportunities from elevated volatility

Illustrative example: range-bound strategies



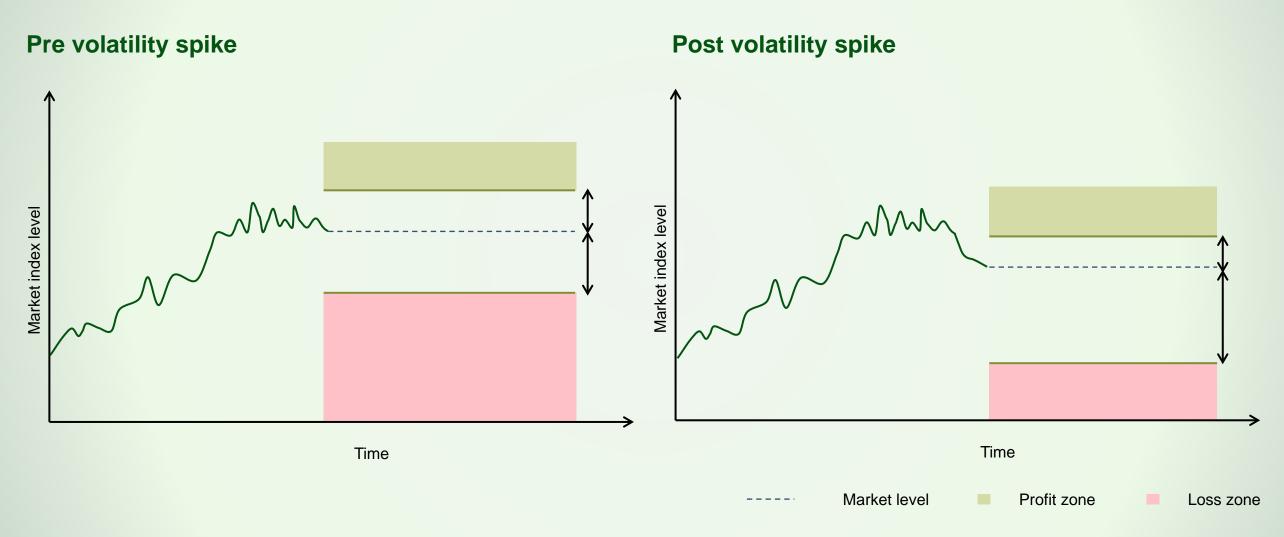


For illustrative purposes only. Forecasts and forecast returns shown are intended to show investment techniques and are not indicative of actual results. As such, they are not a reliable indicator of future performance.

# Capturing opportunities from elevated volatility

Illustrative example: upside breakout strategies





For illustrative purposes only. Forecasts and forecast returns shown are intended to show investment techniques and are not indicative of actual results. As such, they are not a reliable indicator of future performance.

## Result!

## better distribution of returns = less uncertainty of outcome



#### **Diversification**

 Not just across traditional asset classes but also by blending directional and less-directional sources of return

#### **Dynamic asset allocation**

 To benefit from directional trends in asset classes when the investment environment is conducive to good performance and avoid assets when the opposite is true

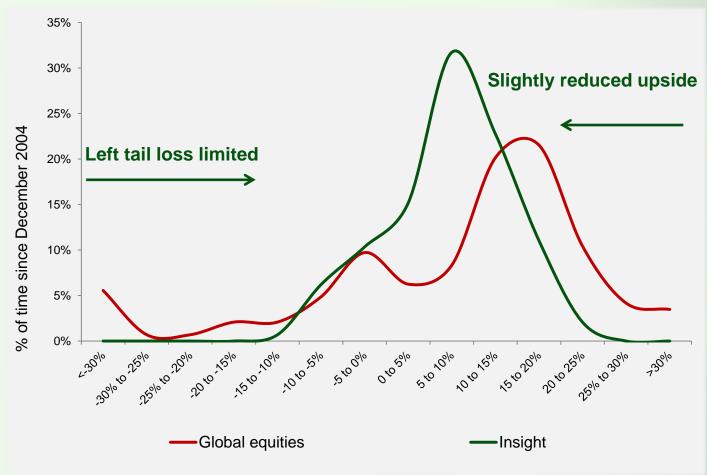
#### **Downside risk management**

 Aims to preserve capital and thereby improve the distribution of our returns

#### Outcome

 Narrower range of outcomes and better risk adjusted returns

#### -10% pa defined as loss tolerance



Source: Insight as at 31 December 2017. Global equities represented by MSCI World Index, in gross, local currency terms. Returns from the Insight broad opportunities strategy are provided gross of fees.



# Insight's broad opportunities strategy

## Targeting a smoother journey towards inflation\* +5% (pa) returns

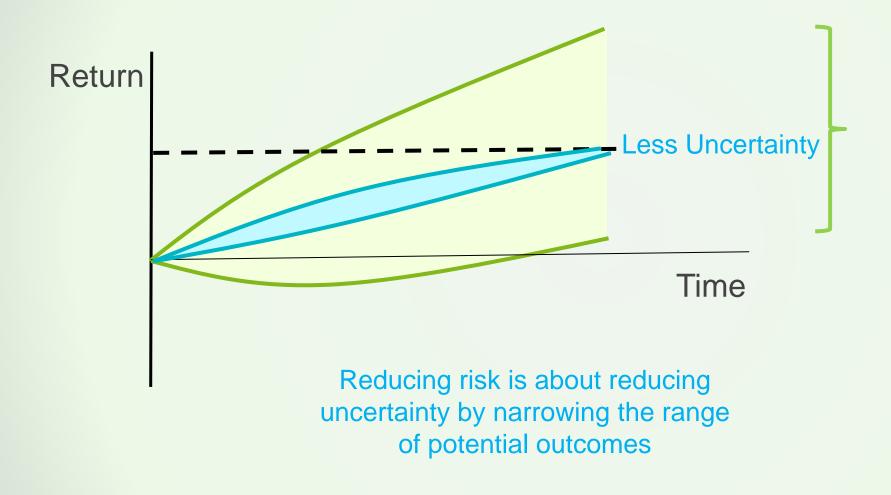




Source: Insight. As at 30 April 2018. No investment strategy or risk management technique can guarantee gross returns or eliminate risk in any market environment. Chart shows distribution of returns for the longterm strategy, since 31 December 2004. This investment strategy shown is used to illustrate Insight's skills and experience. The long term track record of the Insight broad opportunities strategy has a base currency of USD. This performance record has been adjusted by interest rate differentials to derive an AUD proxy. No currency adjustments have been made to the underlying investments. Global equities represents MSCI World hedged into AUD. \*Inflation represents RBA CPI Trimmed Mean.

# The "Holy Grail"....





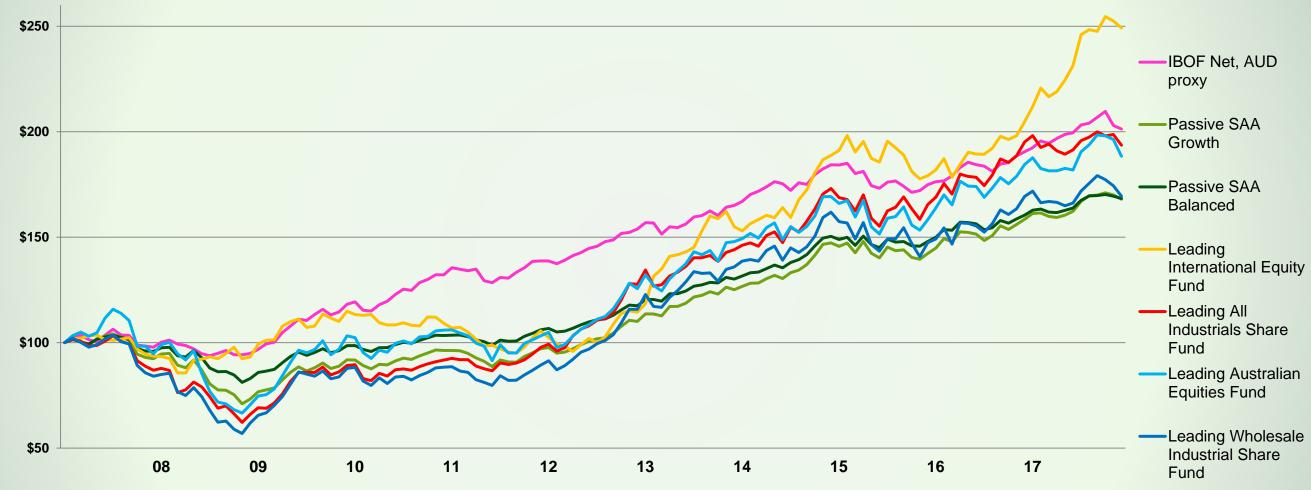
**Uncertainty =** a large range of potential outcomes

For illustrative purposes only.

# Conclusion – a smoother return path

Value of \$100 invested as at 01/05/2007 to 31/03/2018





Source: Morningstar Direct, Insight Investment. IBOF (Insight broad opportunities strategy) returns are net of fees, converted to AUD, 01/05/2007-31/03/2018. No investment strategy or risk management technique can guarantee gross returns or eliminate risk in any market environment. Chart shows monthly cumulative returns for the long-term strategy, since 31 December 2004. This investment strategy shown is used to illustrate Insight's skills and experience. The long term track record of the Insight broad opportunities strategy has a base currency of USD. This performance record has been adjusted by interest rate differentials to derive an AUD proxy. No currency adjustments have been made to the underlying investments.



# Conclusion – a smoother return path

Percentage drawdowns from 01/05/2007 to 31/03/2018





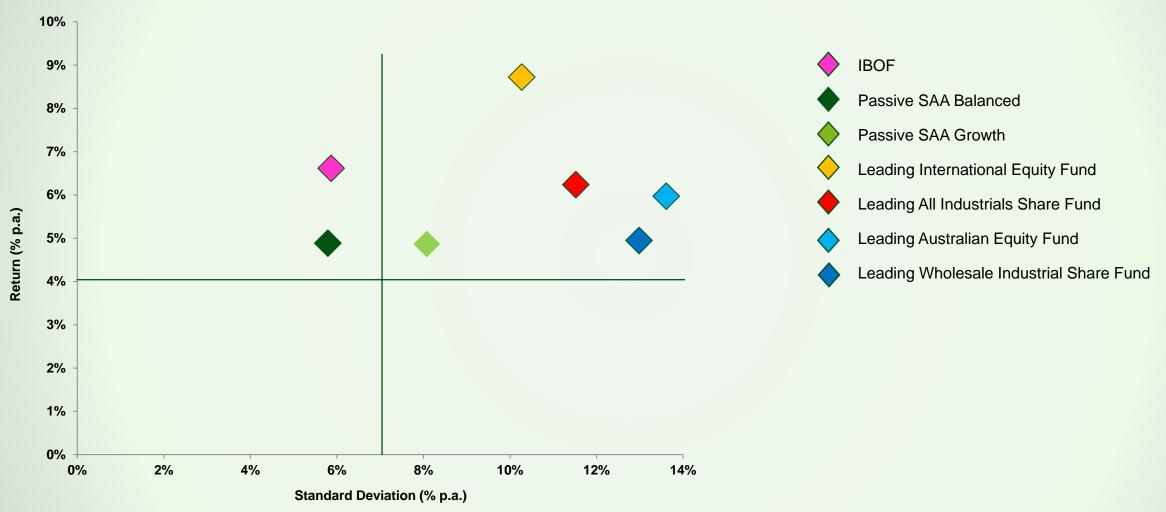
Source: Morningstar Direct, Insight Investment. IBOF (Insight broad opportunities strategy) returns are net of fees, converted to AUD, 01/05/2007-31/03/2018. No investment strategy or risk management technique can guarantee gross returns or eliminate risk in any market environment. Chart shows percentage drawdowns of returns for the long-term strategy, since 31 December 2004. This investment strategy shown is used to illustrate Insight's skills and experience. The long term track record of the Insight broad opportunities strategy has a base currency of USD. This performance record has been adjusted by interest rate differentials to derive an AUD proxy. No currency adjustments have been made to the underlying investments.



# Conclusion – a smoother return path

## Risk/return profile from 01/05/2007 to 31/03/2018





Source: Morningstar Direct, Insight Investment. IBOF (Insight broad opportunities strategy) returns are net of fees, converted to AUD, 01/05/2007-31/03/2018. No investment strategy or risk management technique can guarantee gross returns or eliminate risk in any market environment. Chart shows the risk/return profile for the long-term strategy, since 31 December 2004. This investment strategy shown is used to illustrate Insight's skills and experience. The long term track record of the Insight broad opportunities strategy has a base currency of USD. This performance record has been adjusted by interest rate differentials to derive an AUD proxy. No currency adjustments have been made to the underlying investments.



# Thank you

Adam Kibble **Product Specialist** 

www.insightinvestment.com



#### Risk disclosures



- Past performance is not indicative of future results. Investment in any strategy involves a risk of loss which may partly be due to exchange rate fluctuations.
- •The performance results shown, whether net or gross of investment management fees, reflect the reinvestment of dividends and/or income and other earnings. Any gross of fees performance does not include fees and charges and these can have a material detrimental effect on the performance of an investment.
- •Any target performance aims are not a guarantee, may not be achieved and a capital loss may occur. Strategies which have a higher performance aim generally take more risk to achieve this and so have a greater potential for the returns to be significantly different than expected.
- Portfolio holdings are subject to change, for information only and are not investment recommendations.
- •Whilst Insight has no reason to doubt the accuracy of information used to prepare this report, Insight does not represent, warrant or guarantee that this information is accurate, complete or suitable for any purpose and it should not be used as a basis for investment decisions. Comments reflect the author's judgement as of the date of its publication, they involve a number of assumptions that may not prove valid and are subject to change without notice. Insight is not responsible for any subsequent investment advice given based on the information supplied.

#### Associated investment risks



#### Multi-asset

- •Derivatives may be used to generate returns as well as to reduce costs and/or the overall risk of the portfolio. Using derivatives can involve a higher level of risk. A small movement in the price of an underlying investment may result in a disproportionately large movement in the price of the derivative investment.
- •Investments in bonds are affected by interest rates and inflation trends which may affect the value of the portfolio.
- The investment manager may invest in instruments which can be difficult to sell when markets are stressed.
- Property assets are inherently less liquid and more difficult to sell than other assets. The valuation of physical property is a matter of the valuer's judgement rather than fact.
- •While efforts will be made to eliminate potential inequalities between shareholders in a pooled fund through the performance fee calculation methodology, there may be occasions where a shareholder may pay a performance fee for which they have not received a commensurate benefit.

## Other disclosures



This document is a financial promotion and is not investment advice.

This document must not be used for the purpose of an offer or solicitation in any jurisdiction or in any circumstances in which such offer or solicitation is unlawful or otherwise not permitted. This document should not be duplicated, amended or forwarded to a third party without consent from Insight Investment.

This publication has been prepared to provide you with general information only. It is not intended to take the place of professional advice and you should not take action on specific issues in reliance on this information. Past performance should not be taken as an indicator of future performance.

In preparing this information, we did not take into account the investment objectives, financial situation or particular needs of any particular person. Insight does not provide tax or legal advice to its clients and all investors are strongly urged to seek professional advice regarding any potential strategy or investment.

Unless otherwise stated, the source of information and any views and opinions are those of Insight Investment.

For clients and prospects based in Australia and New Zealand: This material is for wholesale investors only (as defined under the Corporations Act in Australia or under the Financial Markets Conduct Act in New Zealand) and is not intended for distribution to, nor should it be relied upon by, retail investors. Both Insight Investment Management (Global) Limited and Insight Investment International Limited are exempt from the requirement to hold an Australian financial services licence under the Corporations Act 2001 in respect of the financial services; and both are authorised and regulated by the Financial Conduct Authority (FCA) under UK laws, which differ from Australian laws. If this document is used or distributed in Australia, it is issued by Insight Investment Australia Pty Ltd (ABN 69 076 812 381, AFS license number 230541) located at Level 2, 1-7 Bligh Street, Sydney, NSW 2000.

© 2018 Insight Investment. All rights reserved.