CONSILIA CAPITAL



Real Estate Securities Funds

Monthly

Period End: June 2016

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Real Estate Securities Funds Monthly

Summary

This month we have divided the report into the following sections:

1) A summary of June performance by fund mandate and size (p3)

Mandate	June return US\$%
US Real estate	5.35
Asian Real estate	4.56
Global Infrastructure Fund	3.66
Japan Real Estate	3.20
Global REIT	3.16
Global Real Estate	2.59
Real Assets Fund	1.06
European real estate	-4.97

2) A summary of 1H 2016 performance by fund mandate and size (p4)

Mandate	1H 2016 return US\$%
Japan Real Estate	19.97
US Real estate	10.25
Asian Real estate	10.01
Global Infrastructure Fund	9.98
Global REIT	8.74
Real Assets Fund	6.17
Global Real Estate	5.97
European real estate	-1.01

3) Focus: Liquidity of Real Estate Securities (ps5-9)

Ahead of the separation of real estate as the 11^{th} GICs classification on 1^{st} September 2016, we are a featuring a series of articles related to this new, explicit weighting. This month we look at liquidity, and feature a paper which we recently had published in the Journal of Property Investment and Finance. The purpose of the paper was to test the relationship between liquidity in listed real estate markets, company size, and geography during three different periods of market conditions, specifically; pre-crisis (2002–2006), during the crisis (2007 – 2009) and post-crisis (2010–2014). Key Findings are:

- Market liquidity factors are correlated globally over time, indicating markets interdependence. However, specific liquidity levels in each market do differ.
- Stock turnover levels have not recovered post-crisis to pre-crisis levels in the majority of markets although spreads have continued moving downward to negligible levels in line with the rest of the equity market.
- With regards to stock performance, the European bias previously detected is not apparent in the US, and there is no evidence of the small cap vs. large cap effect of small companies achieving superior returns, although smaller companies have outperformed in Europe and Asia in each of the last three years (2012-2014).

4) Detailed performance statistics by region (ps 10-16) for 1H 2016

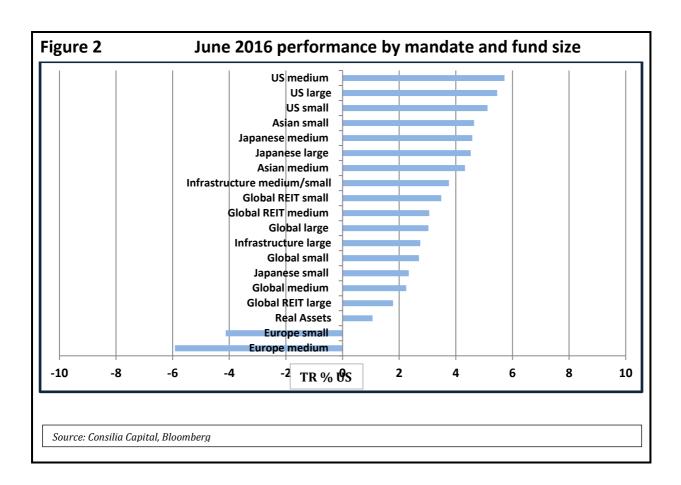
This month we look at the data for the first half of 2016. For each mandate we show: the dispersion of returns by Fund AUM, popular benchmark returns and volatility, average, maximum and minimum fund returns, the best performing funds by size, for each mandate. For consistency, all returns are rebased in US\$.

Finally, it is important to note that there are no recommendations or investment advice contained in this publication, and that it is not intended for retail investors. This report represents only a very small summary of the outputs of our database, and the bespoke research and advisory service work we undertake for clients. For further details of our work please contact us.

June 2016 performance summary

Firstly we show how each region and asset class has performed during the month, with the range of maximum and minimum outcomes. (Figure 1). Secondly, we look at the differences in performance of each mandate classified by size of Fund (Figure 2).

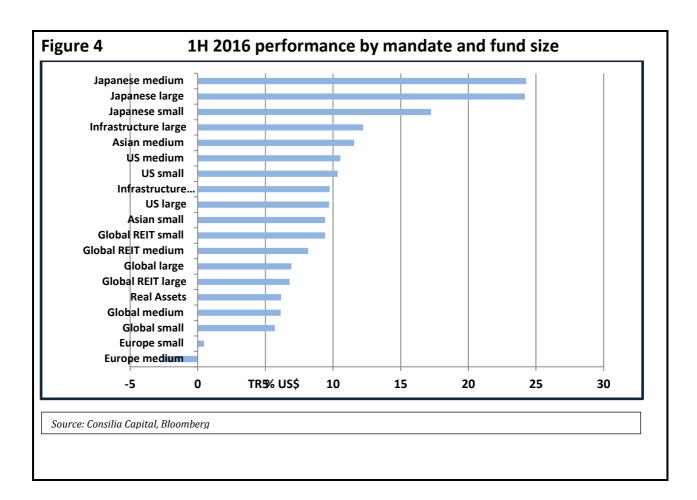
Figure 1 Fund performance June 2016							
Funds	Average (%)	Max (%)	Min (%)				
US Real estate	5.35	21.33	-18.93				
Asian Real estate	4.56	17.54	-1.92				
Global Infrastructure Fund	3.66	86.20	-9.10				
Japan Real Estate	3.20	8.41	-4.77				
Global REIT	3.16	12.00	-6.22				
Global Real Estate	2.59	34.87	-7.31				
Real Assets Fund	1.06	5.69	-4.47				
European real estate	-4.97	4.59	-17.90				



1H 2016 performance summary

Firstly we show how each region and asset class has performed during the year to date with the range of maximum and minimum outcomes. (Figure 3). Secondly, we look at the differences in performance of each mandate classified by size of Fund (Figure 4).

Average (%) 19.97 10.25 10.01 9.98	Max (%) 30.14 37.65 38.98 83.42	Min (%) -6.08 -38.18 -24.66
10.25 10.01	37.65 38.98	-38.18 -24.66
10.01	38.98	-24.66
9.98	83.42	
	05.42	-8.03
8.74	25.91	-1.61
6.17	19.01	-10.31
5.97	31.40	-8.90
-1.01	16.57	-22.37
	6.17 5.97	6.1719.015.9731.40



Focus: Liquidity of Listed Real Estate Securities

Ahead of the separation of real estate as the 11th GICs classification on 1st September 2016, we have been featuring a number of topics around the implications of this new explicit weighting, aiming to provide an understanding of certain dynamics of the sector. We have looked at passive strategies, in particular leveraged and inverse ETFs, and answered the question as to whether they had an impact on the underlying securities. In April, we looked at one of the components which may be used to construct an active strategy, namely single sector REITs. This month we examine liquidity, a key risk metric which can influence the level of generalist investment. In particular we look at the findings of a study we undertook with Nicole Lux, now of de Montfort University, which has recently been published in the Journal of Property Investment and Finance.

Liquidity in global real estate securities markets: A cyclical and regional analysis pre, during and post GFC.

Lux, N. and Moss, A. (2016) 'Liquidity in global real estate securities markets', *Journal of Property Investment & Finance*, 34(4), pp. 321–346. doi: 10.1108/jpif-11-2015-0078.

Summary

Purpose – The purpose of the paper was to test the relationship between liquidity in listed real estate markets , company size and geography during three different periods of market conditions, specifically; pre-crisis (2002–2006), during the crisis (2007 – 2009) and post-crisis (2010–2014). Further, the study analyses the impact of stock liquidity on stock performance. In a previous study (Moss and Lux 2014) we examined the impact of liquidity on the valuation of European real estate stocks. The result showed that there is a strong relationship between liquidity, valuation and market capitalisation post the Global Financial Crisis (GFC). **Design/methodology/Approach** – The paper studies the linkages between regional market liquidity and company size for 60 listed real estate companies globally, and determines the key drivers of company stock market liquidity pre, during and post-crisis as well as the impact on stock performance. The selected test indicators of liquidity to capture market depth and market tightness are daily stock turnover as percentage of market capitalization and daily bid-ask spreads.

Findings

- Market liquidity factors are correlated globally over time, indicating markets interdependence. However, sample groups by company size and geography form independent samples with different sample means, thus specific liquidity levels in each market may be different.
- Stock turnover levels have not recovered post-crisis to pre-crisis levels in the majority of markets while spreads have continued moving downward to negligible levels in line with the rest of the equity market.
- With regards to stock performance, the European bias previously detected is not apparent in the US, and there is no evidence of the small cap vs. large cap effect of small companies achieving superior returns, although smaller companies have outperformed in Europe and Asia in each of the last three years (2012-2014).

Practical implications The key implication is that although spread levels for smaller companies are higher, implying a slight risk premium when investing in small companies, this did not manifest into consistent superior stock market returns in the periods studied.

Introduction

The correlation of global equity markets has been a long-term research topic for investors seeking the optimum combination of risk diversification and maximum return. The quantitative analysis of international diversification dates back at least to Henry Lowenfeld's (1909) study of equal-weighted, industry-neutral, risk-

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adjusted, international diversification strategies, using price data from the global securities trading on the London Exchange around the turn of the century. He illustrates the imperfect co-movement of securities from various countries. In general, global equity markets and regional markets are often correlated with one another, especially in times of economic recession with prominent contagion and spillover effects. Listed real estate companies are considered attractive because of their liquidity, and exposure to underlying real estate returns. Since the evolution of the modern-REIT era in 1992 in the US, there has been a significant increase in market capitalisation, both in absolute terms and relative to the general equity market, as well as improvements in liquidity. But, with respect to previous findings about the correlation and co-movement in equity markets during times of stress, how have listed real estate markets been affected by the global financial crisis (GFC) 2007/2008 in terms of market liquidity and performance? This research aims to explore dependence in global markets focusing on factors of liquidity over three different time intervals, pre, during and post GFC. This paper analyses:

- 1) How liquidity in global listed real estate markets has changed pre- (2002-2006), during (2007 2009) and post crisis (2010 2014)
- 2) Whether liquidity is primarily influenced by company size and geography
- 3) The impact of liquidity and company characteristics on performance

Data and methodology

Data

The sample comprises 60 listed real estate companies from five regions (UK, Europe, Japan, Asia Pac (ex Japan), and the US; Our terminology reflects the decision to divide Europe into the UK and Continental Europe, and the Asia Pacific region into Japan and Asia (which includes Australia, but obviously not Japan). This allows us to compare regional rather than purely country groupings. We have isolated the UK and Japan as countries because we wanted to see whether the fact that they have independently large real estate markets and listed real estate groups, as well as separate major currencies to their regional neighbours, had an impact on our findings.

Previous studies have typically concentrated on individual countries, notably US, UK, and Australia. In future studies we would consider adding Australia as a separate grouping in the Asia Pac region, and Switzerland as a separate grouping in the European region. The dataset consists of daily data on trading volumes, prices, and market capitalisation over a period of 12 years (2002 – 2014); effectively 5 years pre, 2 years during, and 5 years after the Global Financial Crisis. Using constituents of the EPRA Global Developed Index as a starting point, the selected sample companies were grouped by i) size, based on an initial filter of daily liquidity in the shares (as measured by value traded), and ii) by listing region. The companies have been selected based on market capitalisation (size), historic data availability and data consistency. Each regional sample has an equal amount of small, medium and large companies. Daily liquidity measures of bid-ask spread and stock turnover are calculated for each company and aggregated to group averages representing three different time periods. The following analysis answers the question of the level of homogeneity in each sample as well as illustrating the size of the differences between the samples.

Caveats

It should be noted that due to the limited sample size, results can be distorted by stock specific factors. Companies are not homogenous, especially in non-mature markets. Any valuation premium for liquidity may not be linear or graded, and indeed the impact may be binary, i.e. only companies with a minimum level of liquidity are included in portfolios and can easily raise further equity capital. In addition, what is considered a large or small company may differ depending on geographic region. In the US, a large company has been defined as a company >=US\$ 10bn market capitalisation, a small company <US\$ 5bn market capitalisation, while in Japan a large company is defined as > US\$ 5bn market capitalisation (Table 1).

Table 1	Company size bands in each geographic market					
USD bn	Large	Medium	Small			
US	>=10bn	5 – 10bn	< 5bn			
UK	>=5bn	1 – 5bn	< 1bn			
Europe	>=2bn	1 - 2bn	< 1bn			
Asia	>=10bn	5 – 10bn	< 5bn			
Japan	>=5bn	2 – 10bn	< 2bn			

The sample shows that what is considered a large company in Europe or the UK is still only a small company in the US. Ranking the sample by largest to smallest company shows that four of the largest ten companies worldwide were American REITs. The largest company in Europe ranking among the top 10 by market capitalisation is Unibail. On the other hand, eight of the smallest ten are European or UK REITs

Methodology

In order to measure movements of global market liquidity, two measures have been selected, namely bid-ask spreads and stock turnover ratios. The company data sample is stratified by regional market and company size to identify sample independence. Regarding company size, previous research has shown that globally small caps can be distinguished from large caps in several aspects. For instance, while previous research has examined differences in performance, the turnover and bid-ask spreads can be significantly different. The first section of the paper explores the differences in liquidity on global REIT markets over different time periods.

Results

Bid-ask spreads at three different time intervals

Over the past 12 years, REIT markets globally have experienced a general growth of the sector and improving liquidity conditions. This is demonstrated by bid-ask spreads declining across all markets geographically. Postcrisis overall lowest spreads and highest price efficiency can be found in the US, where average spreads over the last five years post-GFC have been less than 10 bps. The trend in the US has been from large differences in spreads between company size to no significant spreads in any segment, indicating that this is a very liquid market which can sustain some market pressure. Overall, we expect to observe higher spreads in non-US equity markets due to their smaller market size and smaller market capitalisation and thus more limited market depth. Our data confirms this and highest spreads can be observed in less developed markets such as Asia, where the spread for a large company over the past five years has been 37bps.

Over a 12-year time horizon, the correlation of spreads measured across geographic regions by the Pearson's correlation coefficient show some long term correlation between UK, US and Europe and less correlation with Japanese and Asian markets (Table 2). At times, correlations are not detected immediately because of time lags between markets; for example, both the UK and European samples show peaks of spreads around the periods June – Sept 2006 and Oct – Dec 2008, while Asia and Japan show a slight increase in spreads early on in the crisis mid-2007 – 2008.

able 2	Pe	earson co	orrelatio	n coeffi	cient foi
	UK	Europe	US	Asia	Japan
UK	100.00%				
Europe	71.59%	100.00%			
US	69.82%	51.32%	100.00%		
Asia	18.50%	15.73%	8.52%	100.00%	
Japan	6.09%	10.03%	-9.77%	15.78%	100.00%

Stock turnover at three different time intervals

Stock turnover has been highly correlated for the five years post the GFC between all five global markets analysed and over the long-run period of 12 years correlations are visible (Table 3).

able 3	Regional market correlation stock turnov							
	US	UK	Asia	Europe	Japan			
US	100.00%							
UK	43.20%	100.00%						
Asia	62.88%	71.83%	100.00%					
Europe	58.34%	22.71%	42.29%	100.00%				
Japan	46.35%	50.84%	68.23%	40.30%	100.00%			

Similar to spreads, certain markets experience a time lag or might be influenced by local economics. Until 2007, markets in Japan, Europe and US are well correlated; however, very low correlations are found during the period of 2007 – 2009.

Overall, trading volumes in all markets have been at historically lowest levels since the European sovereign crisis in 2010 and show no significant signs of recovery. Especially UK trading volumes (6%) for large companies over the last 5 years have remained significantly below pre-crisis levels of 11. 5%. The US is the only market where trading levels have significantly improved and are now double the amount for small companies compared to pre-crisis levels (Table 4).

able 4	Reg	ional ma	rket sto	ock turne	over as a	% of m	
	5yr pre GF	C		5 yr post-	5 yr post-GFC average		
	Large	Medium	Small	Large	Medium	Small	
US	8.10%	9.70%	9.50%	12.00%	20.00%	20.00%	
EU	3.60%	4.10%	4.20%	7.00%	4.00%	3.00%	
UK	11.50%	7.10%	3.20%	6.00%	4.00%	3.00%	
Asia	4.70%	3.70%	4.20%	4.00%	3.00%	2.00%	
Japan	9.30%	5.00%	6.30%	10.00%	6.00%	6.00%	

Performance

Over the last five years post-GFC small companies have outperformed large companies in less mature markets like Europe and Asia, while in the UK and US small companies no longer have an advantage. These are also the markets with highest stock turnover levels

Conclusions

Our findings confirm that of the the most influential prior research, by Brounen et al (2009) into the determinants of international share liquidity in US, UK, EU, and Australia, where the authors find a relationship between market capitalisation, or firm value, and liquidity.

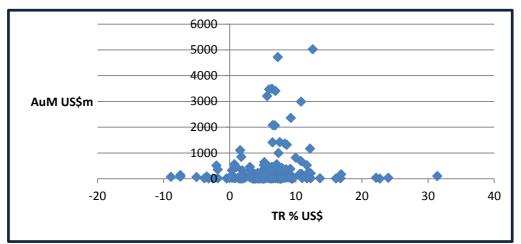
A significant finding from our analysis is that spread levels are more characterised by company size, and the general decline in spreads and narrowing of variances within groups indicate that REIT markets are maturing and developing globally in the same direction. This trend has continued through all three tested time intervals from post GFC, during GFC to post GFC. Results post-GFC from 2010 onwards show that despite higher general market correlation averages for both bid-ask spreads and turnover have moved further apart between regional markets. Differences in stock turnover are more driven by geographic market and have been more affected to show increased variances during the volatile period of the GFC, which is in line with previous findings by Cannon and Cole (2011) and Bhasin et al (1997).

Our initial purpose was to answer the question of whether liquidity in listed real estate markets is dependent on geography and company size. From our analysis the following conclusions can be drawn:

- 1) bid-ask spreads were historically more dependent on company size
- 2) volatility of spreads has reduced in each market and size group
- 3) across all size bands, and regions there has been a downward trend in bid ask spreads reflecting, inter alia, increased competition amongst market participants
- 4) as expected, it is also true that throughout the period the percentage bid ask spread reflects the overall liquidity of the stock, i.e. more liquid stocks have lower bid ask spreads
- 5) the European sector also saw a general increase in spreads starting in the summer of 2011, reflecting investor concerns regarding the Euro crisis
- 6) overall, it can be concluded that regional market is a less important variable when distinguishing between liquidity of companies than their market capitalisation by size.

Finally, while market liquidity differs by company size and geography, on an aggregate basis the small cap vs. large cap effect, does not always hold with regards to performance and depends on market maturity. In some markets, an inverse relationship can persist. Hence finding of Amihud (2002) and Hibbert (2009) that the liquidity premium for small caps translates into excess returns may not always be of use in listed real estate markets. The maturity of markets and economic cycle are more relevant in determining the performance of these markets. Thus, there is no obvious advantage that by investing specifically in small or large companies or Asia vs. US provides any higher probability of outperformance.

Global Funds Performance 1H 2016



By Fund size

Fund	Average	Maximum	Minimum
Global large	6.92	12.56	1.59
Global medium	6.13	12.25	-7.47
Global small	5.70	23.98	-8.90
All Funds	5.97	31.40	-8.90

Best Performing Funds

Global Large Funds

Fund	1H 2016 TR %	Sharpe ratio	Volatility %	AUM US\$m	Туре
DFA Global Real Estate Securities Portfol	12.56	1.20	15.02	5,013	Fund of Funds
CBRE Clarion Global Real Estate Income F	12.14	0.71	19.04	1,165	Closed-End Fund
iShares Developed Markets Property Yiel	10.79	1.99	16.64	2,981	ETF
SPDR Dow Jones Global Real Estate ETF	9.25	0.90	15.43	2,349	ETF
Deutsche Global Real Estate Securities Fu	8.64	0.90	14.45	1,313	Open-End Fund

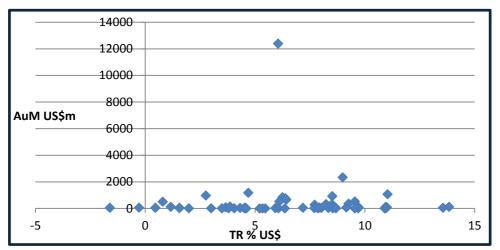
Global Medium Funds

Fund	1H 2016 TR %	Sharpe ratio	Volatility %	AUM US\$m	Туре
MFS VIT III Global Real Estate Portfolio	12.25	0.67	15.74	204	Variable Annuity
Dimensional Global Real Estate Trust	11.94	1.54	12.17	240	Unit Trust
MFS Global Real Estate Fund	11.67	1.03	14.21	516	Open-End Fund
FORTIS Mix Umbrella Fund NV - High Inco	10.84	0.74	14.96	186	Open-End Fund
Dreyfus Global Real Estate Securities Fun	9.99	0.84	15.14	811	Open-End Fund

Global Small

Fund	1H 2016 TR %	Sharpe ratio	Volatility %	AUM US\$m	Туре
Strategic REIT Fund Forecasted Dividend	23.98	1.33	9.53	29	Open-End Fund
Fixed Distribution Type Developed REIT A	22.69	0.50	9.11	0	Open-End Fund
TMB Property Income Plus Fund	16.86	0.73	9.89	168	Open-End Fund
High Dividend Global REIT Premium Fund	16.75	0.23	13.37	9	Open-End Fund
B&I Global Real Estate Securities Fund	13.66	n/a	n/a	8	Open-End Fund

Global REIT Funds Performance 1H 2016



By Fund size

Fund	Average	Maximum	Minimum
Global REIT large	6.79	11.04	2.76
Global REIT medium	8.16	22.73	-0.28
Global REIT small	9.41	25.91	-1.61
All Funds	8.74	25.91	-1.61

Best Performing Funds

Global REIT Large Funds

Fund	1H 2016 TR %	Sharpe ratio	Volatility %	AUM US\$m	Туре
Sumitomo Mitsui Global REIT Open	11.04	-0.25	20.02	1,070	Fund of Funds
DIAM World REIT Index Fund - Monthly D	8.99	-0.08	20.90	2,331	Fund of Funds
DLIBJ DIAM World REIT Income Open - Me	8.51	-0.28	19.25	916	Fund of Funds
Global REIT Open/Nomura	6.42	-0.45	19.53	653	Fund of Funds
World REIT Selection US/Okasan	6.25	-0.04	21.41	836	Fund of Funds

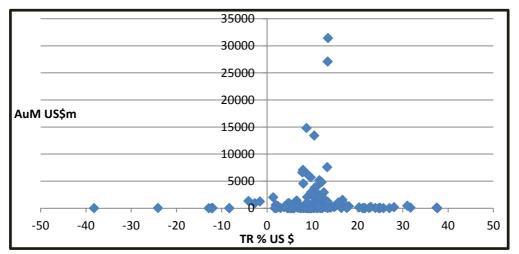
Global REIT Medium Funds

Fund	1H 2016 TR %	Sharpe ratio	Volatility %	AUM US\$m
Daiwa Developed Market REIT Alpha Curr	22.73	1.34	9.20	112
Sumitomo Mitsui Global REIT Open - 3 M	11.01	-0.25	20.11	77
GS Global REIT Portfolio - Monthly Divide	9.72	-0.53	19.54	86
Sompo Japan Global REIT Fund	9.55	-0.02	20.30	530
Nomura Global REIT Premium Currency S	8.50	-0.48	22.76	311

Global REIT Small Funds

Fund	1H 2016 TR %	Sharpe ratio	Volatility %	AUM US\$m	Туре
Nomura World REIT Currency Selection F	25.91	-0.13	31.21	37	Open-End Fund
Nikko AMP Global REIT Fund - Monthly D	18.77	0.83	14.99	15	Fund of Funds
Global REIT Selection/Okasan	13.56	-0.08	20.32	49	Fund of Funds
DC Global REIT Open/SMAM	10.94	-0.25	20.15	3	Open-End Pensio
Sumitomo Mitsui Global REIT Open - Year	10.91	-0.25	20.14	13	Fund of Funds

US Funds Performance 1H 2016



By Fund size

Fund	Average	Maximum	Minimum
US large	9.71	16.66	-4.08
US medium	10.54	31.02	1.96
US small	10.34	37.65	-38.18
All Funds	10.25	37.65	-38.18

Best Performing Funds

US Large Funds

Fund	1H 2016 TR %	Sharpe Ratio	Volatility%	AUM US\$	Туре
Cohen & Steers Quality Income Realty Fu	16.66	1.62	21.81	1,544	Closed-End Fund
Cohen & Steers REIT and Preferred Incom	15.75	1.58	15.47	1,033	Closed-End Fund
iShares Mortgage Real Estate Capped ETF	13.48	0.67	16.87	1,121	ETF
Vanguard REIT ETF	13.48	1.36	16.35	31,422	ETF
Vanguard REIT Index Fund	13.43	1.35	16.40	27,101	Open-End Fund

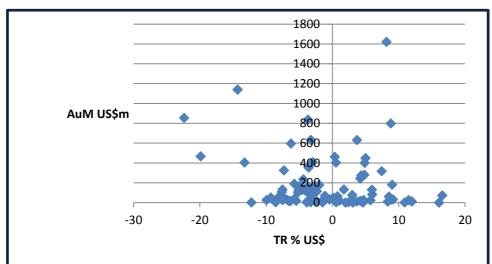
US Medium Funds

Fund	1H 2016 TR %	Sharpe ratio	Volatility %	AUM US\$m	Туре
Goldman Sachs US REIT Fund A Course - 0	31.02	1.13	18.50	440	Fund of Funds
Fidelity US REIT Fund A - Hedged	28.06	1.39	18.76	172	Fund of Funds
ProShares Ultra Real Estate	22.95	1.16	32.17	228	ETF
PowerShares KBW Premium Yield Equity	20.36	1.09	19.79	159	ETF
Nuveen Real Estate Income Fund	18.09	1.37	19.68	358	Closed-End Fund

US Small Funds

Fund	1H 2016 TR %	Sharpe ratio	Volatility %	AUM US\$m	Туре
T&D Bull Bear Fund US REIT Bull Course	37.65	n/a	n/a	1	Fund of Funds
Direxion Daily Real Estate Bull 3x Shares	37.49	1.24	49.80	99	ETF
American REIT ALPHA Quattro Currency S	31.72	n/a	n/a	84	Open-End Fund
PineBridge US REIT Income Fund A Course	27.04	1.34	17.83	4	Fund of Funds
Mitsubishi UFJ US REIT Fund A - Currency	25.72	1.11	18.10	4	Open-End Fund

European Funds Performance 1H 2016



By Fund size

Fund	Average	Maximum	Minimum
Europe medium	-2.58	9.01	-22.37
Europe small	0.47	16.57	-12.20
All funds	-1.01	16.57	-22.37

Best Performing Funds

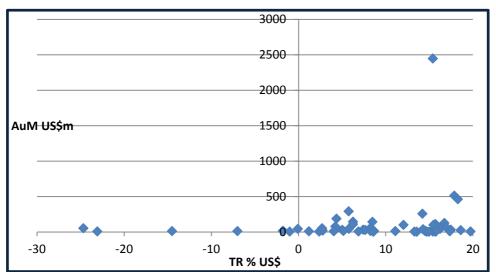
European Medium Funds

Fund	1H 2016 TR %	Sharpe ratio	Volatility %	AUM US\$m	Туре
Mi-Fonds CH - SwissImmo	9.01	1.61	7.05	180	Open-End Fund
UBS CH Institutional Fund - Swiss Real Es	8.82	1.36	7.39	798	Open-End Fund
iShares European Property Yield UCITS ET	8.16	2.34	17.77	1,620	ETF
Banque Martin Maurel BMM Pierre Capit	7.44	0.95	13.47	317	FCP
DJE Real Estate	6.02	1.43	4.99	81	FCP

European Small Funds

Fund	1H 2016 TR %	Sharpe ratio	Volatility %	AUM US\$m	Туре
Kapitalforeningen Institutionel Investor	16.57	1.25	19.06	72	Open-End Fund
Amundi Europe REIT Fund High Interest C	16.08	-0.05	28.65	1	Open-End Fund
NN Europe REIT Fund Asset Growth Cours	11.99	0.05	21.29	11	Open-End Fund
Deutsche Europe REIT Fund Monthly A JP	10.90	0.26	16.26	1	Open-End Fund
UBS ETF CH-SXI Real Estate CHF	9.16	1.56	10.98	32	ETF

Asian Funds Performance 1H 2016



By Fund size

Fund	Average	Maximum	Minimum
Asian medium	11.56	16.75	-0.06
Asian small	9.42	38.98	-24.66
All Funds	10.01	38.98	-24.66

Best Performing Funds

Asian Medium funds

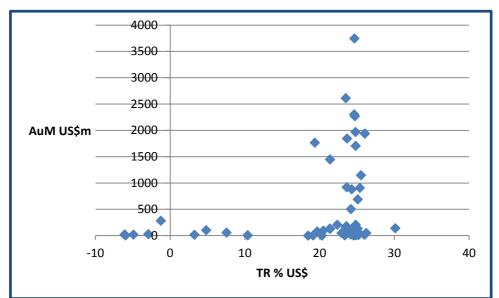
Fund	1H 2016 TR %	Sharpe ratio	Volatility %	AUM US\$m	Туре
B&I Pan-Asian Total Return Real Estate Se	16.75	0.57	13.65	125	Open-End Fund
Asia Pacific Select Reit Fund Monthly/MU	15.72	n/a	n/a	109	Open-End Fund
B&I Asian Real Estate Securities Fund	15.49	0.53	15.85	98	Open-End Fund
Asia High Yield REIT Fund/SMAM	15.43	-0.32	19.08	2,444	Open-End Fund
iShares Asia Property Yield UCITS ETF	14.22	1.16	18.97	255	ETF

Asian Small funds

Fund	1H 2016 TR %	Sharpe ratio	Volatility %	AUM US\$m	Туре
Asia High Yield REIT Fund BRL/SMAM	38.98	0.13	31.56	2	Open-End Fund
Asia REIT Strategy Open Hedged Monthly	28.26	n/a	n/a	1	Fund of Funds
Nomura Asia REIT Fund Monthly Dividen	19.76	-0.02	19.14	6	Fund of Funds
REIT Asia Mix Open/SMAM	18.62	0.05	19.66	22	Open-End Fund
Manulife Investment Asia-Pacific REIT Fu	17.37	n/a	n/a	6	Fund of Funds

Real Estate Securities Funds Monthly

Japanese Funds Performance 1H 2016



By Fund size

Fund	Average	Maximum	Minimum
Japanese large	24.18	26.06	19.36
Japanese medium	24.28	30.14	21.39
Japanese small	17.25	26.25	-6.08
All Funds	19.97	30.14	-6.08

Best Performing Funds

Japanese Large funds

Fund	1H 2016 TR %	Sharpe ratio	Volatility %	AUM US\$m	Туре
NEXT FUNDS REIT INDEX ETF	26.06	0.56	22.63	1,938	ETF
Listed Index Fund JREIT Tokyo Equity Exch	25.55	0.53	21.93	1,146	ETF
Nomura Japan Real Estate Fund	25.40	0.57	23.24	907	Open-End Fund
MHAM J-REIT Index Fund - Monthly Settle	24.84	0.49	22.86	1,703	Fund of Funds
Daiwa J-REIT Open - Monthly Dividend	24.82	0.49	23.01	1,967	Fund of Funds

Japanese Medium funds

Fund	1H 2016 TR %	Sharpe ratio	Volatility %	AUM US\$m	Туре
JREIT Fund BRL Course Monthly Dividend	30.14	-0.09	38.11	140	Open-End Fund
Daiwa Fund Wrap J-REIT Select	25.11	0.62	22.57	688	Open-End Fund
SMTAM SMT J-REIT Index Open	25.10	0.52	23.22	132	Fund of Funds
Daiwa J-REIT Open	24.84	0.49	23.05	204	Fund of Funds
J REIT Open - Monthly Dividend/Okasan	24.41	0.50	22.48	220	Fund of Funds

Japanese Small funds

Fund	1H 2016 TR %	Sharpe ratio	Volatility %	AUM US\$m	Туре
SMBC Fund Wrap J-REIT/DaiwaSB	26.25	0.62	23.14	49	Fund of Funds
Daiwa J-REIT Fund	26.01	0.67	22.41	15	Fund of Funds
Nomura Index Fund J-REIT	25.27	0.54	23.22	50	Open-End Fund
Nomura J-REIT Index Nomura SMA EW	25.23	0.47	23.22	12	Open-End Fund
J-REIT Index Fund Wrap/MUKAM	25.16	0.46	23.23	17	Open-End Fund



Infrastructure/Real Asset Funds 1H 2016

By Fund size

Fund	Average	Maximum	Minimum
Infrastructure large	12.22	34.78	-7.90
Infrastructure medium/small	9.75	34.76	-8.03
Real Assets	6.17	19.01	-10.31
All Funds	9.79	34.78	-10.31

40

TR % US\$

60

80

100

Best Performing Funds

1000 500

-20

0

20

Global Infrastructure Large

Fund	1H 2016 TR %	Sharpe ratio	Volatility %	AUM US\$m	Туре
Nomura Deutsche High Dividend Infrastr	34.78	-0.16	33.85	465	Open-End Fund
First Trust Energy Infrastructure Fund	24.96	-0.09	38.08	347	Closed-End Fund
Deutsche Global Infrastructure Fund	15.24	0.41	15.33	3,897	Open-End Fund
iShares Global Infrastructure ETF	14.36	0.26	16.14	922	ETF
Nuveen Global Infrastructure Fund	13.54	0.54	14.37	634	Open-End Fund

Global Infrastructure Medium/Small

Fund	1H 2016 TR %	Sharpe ratio	Volatility %	AUM US\$m	Туре
Nomura Deutsche High Dividend Infrastr	34.76	-0.16	33.91	22	Open-End Fund
BlackRock Utility and Infrastructure Trus	26.51	1.18	18.45	356	Closed-End Fund
Shinko Global Infrastructure Equity Fund	26.38	-0.17	14.71	95	Open-End Fund
Dynamic Real Estate & Infrastructure Inc	24.66	2.45	12.27	209	Open-End Fund
BMO Global Infrastructure Index ETF	22.63	0.66	14.22	168	ETF

Real Assets

Fund	1H 2016 TR %	Sharpe ratio	Volatility %	AUM US\$m	Туре
T Rowe Price Real Assets Fund Inc	19.01	0.36	19.25	4,193	Open-End Fund
AB SICAV I - Real Asset Portfolio	14.10	-0.17	18.41	20	SICAV
Cohen & Steers Real Assets Funds Inc	12.58	-0.03	12.75	139	Open-End Fund
Ofi MultiSelect - Lynx Real Assets	12.12	-0.36	17.51	35	SICAV
Prudential Real Assets Fund	8.41	-0.03	9.13	175	Open-End Fund

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