# Citi Prime Finance



Market Commentary Report Date: April 2012

www.citigroupgcib.com

# **Hedge Fund Industry Snapshot**

Data as of March 2012

**Americas** 

New York:

800 773 2889

Boston:

617 346 9335

San Francisco: 415 617 8554

**EMEA** 

EMEA: 44 (0) 207 986 0822

**Asia Pac** 

Hong Kong: 852 2501 8356

Tokyo: 813 6270 3165

Singapore: 65 6432 1223

Australia: 612 8225 6424

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# Highlights-

### Performance, AUM & Flows:

- Composite hedge fund performance, equal-weighted across funds, were down in March 2012 with performance losses ranging from -0.07% to -0.02%. The Citi HARP hedge fund replication index was -1.30% in March versus the HFRI Fund of Fund index that was +0.03%. March 2012 performance returns proved to be lower than February 2012 which experienced +1.42% to +2.19% over the same period.
- Hedge fund strategy wise, top performing strategies in March 2012 include Convertible Arbitrage at +3.16%, Fixed Income arbitrage at +1.43%, Distressed at +0.82 and Equity Market Neutral at +0.77%. Strategies experiencing negative performance for March 2012 include Dedicated Short at -1.29%, CTA/Managed Futures at -1.14% and Global Macro at -0.01%.
- According to eVestment|HFN, hedge fund industry AUM ended March 2012 at \$2.55 trillion, down from \$2.56 trillion in February 2012. Industry AUM remains well below its \$2.94 trillion June 2008 peak.
- Decreases in AUM attributable to negative net investor flows accounted for -\$10.65 billion for March 2012, while performance loses accounted for -\$0.39 billion. 1st QTR industry asset growth stands at +\$87.78 billion attributed to performance gains of +\$66.99 billion and positive investor flows of +\$20.78 billion.

### Fund Profiles:

- Across the subset of hedge funds reporting performance and AUM, the monthly median performance for large single funds (>\$500 million) was flat at +0.0%, medium single funds (\$100-\$500 million) +0.0% and small single funds (<\$100 million) -0.1%.
- Liquidity terms continued its consistent pattern from the previous reporting periods with February 2012 showing little changes to redemption notice periods with 66% of funds requiring 30 days or less notice for redemption. Across the entire subset of reporting funds, the majority (51%) required no lockup (40%) or less than 1 year lock up (11%).
- Consistent throughout recent reporting periods, large funds (>\$500 million AUM) continue to hold a large portion of industry AUM (70%) compared to
  medium funds (\$100-\$500 million) at 22% and small funds (<\$100 million) holding only 8%.</li>

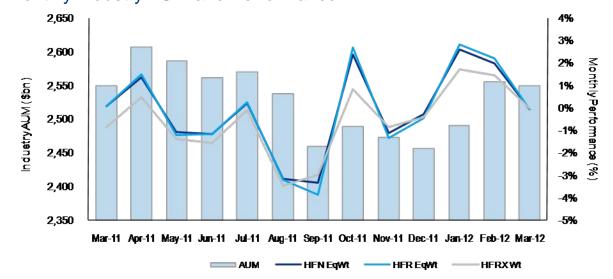
### Leverage & Shorts:

- On a global basis, we calculate gross leverage (as measured on a mean basis) at 1.93x in March 2012 versus 1.99x in February, and 1.95x in January.
- Looking across both long leverage and gross leverage, the following strategies showed the highest uses of leverage: Global Macro (5.69x), Equity Market Neutral (4.99x), Event Driven (4.58x), Multi Strategy (3.72x), Convertible Arbitrage (3.45x) and Fixed Income Arbitrage (3.9x).
- Citi U.S. short flows data included in this month's report show an increased interest in the Information Technology, Consumer Discretionary, & Financials sectors. These three sectors accounted for 54.99% of short executions and 52.44% of short covers versus 52.27 % of short executions and 49.73 % of short covers in February 2012.
- The biggest change seen between end-March and end-February in terms of net positioning by the large speculative accounts in futures & options was a build in the net short position in 10-Yr T-note contracts growing to a -4.5% of total open interest vs. -0.8% at the end of February. Overall open interest during that time was little changed. The large speculators also added slightly to a net short position in the S&P (SP & mini) to -1.6% of total open interest vs. -1.2% end-February. They cut net short positions in the EuroFX contract to -15.7% vs. -16.4% and in net long positions in gold to +12.7% vs. +15.1%. Total open interest dropped in each of those products from end-February to end-March.

- Composite hedge fund performance, equal-weighted across funds, were down in March 2012 with performance losses ranging from -0.07% to -0.02%. Returns were lower than last month's (February 2012 +1.42% to +2.19%). Year to data performance gains range from +3.16% to +4.99% compared to +0.41% to +1.70% over the same period year ago.
- Financial markets produced mixed performance for March, as strength in US economic data and optimism
  with regard to resolution of European sovereign debt crisis were offset by mixed performance in Asian and
  Emerging market equities, rising yields and commodity weakness. US equities posted gains with leadership
  from Financials and Technology partially offset by weakness in Energy & Commodity exposures. US yields
  rose across the curve on continued improvement in housing and employment data contributing to lower
  expectations for near term quantitative easing, while the US dollar was mixed, posting a gain against the
  Japanese Yen.
- Hedge fund strategy wise, top performing strategies in March include Convertible Arbitrage at +3.16%,
  Fixed Income arbitrage at +1.43%, Distressed at +0.82 and Equity Market Neutral at +0.77%. Strategies
  experiencing negative performance for March 2012 include Dedicated Short at -1.29%, CTA/Managed
  Futures at -1.14% and Global Macro at -0.01%.
- Industry AUM, estimated at \$2.55 trillion for March 2012 according to eVestment|HFN is down from February's \$2.56 trillion. Depending on the source, estimates of industry AUM ranges from \$2.13 to \$2.55 trillion compared to the Q2 2008 peak range of \$1.9 to \$2.94 trillion.

# HFREqWt 4.54% HFREqWt 4.99% HFRXWt 1.42% 3.16% 0.0% 1.0% 2.0% 3.0% 4.0% 5.0% 6.0% Mar-12 YTD 12

### Monthly Industry AUM and Performance



### Note Pad:

Source: eVestment|HFN

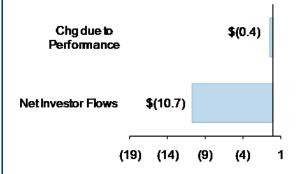
- MSCI World Index: +1.3%; +11.3% YTD
- MSCI EM Index: -3.3%; +14.1% YTD
- S&P 500: +3.3%; +12.3% YTD
- Citi US BIG Index: -0.6%; +0.3% YTD
- S&P GSCI: -2.4%; +6.1% YTD
- U.S. Dollar Index: +1.0%; -0.8% YTD
- HFN Country Indices December/YTD:
   Brazil -1.49% / +10.22%; Russia -2.17%/ +15.51%;
   India: -4.47% / +16.86%; China: -2.56% / +3.65%



Source: eVestment|HFN; Hedge Fund Research, Inc., © 2010; www.hedgefundresearch.com

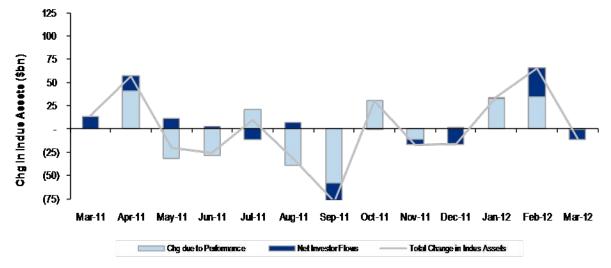
- According to eVestment|HFN, the estimated change in industry assets for March 2012 was negative, finishing the month down -\$11.03 billion. Losses were attributed mostly from negative net investor flows at -\$10.65 billion. Performance was down slightly from February 2012 with accounting for losses of -\$0.39 billion. 1st Quarter industry asset growth stands at +\$87.78 Billion from performance gains of +\$66.99 billion and positive investor flows of +\$20.78 billion.
- March 2012 marks the first month since November 2011 where performance contributed negatively to AUM. March 2012 performance loses of -\$0.39 billion were lower than the previous month (February 2012 +\$34.69 billion). 1<sup>st</sup> Quarter industry performance gains stand at +\$66.99 billion compared to +\$33.86 billion the same period last year.
- Negative net investor inflows of -\$10.65 billion for March 2012 marks the first period of negative net flows for 2012. March 2012 net flows are lower than year ago, as investor inflows totaled +\$12.96 billion over the same period.
- Total industry AUM of \$2.55 trillion for March 2012 is down -0.22% from \$2.56 trillion in February 2012. Industry AUM levels are still well below the June 2008 peak estimated by eVestment|HFN at \$2.94 trillion.

# Composition of Change in Assets: Mar-12 Amounts in (\$ bn)



Source: eVestment|HFN

### Monthly Change in Industry Assets and Composition



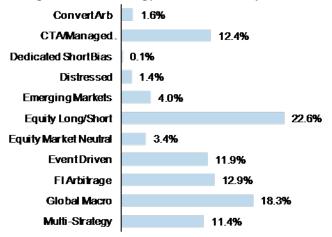
Source: eVestment|HFN

### Note Pad:

- The Citi Prime Finance calculation for end-March gross leverage (as measured on a mean basis) was 1.93x, compared to recent months: February (1.99x), January (1.95x), December (1.89x)
- Gross leverage (mean): defined as sum of (LMV + abs SMV) / Net Equity

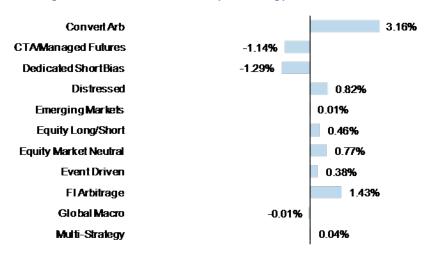


### Hedge Fund Strategy Breakdown by Assets



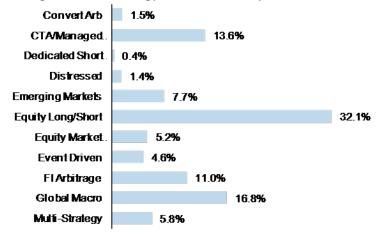
Source: Citi ICG Analytics

### Hedge Fund Performance by Strategy



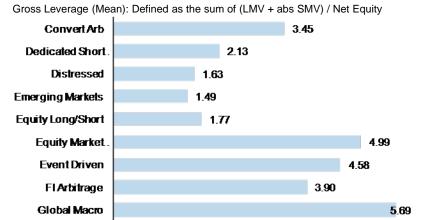
Source: Citi ICG Analytics

### Hedge Fund Strategy Breakdown by Number of Funds



Source: Citi ICG Analytics

### Hedge Fund Leverage Ratios by Strategy



Source: Citi Prime Finance

Multi-Strategy

Note: Hedge fund data is self-reported; each calculation is based on the respective data from funds who have reported for the current period.



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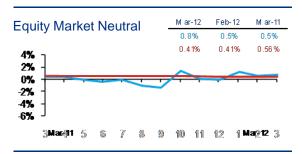




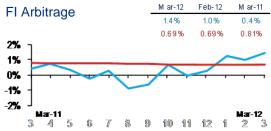














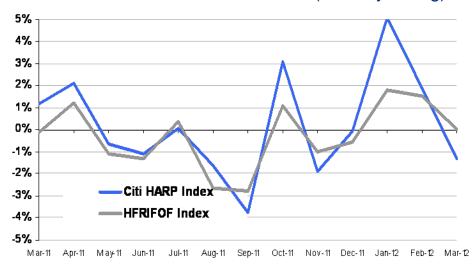


Source: Citi ICG Analytics

Note: Hedge fund data is self-reported; each calculation is based on the respective data from funds who have reported for the current period.



### Citi HARP Index vs. Benchmark (monthly rolling)



Citi HARP is a liquid investable index, which aims at approximating the performance of the hedge fund sector

	Mar-12	Feb-12	Mar-11	YTD-12
Citi Harp	-1.30%	1.90%	1.19%	5.68%
HFRIFOF	0.03%	1.52%	-0.10%	3.36%

Source: Citi and Hedge Fund Research, Inc., © www.hedgefundresearch.com HFRIFOF Index is the HFRI Funds of Funds Composite Index

Annualized Performance: Last 12-Month	Citi HARP Index	HFRIFOF
Annualised Return	1.54%	-3.41%
Annualised Volatility	8.53%	5.35%
Sharpe Ratio	0.17	-0.65
Correlation	89%	-

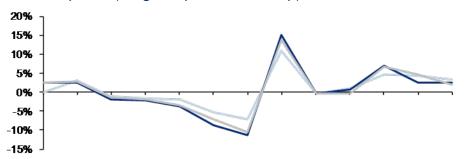
The purpose of the Index is to approximate in broad terms the performance of the hedge fund sector by achieving a similarity between the pattern of the returns of the Index and the pattern of the returns of a Benchmark - the HFRI Fund of Funds Composite Index.

The Index contains weighted components. The components are a money market component and various index components. Each index component represents a class of asset in which the hedge fund sector is assumed to invest: bond, commodity, equity and foreign exchange.

The weighting within the Index of each component is determined monthly. Every month, a multiple linear regression algorithm is used to identify the appropriate weighting.

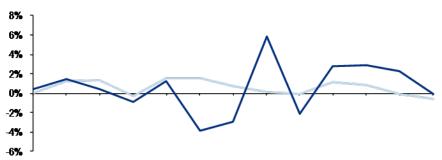


### US Equities (Large Cap vs. Small Cap)



	Mar-12	Feb-12	Mar-11	YTD-12
S&P 500	3.3%	4.3%	0.0%	12.3%
RUS 2000	2.6%	2.4%	2.6%	12.0%
S&P Mid	1.9%	4.5%	2.5%	13.0%

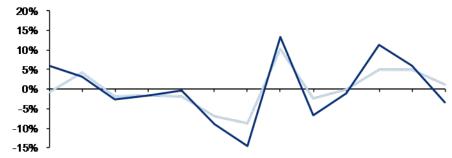
### Fixed Income (High-Grade vs. High-Yield)



Mar-11 Apr-11 May-11 Jun-11 Jul-11 Aug-11 Sep-11 Oct-11 Nov-11 Dec-11 Jan-12 Feb-12 Mar-12

	Mar-12	Feb-12	Mar-11	YTD-12
Citi US BIG Index	-0.6%	0.0%	0.0%	0.3%
Citi HY Bond Index ——	-0.1%	2.3%	0.4%	5.1%

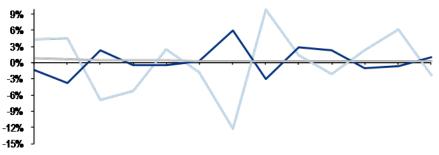
### Global Equities (Developed vs. Emerging)



Mar-11 Apr-11 May-11 Jun-11 Jul-11 Aug-11 Sep-11 Oct-11 Nov-11 Dec-11 Jan-12 Feb-12 Mar-12

	Mar-12	Feb-12	<u> </u>	<u> </u>
MSCI World	1.3%	4.9%	-0.9%	11.3%
MSCI EM	-3.3%	6.0%	5.9%	14.1%

### Commodities (US\$ performance)



Mar-11 Apr-11 May-11 Jun-11 Jul-11 Aug-11 Sep-11 Oct-11 Nov-11 Dec-11 Jan-12 Feb-12 Mar-12

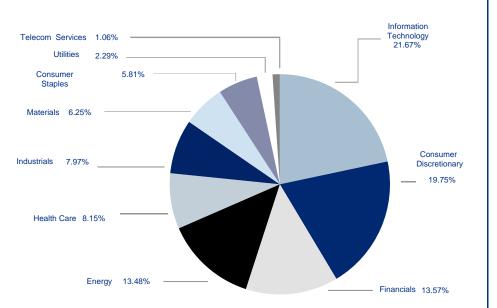
	Mar-12	Feb-12	<u> Mar-11</u>	YTD-12
S&P GSCI	-2.4%	6.1%	4.4%	5.9%
US-\$ Index	1.0%	-0.7%	-1.3%	-0.8%
US 2yr Note	0.3%	0.3%	0.8%	0.3%

Source: Citi ICG Analytics; FactSet; Citigroup Index LLC; Altman-NYU Salomon Center defaulted Debt Security Indexes.



# **US Securities Lending Sector Short Flows**

### **Short Sale Executions**



Telecom Services 1.53% Utilities 1.92%	Consumer Discretionary 20.22%
Consumer Staples 5.05%	
Health Care 7.89%	
Materials 8.00% —	Information Technology 18.08%
Industrials 9.84% ———	
Financials 13.53%	Energy 13.94%

**Short Cover Executions** 

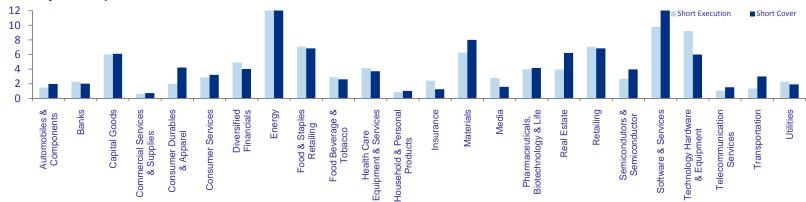
		% Previous Month	% Change From
Sector Short Flows	% Short Execution	Short Execution	Previous Month
Information Technology	21.67	20.60	5.19
Consumer Discretionary	19.75	19.53	1.13
Financials	13.57	11.48	18.21
Energy	13.48	12.50	7.84
Health Care	8.15	8.62	-5.45
Industrials	7.97	7.01	13.69
Materials	6.25	7.82	-20.08
Consumer Staples	5.81	8.00	-27.38
Utilities	2.29	2.32	-1.29
Telecom Services	1.06	2.11	-49.76

		% Previous Month	% Change From
Sector Short Flows	% Cover Execution	Short Cover	<b>Previous Month</b>
Consumer Discretionary	20.22	20.43	-1.03
Information Technology	18.08	12.94	39.72
Energy	13.94	16.95	-17.76
Financials	13.53	12.15	11.36
Industrials	9.84	9.99	-1.5
Materials	8.00	8.79	-8.99
Health Care	7.89	8.17	-3.43
Consumer Staples	5.05	6.87	-26.49
Utilities	1.92	2.57	-25.29
Telecom Services	1.53	1.13	35.4

Source: S&P (GICS); Citi U.S. Securities Lending. Executions of shorts and short covers settled at Citi Prime Finance based on Market Value



### Citi Industry Group Short Flows



		% Previous Month	% Change From
Industry	% Short Execution	Short Execution	Previous Month
Energy	13.48	12.50	7.84
Software & Services	9.78	9.42	3.82
Technology Hardware and Equipment	9.21	7.79	18.23
Retailing	7.06	6.66	6.01
Materials	6.25	7.82	-20.08
Capital Goods	6.01	4.14	45.17
Consumer Services	5.50	6.06	-9.24
Diversified Financials	4.91	2.84	72.89
Health Care Equipment and Services	4.16	2.89	43.94
Pharmaceuticals, Biotechnology & Life	3.99	5.73	-30.37
Real Estate	3.96	6.03	-34.33
Food Beverage & Tobacco	2.91	5.44	-46.51
Consumer Durables & Apparel	2.90	2.67	8.61
Media	2.80	1.50	86.67
Semiconductors & Semiconductor	2.67	3.39	-21.24
Insurance	2.43	0.97	150.52
Utilities	2.29	2.32	-1.29
Banks	2.27	1.64	38.41
Food & Staples Retailing	2.04	1.64	38.41
Automobiles & Components	1.49	2.64	-43.56
Trans portation	1.35	2.12	-36.32
Telecom Services	1.06	2.11	-49.76
Household & Personal Products	0.86	0.92	-6.52
Commercial Services & Supplies	0.62	0.75	-17.33

		% Previous Month	% Change From
Industry	% Cover Execution	Short Cover	Previous Month
Energy	13.94	16.95	-17.76
Software & Services	8.11	6.46	25.54
Materials	8.00	8.79	-8.99
Retailing	6.84	9.96	-1.72
Consumer Services	6.60	4.57	44.42
Real Estate	6.22	6.36	-2.20
Capital Goods	6.10	6.87	-11.21
Technology Hardware and Equipment	6.00	4.08	47.06
Pharmaceuticals, Biotechnology & Life	4.16	4.93	-15.62
Diversified Financials	4.02	2.45	64.08
Semiconductors & Semiconductor	3.97	2.40	65.42
Health Care Equipment and Services	3.72	3.25	14.46
Consumer Durables & Apparel	3.22	4.28	-24.77
Trans portation	3.01	2.06	46.12
Food Beverage & Tobacco	2.69	3.95	-31.90
Banks	2.02	2.33	-13.30
Automobiles & Components	1.98	1.54	28.57
Utilities	1.92	2.57	-25.29
Media	1.58	3.08	-48.70
Telecom Services	1.53	1.13	35.40
Food & Staples Retailing	1.34	2.30	-41.74
Insurance	1.26	1.00	26.00
Household & Personal Products	1.02	0.63	61.90
Commercial Services & Supplies	0.73	1.06	-31.13

Source: S&P (GICS); Citi U.S. Securities Lending. Executions of shorts and short covers settled at Citi Prime Finance based on Market Value



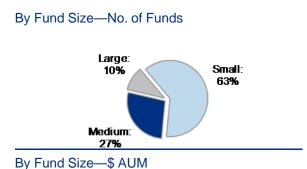
# **US Securities Lending Short Flows Summary**

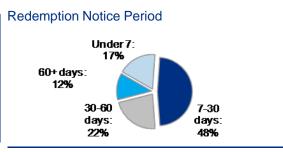
Citi Short Flows: March 2012

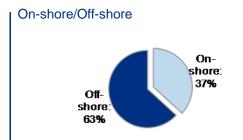
		% Short Executions	% Short Executions	% Change From	% Short Cover	% Short Cover	% Change From
GICS Code	Description	This Month	From Last Month	Last Month	This Month	From Last Month	Last Month
Sector	Sector						
10	Energy	13.48	12.50	7.84	13.94	16.95	-17.76
15	Materials	6.25	7.82	-20.08	8.00	8.79	-8.99
20	Industrials	7.97	7.01	13.69	9.84	9.99	-1.50
25	Consumer Discretionary	19.75	19.53	1.13	20.22	20.43	-1.03
30	Consumer Staples	5.81	8.00	-27.38	5.05	6.87	-26.49
35	Health Care	8.15	8.62	-5.45	7.89	8.17	-3.43
40	Financials	13.57	11.48	18.21	13.53	12.15	11.36
45	Information Technology	21.67	20.60	5.19	18.08	12.94	39.72
50	Telecommunication Services	1.06	2.11	-49.76	1.53	1.13	35.40
55	Utilities	2.29	2.32	-1.29	1.92	2.57	-25.29
Industry Group	Industry Group						
1010	Energy	13.48	12.50	7.84	13.94	16.95	-17.76
1510	Materials	6.25	7.82	-20.08	8.00	8.79	-8.99
2010	Capital Goods	6.01	4.14	45.17	6.10	6.87	-11.21
2020	Commercial Services & Supplies	0.62	0.75	-17.33	0.73	1.06	-31.13
2030	Transportation	1.35	2.12	-36.32	3.01	2.06	46.12
2510	Automobiles & Components	1.49	2.64	-43.56	1.98	1.54	28.57
2520	Consumer Durables & Apparel	2.90	2.67	8.61	3.22	4.28	-24.77
2530	Consumer Services	5.50	6.06	-9.24	6.60	4.57	44.42
2540	Media	2.80	1.50	86.67	1.58	3.08	-48.70
2550	Retailing	7.06	6.66	6.01	6.84	6.96	-1.72
3010	Food & Staples Retailing	2.04	1.67	24.39	1.34	2.30	-41.74
3020	Food Beverage & Tobacco	2.91	5.44	-46.51	2.69	3.95	-31.90
3030	Household & Personal Products	0.86	0.92	-6.52	1.02	0.63	61.90
3510	Health Care Equipment & Services	4.16	2.89	43.94	3.72	3.25	14.46
3520	Pharmaceuticals, Biotechnology & Life Sciences	3.99	5.73	-30.37	4.16	4.93	-15.62
4010	Banks	2.27	1.64	38.41	2.02	2.33	-13.30
4020	Diversified Financials	4.91	2.84	72.89	4.02	2.45	64.08
4030	Insurance	2.43	0.97	150.52	1.26	1.00	26.00
4040	Real Estate	3.96	6.03	-34.33	6.22	6.36	-2.20
4510	Software & Services	9.78	9.42	3.82	8.11	6.46	25.54
4520	Technology Hardware & Equipment	9.21	7.79	18.23	6.00	4.08	47.06
4530	Semiconductors & Semiconductor Equipment	2.67	3.39	-21.24	3.97	2.40	65.42
5010	Telecommunication Services	1.06	2.11	-49.76	1.53	1.13	35.40
5510	Utilities	2.29	2.32	-1.29	1.69	2.57	-25.29

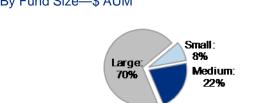
Source: S&P (GICS); Citi U.S. Securities Lending. Executions of shorts and short covers settled at Citi Prime Finance based on Market Value

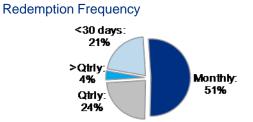


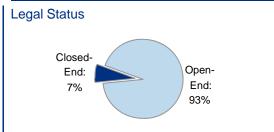


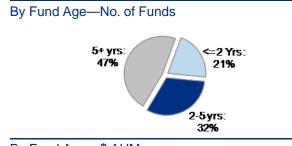


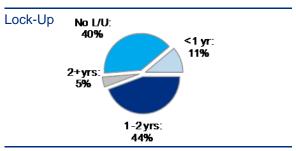


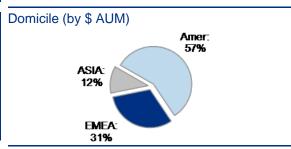


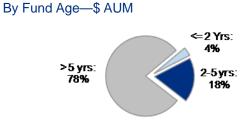


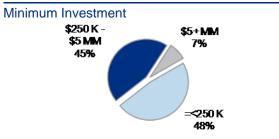












Source: Citi ICG Analytics

Note: Hedge fund data is self-reported; each calculation is based on the respective data from funds who have reported for the current period.



# Hedge Fund (Fund Level) Profiles

# Hedge Funds: Large (>\$500 MM)

								Preterred	Preterred
		Median	Median	Median	Domicile:		Preferred	<b>Redemption</b>	Redemption
		AUM	<b>Monthly</b>	YTD	<b>Americas</b>	Off-	Lock-Up /	Notice/	Frequency/
<b>Hedge Fund Age</b>	% of Total	(\$MM)	<b>Perform</b>	<b>Perform</b>	Region	Shore	% of Total	% of Total	% of Total
Under 2 yrs	4%	\$789	0.0%	2.5%	50%	100%	n/m	7-30 days / 31%	Monthly / 34%
2-5 yrs	24%	\$1,225	0.0%	3.1%	66%	76%	1-2 yrs / 65%	7-30 days / 44%	Monthly / 50%
Over 5 yrs	72%	\$1,938	0.0%	3.6%	67%	73%	No / 43%	7-30 days / 35%	Monthly / 47%
Total	100%	<b>\$1,729</b>	0.0%	3.4%	65%	74%	No / 46%	7-30 days / 36%	Monthly / 48%

### Hedge Funds: Medium (\$100 - \$500 MM)

								rreierrea	rreierrea
		Median	Median	<b>Media</b> n	Domicile:		Prefe rred	Redemption	Redemption
		AUM	<b>Monthly</b>	YTD	<b>Americas</b>	Off-	Lock-Up /	Notice/	Frequency/
<b>Hedge Fund Age</b>	% of Total	(\$MM)	<b>Perform</b>	Perform	Region	Shore	% of Total	% of Total	% of Total
Under 2 yrs	8%	\$198	0.0%	2.0%	35%	89%	1-2 yrs / 100%	7-30 days / 44%	Under 30 / 55%
2-5 yrs	29%	<b>\$</b> 212	20%	3.5%	59%	100%	1-2 yrs / 60%	7-30 days / 41%	Monthly / 43%
Over 5 yrs	62%	\$231	0.0%	4.0%	73%	67%	No / 50%	7-30 days / 47%	7-30 days / 66%
Total	100%	\$222	0.0%	3.1%	67%	72%	No / 45%	7-30 days / 44%	Monthly / 47%

# Hedge Funds: Small (<\$100 MM)

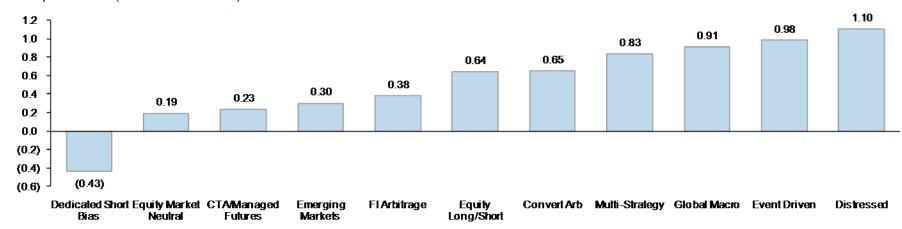
							Preferred	Preferred
	<b>Media</b> n	Median	Median	Domicile:		Preferred	<b>Redem ption</b>	<b>Redemption</b>
	AUM	<b>Monthly</b>	YTD	<b>Americas</b>	Off-	Lock-Up /	Notice/	Frequency/
% of Total	(\$MM)	Perform	Perform	Region	Shore	% of Total	% of Total	% of Total
14%	\$32	0.0%	3.2%	40%	79%	1-2 yrs / 81%	7-30 days / 39%	Under 30 / 51%
33%	\$36	-1.0%	4.6%	56%	73%	1-2 yrs / 57%	7-30 days / 42%	Monthly / 47%
52%	<b>\$</b> 53	0.0%	5.6%	70%	60%	No / 46%	7-30 days / 56%	Monthly / 49%
100%	\$37	-0.1%	4.9%	63%	66%	1-2 yrs / 45%	7-30 days / 50%	Monthly / 46%
	14% 33% 52%	**MM)**  **AUM (\$MM)**  14% \$32  33% \$36  52% \$53	AUM         Monthly           % of Total         (\$MM)         Perform           14%         \$32         0.0%           33%         \$36         -1.0%           52%         \$53         0.0%	AUM         Monthly         YTD           % of Total         (\$MM)         Perform         Perform           14%         \$32         0.0%         3.2%           33%         \$36         -1.0%         4.6%           52%         \$53         0.0%         5.6%	Aum         Monthly         YTD         Americas           % of Total         (\$MM)         Perform         Perform         Region           14%         \$32         0.0%         3.2%         40%           33%         \$36         -1.0%         4.6%         56%           52%         \$53         0.0%         5.6%         70%	AUM         Monthly Perform         YTD Perform         Americas Region         Off-Shore           14%         \$32         0.0%         3.2%         40%         79%           33%         \$36         -1.0%         4.6%         56%         73%           52%         \$53         0.0%         5.6%         70%         60%	AUM         Monthly Perform         YTD Perform         Americas Region         Off-Shore         Lock-Up / Sof Total           14%         \$32         0.0%         3.2%         40%         79%         1-2 yrs / 81%           33%         \$36         -1.0%         4.6%         56%         73%         1-2 yrs / 57%           52%         \$53         0.0%         5.6%         70%         60%         No / 46%	AUM         Monthly         YTD         Americas         Off- Region         Lock-Up / Shore         Notice/           % of Total         (\$MM)         Perform         Perform         Region         Shore         % of Total         % of Total           14%         \$32         0.0%         3.2%         40%         79%         1-2 yrs / 81%         7-30 days / 39%           33%         \$36         -1.0%         4.6%         56%         73%         1-2 yrs / 57%         7-30 days / 42%           52%         \$53         0.0%         5.6%         70%         60%         No / 46%         7-30 days / 56%

Source: Citi ICG Analytics

Note: Hedge fund data is self-reported; each calculation is based on the respective data from funds who have reported for the current period. Median YTD performance is calculated from funds reporting for all underlying periods. - "n/m" = Not Meaningful.

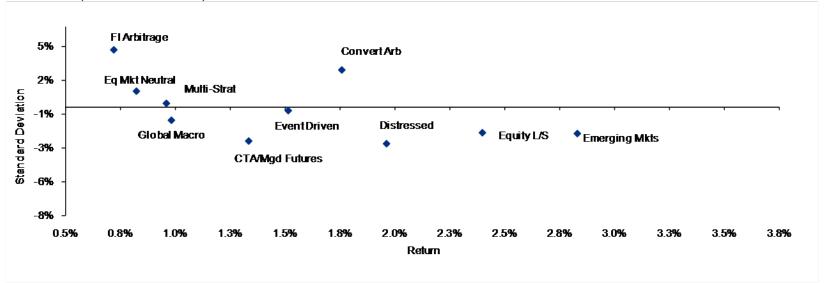


### Sharpe Ratios (Jun-94 – Mar-12)



Source: Credit Suisse Tremont

### Risk vs. Return (Mar-11 - Mar-12)

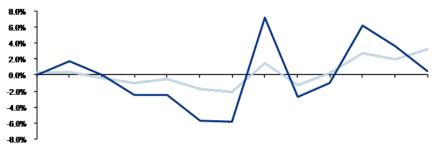


Source: Citi ICG Analytics



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	YTD
Citi-derived Median	2.8%	2.0%	3.2%										7.9%

### Hedge Fund Performance vs. Benchmark (Monthly, LTM)

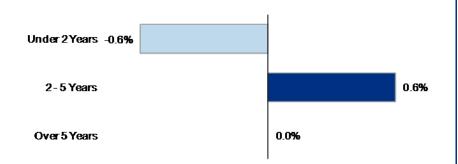


Mar-11 Apr-11 May-11 Jun-11 Jul-11 Aug-11 Sep-11 Oct-11 Nov-11 Dec-11 Jan-12 Feb-12 Mar-12

	Mich-IZ	I GD IZ	IAIGH - I I	110-12
Convert Arb	3.2%	2.0%	0.4%	7.9%
CWB ETF	0.5%	3.6%	0.0%	10.6%

Source: Citi ICG Analytics; FactSet

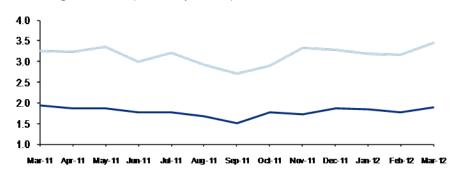
### Hedge Fund Performance by Age (1)



Source: Citi ICG Analytics

sizes may be small.

### Leverage Profile (Monthly, LTM)

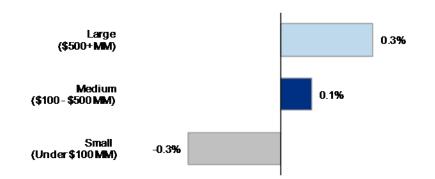


Gross Leverage (Mean): Defined as the sum of (LMV + abs SMV) / Net Equity

LMV Leverage (Mean): Defined as Long Market Value / Net Equity

Source: Citi Prime Finance

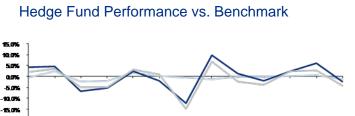
### Hedge Fund Performance by Size (1)



Source: Citi ICG Analytics



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	YTD
Citi-derived Median	0.3%	0.4%	-1.1%										-0.5%



-11 Nay-11 Jun-11 Jul-11 Aug-11 Sep-11 Oct-11 Nov-11 Dec-11

Source: Citi ICG Analytics; FactSet

### Hedge Fund Performance by Age



Source: Citi ICG Analytics

### Hedge Fund Performance by Size

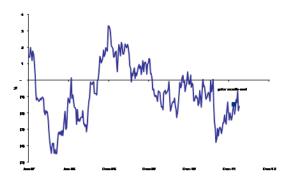


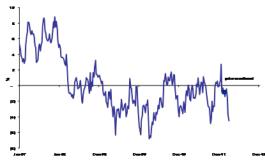
Source: Citi ICG Analytics

Large Speculator Positions: CFTC Commitment Of Trader (Futures & Options) Report Net of Longs Less Shorts As Percent of Total Open Positions

Combined S&P / Weighted Mini S&P Contracts

U.S. 10-Year Treasury Futures



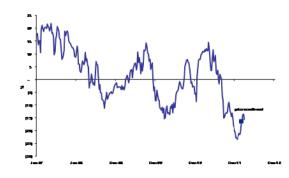


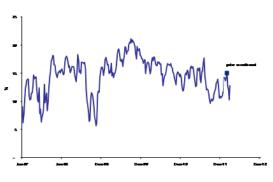
Last Update: 3/27/12 -1.6%

Last Update: 3/27/12 -4.5%

EuroFX Futures

Gold Futures





Last Update: 3/27/12 -15.7%

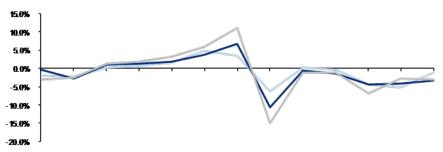
Last Update: 3/27/12 +12.7%

Source: CFTC, Bloomberg, Citi Futures Perspective



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	YTD
Citi-derived Median	-4.5%	-5.2%	-1.3%										-11.0%



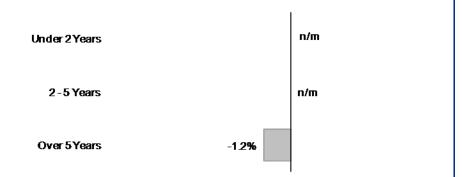


Mar-11 Apr-11 May-11 Jun-11 Jul-11 Aug-11 Sep-11 Oct-11 Nov-11 Dec-11 Jan-12 Feb-12 Mar-12

	Маг-12	Feb12	Mar-11	Y I D-12
Ded Short Bias	-1.3%	-5.2%	-1.9%	-11.0%
S&P Short ETF (SH)	-3.4%	-4.2%	-0.3%	-11.5%
Rus 2000 Short ETE (RWM)	-3 0%	-2 8%	-3 1%	-12 2%

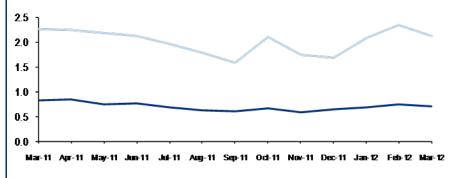
Source: Citi ICG Analytics; FactSet

### Hedge Fund Performance by Age (1)



Source: Citi ICG Analytics

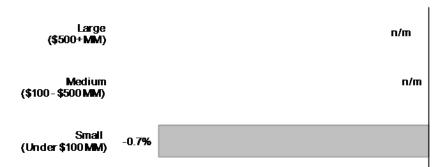
Leverage Profile (Monthly, LTM)



Gross Leverage (Mean): Defined as the sum of (LMV + abs SMV) / Net Equity — LMV Leverage (Mean): Defined as Long Market Value / Net Equity —

Source: Citi Prime Finance

### Hedge Fund Performance by Size (1)

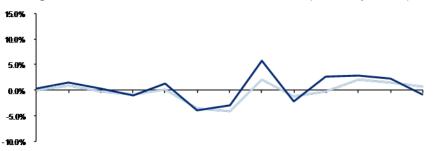


Source: Citi ICG Analytics



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	YTD
Citi-derived Median	2.1%	1.5%	0.8%										4.4%

### Hedge Fund Performance vs. Benchmark (Monthly, LTM)

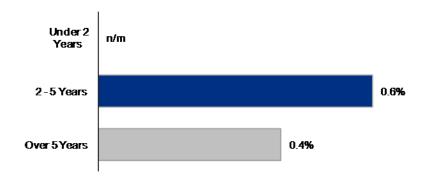


Mar-11 Apr-11 May-11 Jun-11 Jul-11 Aug-11 Sep-11 Oct-11 Nov-11 Dec-11 Jan-12 Feb-12 Mar-12

	Mar-12	Feb12	Mar-11	YTD-12
Distressed	0.8%	1.5%	-0.1%	4.4%
Citi HY Bond Index	-0.8%	2.3%	0.4%	4.4%

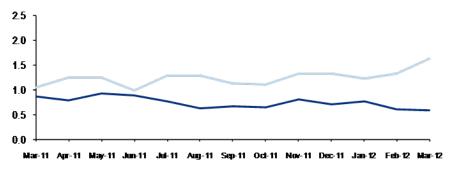
Source: Citi ICG Analytics; Citigroup Index LLC; Altman-NYU Salomon Center

### Hedge Fund Performance by Age (1)



Source: Citi ICG Analytics

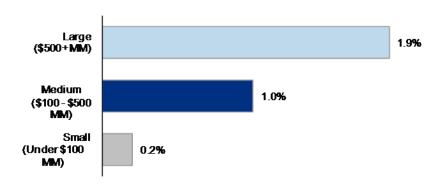
### Leverage Profile (Monthly, LTM)



Gross Leverage (Mean): Defined as the sum of (LMV + abs SMV) / Net Equity ——
LMV Leverage (Mean): Defined as Long Market Value / Net Equity ——

Source: Citi Prime Finance

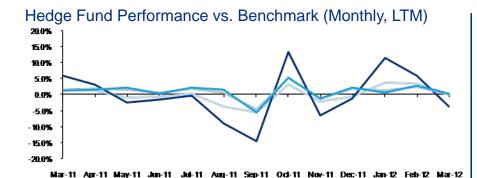
### Hedge Fund Performance by Size (1)



Source: Citi ICG Analytics



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	YTD
Citi-derived Median	3.8%	3.5%	0.0%										7.3%



 Mar-12
 Feb12
 Mar-11
 YTD-12

 Ernerging Mkts
 0.0%
 3.5%
 1.3%
 7.3%

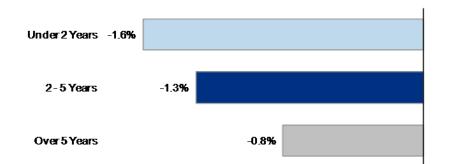
 MSCI EM
 -3.8%
 6.0%
 5.9%
 13.6%

 JPM EMBIG Core ETF (EMB)
 -0.1%
 2.5%
 1.6%
 3.5%

JPM EMBIG Core ETF (EMB) -0.1% 2.5% 1.6% DB EM Liquid ETF (PCY) -0.3% 2.9% 1.3%

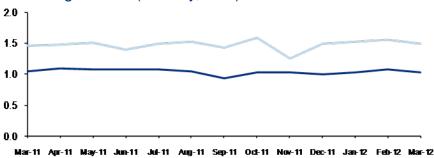
Source: Citi ICG Analytics; FactSet

### Hedge Fund Performance by Age



Source: Citi ICG Analytics

Leverage Profile (Monthly, LTM)

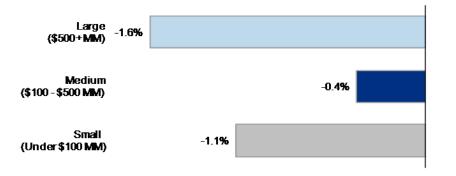


Gross Leverage (Mean): Defined as the sum of (LMV + abs SMV) / Net Equity

LMV Leverage (Mean): Defined as Long Market Value / Net Equity

Source: Citi Prime Finance

### Hedge Fund Performance by Size



Source: Citi ICG Analytics

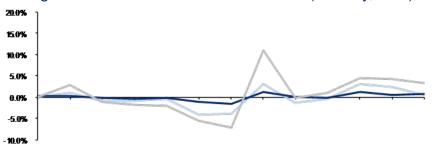
Note: Hedge fund data is self-reported; each calculation is based on the respective data from funds who have reported for the current period. (1) Universe and sample sizes may be small.

3.8%



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	YTD
Citi-derived Median	3.1%	2.5%	0.5%										6.0%

### Hedge Fund Performance vs. Benchmark (Monthly, LTM)



Mar-11 Apr-11 May-11 Jun-11 Jul-11 Aug-11 Sep-11 Oct-11 Nov-11 Dec-11 Jan-12 Feb-12 Mar-12

	Mar-12	Feb12	Mar-11	YTD-12
Eq Long/Short	0.5%	2.5%	0.2%	6.0%
Eq Mkt Neutral	0.8%	0.5%	0.4%	2.5%
S&P 500	3.3%	4.3%	0.0%	12.6%

Source: Citi ICG Analytics; FactSet

### Hedge Fund Performance by Age

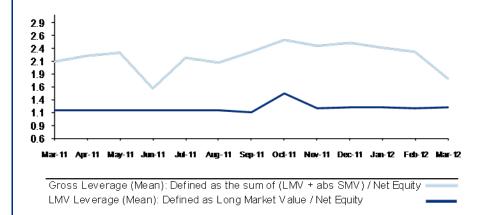


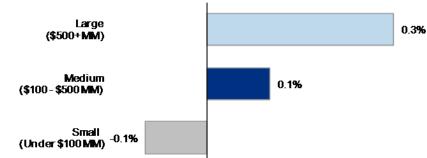
Source: Citi ICG Analytics

Hedge Fund Performance by Size

Source: Citi Prime Finance

Leverage Profile (Monthly, LTM)





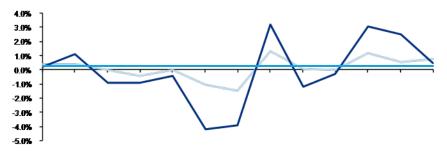
Source: Citi ICG Analytics



# **Equity Market Neutral**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	YTD
Citi-derived Median	1.2%	0.5%	0.8%										2.5%

### Hedge Fund Performance vs. Benchmark (Monthly, LTM)

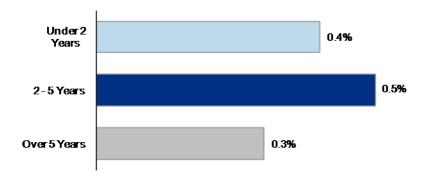


Mar-11 Apr-11 May-11 Jun-11 Jul-11 Aug-11 Sep-11 Oct-11 Nov-11 Dec-11 Jan-12 Feb-12 Mar-12

	маг-12	FeD12	маг-11	Y 1D-12
Eq Mkt Neutral	0.8%	0.5%	0.4%	2.5%
Eq Long/Short	0.5%	2.5%	0.2%	6.0%
LIBOR + 300 bps	0.3%	0.3%	0.3%	0.8%
US T-Bill + 300 bps	0.3%	0.3%	0.3%	0.8%

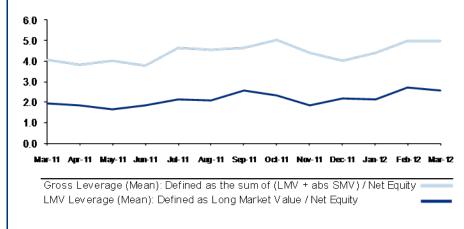
Source: Citi ICG Analytics; FactSet

### Hedge Fund Performance by Age



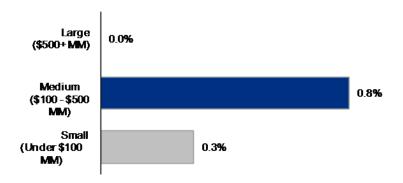
Source: Citi ICG Analytics

### Leverage Profile (Monthly, LTM)



Source: Citi Prime Finance

### Hedge Fund Performance by Size



Source: Citi ICG Analytics



**Event Driven** Data as of Mar-2012

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	YTD
Citi-derived Median	1.9%	1.7%	0.4%										4.0%



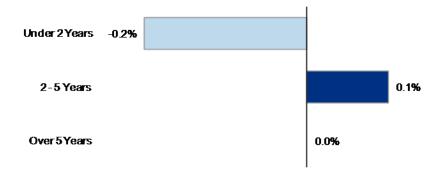


Mar-11 Apr-11 May-11 Jun-11 Jul-11 Aug-11 Sep-11 Oct-11 Nov-11 Dec-11 Jan-12 Feb-12 Mar-12

	Маг-12	Feb12	Mar-11	YTD-12
Event Driven	0.4%	1.7%	0.3%	4.0%
The Merger Fund (MERFX)	0.5%	0.8%	1.0%	1.4%
AQR Div Arb Fund (ADANX)	0.2%	0.7%	0.2%	1.8%

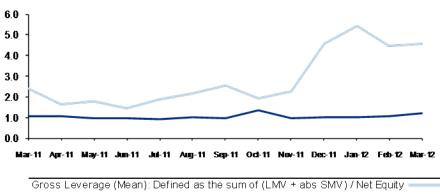
Source: Citi ICG Analytics; FactSet

### Hedge Fund Performance by Age



Source: Citi ICG Analytics

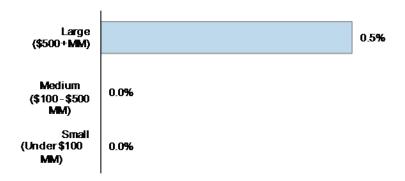
Leverage Profile (Monthly, LTM)



LMV Leverage (Mean): Defined as Long Market Value / Net Equity

Source: Citi Prime Finance

### Hedge Fund Performance by Size



Source: Citi ICG Analytics



# FI Arbitrage

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	YTD
Citi-derived Median	1.3%	1.0%	1.4%										3.7%



 Mar-12
 Feb12
 Mar-11
 YTD-12

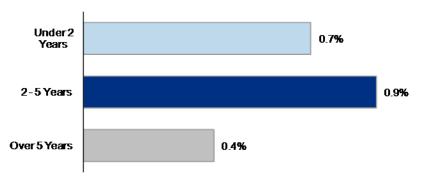
 FIArbitrage
 1.4%
 1.0%
 0.4%
 3.7%

Mar-11 Apr-11 May-11 Jun-11 Jul-11 Aug-11 Sep-11 Oct-11 Nov-11 Dec-11 Jan-12 Feb-12 Mar-12

Cit US BIG Index -0.4% 0.0% 0.0% 0.4% Cit HY Bond Index -0.8% 2.3% 0.4% 4.4%

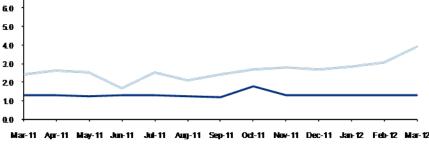
Source: Citi ICG Analytics; Citigroup Index LLC

### Hedge Fund Performance by Age



Source: Citi ICG Analytics

Leverage Profile (Monthly, LTM)

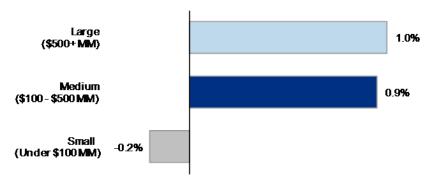


Gross Leverage (Mean): Defined as the sum of (LMV + abs SMV) / Net Equity

LMV Leverage (Mean): Defined as Long Market Value / Net Equity

Source: Citi Prime Finance

### Hedge Fund Performance by Size



Source: Citi ICG Analytics

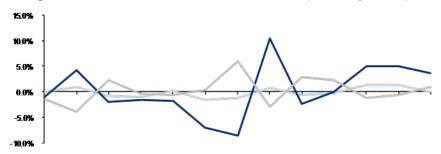


Global Macro

Data as of Mar-2012

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	YTD
Citi-derived Median	1.3%	1.3%	0.0%										2.6%

### Hedge Fund Performance vs. Benchmark (Monthly, LTM)

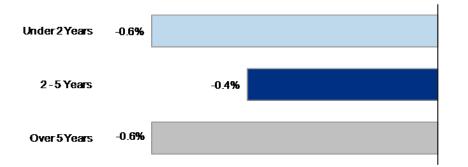


Mar-11 Apr-11 May-11 Jun-11 Jul-11 Aug-11 Sep-11 Oct-11 Nov-11 Dec-11 Jan-12 Feb-12 Mar-12

	Маг-12	Feb12	Маг-11	YTD-12
Global Macro	0.0%	1.3%	-0.1%	2.6%
MSCI World	3.6%	4.9%	-0.9%	14.2%
US\$-Index	1.0%	-0.7%	-1.3%	-0.8%

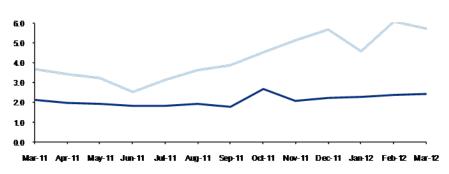
Source: Citi ICG Analytics; FactSet

### Hedge Fund Performance by Age



Source: Citi ICG Analytics; FactSet; Citi Prime Finance

### Leverage Profile (Monthly, LTM)

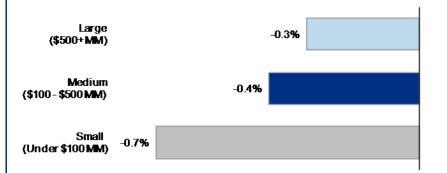


Gross Leverage (Mean): Defined as the sum of (LMV + abs SMV) / Net Equity

LMV Leverage (Mean): Defined as Long Market Value / Net Equity

Source: Citi ICG Analytics; FactSet; Citi Prime Finance

### Hedge Fund Performance by Size



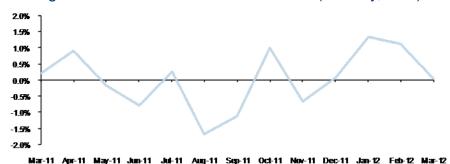
Source: Citi ICG Analytics; FactSet; Citi Prime Finance



# Multi-Strategy

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	YTD
Citi-derived Median	1.4%	1.1%	0.0%										2.5%

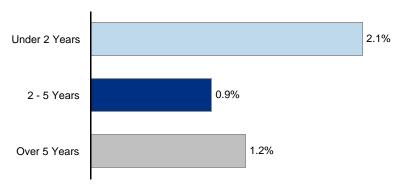
### Hedge Fund Performance vs. Benchmark (Monthly, LTM)



Multi-Strategy

Source: Citi ICG Analytics

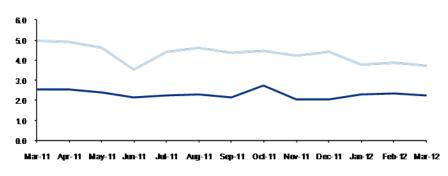
### Hedge Fund Performance by Age



Source: Citi ICG Analytics

sizes may be small.

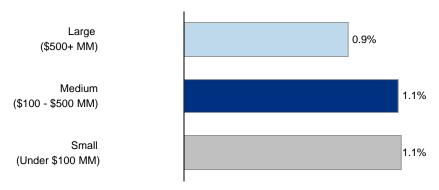
### Leverage Profile (Monthly, LTM)



Gross Leverage (Mean): Defined as the sum of (LMV + abs SMV) / Net Equity LMV Leverage (Mean): Defined as Long Market Value / Net Equity

Source: Citi Prime Finance

### Hedge Fund Performance by Size



Source: Citi ICG Analytics



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