



**CAE Meeting**

**Hedge Funds – what they are  
and how to invest**

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# Agenda

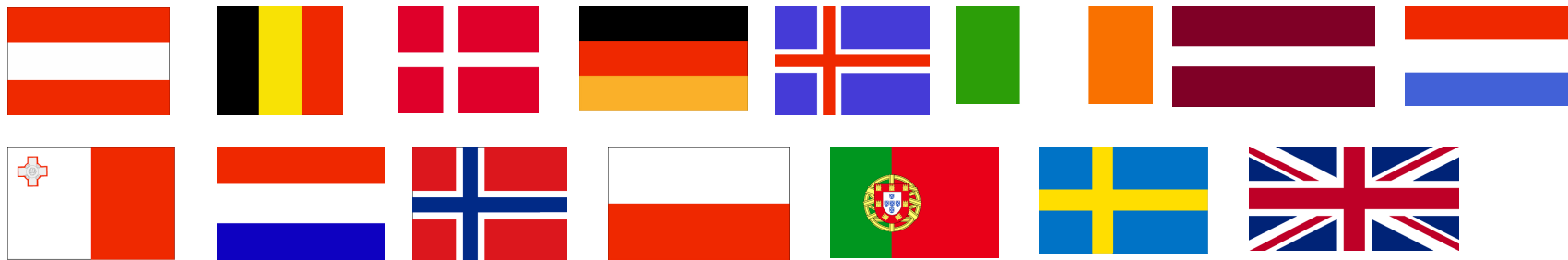
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- Use of hedge funds by european insurance companies
- The characteristics of hedge funds and the different strategies employed
- The potential benefits of investing in hedge funds
- The risks of investing in hedge funds
- Overview of implementation issues
- The fund of hedge fund market
- Summary

# Use of hedge funds by European Insurance Companies

Admissibility of hedge funds as cover for technical provisions

Yes



No



Source: CEIOPS, Reprot on the Possibility for Insurance Companies to use Hedge Funds, CEIOPS-DOC-06/05 Rev. I



# The characteristics of hedge funds and the different strategies employed



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## Definition

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**'A vehicle for the unrestrained exercise of investment management skill'**

- No easy definition, since hedge funds follow many different investment strategies
- Therefore best to define a hedge fund by its characteristics rather than its investment process



## Characteristics (1)

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- Investment process involving “shorting”, leverage and derivatives
- Boutiques
- Limited capacity
- High net worth clients



## Characteristics (2)

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- Limited regulation
- High fees, with performance-related elements
- Limited liquidity
- Limited transparency





## Size of the industry

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Today:

- 8'000 – 12'000 funds
- Over 1 trillion USD under management
- 1990: about 300 hedge funds







## Long and short positions in practice

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	<b>Initial value</b>	<b>Up market</b>	<b>Down market</b>
<b>Long holding</b>	<b>100</b>	<b>108</b>	<b>96</b>
<b>Short holding</b>	<b>-100</b>	<b>-104</b>	<b>-90</b>
<b>Cash</b>	<b>100</b>	<b>102</b>	<b>102</b>
<b>Total</b>	<b>100</b>	<b>106</b>	<b>108</b>

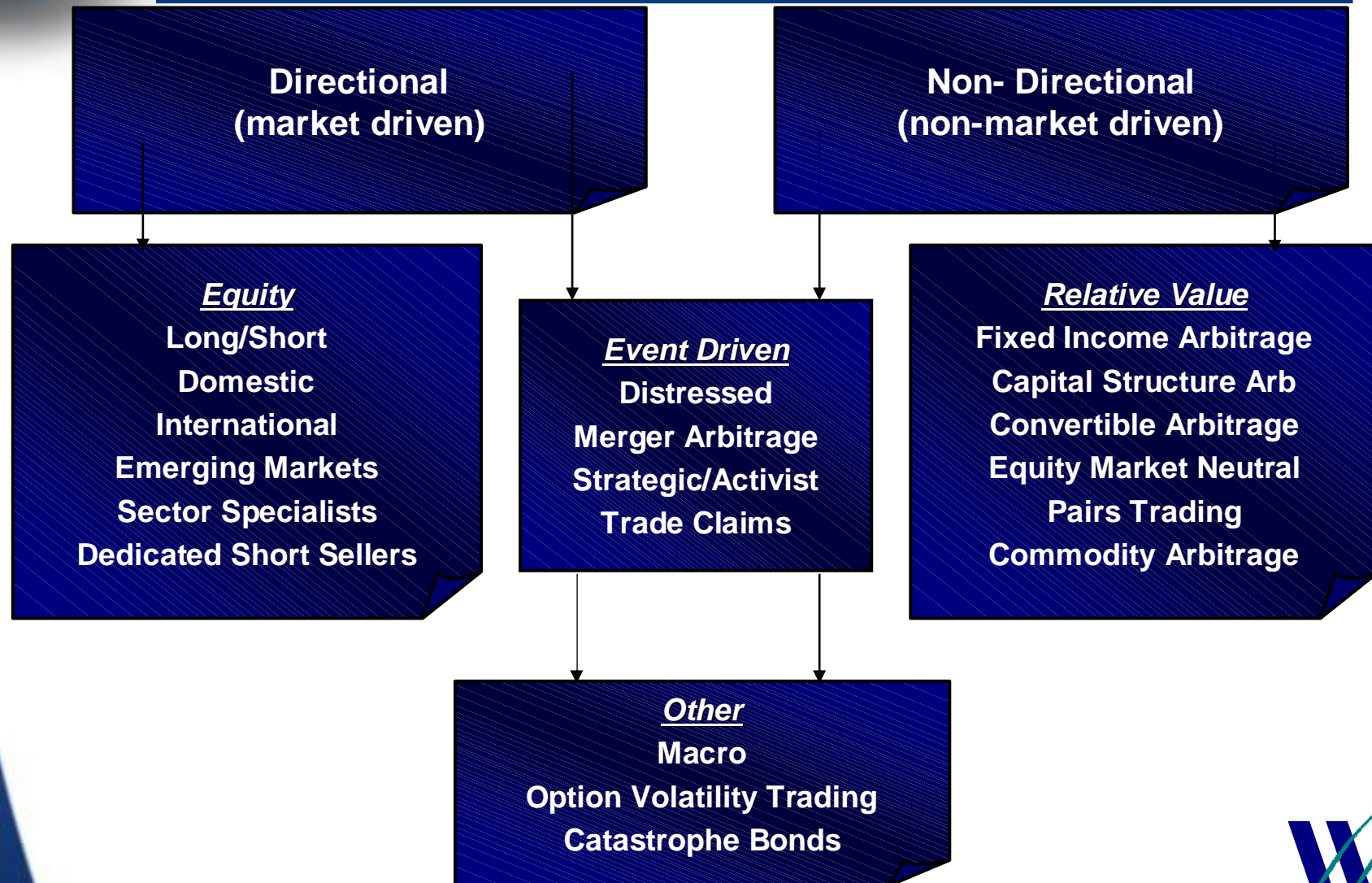


# The different strategies

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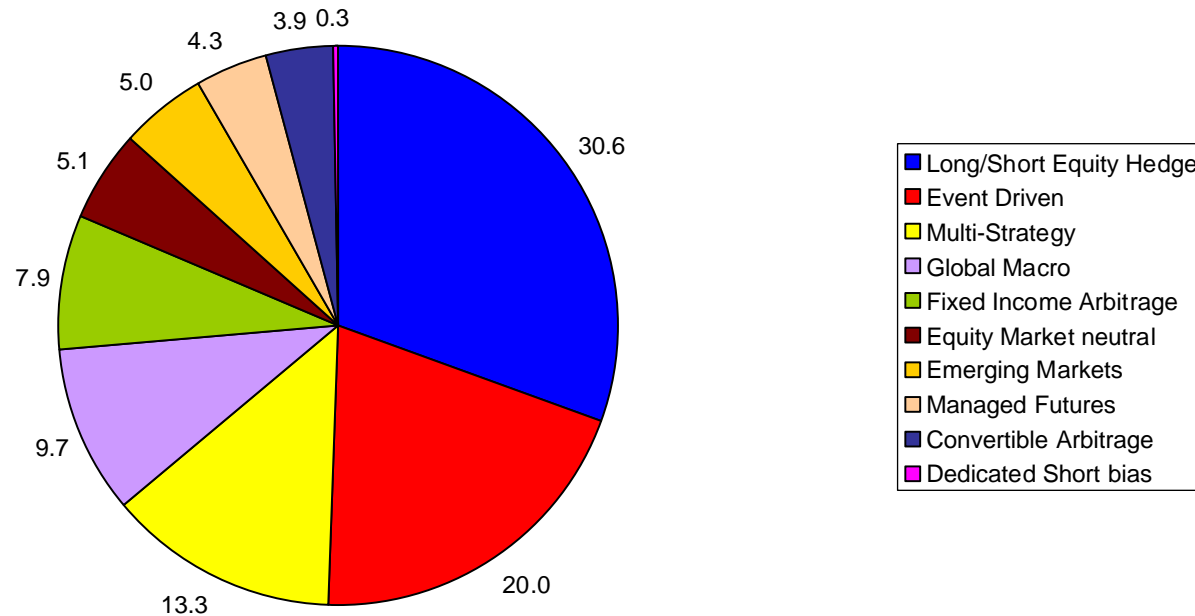
- Each strategy has different characteristics
- Unfortunately no universally accepted definitions
- Four broad categories can be defined:
  - **Event-driven**
  - **Long-short equity**
  - **Relative value**
  - **Trading strategies**
- Some ‘multi-strategy’ managers follow several strategies
- As market conditions change strategies fall out of favour and new strategies emerge

# Categorizing Hedge Fund Strategies



# Composition of hedge fund universe

Total hedge fund strategy assets by percent (as at June 2005)



Source: Tremont Asset Flows Report June 2005



# Hedge Fund index returns (US\$) - period ending December 31, 2005

Highest Return



Lowest Return

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Global Macro	30.67%	25.58%	37.11%	20.64%	47.23%	25.64%	20.01%	18.33%	25.12%	15.62%	11.74%
Distressed	26.12%	25.55%	25.94%	17.18%	23.43%	14.99%	18.38%	14.66%	17.99%	11.56%	9.68%
Long/Short Equity	23.03%	22.22%	21.46%	13.31%	22.18%	14.69%	14.58%	7.42%	17.27%	9.64%	9.25%
Fund of Funds	21.69%	17.87%	20.73%	5.58%	16.04%	11.67%	9.31%	5.75%	15.44%	8.49%	7.61%
Convertible Arbitrage	16.57%	17.12%	14.83%	-0.36%	15.33%	6.29%	8.04%	4.05%	14.13%	6.86%	6.14%
Fixed Income Arbitrage	12.50%	16.60%	14.48%	-1.68%	13.23%	4.85%	5.68%	3.04%	12.90%	6.48%	3.08%
Risk Arbitrage	11.90%	15.93%	9.84%	-3.64%	12.11%	4.24%	4.42%	-0.69%	8.98%	5.97%	0.63%
Equity Market Neutral	11.04%	13.81%	9.34%	-4.41%	5.81%	2.08%	1.90%	-1.60%	7.97%	5.45%	-0.11%
Managed Futures	-7.10%	11.97%	3.12%	-8.16%	-4.69%	1.95%	-3.65%	-3.46%	7.07%	1.98%	-2.55%

Indices used: CSFB/Tremont Hedge Fund Index



# The potential benefits of investing in hedge funds



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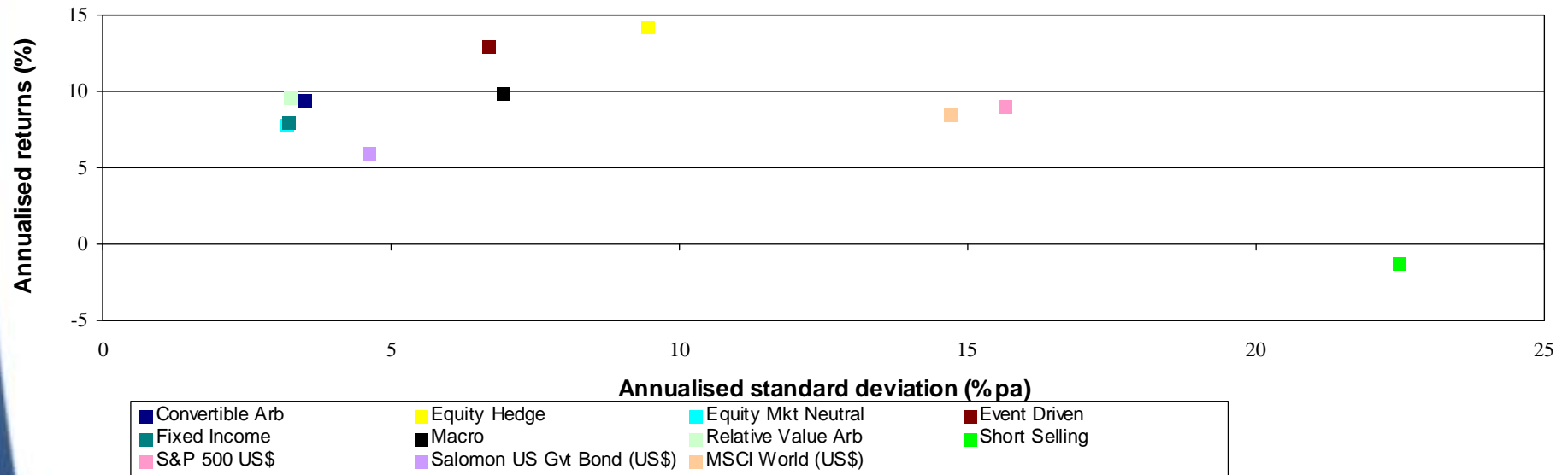
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# Potential benefits of investment (1)

## Analysis of historical hedge fund performance

10 years ending 31 December 2005



Source: Hedge Fund Research, Inc.

*Strong historical returns*







## Access to skilled managers

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- Accessing strong investment management skill which is free to operate in a flexible way is the key argument for investing in hedge funds
- The returns generated by a fund are by the alpha or outperformance, that the manager can produce
- In simple terms, without skill the return from a hedge fund looks something like:

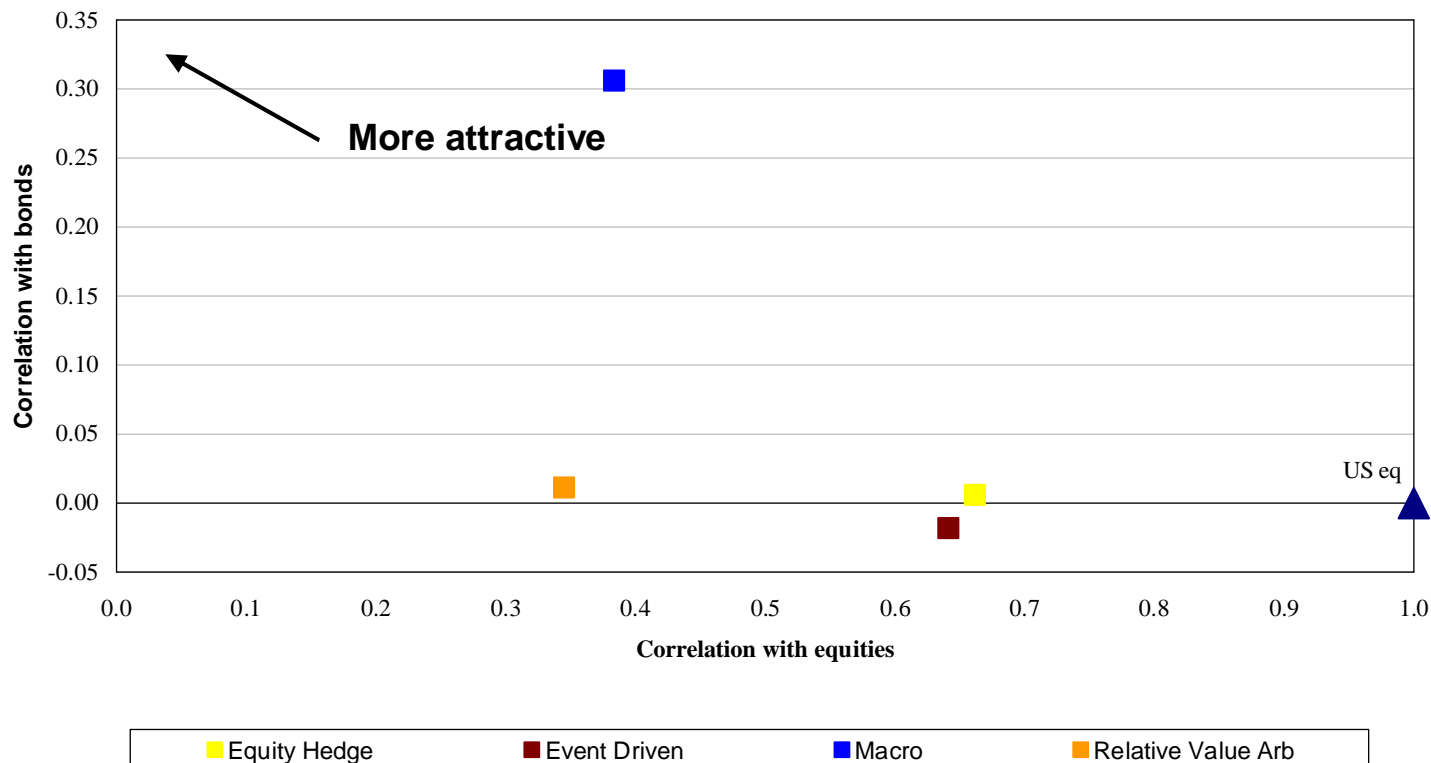
cash + a proportion of equity and bond market returns

- This is not worth paying high fees for
- It is arguable whether the ‘average’ hedge fund can generate “alpha”, although we believe there are reasons this might be the case
- However, the wide range of returns in each strategy suggest that the top managers are highly skilled



## Potential benefits of investment (2) Analysis of historical correlations

Strategy correlations with equities and bonds (Jan 1990 to Dec 2005)



Source: Hedge Fund Research, Inc, S&P, Salomon Brothers

*Strong diversification benefits, which arise from the hedge fund style of management, which reduces market exposure*



# The risks of investing in hedge funds



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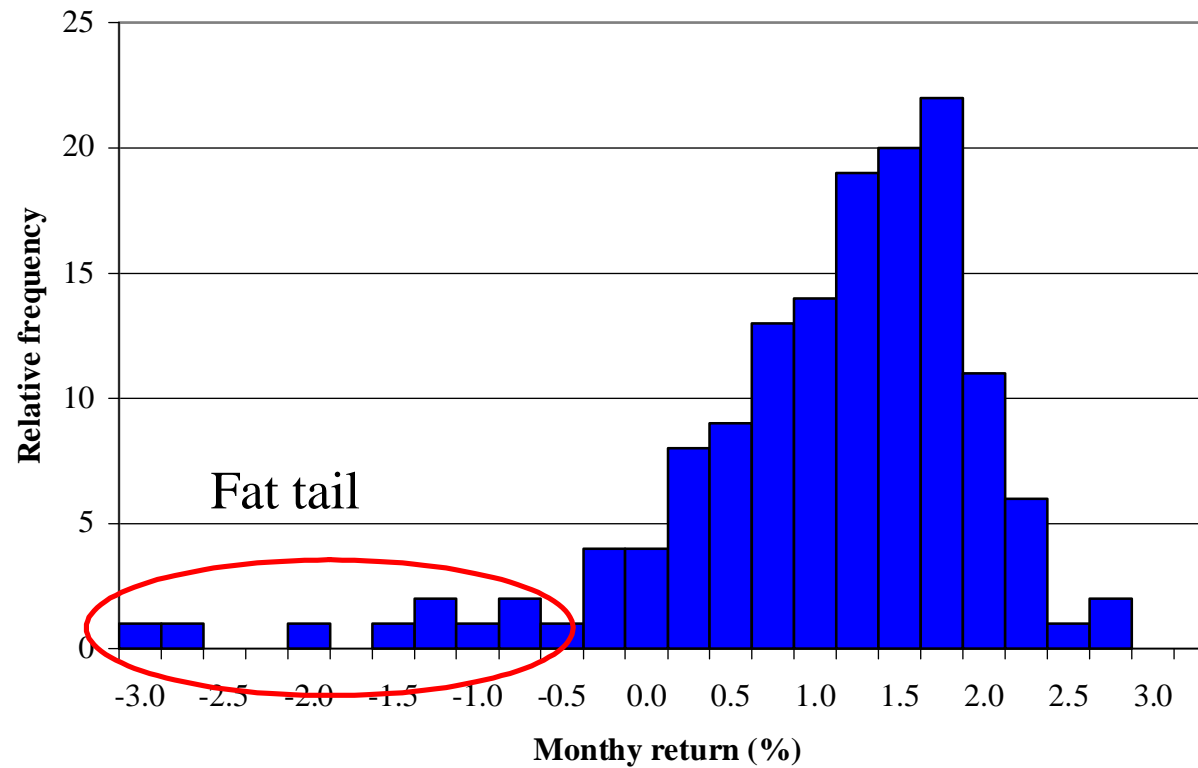
# **Risks of investing in hedge funds**

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- Return disappointment
  - Closure of good managers to new investors
  - Dilution of talent
  - Good managers increasing fees
- Event risk
  - Key man risk
  - Operational risk
  - Risk of extreme market movements
  - Liquidity risk
  - Prime broker risk
  - Fraud
- Regret risk

# Understatement of risk

Convertible bond arbitrage



Source: Hedge Fund Research, Inc.



# Overview of implementation issues



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## How to invest in hedge funds

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- Could invest in a single hedge fund, for example a long-short equity fund
- But several drawbacks:
  - More volatile returns
  - Event risk
  - Manager selection risk
  - Strategy allocation risk
- These suggest that a diversified portfolio of hedge funds is more attractive than a single fund
- Question then becomes who should pick this portfolio of managers – the insurance company or a specialist fund of hedge funds
- We would suggest that the governance challenges of the insurance company constructing their own portfolio make outsourcing to a fund of funds the best option (despite the extra fees)







# How many funds of funds

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## One fund of fund manager

- ✓ ● Lower governance burden
- ✓ ● Insurance company does not have to set a strategy allocation
- ✓ ● Potential for gains from tactical strategy allocation
- ✓ ● Easily implementable
- ✓ ● Lower fees
- ✗ ● Nature of asset class exposes insurance companies to manager risk
- ✗ ● Lower diversification benefits

## Multiple fund of fund managers

- ✓ ● Reduces manager risk
- ✓ ● Returns should be less volatile
- ✓ ● Access to more capacity
- ✓ ● Potential to appoint "specialist" managers eg one for long-short equity, one for arbitrage etc
- ✗ ● Higher cost
- ✗ ● High governance burden
- ✗ ● Commonality between portfolios may reduce diversification benefits



## Parameters to be set

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- **Investment vehicle:** pooled or segregated
- **Risk/return characteristics:** performance target, risk tolerance, (correlation with equities)
- **Strategy allocation:** this will be influenced by the risk/return characteristics
- **Liquidity requirements**
- **Currency hedging:** most hedge fund investments are US dollar denominated, (although managers will offer hedged other currency share classes, if required)
- **Risk controls:** eg maximum allocations to managers and strategies



# Choice of investment vehicle

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## Pooled

- ✓ ● Gain access to existing (possibly closed) managers and get immediate exposure
- ✓ ● Should be quicker to invest (less paperwork)
- ✗ ● Cannot specify investment restrictions/objectives
- ✗ ● Possibly higher cost
- ✗ ● Can be disadvantaged by actions of other investors

## Segregated

- ✓ ● The insurance company can specify exactly what it requires
- ✓ ● Should not be affected by investment restrictions
- ✗ ● Considerably more paperwork involved in implementation
- ✗ ● Portfolio may take a while to build, and may not include some closed managers
- ✗ ● Some managers have little experience of segregated accounts
- ✗ ● Need to ensure that Scheme has limited liability

# The fund of hedge fund market



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# Funds of hedge funds

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- Around 250 funds of hedge funds in existence
- Invest in a number of managers across a range of strategies
- Conduct research and due diligence into a manager's business, people and process
- Account for around 25% of industry assets
- Predominantly US based
- Add additional layer of fees eg 1% and 10%
- Larger than hedge funds eg \$250m to \$10 billion in assets
- Still 'key man risk'
- Likely consolidation

# A typical fund of hedge fund investment process



- Process is conceptually little different to that followed by a traditional balanced manager
- Fund of funds manager must allocate to different strategies (equities, bonds, cash of traditional manager)
- And then must decide on individual hedge funds (individual stocks of a traditional manager)

*The insurance company needs to be convinced that the manager has a sound process at each stage with clear competitive advantage*



# Summary



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## Summary

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- Hedge funds follow many different investment strategies, but the common ingredient is that their returns are highly dependent on manager skill
- The historical risk and return numbers are attractive, but there are grounds for believing that these will not continue for the 'average' hedge funds. Successful investment in hedge funds therefore relies on being able to access and invest with the most skilled managers
- There are risks of investing in a small number of hedge funds
- We recommend investment in hedge funds is implemented through a diversified portfolio of funds managed by a fund of hedge funds manager
- There are various implementation issues that need to be considered when appointing a fund of funds manager



## Contact

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