

Hedge Fund Survey

March 2014



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Abbreviations used in this paper

AIFMD	Alternative Investment Managers Directive
AUM	assets under management
ССР	Central Clearing Counterparty
CTA	Commodity trading advisor
FCA	Financial Conduct Authority
FSB	Financial Stability Board
FX	foreign exchange
GAAP	generally accepted accounting principles
GMV	gross market value
GNE	gross notional exposure
HFI	Hedge Fund Intelligence Global Review
HFR	HFR Global Hedge Fund Industry Report
HFS	Hedge Fund Survey
HNW	high net worth
IRD	interest rate derivatives
IFRS	International Financial Reporting Standards
NAV	net asset value
OTC	over the counter
	International Organisation of Securities
IOSCO	Commissions
UC	unencumbered cash
VaR	Value at Risk

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I.

Introduction

The Financial Conduct Authority's role

The Financial Conduct Authority (FCA) supervises hedge fund managers operating in the UK. The FCA collects data from hedge funds and hedge fund managers to inform its supervisory activity, with the aim of ensuring markets work well and of promoting market integrity.

The FCA also plays a leading role in assessing the systemic risks posed by hedge funds, and developing potential policy measures to assess these risks, working closely with the Financial Stability Board (FSB), the UK Financial Policy Committees (FPC) and the International Organisation of Securities Commissions (IOSCO).

Hedge fund assets under management in the UK

The hedge fund survey presents an aggregated picture of industry activity in the UK, illustrating key trends and risks. Approximately USD 470bn of hedge fund assets are managed in the UK, with 450 hedge fund management firms registered with the FCA.

The survey contains data from 49 management firms, which collectively manage USD 481bn of hedge fund assets globally, of which USD 206bn is managed in the UK. At fund level, the data collected is for 106 funds, which have aggregated net assets under management of USD 345bn. Data is reported as at September 2013.

Risk identification and mitigation

Hedge funds fail or close down on a regular basis without causing a significant impact on the financial system, but very large hedge funds potentially pose a risk. A large hedge fund which fails in a disorderly way might impact wider financial markets in two ways: by causing losses to its transaction counterparties (the credit channel) or by disrupting markets as its positions are closed out or counterparties rush to sell collateral at the same time (the market channel). The impact on markets could be greater, if a fund has highly complex positions across a range of markets.

Hedge funds use leverage to increase the size of the positions taken in financial markets. In some cases, the use of leverage allows them to become large enough to suggest they could impact the wider financial system in certain situations. Hedge funds obtain leverage either by borrowing money or securities from counterparties (known as financial leverage) or by using derivative instruments such as options, futures or swaps.

Our survey highlights that, by far, the largest proportion of total leverage used by hedge funds in the UK is acquired using derivatives. Derivative transactions allow hedge funds to acquire market/economic exposures (which this report refers to as the Gross Notional Exposure) that are many times bigger than the capital of the fund: for example a hedge fund may pay or receive USD 1m to buy or sell an option with an underlying market exposure of USD 100m. Almost all of the institutions which enter derivative transactions with hedge funds require the funds to provide collateral. This protects the counterparty against losses on the transaction if the hedge fund defaults on its commitments under the transaction. Most counterparties will not transact with hedge funds without collateral.

Identifying the probability of failure

Hedge funds which are highly leveraged using derivatives can fail if they run out of cash or similar liquid assets to post as collateral. The amount of liquid and unencumbered assets in a hedge fund portfolio is a key indicator of its financial health and of its ability to absorb losses.

The FCA expects hedge funds to monitor the characteristics of their portfolios and to identify and appropriately manage risks. In addition to oversight of individual funds and firms, the FCA seeks to identify funds or trends with the potential to pose risks to wider financial markets, and to manage these risks.

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II. Highlights

Size and scale of the hedge fund industry

- Based on the top 100 global alternative investment firms, hedge funds appear to be the third largest type of alternative investments, after real estate and private equity (based on assets under management). The UK's share of global hedge fund assets under management has been increasing over the past ten years to around 18% today.
- The firms in the survey reported total global hedge fund assets of USD 481bn, of which USD 206bn is managed in the UK. The assets of the funds covered by the survey (investment vehicles where size and nature meet the definition set out for the survey) represent USD 345bn. The survey found that 69% of funds are domiciled in the Cayman Islands.
- Equity strategies are the most popular among the funds in the survey, making up 34% of the total number of funds.
- Institutional investors have become the dominant type of investors in hedge fund vehicles, while high net worth individuals have declined as a proportion of hedge fund investors since 2008.

Size and scale of hedge fund activity in financial markets

- Gross notional exposure is one measure of leverage that is provided by the survey. It captures the total size of long and short positions. It does not take into account hedging or the risk profile of the instruments it relates to, but it does provide a measure of hedge fund activity in markets (which we refer to as market footprint). We do not use this measure to assess the investment or market risk of portfolios. The survey reveals the gross size, interconnectedness and complexity of operations. This information helps us identify entities that warrant conducting further research.
- The top ten funds each managed an average of USD 1.9tn in gross notional exposure, accounting collectively for 87% of the sample's total. However, comparing the mean and median use of leverage shows the majority of hedge funds exhibit low levels of leverage.
- The most recent data showed most hedge funds have raised their total gross leverage. Collectively, the funds in our survey have a total gross leverage equal to 64x fund assets (measured as a ratio of gross notional exposure to net asset value (NAV)). This has increased from 54x NAV in March 2013.
- Of the total leverage, 98% is obtained using derivatives to gain market exposure, driven by a few large funds.
- Overall, the funds in the survey turned over USD 210th over one rolling year. The ten most active funds represent 84% of portfolio turnover in the survey sample. The most active funds turned over the equivalent of more than 1,000 times their net asset value over a rolling 12 month period. This reflects the rolling of short term interest rate positions by some funds.
- Interest rate derivatives make up the largest proportion of the market exposure and portfolio turnover of hedge funds (collectively market footprint). This reflects that this market is large and liquid.

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Portfolio characteristics of hedge funds

- Of the 106 funds in the survey, 79 reported data on Value at Risk (VaR). The median reported VaR was lower than 14% of NAV while a small number of funds reported an annual VaR figure above 40%.
- In aggregate, hedge fund portfolios remain fairly liquid and easily valued. The median fund holds very few positions that are valued on a mark-to-model basis or held at cost. Some large funds specialise in illiquid investments, especially distressed debt.
- The median number of open positions per fund has increased considerably for some strategies (e.g. macro and multi-strategy) since March 2012, but declined for others (e.g. managed futures and equity). There is significant variation in the number of open positions per fund in the survey the most complex funds had more than 10,000, while a number of funds had fewer than 100 open positions.
- The proportion of unencumbered cash relative to gross exposure exhibits similar divergence across strategies. It has increased across the sample as whole, but it has declined for macro funds, which have increased their leverage and exposures.
- Funds in aggregate continue to hold investments that are more liquid than the terms they offer their investors. However, there are some signs that investors are requiring more favourable liquidity terms from funds.
- Of the surveyed funds, 71% permit re-hypothecation of fund assets, compared to 69% in March 2013.

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III.

About the survey

What is a hedge fund?

Hedge funds are one of a category of funds known as alternative investment funds. Alternative funds invest in a variety of global assets, including property and commodities. They often have a high degree of flexibility around how they invest. Hedge funds are a type of alternative fund which use this freedom to pursue a wide variety of strategies in many different asset classes: some run very concentrated portfolios; others pursue complex trading strategies characterised by high levels of turnover; and others employ high levels of leverage.

What is captured in this edition of the survey?

This survey reflects voluntary responses from 49 firms and 106 qualifying funds, with data reported at the end of September 2013. Global data is collected at the level of the firm (Section 1) and the qualifying funds (Section 2), reflecting the international structure of the industry.

Our analysis primarily focuses on the 106 qualifying funds, and considers how their global assets of USD 345bn are managed rather than focussing on assets managed in the UK. Some information about the firms surveyed is set out below.

Information is presented in US dollars (USD) for comparability; AUM indicates net assets under management or net asset value (NAV).

To qualify for the survey, funds must be:

- identified as hedge funds by firms using a range of criteria, such as the use of leverage, the complexity of strategies or the application of performance fees
- at least partially managed by a UK regulated entity or marketed in the UK
- able to demonstrate total global net assets under management (net AUM or NAV) of at least USD 500 million. This includes the sum of all accounts managed to the same strategy (for example including pooled funds and separately managed accounts), to ensure the product is fully captured.
- single-manager funds, i.e. fund of funds (or multimanager funds) are excluded

Future of the hedge fund survey

To date, this data has been reported on a voluntary basis, however, the FCA survey will be replaced by new reporting requirements introduced by the European Alternative Investment Fund Managers Directive (AIFMD), which will provide comparable data on a broader range of funds and firms.

The FCA will continue to use data collected from the hedge fund survey and new reporting requirement to identify risks and inform our approach to supervision.

International regulatory cooperation

Hedge funds operate across national boundaries and national regulators are cooperating closely to respond to these risks. The FCA engages in domestic and international policy initiatives to better assess and manage the risks posed by hedge funds, including work led by the International Organisation of Securities Commissions (IOSCO), the Financial Stability Board (FSB) and the UK's Financial Policy Committee. The EU Alternative Investment Managers Directive (the AIFMD) will also make significant changes to how EU authorities regulate hedge funds.

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The sample of firms in the survey has evolved. The response rate has remained broadly stable over the last two years. To put the survey data in perspective, 450 firms registered in the UK are engaged in hedge fund management activity¹.

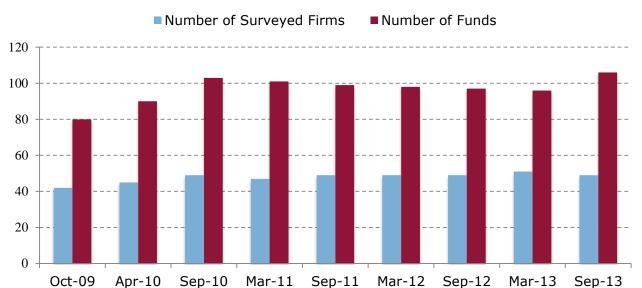


Figure 1 - Survey participants

- September 2013 data showed the 49 firms in the survey managed global hedge fund assets worth USD 481bn, of which USD 206bn (43%) are directly managed by staff in UK regulated entities. The main place of business for most firms was in the UK.
- The median firm in the survey manages 99% of its AUM in the UK, which suggests a small number of very large firms have smaller UK operations with headquarters abroad.

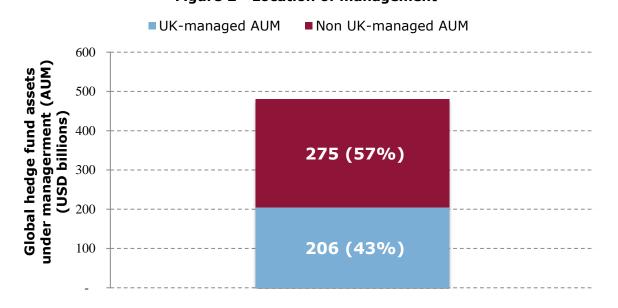
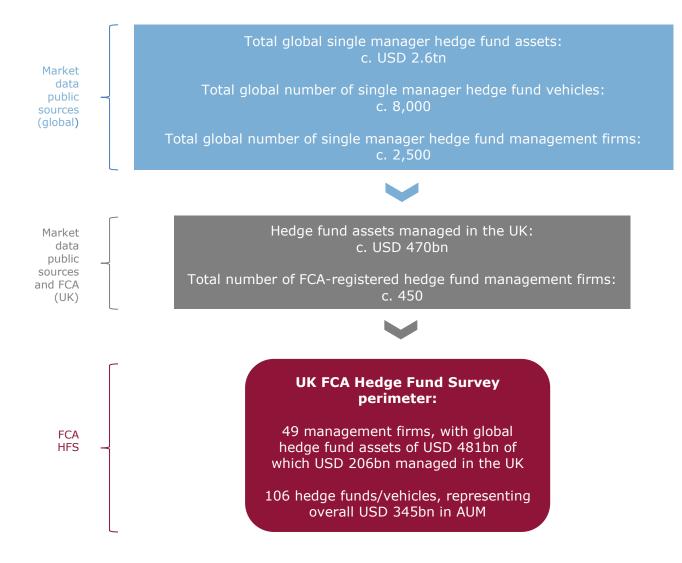


Figure 2 - Location of management

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 $^{1 \ \}mathsf{Source} \colon \mathsf{FCA} \ \mathsf{internal} \ \mathsf{databases}, \ \mathsf{March} \ \mathsf{2013}.$

HFS sample compared to the industry (sources: FCA, HFI, and HFR):²



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² In addition to FCA proprietary data sources, the diagram uses and crosses the following external sources, which are also used later in the report, when referring to external sources:

[•] Hedge Fund Intelligence Global Review, Autumn 2013

[•] Hedge Fund Intelligence Database (data.hedgefundintelligence.com)

HFR Global Hedge Fund Industry Report, Q4 2013

IV. Size and scale of the hedge fund industry

A. Global hedge fund assets under management

We have used data from the survey and public sources (e.g. HFI, HFR and TheCityUK). Data across providers is not consistent, but does illustrate key trends.

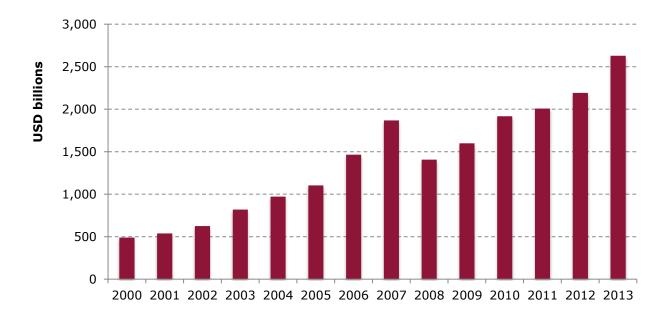


Figure 3 - Global hedge fund AUM - Source: FCA, HFR

• Funds under management in the UK have steadily increased from 10% of total global hedge fund AUM in the early 2000s to 18-19% of the total today. The US remains the largest hedge fund management centre.

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B. Hedge funds compared to other alternative investments

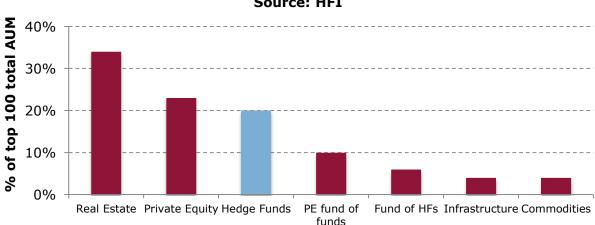


Figure 4 - Global top 100 alternatives industry managers - Source: HFI

 Using data from HFI³ on the top 100 global alternative industry managers, pure hedge fund assets were the third largest type of alternative investment in early 2013, behind real estate and private equity.

C. Fund domicile

The majority of sampled funds are domiciled offshore, with the Cayman Islands retaining the largest share (Figure 5).

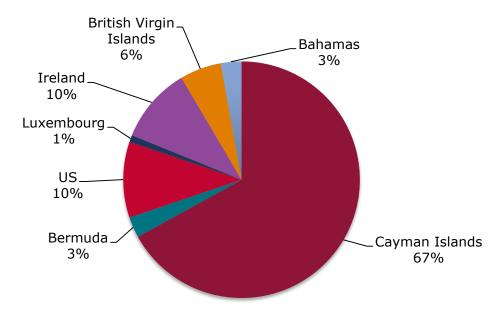


Figure 5 - Breakdown by juisdiction (number of funds)

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³ See Hedge Fund Intelligence Global Review, Autumn 2013

• To date, there is little evidence that recently implemented regulations, such as Alternative Investment Managers Directive (AIFMD), have encouraged firms to move their funds' domicile from offshore jurisdictions.

D. Investors in hedge funds

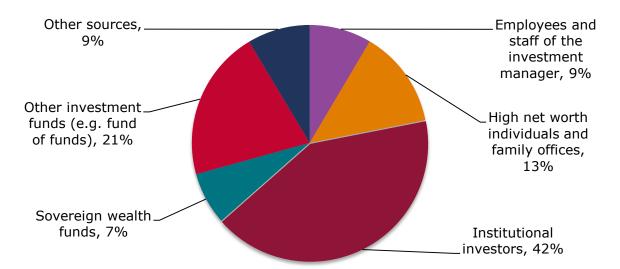


Figure 6 - Breakdown of ownership (% of NAV)

- Since the financial crisis, institutional investors (largely pension funds and endowment like institutions) have become the largest source of new money for hedge funds.
- In contrast, funds of hedge funds have diminished in relative terms from 29% in September 2010 to 21% in September 2013. This is because a number of medium and larger size pension funds are choosing to manage their own hedge fund portfolios. Similarly, high net worth (HNW) individuals and family offices have declined to 13% of hedge fund assets.

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E. Hedge fund strategies

Long/short equity and multi-strategy funds remain the most popular fund strategies, accounting for a combined 48% of the total number of funds.

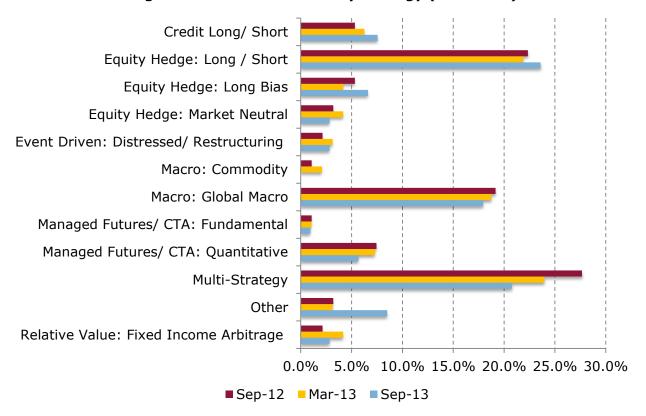
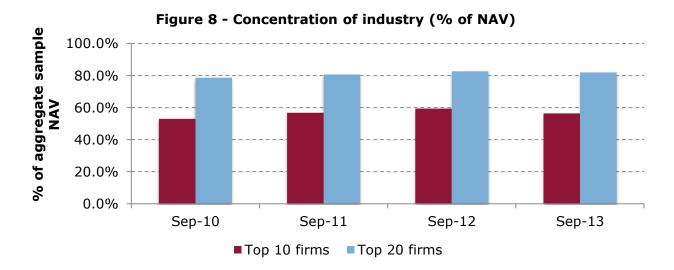


Figure 7 - Number of funds by strategy (% of total)

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F. Industry concentration

Over time, the industry has become more concentrated. The survey shows that the 20 largest firms control 82% of the sample's NAV (net AUM). The concentration ratio rises significantly when considering gross notional exposure (GNE) at the fund level. The 20 largest funds account for 94% of the sample GNE. These 20 funds are managed by 12 different firms.



% of aggregate sample 100.0% 80.0% 60.0% 40.0% 20.0% 0.0% Sep-12 Sep-10 Sep-11 Sep-13 ■Top 10 funds
■Top 20 funds

Figure 9 - Concentration of industry (% of GNE)

Trading and clearing G.

Over the counter (OTC) derivatives trading continues to outpace derivatives traded on exchanges.

Figure 10 - Percentage of derivatives that were traded: (mean sample trade volumes per fund)			
Sep-11 Sep-12 Sep-13			Sep-13
On a regulated exchange	54%	47%	37%
ОТС	46%	53%	63%

Over 59% of OTC derivatives trade volumes were centrally cleared by a Central Clearing Counterparty (CCP) as at September 2013.

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V. Size and scale of hedge fund activity in financial markets

A. Foreword

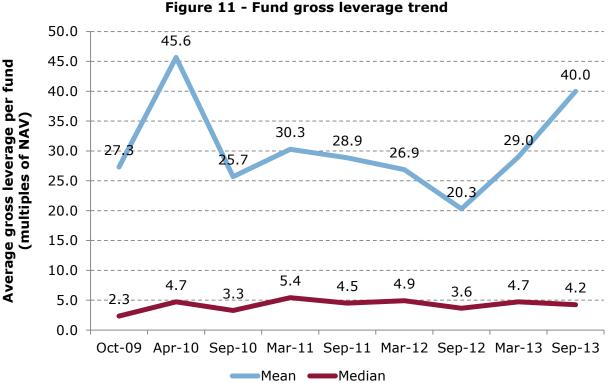
The different measures of size and market impact used in the HFS are defined below.

Net assets under management (AUM)	Or net asset value (NAV) of all fund assets
Gross notional exposure (GNE)	The absolute sum of all long and short positions, including gross notional value (delta-adjusted when applicable) for derivatives. This measure provides a complete appreciation of all the leverage that is employed by a fund to gain market exposure, i.e. financial leverage (repos, prime broker financing, secured and unsecured lending) and synthetic leverage (exposure through derivatives, including the resulting exposure to the underlying asset or reference). GNE does not directly represent an amount of money (or value) that is at risk of being lock. This appreciation of the color of the professional design and the color of the professional design.
	risk of being lost. It is a reference figure used to calculate profits and losses. But it still represents a fairer appreciation than NAV of the economic or market exposure that the position represents by looking through to the underlying asset or reference. The fact that hedge funds use risk management techniques to net out directional exposures does not reduce the overall gross size of the positions they are taking in the markets, which constitutes their market footprint.
Gross leverage	The ratio of GNE to NAV
Gross market value (GMV)	The absolute sum of all long and short positions, considering fair market value for all positions. This measure will usually be larger than NAV and smaller than GNE.
Turnover	A measure of transaction volumes or trading activity. The absolute sum (in US dollars) of all trades (on a rolling one-year basis), using market value or gross notional exposure (where applicable) and only the premiums paid or received for options. This measure provides the degree of activity of a fund in markets, which we then compare with the funds' static size as measured by NAV.

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Trends in the use of leverage В.

Leverage can be one way of highlighting how a hedge fund could be important to a market. One measure of leverage is gross leverage as described above. Figure 11 shows the average gross leverage ratios per fund (mean and median).



- The mean tends to be skewed by a few very large funds that make use of a significant amount of leverage, while the median demonstrates the vast majority of hedge fund vehicles tend to use relatively low levels of leverage.
- As shown in the chart above, previous editions of the survey had highlighted a notable deleveraging since 2010-2011 by a small number of large users of leverage - mostly macro funds.
- While the median leverage has remained relatively stable on six months ago, the largest funds have increased leverage thus pulling the mean higher. The high speed with which funds can alter their market exposure is an important part of our assessment of the systemic risk posed by this sector.
- The increase in leverage at the largest funds over the course of 2013 is mostly due to an increase in Interest Rate Derivative (IRD) positions.

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C. How leverage translates into market exposure

Figure 12 illustrates the gross notional exposures of the 106 hedge funds in our survey relative to their total net assets under management (AUM). These funds have an aggregate gross leverage of 64x NAV.

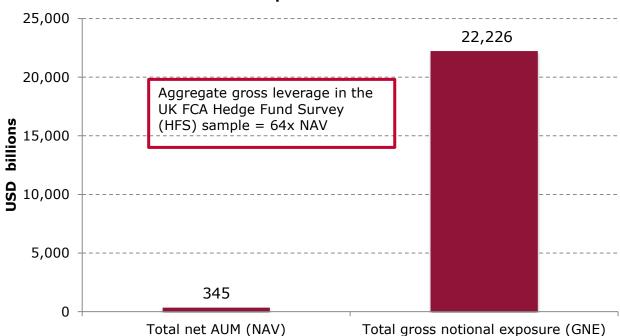


Figure 12 - Total net AUM versus Total gross notional exposure as at September 2013

D. Range of leverage ratios

Funds differ in several ways, including their use of leverage and overall exposure. The top ten funds managed an average of USD 1.9tn in gross notional exposure. Figure 13 presents the range of gross leverage per fund, measured as a ratio of NAV.

Figure 13 - Range of gross leverage per fund (GNE/NAV) in the HFS sample		
(in percentage of funds)		
> 50x	12.3%	
25x - 50x	8.5%	
10x - 25x	15.1%	
5x - 10x	9.4%	
< 5x	54.7%	

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E. Structure of leverage

There are two ways to leverage the net asset value into a broader market exposure:

• financial leverage (repo transactions, prime broker financing, direct secured or unsecured lending)

• synthetic leverage (using derivatives to obtain market exposure)

Our survey shows that size and exposure are driven by derivatives activity rather than financial leverage. Unsecured lending is very small as most counterparties demand some form of collateral for any financing of hedge fund positions.

Figure 14 shows the split between aggregate financial and synthetic leverage.

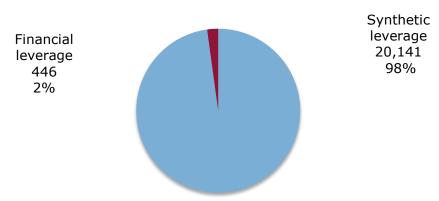
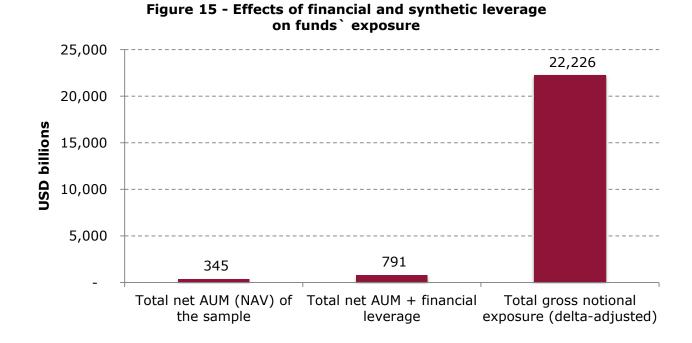


Figure 14 - Sources of leverage (USD billions)

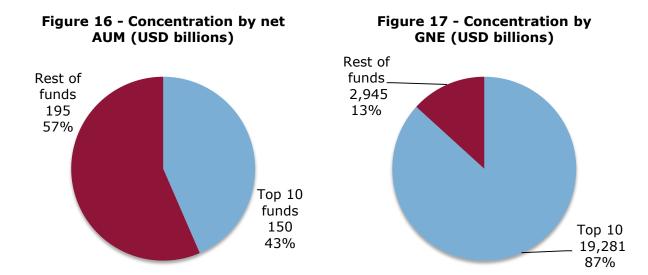
Figure 15 shows the effect of both types of leverage on the overall sample exposure, compared to net AUM (NAV). Most of the synthetic exposure is generated by a few funds.



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F. Concentration of exposure

Figures 16 and 17 show the concentration of the industry in terms of net AUM (NAV) and gross notional exposure (GNE).



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G. Fund exposures by instrument type

Figure 18 shows the point-in-time positions of the sample portfolio, by types of instruments used, using gross (long + short in absolute terms) and net measures. This excludes foreign exchange (FX) and interest rate derivatives (IRD) because these are computed only on a gross basis.

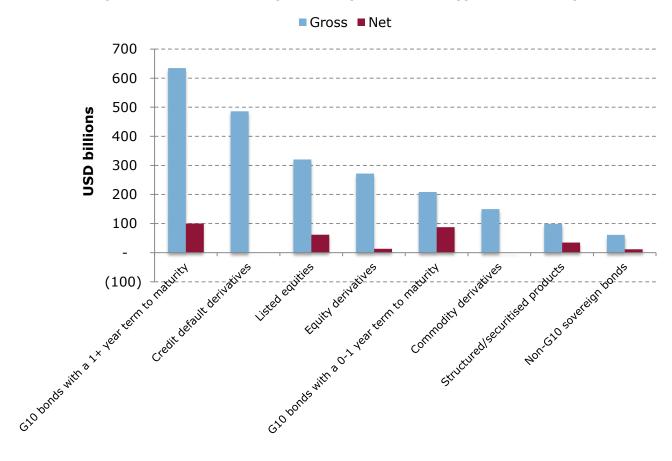


Figure 18 - Total fund exposures by instrument type for the sample

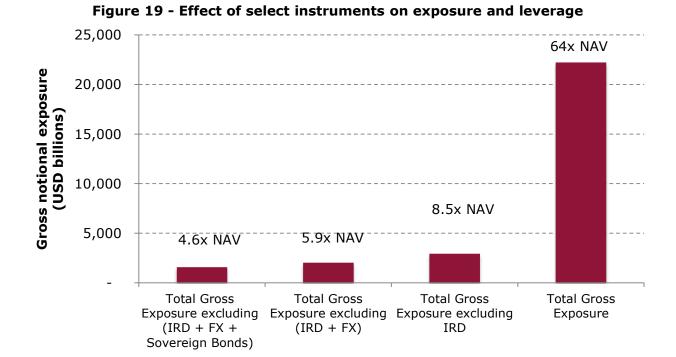
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H. Interest rate derivatives

The market for interest rates and interest rate derivatives is broad, deep and typically offers the liquidity hedge funds need to conduct their trading strategies. IRDs are by far the most important instrument used by hedge funds to generate both exposure and turnover.

Time series data helps to show the speed and size of shifts in IRD exposures. The survey, together with other similar exercises, is an important part of understanding the current and potential impact on financial stability.

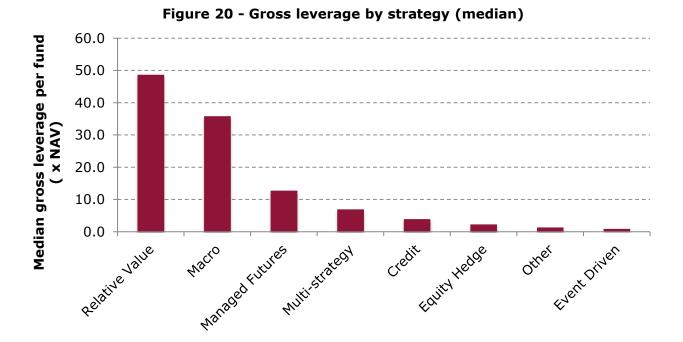
Figure 19 shows the incremental impact of different instruments on gross leverage, highlighting the predominant role of interest rate derivatives in generating exposure and leverage.



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I. Use of leverage by strategy

Interest rate derivatives tend to be used mostly in relative value, macro and managed futures strategies. This is reflected in their relatively high use of gross leverage, as set out in Figure 20.



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J. Turnover or trading activity

We also use the turnover of portfolios to assess a fund's potential impact on markets, which we defined earlier as a combination of gross size and trading activity. The survey shows the total trading activity for all funds over a one year rolling period ending in September 2013. This can be compared with the net AUM that investors have invested in the fund (the shareholders' equity in the fund).

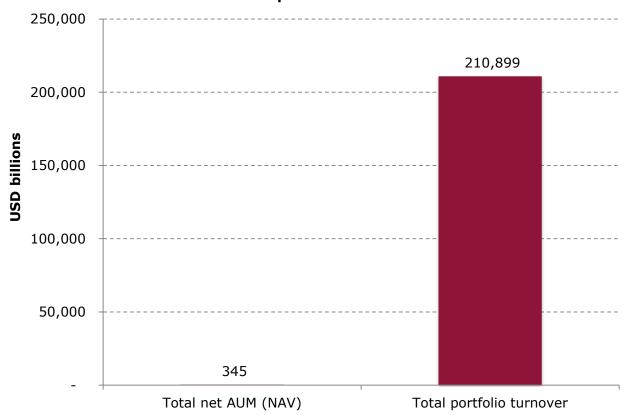


Figure 21 -Total portfolio turnover versus total net AUM (NAV) as at September 2013

Figure 22 - Range of turnover per fund		
(US dollars) in the HFS sample		
(in percentage of funds)		
> 1trn	20%	
100bn-1trn	28%	
10bn - 100bn	28%	
< 10bn	24%	

- The top ten funds represent 84% of the sample total portfolio turnover.
- In terms of turnover as a ratio of fund NAV, the most active funds turned over their portfolio more than 1,000 times over the last rolling year. This includes the impact of rolling short term interest rate positions.

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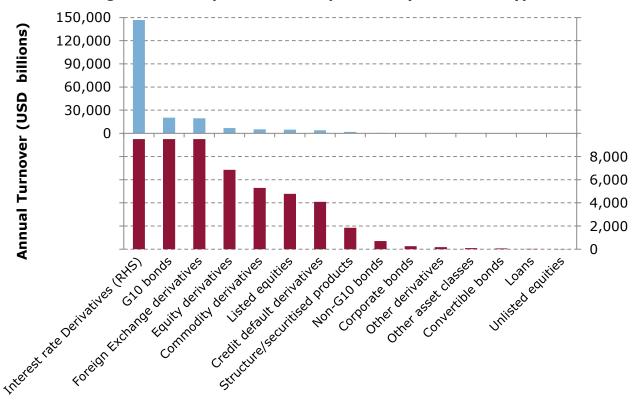


Figure 23 - Sample turnover of portfolio by instrument type

Figure 23 shows that IRD represent 70% of the total annual turnover of the sample in our survey. The panel chart above uses different scales to illustrate the difference in magnitude between IRD and the rest (i.e. the bottom panel uses a smaller scale to evidence lower volume instruments).

Several strategies (including macro and relative value) are based on active trading. This means that the impact these strategies have on the wider markets is generally much greater in terms of portfolio turnover than their net AUM would imply.

Other strategies tend to generate relatively less trading activity, resulting in a smaller difference between their market exposure and turnover.

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VI.

Portfolio characteristics of hedge funds

A. Risk

The survey gathers some information on the investment/market risks within funds, including traditional measures such as Value at Risk (VaR), counterparty risk and financing. Together, these metrics indicate sensitivity to external shocks and ultimately reflect the probability of failure. We use these measures to identify higher risk funds and to assess firms' technical capabilities and their approach to risk management.

B. Value at Risk (VaR) per fund

VaR measures the potential loss of a portfolio at a given level of confidence. We asked firms to provide us with their own VaR calculations for their funds. This helps us to understand how firms evaluate their own risk appetite. We are aware that VaR has a number of issues, particularly when analysing risks in stressed scenarios.

Of the funds surveyed, 79 reported a VaR figure. A comparison between these figures is not perfect as firms tend to report at different confidence intervals. We have annualised the data from the funds in the survey to produce an indicative range.

Respondents reported a wide range of annualised VaR figures for their funds. The median fund reported a VaR lower than 14% of net asset value (NAV), while a number of funds reported a VaR above 40% of NAV.

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Sources of financing

Figure 24 indicates the use of financial leverage and synthetic exposure through derivatives for the mean and median fund in the survey. Both highlight the impact of a few funds that use these types of leverage.

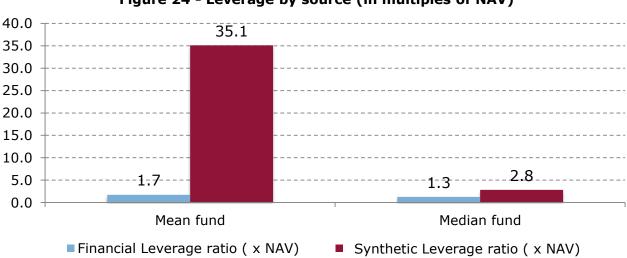


Figure 24 - Leverage by source (in multiples of NAV)

As noted in section V, very little, if any, unsecured (uncollateralised) hedge fund financing is provided by market counterparties and prime brokers. Figure 25 also illustrates that a large number of funds make little use of financial leverage altogether (difference between the median and the mean).

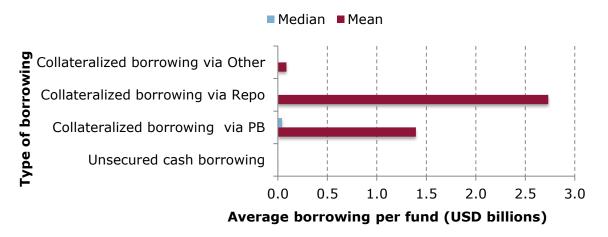


Figure 25 - Financial borrowing breakdown per fund

The top ten funds (in borrowing amounts) made up 79% of the total financial borrowings reported.

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D. Portfolio complexity

The complexity of portfolios is another indicator of potential systemic risk for funds. This is distinct from probability of failing (or propensity to fail), which is more closely linked to risk and liquidity (see section VIII).

Complexity can help us understand the impact that a fund failure would have on wider financial markets. Complexity acts as a magnifier of size and leverage: the more complex a fund is, the more difficult, time consuming and potentially financially detrimental its eventual wind up would be.

Complexity can be assessed by looking at factors such as:

- the nature of assets and instruments invested
- the structure of portfolio (including number of open positions)
- portfolio concentration

Hedge funds are by definition complex portfolios, which makes the analysis more complicated. Defining the composition of positions can be challenging. As a result, this type of analysis may not always provide clear and immediate conclusions on concentration or risk.

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1. Nature of assets and instruments

Most hedge funds deal in liquid markets and in instruments which can be easily valued using public data.

For a number of strategies, notably those using high turnover, liquidity is key. Therefore, they need markets with both depth and breadth in order to trade efficiently.

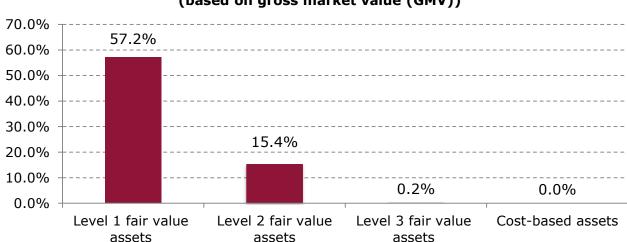


Figure 26 - Median fund asset classification (based on gross market value (GMV))

Note: The numbers in the chart will not necessarily add up to 100%, because they represent the median value for the cross section.

• The average portfolio of the surveyed funds is largely made up of liquid and easily valued instruments (levels 1 and 2). Figure 26 illustrates the median asset classification distribution, based on the asset classification rules of International Financial Reporting Standards (IFRS) or US Generally Accepted Accounting Principles (GAAP).

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2. Range of positions by strategy

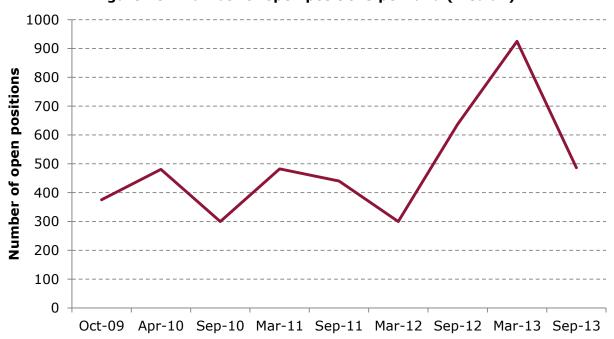
The survey asked firms to report on the total number of positions in their funds. Data collected as at September 2013 shows that the median number of open positions has fallen back after surging both in September 2012 and March 2013 (Figure 28). However, the number of positions and portfolio complexity has actually increased in macro and multi-strategy funds. This could indicate a rise in risk appetite for those funds as they see more trading opportunities in the markets.

Figure 27 - Number of open positions per fund broken down

by fund strategy (median)

4000
3500
2500
2500
1500
500
0
Equity Redde Reactive Value Reactive Reactiv

Figure 28 - Number of open positions per fund (median)



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E. Liquidity risk

For strategies with extensive derivative and synthetic exposure, the risks around fund liquidity are crucial metrics. They include the liquidity of the assets held, the cash positions of the fund and the liquidity offered to investors. Liquidity is a measure of a fund's ability to absorb loss. Liquidity of instruments can change over time, so current liquidity is only a guide to risk.

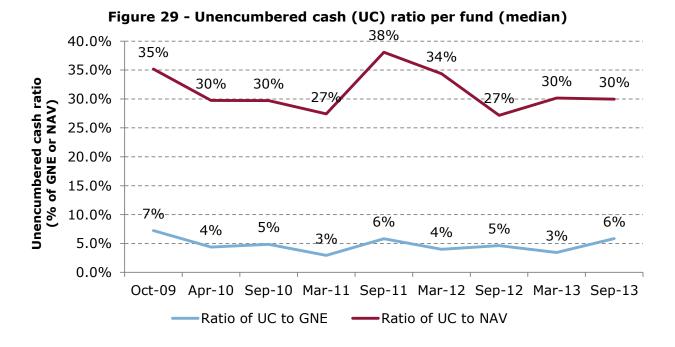
The following sections will address the aspects of liquidity risk we are monitoring.

1. Unencumbered cash

Where a fund has derivatives positions, a portion of its cash is held by its counterparties as margin or collateral. This cash is described as 'encumbered', and the cash that is not being used for such purposes is described as the 'unencumbered cash' held by the portfolio. The Financial Conduct Authority (FCA) considers the liquidity of a hedge fund (in particular its unencumbered cash position) as particularly important when evaluating a fund's risk profile.

During a period of market stress, a number of things may happen to a hedge fund's liquidity. As markets move against the fund, the fund will experience losses that will need to be met through the payment of margin to its counterparties. At the same time, the counterparties may demand higher margin payments, further reducing the unencumbered cash available to the fund. Where the fund has financial borrowings as well as synthetic leverage, lenders may call in loans or refuse to roll them over, further reducing liquidity. Investors in the fund may also seek to redeem (to the extent that they are able).

Figure 29 shows the unencumbered cash (UC) ratio of funds in the Hedge Fund Survey (HFS) sample over time. This ratio is shown as a percentage of net AUM (NAV) and gross notional exposure (GNE), to illustrate the impact of some highly leveraged funds. For the median fund, unencumbered cash has increased as a proportion of GNE in the most recent survey, but remained stable as a proportion of NAV. However, in the specific cases of macro, relative value and multi-strategy funds, unencumbered cash has actually fallen as a proportion of GNE.



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Figure 30 illustrates that derivatives based strategies retain a high proportion of their NAV in cash. They also have the highest GNE figures and therefore low cash as a proportion of their market exposure (Figure 31).

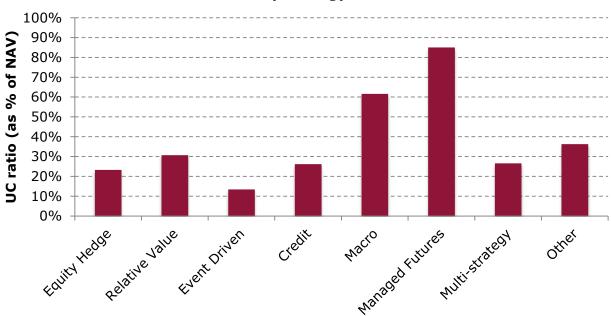
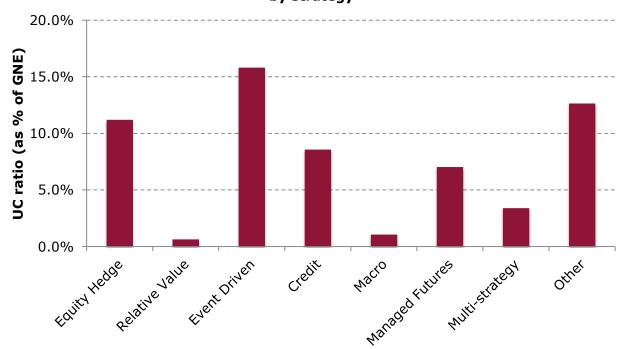


Figure 30 - Median fund unencumbered cash to NAV ratio by strategy





The protection hedge fund firms/funds have against liquidity risk is created by strong risk management and the diversification of their positions.

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Figure 32 presents the range of unencumbered cash as a proportion of GNE across the surveyed funds.

HFS

Figure 32- Range of unencumbered cash ratio per fund (as % of GNE) in the HFS sample (in percentage of funds)		
> 10% of GNE	31%	
5% - 10%	22%	
2% - 5%	12%	
1% - 2%	9%	
50bps - 1%	9%	
< 50bps of GNE	16%	

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2. Investor liquidity

Hedge funds have to monitor the risk caused by an imbalance between the liquidity of their portfolios and that which is offered to the investors in the fund.

In general, hedge fund vehicles are perceived as illiquid and investors accept less favourable redemption terms. Typically, hedge funds also offer significantly lower correlation ratios to traditional assets, particularly when compared to mainstream investment funds that do not have access to the same sophisticated strategies for regulatory reasons or business rationale.

As a result, hedge funds continue to report a strong ability to manage the liquidity mismatch between their assets and liabilities. The survey asks firms to estimate the liquidity of both assets and liabilities for various time frames (Figure 33), as at the time of reporting.

The difference between the two curves represents the liquidity buffer or days of spare liquidity. When negative, it means a fund would be exposed to the risk of redemption outpacing its capacity to free up enough cash to meet its obligations (risk of run on the fund).

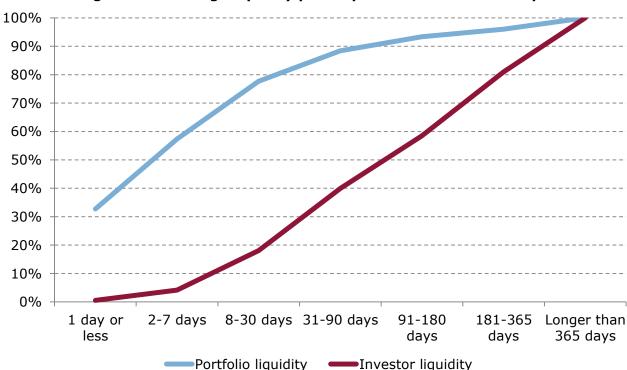


Figure 33 - Average liquidity profile per fund in the HFS sample

We have observed a reduction in the liquidity buffer in recent editions of the HFS, possibly driven by institutional investors requiring better terms and liquidity conditions. We will continue to monitor developments in this area, in particular the potential liquidity pressure some hedge funds may be facing in the future.

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3. Re-hypothecation or the re-use of assets

Asset recycling (or re-hypothecation) by the counterparties to hedge funds (banks, prime brokers) can act as a generator of market liquidity and a source of potential risk. The failure of Lehman Brothers International in 2008 highlights how uncapped re-hypothecation can complicate recovery and resolution regimes for failed entities.

The survey seeks appropriate ways to measure re-hypothecation. Practices and contract terms can vary regionally and according to the type of firm and the impact of implementing new regulations and directives such as the Alternative Investment Fund Managers Directive (AIFMD) for example.

Assessing how much collateral could be or has been reused by prime brokers is made more complex by pooling of assets and collateral at prime brokers and re-hypothecation contracts that are often based on net indebtedness and not on the actual amount of collateral.

At a high level, we note that 71% of surveyed funds permit some form of re-hypothecation of their assets, which is similar to the 69% figure in March 2013.

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VII. Afterword

We would like to thank all the participants in the survey for committing time and effort to this valuable exercise. We believe their input will help us to refine our approach to monitoring and managing risk in the investment industry, and to do so in a proportionate and informed manner. One of the objectives of this report has been to show the investment community how we intend to analyse the data that we will obtain from future regulatory reporting.

We envisage that there will be at least two more versions of this survey, with data reported as at March 2014 and September 2014. AIFMD and its reporting framework are then expected to supersede the FCA survey, providing similar data on a broader range of firms and funds. As part of our ongoing commitment to monitor the risks posed by hedge funds, we plan to remain actively involved in the Financial Stability Board (FSB) and the Securities Commission's (IOSCO) work streams to improve the consistency of data gathering and analysis of the sector at a global level.

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